

16500, INC 2100 POWELL ST SUITE 800 EMERYVILLE, CA 94608-1826 Phone: 510-208-5005 Fax: 510-420-5719 Contact: Lux, Amy

Dynamic Lighting Showcase

21-12877-5 7/26/2021

Submission Type		
Prior Approval	Resubmittal for Approval	Approval
Corrections	Your Use	✓ Other

sixtee	n <mark>5</mark> hundred	Dvnami			
Т	уре (Qty	Manufacturer/Brand	Catalog Number	Notes
1		1	3G	3G-1RLI-RGBW-L750-S80-UNV- DMX-WT-FL-S(2')	
2		1	3G	3G-4RPE RGBW L1000 H90 UNV DMX WT FL S-2FT	
9		1	Acclaim Lighting	DDJ-241-CLN	
1	0	1	Acclaim Lighting	DSC 241 CLN	
1	1 [·]	1	Acclaim Lighting	DAS 241 AALN	
1	2	1	Acclaim Lighting	LXEIA LXCU OPXL	
1	3	1	Acclaim Lighting	AQP 261 AKLN	
2	.0	1	Acuity Brands Lighting	EVO ARTC RGBW/12 4AR MWD LSS 120 DMX TRW	
2		1	Acuity Brands Lighting	EVO TUWH ATMR/18 4AR MD LSS 120 DMX TRW	3
		1	ABL-Hydrel	4750L QS 4FT 1000LMF RGBW MVOLT MFL KM CSL25 DMX BZ	
	-	1	ABL-Hydrel	4426 SS 36LED RGB 120 WFL CLS NM RDM CSL100 SWM	3
_		1	ABL-Hydrel	SAF7 LED P1 RGBW3 MVOLT 20DEG CWL KM DMX BRT	
	-		ABL-Hydrel	8100 36LED RGB MVOLT WFL YM RDM 12DMX BL	
			ABL-Hydrel	M9710 SS 18LED RGB MVOLT FL FLC RDM 34S	
2	7	1	ABL-Mark Lighting	MKS101 LCB 4FT MSL4 M100ADJC1 MCLB18 ARTC RGBV 400LMF WW DARK MVOLT WTP DMX F1A/120A NOFCL RDCY WTPCY	V
2	8 ·	1	ABL-Mark Lighting	MKS101 LCB 4FT MSL4 M100ADJC1 80CRI TUWH RHYR 400LMF WW DARK MVOLT WTP NLT F1A/120A NOFCL RDCY WTPCY	
2	9	1	ABL-Mark Lighting	MCV102 LCB 4FT MSL4 M100ADJC1 MCLB18 ARTC RGBV 400LMF 120X120DEG DARK MVOLT WTP DMX MFCL50TR	V
3	.0 .	1	ABL-Lithonia Lighting	MKS102 LCB 4FT MSL4 M100ADJC1 MCLB18 80CRI TUWH RHYR 400LMF 120X120DEG DARK MVOLT WTP NLT NOFCL	
3	1	1	ABL-Mark Lighting	MKS501 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF WW DARK MVOLT WTP DMX NOFCL	
3	2	1	ABL-Mark Lighting	MKS501 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF WW DARK MVOLT WTP DMX NOFCL	

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C	Submit	tted By 0, INC		
Туре	Qty	Manufacturer/Brand	Catalog Number	Notes
33	1	ABL-Mark Lighting	MCV502 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	
34	1	ABL-Mark Lighting	MCV502 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	
36	1	Delray Lighting	UC2 W SQ CR DMX	
37	1	Delray Lighting	ULP4 W RGBW	
38	1	Targetti	DFA SB 04 O RGB 24	
39	1	Targetti	IN CL 1 FC 12 24	
40	1	Targetti	KPL WW L1 RGBWE2 IDU2325 1DU434312	
41	1	Targetti	MM RP 09 RGB L 1E2382 MMRGBLEADL DEDDM001242CDMX	
42	1	eos Light Panel Systems	LP 24V 8 8 4SL RGBW SP DIF CC6 TL WC DMX	6
44	1	Erco- USA	A0033246	
45	1	Erco- USA	A0032734	
46	1	Erco- USA	A0033646	
47	1	Erco- USA	A0034158	
51	1	KELVIX	RGBWA-WR-24V	
52	1	KELVIX	RGBCT-WR-24V	
52A	1	MISC	MEDI-O	
53	1	OCL	GB1 P1CF 04 FS BKP RGBW UNV 48 DMX	
56	1	Prudential Lighting	BPRO3-LIN FLSH CH SO 2' TMW TMW BTW TGADC UNV X1 EPDA	
56A	1	MISC	CLIR 630W RGB	
49A	1	MISC	FLOPPY FLEX	
49C	1	MISC	IMS MK2	
58	1	USA Illumination	B4SWF 32FC1 W1 D1 WH WH NC UNV D23X2 RJ CB27	
59	1	USA Illumination	B3RAF 18FC1 35 S WH WH NC1 RM CB27	
60	1	USA Illumination	CBRD10 32FC1 70 SF WH PJ1 UNV D23X2 DW	
61	1	USA Illumination	B4RGF 30 32FC1 55 SF WH WH NC UNV D23X2 RJ	
62	1	USA Illumination	B3SGF 30 18FC1 60 SF WH WH NC1 UNV D23X2 RJ	
3	1	Acclaim Lighting	ART500	
4	1	Acclaim Lighting Acclaim Lighting	PHAROS TPC PHAROS EXT	

Sixteen5hundred By 16500, INC					
	Туре	Qty	Manufacturer/Brand	Catalog Number	Notes
f	6	1	Acclaim Lighting	XMT-350	
7	7	1	Acclaim Lighting	ARIA WIRELESS	
8	8	1	Acclaim Lighting	RDS 6	
	15	1	ABL-Acuity Brands Controls	FCS 7TSN X DBL	
ſ	16	1	ABL-Lithonia Lighting	DUALDRIVE - TW	
	17	1	ABL-Lithonia Lighting	SOLODRIVE - WARM DIM	
ſ	18	1	ABL-Lithonia Lighting	LINEARDRIVE - DMX	
	19	1	ABL-Lithonia Lighting	POWERDRIVE - DMX	
í	35	1	ABL-Acuity Brands Controls	NSBVN 4GNG 1BT4 2SL2 4SL1 POE WH	
2	48	1	KELVIX	DMXC-N2-6V-IW-B	
4	49	1	KELVIX	KE2	
2	49B	1	MISC	PROPLEX	

			-
	Project 21-12877-5 Date 7/26/2021	Catalog Number	Туре
_		3G-1RLI-RGBW-L750-S80-UNV-DMX-WT-FL-S(2')	1
sixteen5hundred			
	Submitted By	Notes	
	16500, INC		
			1



1.5" RECESSED LINEAR TUNABLE WHITE & RGBW

Narrow 1.5" aperture with one piece extruded aluminum housing Individual or continuous runs in multiple run configurations Suitable for drywall, grid, wood, and various architectural ceilings LED system with performance up to 103 lumens per watt Extruded acrylic lens with optimal performance and glare control Asymmetric optics available

1% dimming standard with several integral driver options

ORDERING INFORMATION



CAT. NO	LED SOURCE		LUMEN OUTPUT		CRI		VOLTAGE
3G-1RLI TW - TUNABL (2700K-6 RGBW - INFINITE (3500K W		5500K) E COLOUR ¹	L250 - LOW OUTPUT (250 LM/FT) ² L500 - MEDIUM OUTPUT (500 LM/FT) L750 - HIGH OUTPUT (750 LM/FT) L1000 - VERY HIGH OUTPUT (1000 LM/FT) ³ LC CUSTOM OUTPUT (SPECIFY LM/FT)* *Specify custom lumen outputs in 50lm increments (ie: LC600, LC650, LC700) Custom output cannot exceed LC1000 Lumen outputs suitable for white LED source only		S80 - 83+ H90 - 93+ (UNV - 120/277V
DRIVER		FLANGE T	YPE	LENS POSITION		OPTIONS	
DALI - DALI (eldoLED, 100-1%) XTR - T DMX - DMX (eldoLED, 100-0%) ¹ FX - F DHLT - LUTRON T SERIES (100-1%) (2 CHANNEL TUNABLE WHITE) GCX - C *Grid ceil mountin *		*Grid ceiling mounting br	1LESS NGELESS	ith universal e for all ceiling			RGENCY CIRCUIT ⁴ CAGO PLENUM
LENGTH (FEET)							
S ' (STRAIGHT RUN)* L ' X' (L-SHAPE) U ' X' (U-SHAPE) R ' X' (RECTANGLE/SQUARE) T ' X' (T-SHAPE) X ' X' (X-SHAPE) CUS (CUSTOM LAYOUT - PROVIDE DRAWING) * Individual units available from 2' to 8' 2' not available for grid ceiling version Continuous runs available in 1' increments only							
Continuous runs available int 1' increments only 1 RGBW LED source available with S80 (83 +CRI) and DMX driver option only. Not available with asyming 2 L250 (250LM/FT) not available in 2' and 3' lengths. Specify LC400 for 2' and 3' fixture lengths when 3 L1000 (100ClM/FT) not available for H90 (93+ CRI) 4 EMC (emergency circuit) options available for tunable white LED source only. Not available with RGB				outputs lower than 500LM/FT are r	required		3G T - Tunable White 3GB - RGBW

JUNE 7, 2021

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_	Dynamic Eighning Onowouse	3G-1RLI-RGBW-L750-S80-UNV-DMX-WT-FL-S(2')	1
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-	Submitted By	Notes	
	16500, INC		

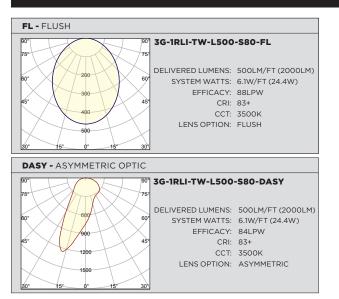


1.5" RECESSED LINEAR TUNABLE WHITE & RGBW

PERFORMANCE CHART BASED ON 4' LENGTH WITH FLUSH LENS (TUNABLE WHITE AND 83+ CRI)

COLOR TEMP	DELIVERED LUMENS (LM/FT)	SYSTEM WATTS (W/FT)	EFFICACY (LPW)
	250	3.0	84
2700K	500	6.1	81
2700K	750	9.4	80
	1000	12.5	79
	250	3.0	90
7500%	500	6.1	88
3500K	750	9.4	85
	1000	12.5	83
	250	3.0	102
6500K	500	6.1	103
6500K	750	9.4	98
	1000	12.5	92
EFFICACY (LPW)	CRI	Multiplier	
ADJUSTMENT FACTOR	93+	0.88	

PHOTOMETRY BASED ON 4' LENGTH (83+ CRI AND 3500K SOURCE)





	Project 21-12877-5 Date 7/26/2021	Catalog Number	Туре
	Dynamic Lighting Showcase	3G-1RLI-RGBW-L750-S80-UNV-DMX-WT-FL-S(2')	1
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	Submitted By	Notes	
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1.5" RECESSED LINEAR TUNABLE WHITE & RGBW

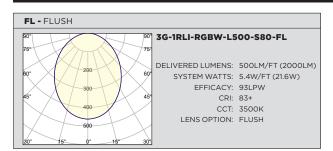
PERFORMANCE CHART BASED ON 4' LENGTH (RGBW WITH 83+ CRI AND 3500K SOURCE)

COLOR TEMP	DELIVERED LUMENS (LM/FT)	SYSTEM WATTS (W/FT)	EFFICACY (LPW)
	250	2.6	95
3500K	500	5.4	93
3500K	750	8.9	85
	1000	13.0	77
	RGB	INTENSITY Min - Max (mcd)	
	RED	355 - 805	
PER LED	GREEN	710 - 1400	

BLUE

PHOTOMETRY BASED ON 4' LENGTH (83+ CRI AND 3500K SOURCE)

140 - 355





(U		Dynamic Lighting Showcase	Catalog Number 3G-1RLI-RGBW-L750-S80-UNV-DMX-WT-FL-S(2')	Type
	-	Submitted By 16500, INC	Notes	



1.5" RECESSED LINEAR TUNABLE WHITE & RGBW

TECHNICAL

HOUSING

Extruded aluminum housing with narrow 1.5" aperture Individual units and continuous runs available in 1' increments Trim flange with matte white powder coated finish and minimal 0.400" overlap Trimless model features a satin coat mudding flange for seamless ceiling 24-gauge LED reflector with high reflectance white powder coated finish Standard polyester powder coated matte white finish

OPTICS

Extruded, satin acrylic lens designed for optimal performance and glare control. Up to 8' continuous High performance asymmetric optics available

ELECTRICAL

Luminaires are pre-wired with factory installed quick connects and branch circuit wiring Multiple driver options available for tunable white LED system DMX driver option for RGBW system with RDM control and 100-0% dimming range All drivers are integral and easily accessible through luminaire aperture

LED SYSTEM FOR TUNABLE WHITE (TW)

Proprietary LED system with color consistency <3 SDCM 2700K-6500K CCT range Standard 83+CRI. Optional 93+CRI. (R9 value of 56 for 93+CRI) L90 >60,000 hours 5 Year Warranty

LED SYSTEM FOR RGBW

Proprietary LED system with color consistency <3 SDCM White LED available in 35K with 83+ CRI L80 >72,000 hours Red (335-805 mcd) Green (710-1400 mcd) Blue (140-355 mcd) 5 Year Warranty

MOUNTING

Housing suspended via 1/4" threaded rod or suspension cables (by others) Toolless installation with 3G's proprietary mounting system Internal, toolless joiner system (latch and hook) easily connects multiple sections together LED reflectors remain within each fixture section during installation with 3G's click and lock spring system Trim fixture designed for use in drywall, wood, and other architectural ceiling materials Trimless fixture designed for use in drywall, mud-in ceiling applications Flangeless fixture designed for use in wood ceilings. New construction only Suitable for various grid ceiling applications (see mounting details) Fixture weight: +/- 2.5 lbs/ft

LISTING

ETL listed and tested to cUL standards. Suitable for dry and damp locations

WARRANTY

5 Year Warranty on LED and drivers

Manufacturer 1 Year Warranty for defects in material and workmanship under normal use Ambient temperature at fixture should not exceed $25^{\circ}C$

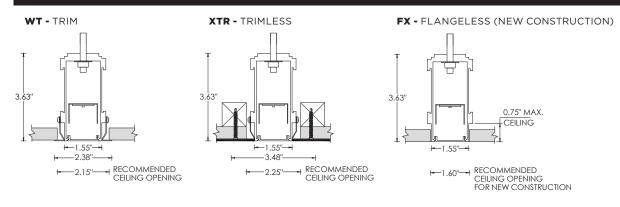


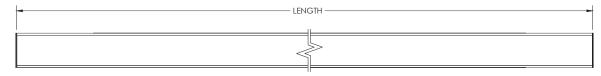
	Dynamic Lighting Showcase	Catalog Number 3G-1RLI-RGBW-L750-S80-UNV-DMX-WT-FL-S(2')	Туре
sixteen5hundred	Submitted By 16500, INC	Notes	•



1.5" RECESSED LINEAR TUNABLE WHITE & RGBW

DRAWINGS AND DIMENSIONS HARD CEILING

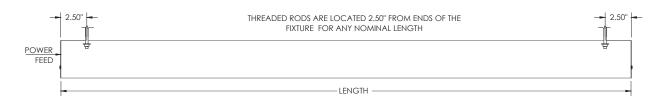




LENS OPTION

 FL - FLUSH
 DASY - ASYMMETRIC

MOUNTING DETAILS HARD CEILING



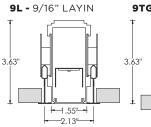


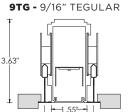
	Tiojoor ET TEOTT O Baro TIEO/E0ET	Catalog Number 3G-1RLI-RGBW-L750-S80-UNV-DMX-WT-FL-S(2')	Туре
sixteen5hundred	Dynamic Lighting Chowcase		1
	Submitted By 16500, INC	Notes	



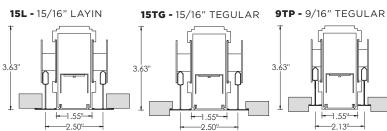
1.5" RECESSED LINEAR TUNABLE WHITE & RGBW

DRAWINGS AND DIMENSIONS GRID CEILING



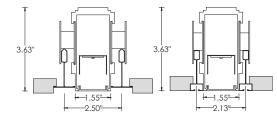


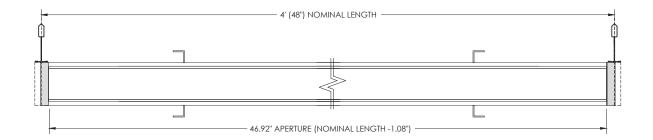
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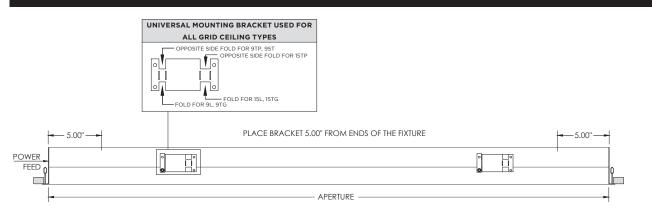
15TP - 15/16" TEGULAR

9ST - 9/16" SLOT TEE TEGULAR





MOUNTING DETAILS GRID CEILING



Dynamic Lighting Showcase	Catalog Number 3G-1RLI-RGBW-L750-S80-UNV-DMX-WT-FL-S(2')	Туре
	Notes	



1.5" RECESSED LINEAR TUNABLE WHITE & RGBW

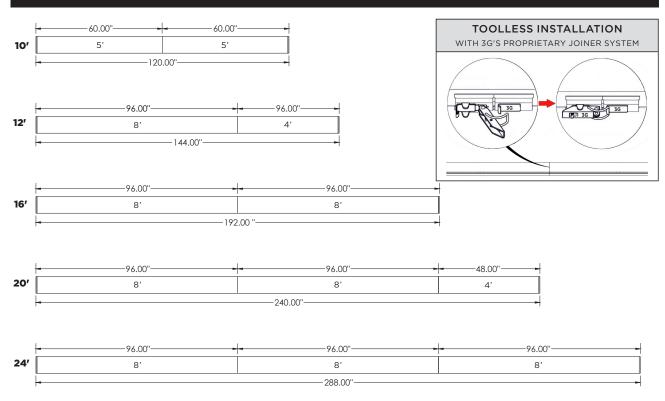
PATTERNS

Specify pattern shape and overall dimensions as shown below Patterns are connected with fully illuminated 12"x12" L, T, and X-shaped sections Please consult factory for custom patterns and shapes not shown below



L-SHAPE	U-SHAPE	RECTANGLE/SQUARE	T-SHAPE	X-SHAPE
Provide dimensions of AxB Example: L - 6'x8'	Provide dimensions of AxBxC Example: U - 8'x10'x6'	Provide dimensions of AxB Example: R - 10'x8'	Provide dimensions of AxB Example: T - 14'x6'	Provide dimensions of AxB Example: X - 14'x14'

TYPICAL SECTION MOUNTING (AVAILABLE IN 1' INCREMENTS AS STANDARD)



NOTE:

Run lengths and configurations not shown are available in 1' increments as standard. Please contact 3G for 1" increments

Dynamic Lighting Showcase	Catalog Number 3G-4RPE RGBW L1000 H90 UNV DMX WT FL S-2FT	Туре 2
 Submitted By 16500, INC	Notes	_



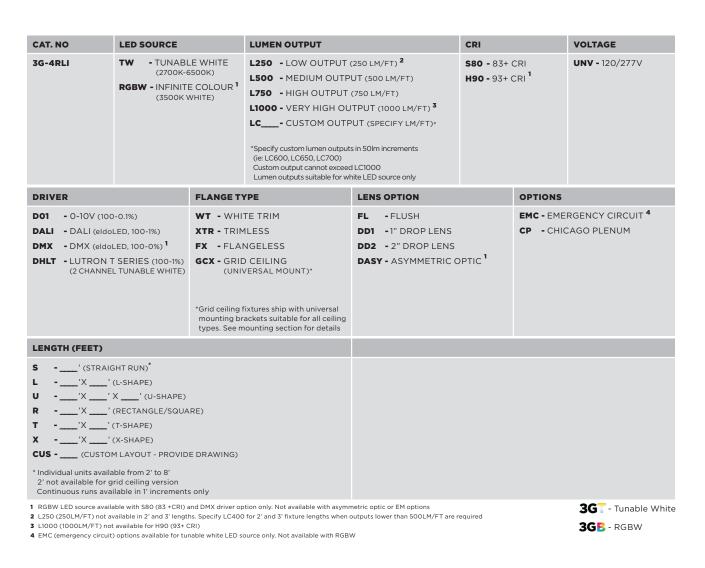
3G-4RLI 3.5" RECESSED LINEAR TUNABLE WHITE & RGBW

3.5" aperture with one piece extruded aluminum housing Individual or continuous runs in multiple run configurations Suitable for drywall, grid, wood, and various architectural ceilings LED system with performance up to 147 lumens per watt Extruded acrylic lens available in flush, 1" and 2" drop lens options Asymmetric optics available

1% dimming standard with several integral driver options

ORDERING INFORMATION







	Dynamic Lighting Showcase	Catalog Number 3G-4RPE RGBW L1000 H90 UNV DMX WT FL S-2FT	^{Туре}
-		Notes	

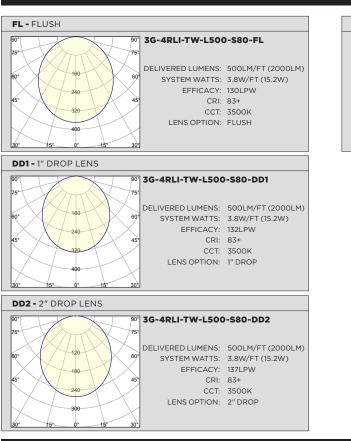


3.5" RECESSED LINEAR TUNABLE WHITE & RGBW

PERFORMANCE CHART BASED ON 4' LENGTH WITH FLUSH LENS (TUNABLE WHITE AND 83+ CRI)

COLOR TEMP	DELIVERED LUMENS (LM/FT)	SYSTEM WATTS (W/FT)	EFFICACY (LPW)
	250	1.9	126
2700K	500	3.8	121
2700K	750	5.8	119
	1000	8.0	118
	250	1.9	135
	500	3.8	130
3500K	750	5.8	127
	1000	8.0	123
	250	1.9	147
6500K	500	3.8	145
6500K	750	5.8	138
	1000	8.0	132
EFFICACY (LPW)	CRI	Multiplier	
ADJUSTMENT FACTOR	93+	0.88	

PHOTOMETRY BASED ON 4' LENGTH (83+ CRI AND 3500K SOURCE)



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DASY - ASYMMETRIC OPTIC	
90° 900 75° 75° 3G-4RLI-TW-L500	
	500LM/FT (2000LM) 3.8W/FT (15.2W)
EFFICACY:	125LPW
	83+
320 CCT:	3500K
LENS OPTION:	ASYMMETRIC
30° 55° 0° 15° 30°	



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	Submitted By 16500, INC	Notes	

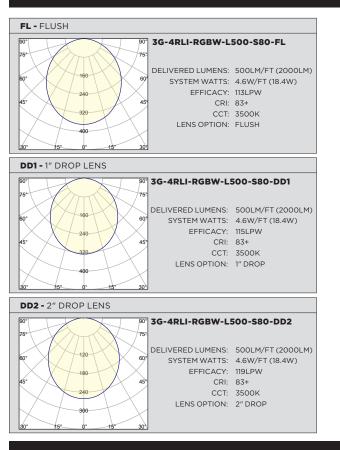


3.5" RECESSED LINEAR TUNABLE WHITE & RGBW

PERFORMANCE CHART BASED ON 4' LENGTH (RGBW WITH AND 83+ CRI AND 3500K SOURCE)

COLOR TEMP	DELIVERED	SYSTEM	EFFICACY
COLOR TEMP	LUMENS (LM/FT)	WATTS (W/FT)	(LPW)
	250	2.2	119
3500K	500	4.6	113
	750	7.8	96
	1000	11.3	89
	RGB	INTENSITY Min - Max (mcd)	
	RED	355 - 805	
PER LED	GREEN	710 - 1400	
	BLUE	140 - 355	

PHOTOMETRY BASED ON 4' LENGTH (83+ CRI AND 3500K SOURCE)





sixteen5hundrec	Dynamic Lighting Showcase	Catalog Number 3G-4RPE RGBW L1000 H90 UNV DMX WT FL S-2FT	^{Туре}
		Notes	



3.5" RECESSED LINEAR

TUNABLE WHITE & RGBW

TECHNICAL

HOUSING

Extruded aluminum housing with 3.5" aperture Individual units and continuous runs available in 1' increments Trim flange with matte white powder coated finish and minimal 0.400" overlap Trimless model features a satin coat mudding flange for seamless ceiling 24-gauge LED reflector with high reflectance white powder coated finish Standard polyester powder coated matte white finish

OPTICS

Extruded, satin acrylic lens designed for optimal performance and glare control. Up to 8' continuous Lens options include flush, 1" and 2" drops with illuminated end caps for all drop lenses High performance asymmetric optics available

ELECTRICAL

Luminaires are pre-wired with factory installed quick connects and branch circuit wiring Multiple driver options available for tunable white LED system DMX driver option for RGBW system with RDM control and 100-0% dimming range All drivers are integral and easily accessible through luminaire aperture

LED SYSTEM FOR TUNABLE WHITE (TW)

Proprietary LED system with color consistency <3 SDCM 2700K-6500K CCT range Standard 83+CRI. Optional 93+CRI. (R9 value of 56 for 93+CRI) L90 >60,000 hours 5 Year Warranty

LED SYSTEM FOR RGBW

Proprietary LED system with color consistency <3 SDCM White LED available in 35K with 83+ CRI L80 >72,000 hours Red (335-805 mcd) Green (710-1400 mcd) Blue (140-355 mcd) 5 Year Warranty

MOUNTING

Housing suspended via 1/4" threaded rod or suspension cables (by others) Toolless installation with 3G's proprietary mounting system Internal, toolless joiner system (latch and hook) easily connects multiple sections together LED reflectors remain within each fixture section during installation with 3G's click and lock spring system Trim fixture designed for use in drywall, wood, and other architectural ceiling materials Trimless fixture designed for use in drywall, mud-in ceiling applications Flangeless fixture designed for use in wood ceilings Suitable for 4" TechZone and various grid ceiling applications (see mounting details) Fixture weight: +/- 3 lbs/ft

LISTING

ETL listed and tested to cUL standards. Suitable for dry and damp locations

WARRANTY

5 Year Warranty on LED and drivers

Manufacturer 1 Year Warranty for defects in material and workmanship under normal use Ambient temperature at fixture should not exceed 25°C

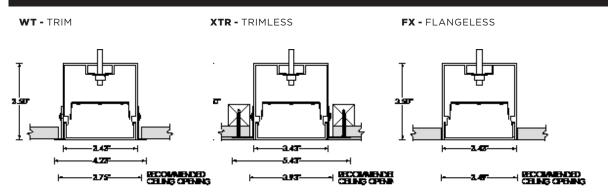


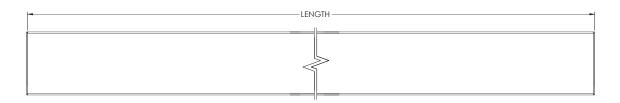
Dynamic Lighting Showcase	Catalog Number 3G-4RPE RGBW L1000 H90 UNV DMX WT FL S-2FT	^{Туре}
	Notes	



3.5" RECESSED LINEAR TUNABLE WHITE & RGBW

DRAWINGS AND DIMENSIONS





LENS OPTION

FL - FLUSH

DD1 - 1" DROP DE

DD2 - 2" DROP DASY - ASYMMETRIC





MOUNTING DETAILS HARD CEILING



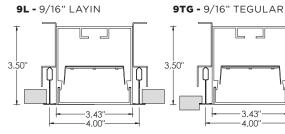


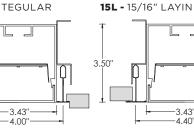
Project 21-12877-5 Date 7/26/2021 Dynamic Lighting Showcase	Catalog Number 3G-4RPE RGBW L1000 H90 UNV DMX WT FL S-2FT	Туре
Submitted By 16500, INC	Notes	

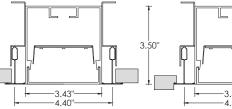


3.5" RECESSED LINEAR TUNABLE WHITE & RGBW

DRAWINGS AND DIMENSIONS GRID CEILING

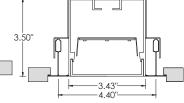






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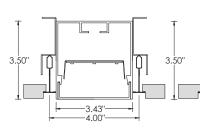
15TG - 15/16" TEGULAR

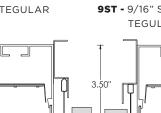
9TP - 9/16" TEGULAR

15TP - 15/16" TEGULAR

-3.43"-

4.40"



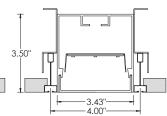


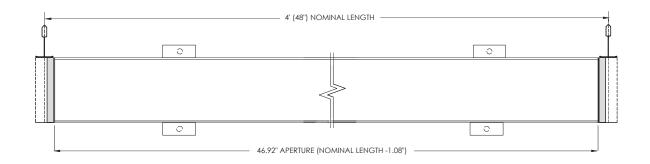


3 43

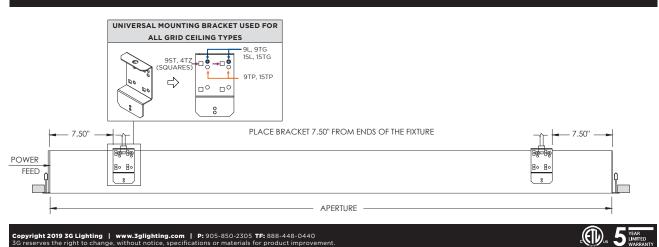
4.00"

4TZ - 4" TECH ZONE





MOUNTING DETAILS GRID CEILING



	Dynamic Lighting Showcase	Catalog Number 3G-4RPE RGBW L1000 H90 UNV DMX WT FL S-2FT	^{Туре}
-	Submitted By 16500, INC	Notes	

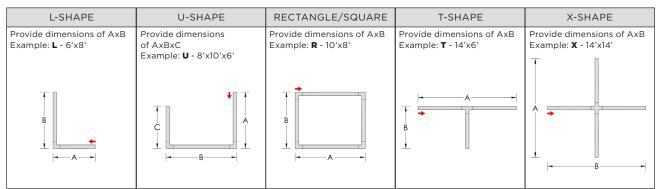


3.5" RECESSED LINEAR TUNABLE WHITE & RGBW

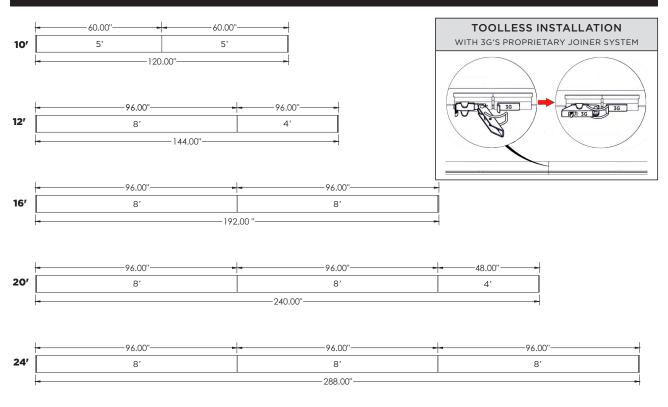
PATTERNS

Specify pattern shape and overall dimensions as shown below Patterns are connected with fully illuminated 12"x12" L, T, and X-shaped sections Please consult factory for custom patterns and shapes not shown below





TYPICAL SECTION MOUNTING (AVAILABLE IN 1' INCREMENTS AS STANDARD)



NOTE:

Run lengths and configurations not shown are available in 1' increments as standard. Please contact 3G for 1" increments

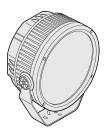


Catalog Number DDJ-241-CLN

Notes

DYNA DRUM HO COLOR





Spectrum

Dyna Drum HO Color is a high output, outdoor rated, quad color LED floodlight. It features an internal 100-277VAC power supply, onboard DMX+RDM driver, and each unit carries Acclaim's Aria wireless DMX technology inside. The quad color chip provides superior color mixing and saturation over single source LED fixtures. It comes with a narrow 10° beam standard, with optional quick-change spread lenses for wider applications. It is ideal for facade lighting applications and as an area floodlight.

SPECIFICATIONS

Colors	QW6: RGBW (W=6000K), QW4: RGBW (W=4000K), QS: RGBW (W=3000K)
Beam Angles	10° standard, 20°, 40°, 60°, 10° x 60° spread lens options
Photometrics	7660 lumens, 161,203 cd, see page 4 for details
Effective Projected Area	1.75 ft ²
Control	DMX+RDM, Manual color setting in menu, photocell included, Aria wireless direct connect
Max Fixtures in Series	32 via DMX, power local to each fixture
Power Consumption	250W
Operating Voltage	100-277VAC, 50/60 Hz
Lumen Maintenance	L70 @ 150,000 hours (25° C)
Mounting	Surface mount bracket included, optional tenon mount and pipe clamp available
Finish	Gray standard (RAL 7047), black, white, and custom colors optional
Material	Die cast aluminum, glass top lens, optional marine coating available
Ambient Operating Temperature	-40° F to 125° F (-40° C to 51° C)
IP Rating	IP66, wet location
IK Rating	IK07, protection against 2 joule impact
Fixture Connectors	Attached 5' (1.5m) IP66 hybrid cable, AC power +DMX/RDM
Warranty	5 Years, limited
Weight	36 lbs. (16.3 kg)
Dimensions	L: 14.8" x W: 15.4" x D: 8.2" (378mm x 393mm x 209mm)
Certifications	



Catalog Number DDJ-241-CLN

Notes

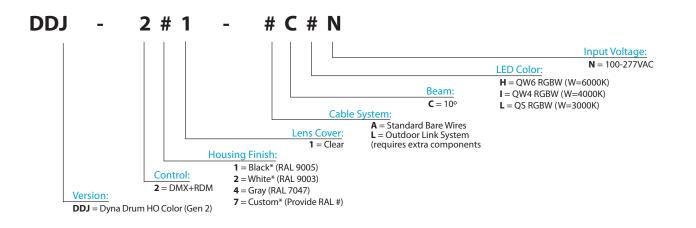
Type 9

DYNA DRUM HO COLOR

ACCLAIM

ORDER CODES

* indicates special order



RELATED COMPONENTS

Optional Beam Accessories



DDHSL20 20° Spread lens for Dyna Drum HO Color

DDHSL40 40° Spread lens for Dyna Drum HO Color

DDHSL60 60° Spread lens for Dyna Drum HO Color

DDHSL1060 10° x 60° Spread lens for Dyna Drum HO Color



DDH2FSG DDH2FSB DDH2FSW

Full snoot for Dyna Drum HO Color, Gray Full snoot for Dyna Drum HO Color, Black Full snoot for Dyna Drum HO Color, White

DDH2HSG DDH2HSB DDH2HSW

Half snoot for Dyna Drum HO Color, Gray Half snoot for Dyna Drum HO Color, Black Half snoot for Dyna Drum HO Color, White



Catalog Number DDJ-241-CLN

Notes

DYNA DRUM HO COLOR [™]

ACCLAIM LIGHTIN

RELATED COMPONENTS

Optional Mounting Accessories



TM2 Use with 2" pipe, schedule 40 tenon mount (2.51", 56mm inner dia.)

TM4

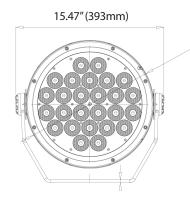
Use with 3.5" pipe, schedule 40 tenon mount (4.13", 105mm inner dia.)



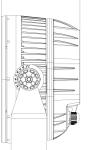
PC2 Use with 2" pipe, schedule 40 pipe clamp mounts 1 or 2 fixtures

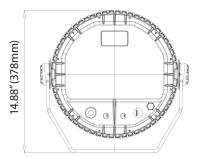
PC4 Use with 4" pipe, schedule 40 pipe clamp mounts 1 or 2 fixtures

DIMENSIONS











Catalog Number DDJ-241-CLN

Notes

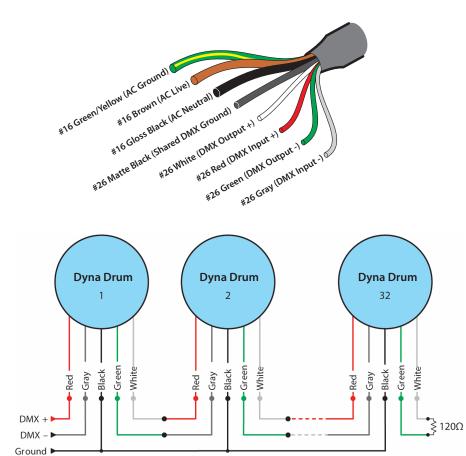
DYNA DRUM HO COLOR

ACCLAIM LIGHTING

Туре

9

WIRING



PHOTOMETRICS

Color Temp / Beam	Lumens	Center Candela	Efficacy (l/pw)	CRI (Ra)	CRI (r9)
QW RGBW, 10°	7660	161,203	31	-	-
QS RGBW, 10°	7405	152,578	30	-	-
					_



Catalog Number DSC 241 CLN

Notes

^{Type} 10

DYNA DRUM SO COLOR





Spectrum TECHNOLOGY

Dyna Drum SO Color is a high output, outdoor rated, quad-color LED floodlight. It features an internal 100-277VAC power supply, onboard DMX+RDM driver, and each unit carries Acclaim's Aria wireless DMX technology inside. It comes with a narrow 10° beam standard, with optional quick-change spread lenses for wider applications. It is ideal for facade lighting applications and as an area floodlight.

SPECIFICATIONS

Colors	QW6: RGBW (W=6000K), QW4 :RGBW (W=4000K), QS: RGBW (W=3000K)
Beam Angles	10° standard, 20°, 40°, 60°, 10° x 60° spread lens options
Photometrics	See page 4, up to 4124 lumens, 117,630 center candela
Effective Projected Area	1.16 ft ²
Control	DMX+RDM, manual color setting in menu, photocell included, Aria wireless direct connect
Max Fixtures in Series	32 via DMX, power local to each fixture
Power Consumption	150W maximum
Operating Voltage	100-277VAC, 50/60 Hz
Lumen Maintenance	L70 @ 150,000 hours (25° C)
Mounting	Surface mount bracket included, optional tenon mount and pipe clamp available
Finish	Gray standard (RAL 7047), black, white, and custom colors optional
Material	Die cast aluminum, glass top lens, optional marine coating available
Ambient Operating Temperature	-40° F to 125° F (-40° C to 51° C)
IP Rating	IP66, wet location
IK Rating	IK07, protection against 2 joule impact
Fixture Connectors	Attached 5' (1.5m) IP66 hybrid cable, AC power +DMX/RDM
Warranty	5 Years, limited
Weight	30.6 lbs. (13.8 kg)
Dimensions	L: 14.17" x W: 13.3" x D: 8.38" (360mm x 338mm x 213mm)
Certifications	Euminaire

VIBRATION



Catalog Number DSC 241 CLN

Notes

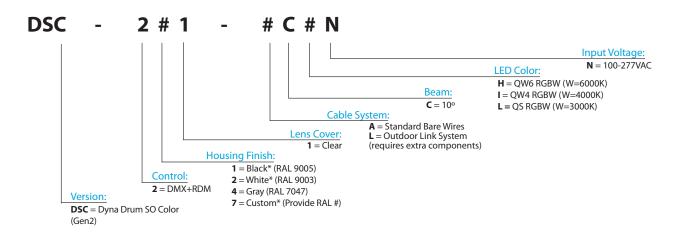
^{Type}

DYNA DRUM SO COLOR

ACCLAIM LIGHTING

ORDER CODES

* indicates special order



RELATED COMPONENTS

Optional Beam Accessories



DDSSL20 20° Spread lens for Dyna Drum SO

DDSSL40 40° Spread lens for Dyna Drum SO

DDSSL60 60° Spread lens for Dyna Drum SO

DDSSL1060 10° x 60° Spread lens for Dyna Drum SO



DDSOFSG DDSOFSB DDSOFSW

Full snoot for Dyna Drum SO, Gray Full snoot for Dyna Drum SO, Black Full snoot for Dyna Drum SO, White

DDSOHSG DDSOHSB DDSOHSW

Half snoot for Dyna Drum SO, Gray Half snoot for Dyna Drum SO, Black Half snoot for Dyna Drum SO, White



Catalog Number DSC 241 CLN

Notes

DYNA DRUM SO COLOR

ACCLAIM

RELATED COMPONENTS

Optional Mounting Accessories



TM2 Use with 2" pipe, schedule 40 tenon mount (2.51", 56mm inner dia.)

TM4

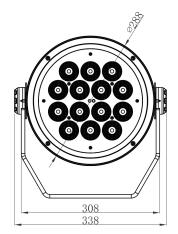
Use with 3.5" pipe, schedule 40 tenon mount (4.13", 105mm inner dia.)

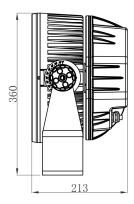


PC2 Use with 2" pipe, shchedule 40 pipe clamp mounts 1 or 2 fixtures

PC4 Use with 4" pipe, shchedule 40 pipe clamp mounts 1 or 2 fixtures

DIMENSIONS







Catalog Number DSC 241 CLN

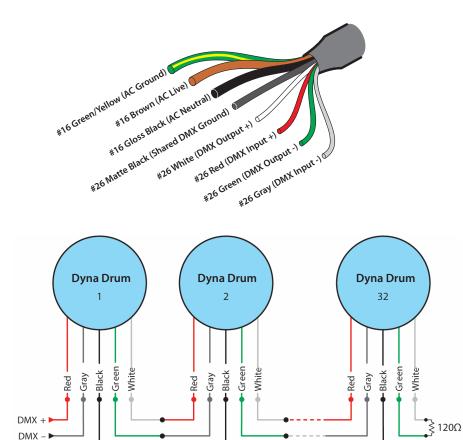
Notes



DYNA DRUM SO COLOR

ACCLAIM LIGHTING

WIRING



PHOTOMETRICS

Color Temp / Beam	Lumens	Center Candela	Efficacy (l/pw)	CRI White LED	TM30 White LED
QW6 RGBW, 10°	4,124	117,630	28	81.1	80.9
QW4 RGBW, 10°	3,764	106,773	26	Testing	Testing
QS RGBW, 10°	3,454	97,926	24	80.5	80.2

Ground **•**



Notes

DYNA ACCENT[™]







The Dyna Accent is a high output, outdoor rated, LED flood fixture. It features internal DMX & RDM drivers, Aria wireless built directly into the unit, a 100-277VAC auto switching power supply, and a swappable spread lens system. Available in multiple color temperatures of white and color changing version, it is ideal for outdoor facade wash and landscape work.

SPECIFICATIONS

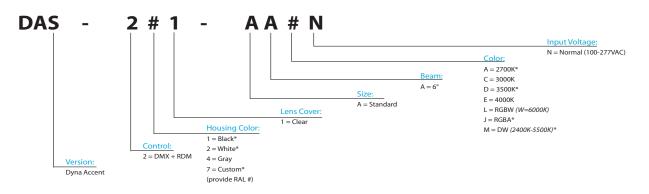
Color Temperature	2700K, 3000K, 3500K, 4000K, DW (2400K-5500K), RGBW, RGBA
Beam Angle	6º (standard), 20º, 40º, 60º, 10º x 60º spread lens options
Total Lumens	1423 at 4000K, 6°
Center Beam Candela	54,665 at 4000K, 6°
Control	DMX / RDM, 0-10V via external UDM, RDM Addressing via XMT-350, Wireless via Aria system
Max Fixtures in Series	32, via DMX-512
Mounting	Base mounts to standard 4" round electrical box (by others)
Power Consumption	35W at steady state
Operating Voltage	100-277VAC, 50/60Hz
Lumen Maintenance	L70 @ 150,000 Hours (25° C)
Finish	Gray (Standard), White, Black or Custom (Optional)
Housing Material	Die Cast Aluminum, Optional Marine Environment Coating Available
Operating Temperature	-40° F to 122° F (-40° C to 50° C)
IP Rating	IP66, Wet Location
Fixture Connectors	Attached 5' (1.5m) IP 66 AC Power + Signal Cable
Warranty	5 Year Limited Warranty
Weight	9.2 lbs (4.17 kg)
Dimensions	ø 6.3" x H 10.6" (ø 160 x 268mm)
Certifications	



DYNA ACCENT[™]



* Indicates Special Order



RELATED COMPONENTS



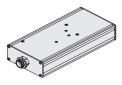
Spread Lenses

20° Beam: DASSL20 40° Beam: DASSL40 60° Beam: DASSL60 10° x 60° Beam: DASSL1060



Full Snoot

Gray: DAFSG Black: DAFSB White: DAFSW Custom: DAFSC (provide RAL #)



UDM Converts 0-10V (sink or source)to DMX 100-277VAC Input

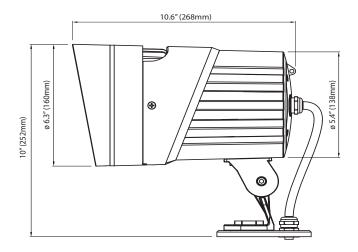


XMT350 DMX+RDM Addressing and Testing Tool 9V Battery Included

DYNA ACCENT[™]

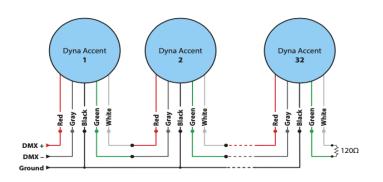
ACCLAIM

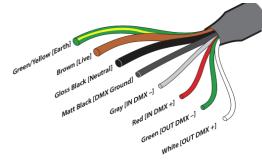
DIMENSIONS



WIRING

For details on using the Aria Wireless DMX System, please consult the user guides





PHOTOMETRICS

For IES & Revit files, please visit acclaimlighting.com

Color Temp	Lumens	Center Candela	Efficacy (l/pw)	CRI (Ra)	CRI (r9)
4000K	1423	54,665	40.87	81.3	11.6

Notes



LINEAR ONE DMX





ACCLAIMMODULAR

With **Linear One,** we set out to produce a series that works with your vision instead of crowding it. Acclaim Lighting continually strives for simple goals during the design process: be useful, stay out of the way, and function wonderfully. Creativity begins with great design and Linear One is streamlined to work for you. We meticulously craft linear lights that install with no visible cables and create the clutter-free space your work deserves. This means that subtlety enhances your aesthetic as Linear One remains hidden while serving as the powerhouse behind your visual creation. Refined to work with your creativity, Linear One provides end-to-end modular functionality that adapts to your needs and never works against them. Acclaim Lighting is motivated by the passion of its users and strives to produce the very best solutions in architectural lighting. We create beautiful products that work for creativity.

SPECIFICATIONS

Colors	RGBW (W=3000K), RGBW (W=4000K), RGBW (W=6000K), RGBA, DW (2200K - 5000K)
Beam Angles	10° x 10°, 30° x 30°, 60° x 60°, 100° x 100°, 10° x 25°, 10° x 40°, 10° x 60°, 30° x 60°, 40° x 70°
	Asymmetric (60° x 60° + 20° tilt)
Housing Lengths	1' (305 mm), 4' (1219 mm)
Control	0-100% dimming via internal DMX+RDM driver, wireless via optional Aria Wireless System
Max Fixtures in Series	50' (15.24M) at 120VAC, 100' (30.48M) at 230V+
Power Consumption	1': 20W, 4': 80W
Operating Voltage	100-277VAC, 50/60 Hz
Lumen Maintenance	L70 @ 150,000 hours (25° C)
Mounting	90° low profile mounting bracket included
Finish	Silver / finished aluminum
Material	Aluminum body, polycarbonate lens
Ambient Operating Temperature	-4° F to 113° F (-20° C to 45° C)
IP Rating	IP40, dry location
IK Rating	IK10, protection against 5 joule impact (40cm distance)
Fixture Connectors	End to end multi-pin connection cables included
Warranty	5 Years, limited
Weight	1': 1.6 lbs, 4': 5.4 lbs
Dimensions	L: 12" / 48" W: 2.04" H: 2.28" (L: 305 / 1220 W: 52 H: 58mm)
Certifications	Senter C €

Catalog Number LXEIA LXCU OPXL

Notes

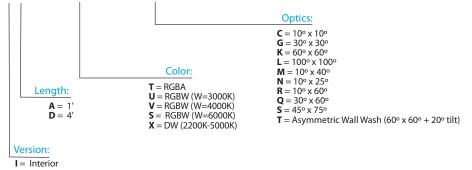




ORDER CODES

* indicates special order with increased lead times possible

LXI# - LXC# - OPX#



RELATED COMPONENTS

Feed Cables & End Cap (required)



LNFC10 *10' Feed Cable for Linear One DMX Interior* Multi-pin connector to bare wire AC + DMX

LNFC50 50' Feed Cable for Linear One DMX Interior Multi-pin connector to bare wire AC + DMX

LXTEC *DMX Terminator End Cap for Linear One DMX Interior* Multi-pin end cap with 120 Ohm resistor

Junction Box (optional)



AJBOX1 *IP66 NEC compliant high+low voltage junction box* 1/2" conduit inputs for AC + DMX, 3/4" conduit for LNFC## Built in AC surge protection up to 10kV & 10kA Link Cables (optional)



6" Link Cable for Linear One DMX Interior Multi-pin connector to multi-pin connector, use for curved runs

LNLC1 1'Link Cable for Linear One DMX Interior Multi-pin connector to multi-pin connector

LNLC5

5' Link Cable for Linear One DMX Interior Multi-pin connector to multi-pin connector

LNLC10 10' Link Cable for Linear One DMX Interior Multi-pin connector to multi-pin connector

2 acclaimlighting.com

SPECIFICATION SHEET 2.0.2 Specifications subject to change without notice

^{туре} 12

LINEAR ONE® DMX



RELATED COMPONENTS

Optional Mounting Accessories



LNEB1 1' extender bar for Linear One Aluminum body, mounting screws included

LNEB2 2' extender bar for Linear One Aluminum body, mounting screws included

LNEB3

3' extender bar for Linear One Aluminum body, mounting screws included

Optional Beam Accessories

LXIGS1 1' single sided glare shield for Linear One DMX Interior

LXIGS4 4' single sided glare shield for Linear One DMX Interior



LXILV1 1' full louver for Linear One DMX Interior

LXILV4 4' full louver for Linear One DMX Interior

Control Accessories

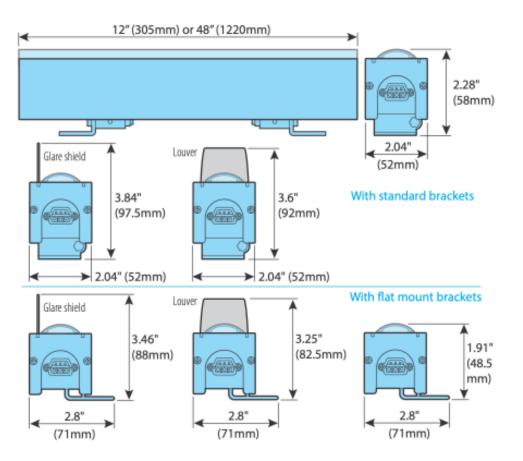


XMT350 DMX + RDM Addressing and Testing Tool

sixteen <mark>5</mark> hundred	Project 21-12877-5 Date 7/26/2021 Dynamic Lighting Showcase Submitted By 16500, INC	Catalog Number LXEIA LXCU OPXL Notes	^{туре} 12



DIMENSIONS



PHOTOMETRICS

Color	Lumens(per foot)	Max Candela	Efficacy (l/pw)	CRI (white)	ТМ30
RGBA	Photometric testi	ng in progress			
RGBW 3000K	Photometric testi	ng in progress			
RGBW 4000K	650	1,973	36	81.5	83.1
RGBW 6000K	Photometric testi	ng in progress			
Dynamic White	Photometric testi	ng in progress			

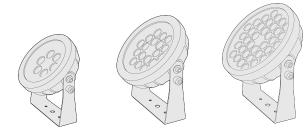


Catalog Number AQP 261 AKLN

Notes

AQUA DRUM





Aqua Drum is a series of high output, submersible, LED flood fixtures. It features an all stainless steel construction, included in-grade housing mounting option, and is submersible up to 20' (6M). Available in multiple color temperatures of white and color changing versions, it is ideal for outdoor facade wash, fountains, ponds, and landscape applications.

SPECIFICATIONS

Colors	2700K, 3000K, 3500K, 4000K, RGBW (W=3000K), RGBW (W=4000K), RGBA
Beam Angles	10° x 10°, 25° x 25°, 40° x 40°, 60° x 60°, 90° x 90°, 10° x 60°, 10° x 35°
Photometrics	4000K 10° - EO: 700 lm / SO: 1600 lm / HO: 3259 lm
Fixture Sizes	EO (8 LED), SO (18 LED), HO (36 LED)
Control	DMX via Aqua Driver 150, 0-10V via external UDM
Max Fixtures per Aqua Driver 150	EO & SO: 4 fixtures at 350mA / HO: 4 fixtures at 700mA
Power Consumption	EO: 8W / SO: 18W / HO: 36W
Operating Voltage	24VDC, constant current
Lumen Maintenance	L70 @ 150,000 hours (25° C)
Mounting	0.47" (11mm) mounting holes on mounting bracket
Finish	Silver / stainless steel, marine environment ready
Material	316 marine grade stainless steel housing, sealed glass top
Ambient Operating Temperature	-40° F to 122° F (-40° C to 50° C)
IP Rating	IP68, Wet or Dry location, submersible up to 20' (6M)
IK Rating	IK08, protection against 5 joule impact, walk over rated
Fixture Connectors	98.4' (30m) cable included, attached 8 pin terminal blocks
Warranty	5 Years, limited
Weight	EO: 4 lbs (1.8kg) / SO: 6.6 lbs (3kg) / HO: 8 lbs (3.6kg)
Dimensions	See page 4
Certifications	$\bigoplus_{\text{Intertek}} \mathcal{K} \in \mathcal{E} \xrightarrow[V \in \mathcal{F}_{0}]{}_{\text{Point S par}}$

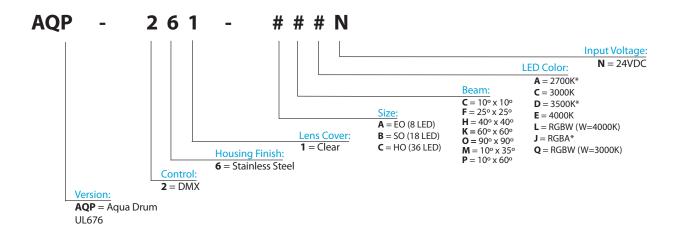
AQUA DRUM



^{Type}

ORDER CODES

* indicates special order



RELATED COMPONENTS

Mounting Accessories



AQD-IGH-EO In-grade housing for Aqua Drum EO Includes sleeve, trim ring, and screws

AQD-IGH-SO

In-grade housing for Aqua Drum SO Includes sleeve, trim ring, and screws

AQD-IGH-HO In-grade housing for Aqua Drum HO

Includes sleeve, trim ring, and screws

Notes

AQUA DRUM

ACCLAIM LIGHT

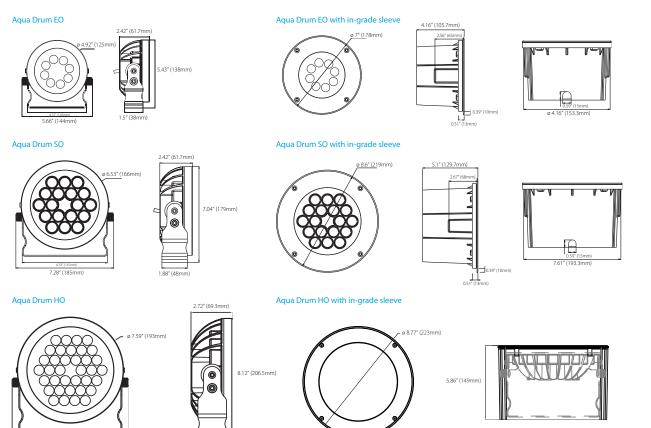
RELATED COMPONENTS

Remote Driver / Power Supply



ADR157 Aqua Driver 150 100-277V Input, 24VDC + PWM Output Powers up to 4 Aqua Drum EO, SO orHO units

DIMENSIONS





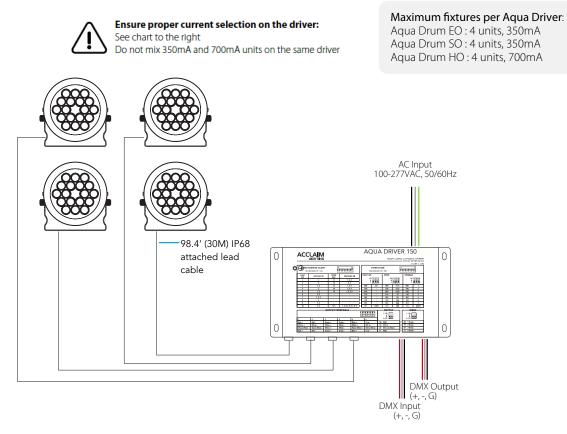
Project 21-12877-5 Date 7/26/2021 Dynamic Lighting Showcase Submitted By 16500, INC Catalog Number AQP 261 AKLN

Notes

AQUA DRUM

ACCLAIM

WIRING



PHOTOMETRICS

Size / Color Temp	Lumens	Center Candela	Efficacy (l/pw)	CRI (Ra)	CRI (r9)
EO, 2700K	668	8006	41	81.5	-
SO, 3500K	1568	20055	64	82.7	-
HO, 4000K	3259	41849	73	80.8	-
EO, RGBW	424	6502	27	-	-

Dynamic Lighting Showcase	Catalog Number EVO ARTC RGBW/12 4AR MWD LSS 120 DMX TRW	^{Type} 20
Submitted By 16500, INC	Notes	



Gotham Architectural Downlighting LED Downlights

4" Evo® Architainment Color Downlight



Solid-State Dynamic Lighting

Handle Four Handles: Red, Green, Blue, White

ARCHITAINMENT COLOR GPHD

Gamut Triangular

Path Full RGB gamut

Data DMX512/RDM

OPTICAL SYSTEM

FEATURES

- Self-flanged semi-specular, matte-diffuse or specular finishing trim
- Patented Bounding Ray™ optical design (U.S. Patent No. 5,800,050)
- 45° cutoff to source and source image
- Top-down flash characteristic
- Polycarbonate lens integral to light engine
- MECHANICAL SYSTEM
- 16-gauge galvanized steel construction; maximum 1-1/2" ceiling thickness
- Telescopic mounting bars maximum of 32" and minimum of 15", preinstalled, 4" vertical adjustment
- Toolless adjustments post installation
- Junction box capacity: 8 (4 in, 4 out) 12AWG rated for 90°C
- Light engine and driver accessible through aperture

ELECTRICAL SYSTEM

- Fully serviceable and upgradeable lensed LED light engine
- 70% lumen maintenance at 36,000 hours
- Tested according to LM-79 and LM-80 standards
- Overload and short circuit protected
- 2.5 SDCM; Typical CRI of 90 at 3000K

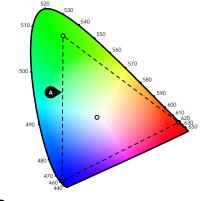
LISTINGS

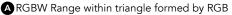
- Fixtures are CSA certified to meet US and Canadian standards; wet location, covered ceiling
- **BUY AMERICAN**
- This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY

- 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx
- Note: Actual performance may differ as a result of end user environment and application. All values are design or typical values, measured under laboratory conditions at 25° C.

EXAMPLE: EVO ARTC RGBW/12 4AR MD LSS 120 DMX





Buv American

Serie	S	Sub Ser	ries	Dynar	nic Feature	Dynar	nic Range	Lum	iens ¹	Aperti	ure/Trim	Color		Apert	ure Type
EVO	Dynamic downlight	(blank)	Open downlight	ARTC	Architain- ment Color	RGBW	Red, green, blue, white	/12	1250 Lumens	4AR 4PR 4WTR 4GR	Clear Pewter Wheat Gold	4WR ² 4BR ² 4WRAMF ²	White painte Black painte White painte antimicrobia finish	d FL) Self- flanged Flangeless
Distr	ibution		Apert	ure Finis	sh	Voltag	ge		Control	Interfac	е Туре		Option	ıs	
MD MWD WD	Medium (0.8 Medium wid Wide (1.2 s/	e (1.0 s/mh) LSS) LD LS	Semi-sp Matte-di Specular	ffuse		77 277V TI		S SF TRW³ TRBL⁴	Single fuse White pain Black pain	ed flange				

ORDERING INFORMATION

ACCESSORIES orde	er as separate catalog numbers (shipped separately)						
SCA4	Sloped ceiling adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA4 10D. Refer to TECH-190.						
CTA4-8 YK Ceiling thickness adapter (extends mounting frame to accommodate ceiling thickness up to 5"). Adds 1" to fixture height.							
FCS 7TSN XE DBL	Fresco Lighting Control with DMX and ethernet. Refer to <u>FRESCO</u> spec sheet for additional options.						
DXT 1M09 2M12 NE1L	DMX512 RDM configuration gateway. Refer to <u>DXT</u> spec sheet for additional options.						

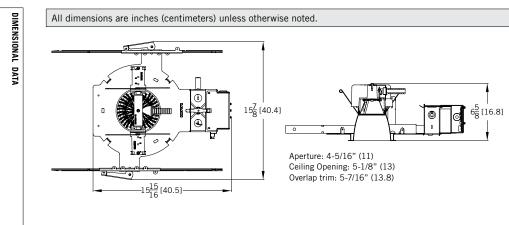
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	Dynamic Lighting Showcase	Catalog Number EVO ARTC RGBW/12 4AR MWD LSS 120 DMX TRW	^{Туре} 20
—	Submitted By 16500, INC	Notes	

4" EVO ARCHITAINMENT COLOR

Downlight Solid-State Dynamic Lighting



	Architainment Spacing Requirements
	1250 Lumen
Center to Center Spacing	36"
Above Spacing	12"
Center to Wall Spacing	18"

			INDIVIDUAL CO	ILOR CHANNEL PI	ERFORMANCE*						
		All on									
	Delivered Lumens	1275	226	401	96	656					
/12	Watts	31	9	11	10	12					
	LPW	41	25	37	9	57					

*Values shown for EVO ARTC RGBW/12 4AR MWD LSS 120 DMX

ORDERING NOTES

Not available with finishes.

Nominal lumen values when tested at all channels full-on, RGBW. 3.

- 4.
- Not available with white reflector. Not available with black reflector.

PAGE 2 OF 4

EVO-4-OPEN-ARTC

1.

2.

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_	Dynamic Lighting Showcase	Catalog Number EVO ARTC RGBW/12 4AR MWD LSS 120 DMX TRW	Турч
sixteen5hundred	Submitted By 16500, INC	Notes	



PHOTOMETRY

4" EVO ARCHITAINMENT COLOR

Downlight Solid-State Dynamic Lighting

CONSULT GOTHAMLIGHTING.COM FOR PHOTOMETRY

	LUMEN OUTPUT MULTIPLIER - TRIM FINISH											
FINISH	CLEAR (AR)	PEWTER (PR)	WHEAT (WTR)	GOLD (GR)	WHITE (WR/WRAMF)	BLACK (BR)						
Specular (LS)	1.00	0.88	0.83	0.95	N/A	N/A						
Semi-specular (LSS)	0.95	0.84	0.79	0.90	N/A	N/A						
Matte-diffuse (LD)	0.85	0.73	0.69	0.80	N/A	N/A						
Paint	N/A	N/A	N/A	N/A	0.87	0.73						

PHOTOMETRY NOTES

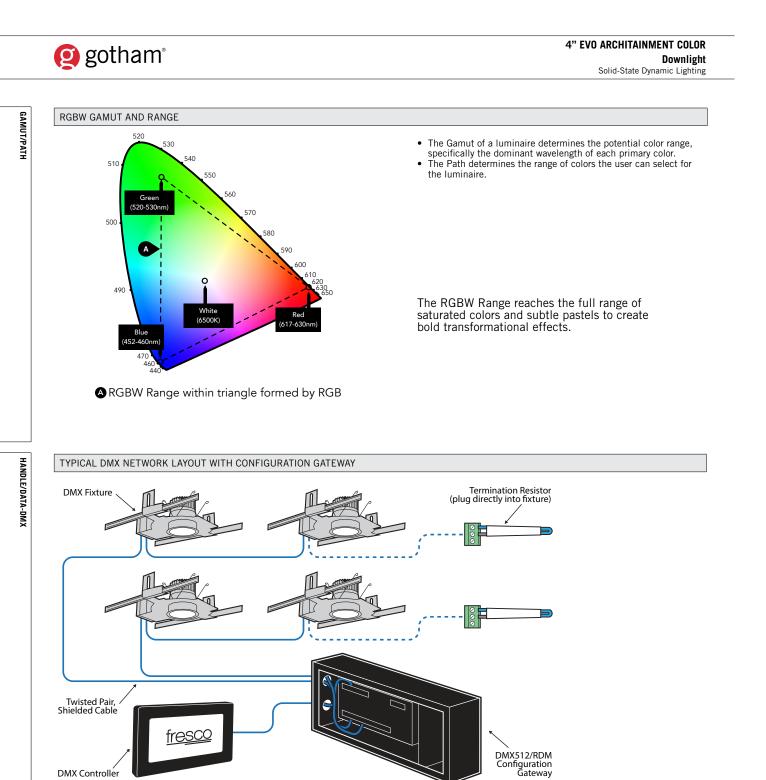
Tested in accordance with IESNA LM-79-08. •

Tested to current IES and NEMA standards under stabilized laboratory conditions. •

EVO-4-OPEN-ARTC PAGE 3 OF 4



Dynamic Lighting Showcase	Catalog Number EVO ARTC RGBW/12 4AR MWD LSS 120 DMX TRW	^{Туре}
	Notes	

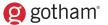


For additional information refer to Gotham DMX512 / RDM Field Installation Manual.

DMX Controller



Project 21-12877-5 Date 7/26/2021 Dynamic Lighting Showcase		^{Туре} 21
Submitted By 16500, INC	Notes	





Gotham Architectural Downlighting LED Downlights

4" Evo® Tunable White Downlight



Solid-State Dynamic Lighting

Gamut Triangular: to achieve efficiency and CRI

Handle Two Natural Language Handles: Intensity and CCT

TUNABLE WHITE GPHD

Data DMX512/RDM

OPTICAL SYSTEM

FEATURES

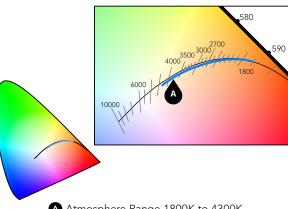
- Self-flanged semi-specular, matte-diffuse or specular finishing trim
- Patented Bounding Ray™ optical design (U.S. Patent No. 5,800,050)
- 45° cutoff to source and source image
- Top-down flash characteristic
- Polycarbonate lens integral to light engine
- MECHANICAL SYSTEM
- 16-gauge galvanized steel construction; maximum 1-1/2" ceiling thickness
- Telescopic mounting bars maximum of 32" and minimum of 15", preinstalled, 4" vertical adjustment
- Toolless adjustments post installation
- Junction box capacity: 8 (4 in, 4 out) 12AWG rated for 90°C
- Light engine and driver accessible through aperture

ELECTRICAL SYSTEM

- Fully serviceable lensed LED light engine
- 70% lumen maintenance at 36,000 hours
- Tested according to LM-79 and LM-80 standards
- Overload and short circuit protected 2.5 SDCM; Typical CRI of 90 at 3000K

LISTINGS

- Fixtures are CSA certified to meet US and Canadian standards; wet location,
- covered ceiling
- WARRANTY
- 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms and conditions.aspx
- Note: Actual performance may differ as a result of end user environment and application. All values are design or typical values, measured under laboratory conditions at 25° C.



Path Curved tracking Black Body Curve: 1800K-4300K (Atmosphere Range)

A Atmosphere Range 1800K to 4300K

EXAMPLE: EVO TUWH ATMR/10 4AR MD LSS 120 DMX

Serie	5	Sub Ser	ries		Dynan	nic Feature	Dyna	mic Range	Lum	iens ¹	Aperti	ure/Trim (Color			Aperture Type		
EVO	Dynamic downlight	(blank)	Oper dowr	n nlight	TUWH	Tunable White	ATMR	1800K- 4300K 'At- mosphere Range'	/10 /18	1000 Lumens 1800 Lumens	4AR 4PR 4WTR 4GR	Clear Pewter Wheat Gold	4WR ² 4BR ² 4WRAMF ²	Black painted		(blank) FL	Self- flanged Flangeless	
Distri	bution			Apertu	ire Finis	h	Voltag	ge		Control	Interfac	се Туре		Optio	ns			
MDMedium (0.8 s/mh)LSSSemi-speMWDMedium wide (1.0 s/mh)LDMatte-diiWDWide (1.2 s/mh)LSSpecular		fuse	120 277	120V 277V		DMX DN	/IX contro	l with Phoer	nix connectors	SF TRW ³ TRBL ⁴	W	ngle fuse hite painted ack painted	0					

ORDERING INFORMATION

ACCESSORIES order as separate catalog numbers (shipped separately) SCA4 Sloped ceiling adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA4 10D. Refer to TECH-190. CTA4-8 YK Ceiling thickness adapter (extends mounting frame to accommodate ceiling thickness up to 5"). Adds 1" to fixture height. FCS 7TSN XE DBL Fresco Lighting Control with DMX and ethernet. Refer to FRESCO spec sheet for additional options. DXT 1M09 2M12 NE1L DMX512 RDM configuration gateway. Refer to DXT spec sheet for additional options.

EVO-4-OPEN-TUWH PAGE 1 OF 4

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	Dynamic Lighting Showcase	Catalog Number EVO TUWH ATMR/18 4AR MD LSS 120 DMX TRW	^{Туре} 21
<u> </u>	Submitted By 16500, INC	Notes	

4" EVO TUNABLE WHITE

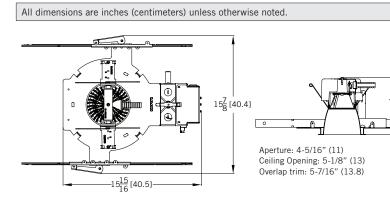
Downlight Solid-State Dynamic Lighting

 $6\frac{5}{8}$ [16.8]

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DYNAMIC SPECIFICATIONS

NOTES



	Tunable White Spa	cing Requirements
	1000 Lumen	1800 Lumen
Center to Center Spacing	24"	36"
Above Spacing	6"	12"
Center to Wall Spacing	12"	18"

				PERFORMANCE	ACROSS COLOR 1	TEMPERATURE*		
		1800K	2200K	2700K	3000K	3500K	4000K	4300K
	Delivered Lumens	678	856	956	954	928	924	886
	Watts	18	20	19	19	20	21	22
/10	LPW	39	43	50	50	47	43	41
	CRI	86	91	94	93	92	89	88
	R9	57	73	73	71	67	62	58
	Delivered Lumens	1316	1661	1857	1853	1802	1794	1720
	Watts	34	39	39	35	32	34	33
/18	LPW	39	43	48	54	56	54	52
	CRI	84	90	93	90	95	92	89
	R9	91	84	94	84	92	75	62

*Values shown for EVO TUWH ATMR/## 4AR MWD LSS 120 DMX

ORDERING NOTES

- Not available with white reflector.
- 2. Not available with finishes.
- Not available with black reflector.

EVO-4-OPEN-TUWH PAGE 2 OF 4

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3.

4.



sixteen5hundred	Dynamic Lighting Showcase	Catalog Number EVO TUWH ATMR/18 4AR MD LSS 120 DMX TRW	^{туре}
	Submitted By 16500, INC	Notes	

PHOTOMETRY

4" EVO TUNABLE WHITE

Downlight Solid-State Dynamic Lighting

CONSULT GOTHAMLIGHTING.COM FOR PHOTOMETRY

	LUMEN OUTPUT MULTIPLIER - TRIM FINISH								
FINISH CLEAR PEWTER WHEAT GOLD WHITE B (AR) (PR) (WTR) (GR) (WR/WRAMF)									
Specular (LS)	1.00	0.88	0.83	0.95	N/A	N/A			
Semi-specular (LSS)	0.95	0.84	0.79	0.90	N/A	N/A			
Matte-diffuse (LD)	0.85	0.73	0.69	0.80	N/A	N/A			
Paint	N/A	N/A	N/A	N/A	0.87	0.73			

PHOTOMETRY NOTES

•

- Typical CRI of 90 at 3000K.
- EVO-4-OPEN-TUWH PAGE 3 OF 4

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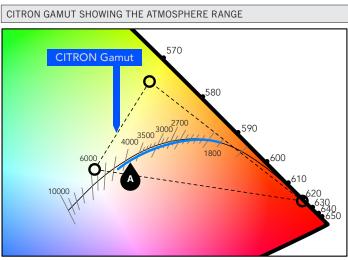
Tested in accordance with IESNA LM-79-08. Tested to current IES and NEMA standards under stabilized laboratory conditions. . •

sixteen <mark>5</mark> hundred	Dynamic Lighting Showcase	Catalog Number EVO TUWH ATMR/18 4AR MD LSS 120 DMX TRW	^{туре} 21
		Notes	

4" EVO TUNABLE WHITE Downlight

Solid-State Dynamic Lighting

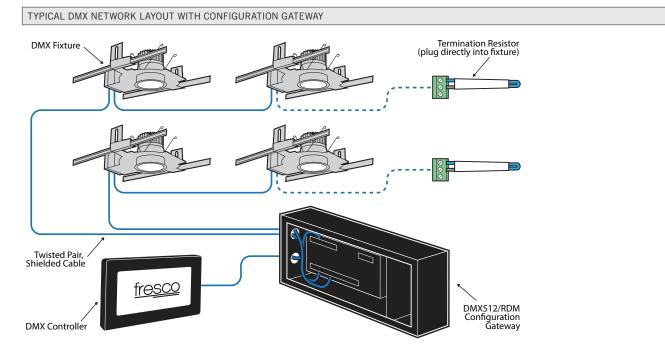
HANDLE/DATA-DMX



Atmosphere Range 1800K to 4300K CITRON Gamut allows curved Path within dashed lines

- The Gamut of a luminaire determines the potential color range as well as light quality through measurements such as CRI and R9. The Path determines the range of color temperatures for the
- luminaire and how it tracks the Black Body Curve.

The Atmosphere Range reaches the rich familiar warm color of 1800K and can seamlessly shift to $4300\mathrm{K}$ along the black body curve.



For additional information refer to Gotham DMX512 / RDM Field Installation Manual.



Bynamic Eignnig Onowcase	Catalog Number 4750L QS 4FT 1000LMF RGBW MVOLT MFL KM CSL25 DMX BZ	^{Туре}
	Notes	





4750L RGBW

Linear RGBW

HIGHLIGHTS

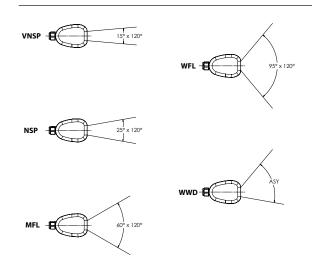
- The 4750L delivers industry leading durability, performance and lumen output
- Superior water resistance IP67 with Hydrel "Flow-Thru" ٠ technology, water flows around the independently sealed integral driver module and sealed LED module
- ٠ Aiming integrity with a fully adjustable and rugged knuckle design using Taper-Lock technology
- Long life in the most demanding environments with low copper content housing materials, stainless steel fasteners, and durable powder coat finish options for Coastal Regions and Natatoriums
- 3G vibration rated per ANSI C136.31

LUMEN PACKAGES

	VNSP	NSP	MFL	WFL	WWD
Delivered Lumens	3577	3592	4170	4230	3922
Watts	56	56	56	56	56
LPW	63	64	74	75	72
Peak Candela	7733	5239	2361	1781	2942

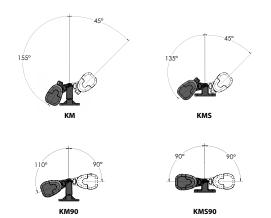
Note: Information based on 100% output on 4FT fixture

STANDARD DISTRIBUTION



AIMING DETAILS

DIMENSIONS



LE 33.5-36.5 (851-927)

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Project 21-12877-5 Date 7/26/2021 Dynamic Lighting Showcase	Catalog Number 4750L QS 4FT 1000LMF RGBW MVOLT MFL KM CSL25 DMX BZ	^{Type}
Submitted By 16500, INC	Notes	

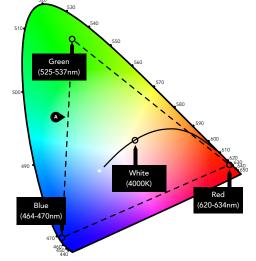


ORDERING INFORMATION

EXAMPLE: 4750L 4FT 1000LMF RGBW MVOLT VNSP KM EA6 CSL10 DMX BL

Model*		Max Fi	ixture	Length*	LED O	utput*		LED Dyn	amic Range*	Volta	ge*	Distri	bution*		Mountin	g*
4750L	LED Linear Flood	4FT	4' (nor length	minal	1000I Note:	LMF 100 lun	00 nominal nens per foot n distribution.	RGBW	Red, Green, Blue, White (40K white 80CRI)	-	LT 120-277 volt	VNSI NSP MFL WFL WWI	degr 25 x degr 60 x degr 95 x degr 0 Wall	ees 120 ees 120 ees 120 ees	KM KMS KM90 KMS90 Note: KMS and	Knuckle Mount 45° Knuckle Mount Short 45° Knuckle Mount 90° Knuckle Mount short 90°
Mounting	g Accessories	A	ccesso	ories	ļ	Cord Len	gth*	Contro	l Input*	Enviro	nmental Options	F	inish*			
JB4750L	/		A6	extended		CSL	10'-50' of cable	DMX	DMX DARK	MRE	Marine Environmen	: I	3L	Black Te	xtured	
MS12	junction box 12″ Steel		A12	arm 6" extended			available in 5' increments			NT	Natatorium	1	3Z	Bronze	Textured	
11312	mounting	-	AIZ	arm 12"						CR	Construction Corrision Resistant	1	OBLB	Designe	er Black Tex	tured
	spike	E	A18	extended						СК	Corrision Resistant	1	ODBT	Designe	er Bronze Te	xtured
MS18	18" Steel mounting	_		arm 18"								1	DNAT	Designe	r Natural A	luminum Texture
	spike		VSR	Full Visor								(GN	Green T	extured	
PSSA	Pedestial		IVSR	Half Visor								(GR	Grey Te	xtured	
	Stanchion Splice		Vote: Sull visor	r includes top								1	SND	Sand Te	xtured	
	Access			tom shield.								1	STG	Steel Gr	ay Textured	1
SMSA	Stanchion mount splice		1-161/:	or is top only	£								ſVG	Terra Ve	rde Green	Textured
	access.	а	ll destri	butions exce								١	ΝН	White T	extured	
	Available 12"-48" in 6'		vall wasi oottom o	h which is								1	OBL	Designe	r Black Smo	ooth
	increments	D		onny.								1	DDB	Designe	r Bronze Sr	nooth
Note:												1	ONA	Natural	Aluminum S	Smooth
	Spike (MS) is xture mounting											1	DWH	Designe	r White Sm	ooth
only. Sepe	erate junction											(CF	Custon	Finish	
	uired for power. ers JBA/JBB											1	RALTBD	Ral Pain	t Finishes	
junction b												i i	call out w or availat	hen ready t ble options.	o order. See	vith applicable RAL the <u>RALBROCHUR</u> ended only use

Note: * is a required field

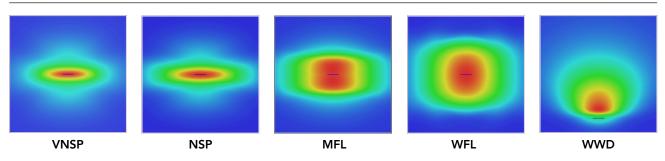


A RGBW Range within triangle formed by RGB

	Dynamic Lighting Showcase		^{Туре} 22
-	Submitted By 16500, INC	Notes	



PERFORMANCE DATA



LUMEN OUTPUT 4' FIXTURE

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Contact factory for performance data on any configurations not shown here.

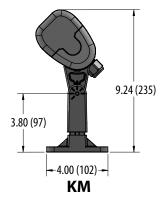
LED Output	Nominal System Watts	Distribution	Field	Angle	Beam Angle		RGBW			
		Туре	°н	°۷	٩	°۷	Max Cd	Lumens	LPW	
		VNSP	109.6	39.2	63.2	12.1	7733	3576.9	63.47	
	56		NSP	144.0	39.8	98.4	15.7	5239	3591.8	64.01
1000LMF		MFL	148.4	84.5	106.7	61.3	2361	4170	73.68	
		WFL	149.6	109.2	106.8	94.9	1781	4229.7	74.72	
		WWD	146.9	78.6	100.7	46.3	2942	3922	72.14	

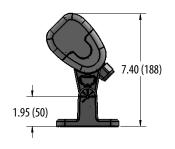
sixteen5hundred	Dynamic Lighting Showcase		^{туре}
	Submitted By 16500, INC	Notes	

HYDREL

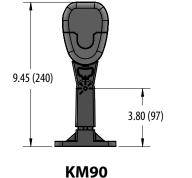
MOUNTING OPTIONS

KNUCKLE MOUNTING











Dynamic Lighting Showcase		^{туре}
Submitted By 16500, INC	Notes	

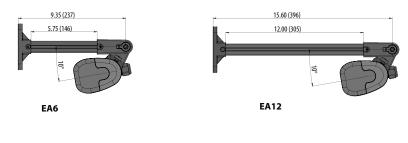


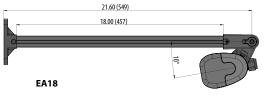
MOUNTING ACCESSORIES

MOUNTING ACCESSORIES - is supplied with 1/2" NPS adaptor. Suitable for ground mounting.



EXTENDED ARM Suitable for wall or surface mount



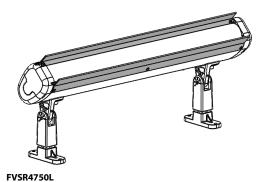


	Dynamic Lighting Showcase		^{Туре} 22
Ŭ	Submitted By 16500, INC	Notes	

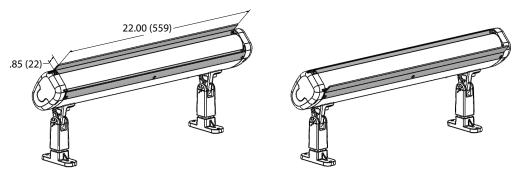


EXTERNAL ACCESSORIES

VISORS



FULL VISOR is supplied with top and bottom visor.





HALF VISOR are factory installed on top side except for wall wash distribution which is installed on the bottom. Visors: Can be field installed and moved from top to bottom if desired.

Dynamic Lighting Showcase	Catalog Number 4750L QS 4FT 1000LMF RGBW MVOLT MFL KM CSL25 DMX BZ	
Submitted By 16500, INC	Notes	

4750L LINEAR RGBW | 7

ACCESSORY OPTIONS

FRESCO CONTROL SYSTEM

Series		Model		Optio	ons	Finish	
FCS	Fresco Control System	7TSN	7" touchscreen	х	DMX/RMD control	DBL	Black
			with nLight port			DWH	White
						DNA	Natural Aluminum

Refer to <u>FRESCO</u> spec sheet for additional details and options.

EASYL - LED SHOW CONTROLLER WITH LCD TOUCHSCREEN (INTETRAL POWER SUPPLY)

Series		Voltage		Finish		
EZSOLO	Easyl Solo	MVOLT	120V-277V VAC,	вк	Black	
EZTOUCH	Easyl Touch		50/60Hz	Wh	White	
EZPRO	Easyl Pro					

Refer to $\underline{\mathsf{EASYL}}$ spec sheet for additional details and options.

DMX / POWER INTEGRATOR



Refer to $\underline{\text{DPI4W}}$ HYD spec sheet for additional details.







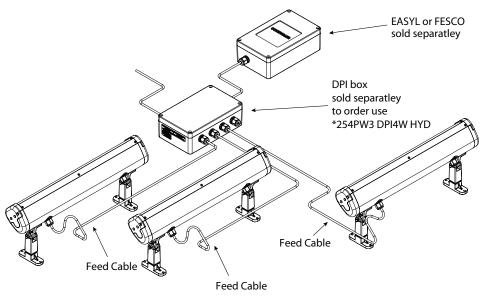
^{-ype}

	Dynamic Lighting Showcase	Catalog Number 4750L QS 4FT 1000LMF RGBW MVOLT MFL KM CSL25 DMX BZ	^{Туре} 22
C	Submitted By 16500, INC	Notes	

HYDREL

WIRING AND LAYOUT DESIGN

INDIVIDUAL RUN LAYOUT



Feed Cable Wiring Detail - DMX RGBW & TUWH Fixture



SPECIFICATIONS AND FEATURES

MATERIAL: Copper free die cast aluminum and corrosion resistant extruded aluminum. All stainless steel fastners.

LIGHT SOURCE: RGBW Red, Green, Blue, White 1000LMF.

VOLTAGE: MVOLT 120-277 (4ft only.)

DISTRIBUTION: VNSP (10x), NSP (20x), MFL (55x), WFL (100x), WWD (wall wash Asymmetric).

LENS: High clarity acrylic, superior UV resistant.

MOUNTING: KM (kuckle mount 45°), KMS (Knuckle Mount Short 45°), KM90 (Knuckle mount 90°), KMS90 (Knuckle mount short 90°).

FINISH: Exterior parts are protected by a zinc-infused super durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climates without cracking or peeling. CORD DETALS: MVOLT - 18-6 SJTOW 10ft. length.

LISTING: cCSAus, MRE (Marine Environment) is listed to UL1598a. IP67 rated.

ENVIRONMENT: Suitable for outdoor wet location applications. Suitabe for inoor, non-IC rated applications, maximum 45° C and minimum -20° C ambient operating temperatures.

BUY AMERICAN: This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/resources/buy-american for additional information.

WARRANTY: 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Consult factory for details.

NOTE: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

	Catalog Number 4426 SS 36LED RGB 120 WFL CLS NM RDM CSL100 SWM	^{Type} 23
Submitted By 16500, INC	Notes	



Specifications	5
Length:	10-3/8"
	264 mm
Width:	11-1/4"
	286 mm
Height:	11-1/4"
	286 mm

4426 SERIES

LED Wet Niche Swimming Pool DMX Color Changing

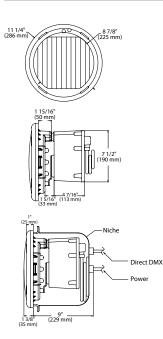
HIGHLIGHTS

- Cast bronze fixture housing with stainless steel fasteners
- Stainless steel niche with cast bronze mounting ring
- Twist and lock mounting for east of installation
- RDM capable for in-field fixture discovery
- Available in RGBW as custom



Buy American

DIMENSIONS



LUMEN PACKAGES

	NSP	MFL	FL	WFL	HSP	HFL
Watts	86	86	86	86	86	86
Delivered Lumens	1850	1,900	2003	1660	1930	1890
LPW	22	22	23	19	22	22
Peak Candela	147,374	34,717	6,896	4,168	3,893	48,428

Note: Information based on 36LED all colors full on

sixteen5hundred	Dynamic Lighting Showcase	Catalog Number 4426 SS 36LED RGB 120 WFL CLS NM RDM CSL100 SWM Notes	^{Type} 23
-	6500, INC	Notes	

4426 SERIES | 2

ORDERING INFORMATION

EXAMPLE: 4426 B 36LED RGB 120 WFL CLS NM RDM CSL50 SWM

Model	Mater	ial	Lamp type	LED cold	or	Voltage	Distrib	ution		Lens
4426	B SWB SS	Bronze Saltwater bronze Stainless steel	36LED 86 watts 18LED 44 watts	Note: A	Mixing wailable in as custom	120	NSP MFL FL WFL HSP HFL	Narrow spot Medium flood Flood Wide flood Horizontal spot Horizontal flood		CLS Convex lens swim
Mounting		Control		Cord set leng	ath		Applica	tion	Option	al listing
· · · · ·	ie mount		evice management	CSL 3	5'-120' of cord a ' increments	available in	SWM	Swimming pool	CSA	Optional Canadian listing for sale in Canada

ELECTRICAL LOAD

			Current (A)
Light Engines	Drive Current (mA)	System Watts	120
18LED	750mA	44W	0.39
36LED	750mA	86W	0.81

 Notes:

 1. Niche to be installed to accomodate two conduit runs.
 a) First Conduit Run – 120V Power Supply

 b) Second Conduit Run – DMX512 Signal

 2. RDM = Field discoverable and field programmable DMX channels.

	Dynamic Lighting Showcase	Catalog Number 4426 SS 36LED RGB 120 WFL CLS NM RDM CSL100 SWM	^{Туре} 23
0		Notes	



4426 SERIES | 3

PERFORMANCE DATA

LUMEN OUTPUT

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Contact factory for performance data on any configurations not shown here.

Photometric data for underwater lighting is based on the theoretical output of a dry fixture. The final output of a fixture placed in water is determined by the depth that the fixture is placed, the clarity and turbulence of the water and the color of the surrounding concrete and/or tile.

	Distribution	ΝΕΜΑ ΤΥΡΕ	Beam Angle (50%) H x V	Field Angle (10%) H x V	Watts	LPW	Delivered Lumens
	NSP	1 X 1	6 X 7	17 X 17	86	22	1,850
	MFL	3 x 3	21 X 21	37 X 37	86	22	1,900
All colors full on	FL	5 x 5	64 X 64	84 X 81	86	23	2,003
36LED	WFL	6 X 6	109 X 93	128 X 123	86	19	1,660
	HSP	4 x 2	38 x 8	52 x 18	86	22	1,930
	HFL	2 x 4	8 x 38	18 x 52	86	22	1,890

	Distribution	NEMA TYPE	Beam Angle (50%) H x V	Field Angle (10%) H x V	Watts	LPW	Delivered Lumens
	NSP	1x1	8x8	20x20	44	19	820
	MFL	3x3	21x21	39x39	44	19	849
All colors full on	FL	5x5	73x73	94x94	44	18	780
18LED	WFL	6x6	100x100	124x124	44	12	507
	HSP	4x2	26x10	40x22	44	20	888
	HFL	2x4	10x37	22x54	44	21	942

RECOMMENDED CONTROLLERS

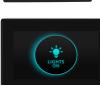
Easyl DMX touchscreen

http://www.acuitybrands.com/pro detail/210270/Fresco/Easyl/Easyl-DMX512A-Show-Controller



Fresco

http://www.acuitybrands.com/ products/detail/223381/Fresco/Fresco/ Touchscreen-Lighting-Controllers



Easyl [™] Solo:	Is a standalone entry-level controller enabling show creation and playback directly at the LCD touchscreen.
Easyl [™] Touch:	features an astronomic time clock for automating shows and expands the controller's features by accepting inputs from remote button stations, and button station contact closure inputs.
Easyl [™] Pro:	is further enhanced by using Easyl Studio™ computer software to create multi-zone shows, and Easyl Pro features a 20 hour DMX512 capture from a theatrical console.

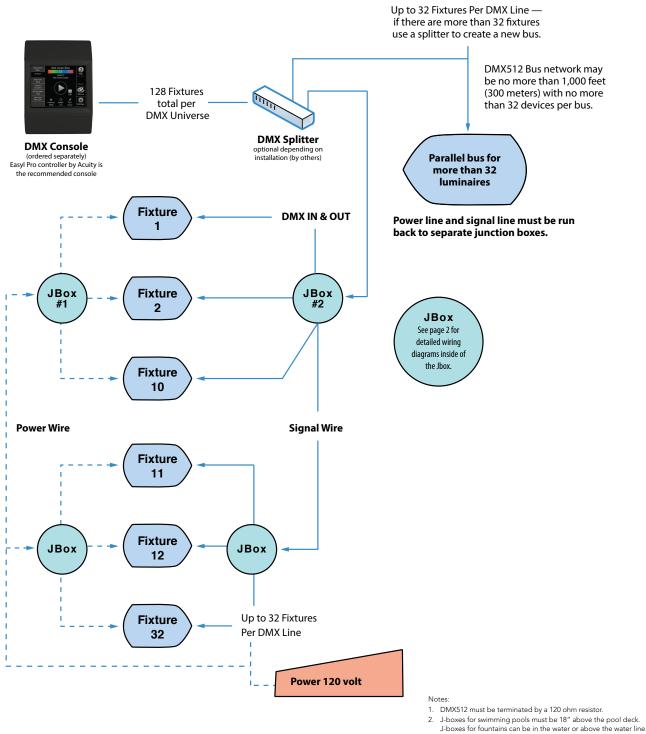
FCS

- Create and edit 36 lighting scenes including intensity, color, and color temperature
- Integral astronomic timeclock with battery backup for system scheduling
- Direct DMX control for 1 universe (512 slots)
- Internal Bluetooth® radio for wireless App control

_	Dynamic Lighting Showcase	Catalog Number 4426 SS 36LED RGB 120 WFL CLS NM RDM CSL100 SWM	^{Туре} 23
sixteen5hundred	Submitted By 16500, INC	Notes	20

4426 SERIES | 4

DMX WIRING - UNDERWATER

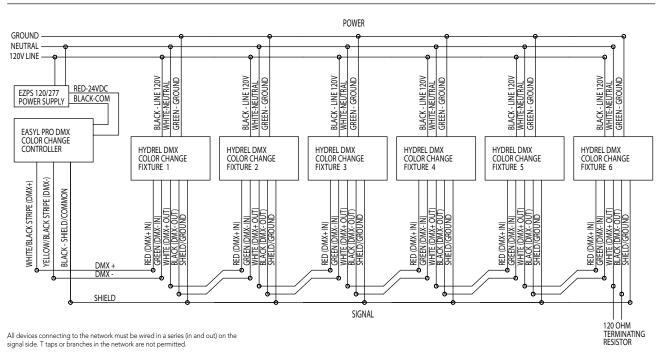


Signal cable by others, cable must be two-pair with a maximum capacitance of 12.8 pF/ft. and a impedance of 120 ohm.

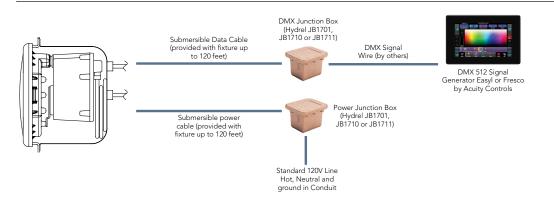
	Dynamic Eighning Chewcase	Catalog Number 4426 SS 36LED RGB 120 WFL CLS NM RDM CSL100 SWM	^{Туре} 23
Sixteen	Submitted By 16500, INC	Notes	

4426 SERIES | 5

DMX CONNECTION AND TERMINATION - WIRING DIAGRAM



FOUNTAIN & SWIMMING POOL LAYOUT



		Ontation Neural and	Turne
	1 10/00/21 120/1 0 Dute 1/20/2021	5	Туре
	Dynamic Lighting Showcase	4426 SS 36LED RGB 120 WFL CLS NM RDM CSL100 SWM	21
sixteen5hundred			Ζ、
	Submitted By	Notes	
	16500, INC		



4426 SERIES | 6

3

UNDERWATER ACCESSORIES



PC21 (35 cubic inches) or PC2112 (20 cubic inches) re-enterable potting compound. See Hydrel web site for more details: http://hydrel.acuitybrands.com/products/detail/88016/hydrel/pc21/underwater-accessory Potting compound is recommended for all underwater junction boxes, Hydrel's potting compound meets NEC requirements for potting.



Cord Seals - One per data cable and one per power cable. See Hydrel web site for more details on available sizes and part numbers: http://hydrel.acuitybrands.com/products/detail/88012/hydrel/cord-seals/underwater-accessory

SPECIFICATIONS AND FEATURES

FIXTURE HOUSING AND DOOR: Heavy wall cast bronze construction. Natural cast bronze finish.

NICHE: Stainless steel with cast bronze mounting ring which locks the fixture into position. Niche has four ears to tie to forms or steel structural rods. Pressure grounding lugs on interior and exterior surfaces. Niche conduit entrances are 3/4'' NPT.

LED: 18LED or 36LED RGB array. (LED board included)

VOLTAGE: 120 Volt AC 50/60Hz.

LENS: 8 5/8" (219mm) diameter convex linear spread tempered glass.

CONTROL: DMX512. Color control is achieved through standard DMX512 hardware, at a maximum of 44 frames per second. All channels have logarithmic power for finer color and intensity control. Compatible with the Easyl and Fresco controllers from Acuity. Controllers must be ordered separately.

ELECTRICAL: Integral ELDO RGB power drive, 120 volt, 50/60HZ LED power supply, dims to zero.THD< 20%, class 2 driver with 100% to 0% dimming.

GASKET: Single piece molded U-shaped silicone gasket.

CORD: Minimum of 35' of #16/3ST submersible rated power cord for standard 120VAC line, minimum of 35' of submersible rated 18 gauge data cord for DMX512 signal. 14/3 submersible rated power cord for CSA. Cord entrance is epoxy encapsulated. Cord length must be specified. NOTE: Sufficient cord should be coiled in the niche to allow for the fixture to be removed and brought above water level for maintenance.

FACTORY LEAK TESTED: Fixtures are tested at 10 PSI (0.70kg/cm2) internal pressure while totally submerged in water.

FASTENERS: Stainless Steel.

BUY AMERICAN: Hydrel products are assembled in the USA. Our products meet the Buy America(n) government procurement requirements under FAR, DFARS, and DOT. Please refer to www.acuitybrands.com/buy-america

LISTING: cCSAus, submersible luminaire suitable for fountains, laboratory tests conducted by CSA to UL Standard UL-676 and UL-8750.

US PATENT: 7,680,816

WARRANTY: 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-conditions

Consult factory for details.

NOTE: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

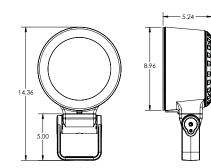
	Dynamic Lighting Onowcase	Catalog Number SAF7 LED P1 RGBW3 MVOLT 20DEG CWL KM DMX BRT	^{Туре} 24
	Submitted By 16500, INC	Notes	



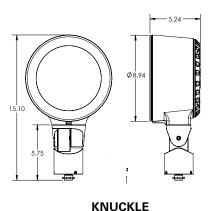


Weight:	15lbs
EPA:	KM: .73
	YM: .71

DIMENSIONS



YOKE



SAF7 RGBW SPECIALTY ARCHITECTURAL FLOOD

MVOLT LED

HIGHLIGHTS

- Suitable for a variety of mounting applications including ground, wall, pole, stanchion
- Performance color mixing utilizing high output quad LED
- 3G vibration rating per ANSI C136.31
- DMX/RDM
- Taper-Lock technology provides full aiming integrity utilizing both a rugged knuckle and yoke design
- White color temperatures available in 30K and 40K
- 1,600lm
- IK10 option available
- Minimalist design that provides clean and intentional lines and transitions
- Slightly convex watershed lens that evades water build up and staining
- Industry leading flow through design achieve with separately sealed optical chamber and driver
- Quad chip technology, enabling optimal color mixing under each individual optic. Avoid striations and color separation when wall grazing/washing

LUMEN PACKAGES

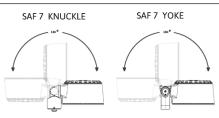
	10DEG	15DEG	20DEG	30DEG	40DEG	50DEG	70DEG
Delivered Lumens	1,639	1,564	1,554	1,533	1,508	1,497	1,451
Watts	45	45	45	45	45	45	45
LPW	36	35	35	34	34	33	32
Peak Candela	41,260	13,923	9,539	3,866	2,247	1,628	991
	15Vx60H	30Vx60H	60Vx15H	60Vx30H			
Delivered Lumens	1,600	1,544	1,497	1,475			
Watts	45	45	45	45			
Watts LPW	45 36	45 34	45 33	45 33			

Note: Information based on RGBW4 @ P1

STANDARD DISTRIBUTION



AIMING DETAIL











Buy American

	Dynamic Lighting Onowcase	Catalog Number SAF7 LED P1 RGBW3 MVOLT 20DEG CWL KM DMX BRT	^{Type} 24
C	Submitted By 16500, INC	Notes	

SAF7 RGBW | 2

ORDERING INFORMATION

EXAMPLE: SAF7 LED P1 RGBW3 MVOLT 10DEG CWL KM CJB L1 DMX BL

SAF7													
Series*		Source*	Performar Packages*	nce	LED Dynamic Range	*	Voltage*	Distribution	×	Lens	×	Mount	ing*
SAF7	Specialty Architectural Flood	LED	P1		RGBW3 30K white RGBW4 40K white		MVOLT	10DEG 15DEG 20DEG 30DEG 50DEG 70DEG 15VX60H 30VX60H 60VX15H 60VX30H	10° 15° 20° 30° 40° 50° 70° 15° × 60° 30° × 60° 60° × 15° 60° × 30°	For II	L Clear Watershed Lens : CWL lens IK07. (10 use external option	КМ ҮМ	Knuckle Yoke
Nountin	g Accessories			Options Int	ernal Accessory	Options		Control Input*		xternal		Finish*	
ADPMR ADPMS AMPC_ APAR APAS AWSC CAJB CJB CPM CPMSA CSM_ CWMA_	 Architectural L Round Architectural L Square Architectural N fit on a 4" or 6 Square 18" Po Architectutal V Cylindrical Arr Cylindrical Jun Cylindrical Jun Cylindrical Pole Cylindrical Pole Cylindrical Pole Cylindrical Stationa Cylindrical Stationa 	" pole with 1 or 2 e Mount le Mount Wall Splice Cove: chitectural Junctic tion Box lestal Mount e Mount Splice An ncion Mount 12"- increments I Mount Arm. wailable in 6" incri I Mount Arm Top	ount vailable to fixtures r on box ccess 48" rements)	L1 L2 L3 IHL Note: Only o can be choos Hardware TPH LASC	Prismatic Lens Linear Spread Lens Softening Lens Honeycomb Louver ne Internal accessory en Tamper proof hardware Safety Cable		or Yoke	DMX		GS FGS WRG	Glare shield Full Glare Shield Wire Rock Guard	replace wit call out wh See the <u>RA</u> for availab recommen	Black Textured Bronze Smooth Bronze Texturer Custom Finish Black Smooth Designer Bronz Natural Aluminum Natural Bronze Smooth Verde Textured White Textured White Textured White Textured White Smooth Zinc Undercoat (i.e.BLZ) Custom Finishes RAL Paint Finishes RD for pricing oni th applicable RAL en ready to order. <u>UBRO CHURE</u> ie options. It is ded that Hydrel nly use textured

*Required Fields

	Dynamic Lighting Showcase		^{Type} 24
orxtoon Ondharda	Submitted By 16500, INC	Notes	



SAF7 RGBW | 3

PERFORMANCE DATA

LUMEN OUTPUT - SAF7_RGBW

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Contact factory for performance data on any configurations not shown here.

Duferran Dedau	System Watts	Distribution Trac	Field Angle		Beam Angle		RGBW3		RGBW4			
Performance Package	System watts	Distribution type	°н	°V	۹н	°۷	Max CD	Lumens	LPW	Max CD	Lumens	LPW
		10DEG	18	18	9	9	39,960	1,588	35	41,260	1,639	36
		15DEG	32	32	16	16	13,485	1,515	34	13,923	1,564	35
		20DEG	39	39	20	20	9,239	1,505	33	9,539	1,554	35
		30DEG	61	61	33	33	3,745	1,485	33	3,866	1,533	34
		40DEG	78	78	47	47	2,176	1,461	32	2,247	1,508	34
P1	45W	50DEG	90	90	56	56	1,577	1,450	32	1,628	1,497	33
		70DEG	111	111	77	77	960	1,406	31	991	1,451	32
		15Vx60H	95	34	66	16	3,876	1,549	34	4,002	1,600	36
		30Vx60H	98	61	66	33	2,137	1,496	33	2,207	1,544	34
		60Vx15H	33	93	16	65	4,019	1,450	32	4,150	1,497	33
		60Vx30H	62	100	34	68	2,032	1,429	32	2,098	1,475	33

CSA LISTING TEMPERATURE: -20°C though 40°C

ELECTRICAL LOAD

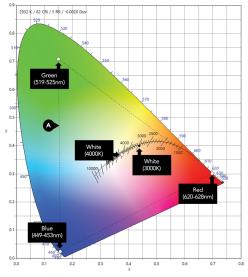
				Curre	nt (A)	
Light Engines	Drive Current (mA)	System Watts	120	208	240	277
RGBW P1 10+deg	500	45	0.38	0.22	0.19	0.17

LUMEN AMBIENT TEMPERATURE (LAT) MULTIPLIERS

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F)

Ambient	Ambient	Lumen Multiplier*		
0°C	32°F	1.27		
10°C	50°F	1.16		
20°C	68°F	1.05		
25°C	77°F	1.00		
30°C	86°F	0.94		
40°C	104°F	0.83		

RGBW GAMUT AND RANGE



- The Gamut of a luminaire determines the potential color range, specifically the dominant wavelength of each primary color.
- The Path determines the range of colors the user can select for the luminaire.

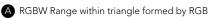
ARCHITAINMENT COLOR GPHD

- Gamut Triangular
- Path Full RGB gamut
- Handle Four Handles: Red, Green, Blue, White
- Data DMX512/RDM

The RGBW Range reaches the full range of saturated colors and subtle pastels to create bold transformational effects.

Symmetric Distribution	ons (10DEG - 70DEG)	
GS	0.96	
FGS	0.95	
IHL	0.76	
L1	0.95	
L2	0.95	
L3	0.97	
WRG 0.81		
_		
*Wider distributions w factor - see individual	ill have a lower scaling IES files for full details butions (xxVXxxH)	
*Wider distributions w factor - see individual	IES files for full details	
*Wider distributions w factor - see individual Asymmetric Distri	IES files for full details butions (xxVXxxH)	
Wider distributions w factor - see individual Asymmetric Distri GS	IES files for full details butions (xxVXxxH) 0.93	
Wider distributions w factor - see individual Asymmetric Distri GS FGS	IES files for full details butions (xxVXxxH) 0.93 0.85*	
Wider distributions w factor - see individual Asymmetric Distri GS FGS IHL	IES files for full details butions (xxVXxxH) 0.93 0.85* 0.35	
Wider distributions w factor - see individual Asymmetric Distri GS FGS IHL L1	IES files for full details butions (xxVXxxH) 0.93 0.85* 0.35 0.88	

the lumen values with different accessories. Please see IES files for exact lumen outputs.



	Dynamic Lighting Showcase	-	^{Type} 24
		Notes	

SAF7 RGBW | 4

SAF MOUNTING ACCESSORIES

	Part #
 ADPMR/ADPMS Architectural Decorative Pole Mount Round or Square Architectural opulent design for seamless pole integration and fixture aiming Intended for 4" round and tapered poles or minimum 4" square poles Mounting location on the top of each arm accepts one lighting fixture Designed for SAF7 & SAF14 fixtures 	Examples: ADPMR 78C BL See <u>spec sheet</u> for more options
 AMPC Architectural Mid Pole Clamp Clamp pole mount design for quick install and fixture aiming Intended for 4" or 6" round straight pole Mount one or two fixtures Mounting location mid pole Designed for SAF7 and SAF14 series with safety cable option 	Example: AMPC4/1 78C BL See <u>spec sheet</u> for more options
 APAR/APAS Architectural Pole Arm Round or Square Intended for 4" round and tapered poles or minimum 4" square poles Mounting location on the top of each arm accepts one lighting fixture Designed for SAF7 & SAF14 fixtures 	Example: APAS XLSC BRS See <u>spec sheet</u> for more options
 AWSC Architectural Wall Splice Cover Designed to be mounted over a recessed wall box or can be surface mounted for direct conduit entrance Supplied with an integral splice access compartment for easy fixture connections Designed for SAF7 & SAF14 fixtures 	Example: AWSC 78C DNA See <u>spec sheet</u> for more options
 CAJB Cylindrical Architectural Junction Box Designed for architectural and landscape applications Recommended for mounting on a rigid metallic conduit For direct mounting of the SAF7 & SAF14 series light fixtures 	Example: CAJB 34B XLSC DBL See <u>spec sheet</u> for more options
 CJB Cylindrical Junction Box Drilled and tapped to ¾" NPT specifications For larger hole sizes , consult factory Recommended to seal conduit to maintain dry components Compatible with SAF7 & SAF14 Flood luminaries 	Example: CJB 34S XLSC VET See <u>spec sheet</u> for more options

sixteen5hundrec	Submitted By	Catalog Number SAF7 LED P1 RGBW3 MVOLT 20DEG CWL KM DMX BRT Notes	^{Type} 24
	16500, INC		



SAF7 RGBW | 5

SAF MOUNTING ACCESSORIES

	Part #
 CPM Cylindrical Pedestal Mount Suitable for architectural and landscape applications Provided with front access cover for easy wiring and installation. Compatible with SAF7 & SAF14 Flood luminaries 	Example: CPM 78C BL See <u>spec sheet</u> for more options
 CPMSA Cylindrical Pole Mount Splice Access Designed to mount atop of 4" round poles Provided with splice compartment Compatible with SAF7 & SAF14 Flood luminaries 	Example: CPMSA 78C DBL See <u>spec sheet</u> for more options
 CSM Cylindrical Stanchion Mount Available in heights from 12" to 48" in 6" increments Provided with front access cover for easy wiring and installation. Compatible with SAF7 & SAF14 Flood luminaries 	Example: CSM12 XLSC BRT See <u>spec sheet</u> for more options
 CWMA E/CWMA T Cylindrical Wall Mount Arm End or Top Available in lengths from 12" to 48" in 6" increments Supplied with splice cover for easy wiring and installation End mounting only available with SAF7 Compatible with SAF7 & SAF14 Flood luminaries 	Example: CWMA30E 78C BL CWMA12T XLSC BRS See <u>spec sheet</u> for more options

Dynamic Lighting Showcase	-	^{Туре} 24
Submitted By 16500, INC	Notes	



SAF7 RGBW | 6

EXTERNAL ACCESSORIES

	Part #
• WRG- Wire Rock Guard	Example: WRGSAF7 BL
• FGS- Full Glare Shield	Example: FGSSAF7 DDB
• GS- Glare Shield	Example: GSSAF7 BL

Dynamic Lighting Showcase		^{Туре} 24
	Notes	

SAF7 RGBW | 7

ACCESSORY OPTIONS

FRESCO CONTROL SYSTEM

Series							
		Model		Opti	Options		
FCS	Fresco Control System	7TSN	7" touchscreen	х	DMX/RMD control	DBL	Black
			with nLight port			DWH	White
						DNA	Natural Aluminum

Refer to <u>FRESCO</u> spec sheet for additional details and options.

DMX / POWER INTEGRATOR

Model	
DPI4WHYD	DPI4WHYD - DMX/Power Integrator Box

Refer to <u>DPI4W HYD</u> spec sheet for additional details.

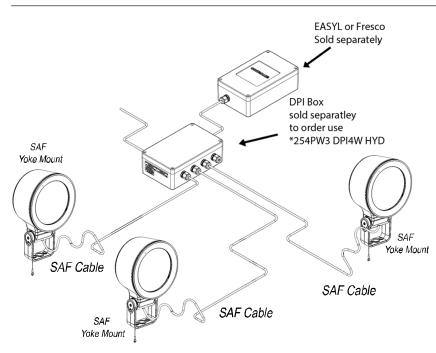




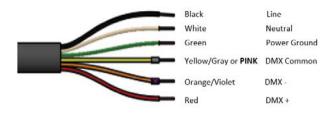
	Catalog Number SAF7 LED P1 RGBW3 MVOLT 20DEG CWL KM DMX BRT	
sixteen5hundred	Notes	24

SAF7 RGBW | 8

WIRING AND LAYOUT DESIGN



Wiring Detail - DMX RGBW Fixture



FEATURES & SPECIFICATIONS

MATERIAL: Die cast copper-free aluminum (A360) housing & doors with separate optical and driver compartments to ensure thermal isolation of the electronic drivers and LED's.

VOLTAGE: MVOLT 120V-277V, 50/60Hz

DISTRIBUTION: Available in 10DEG, 15DEG, 20DEG, 30DEG, 40DEG, 50DEG, 70DEG, 15Vx60H, 30Vx60H, 60Vx15H and 60Vx30H.

LENS: Molded from heat strengthened borosilicate glass for superior clarity and strength.

MOUNTING: Adjustable knuckle is 1/2" NPT. Yoke mount is a 7/8" thru hole center and (2) 7/16" thru holes 2.2" on center. Aluminum knuckle, yoke, & stainless steel locking hardware with infinite aiming adjustment capabilities and a wide array of mounting accessories. The SAF series can withstand up to a 3G vibration load rating per ANSI/IEEE C136.31. Yoke mount luminaires are provided with 10' or 25' of 18-6 ST cord for power supply and control. Knuckle mount luminaires are provided with 18" leads (qty 3 #18 for power supply and qty 3 # 22 for control).

GLARE CONTROL: External glare control options include full glare shields and half glare shields.

FINISH: Exterior parts are protected by a zinc-infused durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climates without cracking or peeling.

ELECTRICAL: MVOLT (120-277) LED class 2 power supply. 45 watts max, L83 lifetime ≥ 100,000 hours at 25°C. Power factor > 90%, THD < 20%. 6KV surge protection meets a minimum Category C low operation per ANSI/IEEE C62.41.2.

FEATURES: Taper lock knuckle and yoke for infinite aiming and an unparalleled locking ability. EXTERNAL ACCESSORY: Impact resistant rock quard.

BUY AMERICAN: Hydrel products are assembled in the USA. Our products meet the Buy America(n) government procurement requirements under FAR, DFARS, and DOT. Please refer to www.acuitybrands.com/buy-america

LISTING: cCSAus, suitable for outdoor & wet location, IP68 rated.

WARRANTY: 5-year limited warranty. Complete warranty terms located at:

Consult factory for details

NOTE: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

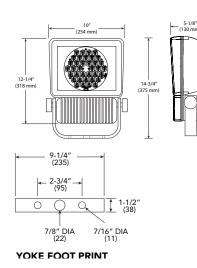
	Catalog Number 8100 36LED RGB MVOLT WFL YM RDM 12DMX BL	^{Type} 25
Submitted By 16500, INC	Notes	

(HYDREL)



Specifications	\$
EPA:	0.96 ft ²
	0.089 m ²
Length:	10"
	254 mm
Width:	5-1/8"
	130 mm
Height:	14-3/4"
	375 mm
Height ² :	12-1/4"
	318 mm
Weight:	24.1lbs

DIMENSIONS



8100 SERIES

Yoke Mount; 36 LED DMX Color Changing

HIGHLIGHTS

- Expected service life of over 100,000 hours
- Corrosion resistant, zinc-infused, durable TGIC thermoset powder coat finish
- Copper free aluminum housing
- IP67 rated
- 3G rated
- Available in RGBW as custom





LUMEN PACKAGES

	NSP	MFL	FL	WFL	HSP	HFL
Delivered Lumens	1,850	1,900	2,003	1,660	1,930	1,890
Watts	97	97	97	97	97	97
LPW	19	20	21	17	20	19

Note: Information based on all colors full on

_	Dynamic Lighting Showcase	Catalog Number 8100 36LED RGB MVOLT WFL YM RDM 12DMX BL	1
sixteen5hundrec	Submitted By 16500, INC	Notes	ľ

8100 SERIES | 2

^{Type} 25

ORDERING INFORMATION

EXAMPLE: 8100 36LED RGB MVOLT NSP YM SMSA18 RDM BL

Model*	Lamp type*	LED Color*	Voltage'	r	Dist	ribution*		Mounting	*	Mounting	Accessories		
8100	36LED	RGB Note: Available in RGBW as custom	MVOLT	(120 Volt)		L Mediu Flood L Wide F Horizo	m Flood	ΥM	Yoke Mount	EWM_ PAR/_ PAS/_ PATR/ PATS/	18", or 24" length (i.e. Pole Arm Square 4", 5 18", or 24" length (i.e.	", or 6" F PAR5/1 ", or 6" PAS4/2 4", 5", c n (i.e. PA	Pole 12", 18) Pole 12", 24) or 6" Pole TR6/12) or 6" Pole
Mounting A	Accessories (C	ont'd)		Accesso	ories	Contro	1	Finish*				Listing	3
PMSA_ PMT PSSA SMSA_ SMT12/24 SMT18/24 SMT24/24 ARJB	Stan. Mt Sp 12"-48" in 6 Stanchion M Stanchion M Stanchion M		ess ailable "	Entern: BD FGS HGS WRG	al' Barn Doors Full Glare Shield Half Glare Shield Wire Rock Guard	RDM ²	Remote device management	BL BZ DDB DNA GN GR SND	Black Bronze Dark Bronze Natural Aluminum Green Gray Sand	applicable order. See available o	Steel Gray Terra Verde Green White Custom Zinc Undercoat (i.e. BLZ) RAL Paint Finishes rpricing only, replace with RAL call out when ready to the <u>RALBROUCHURE</u> for ptions. It is recommended xtures paint for Hydrel fixtures.	NT ^{3,4}	Natatorium Constructio

ELECTRICAL LOAD

				Current (A)				
	Light Engines	Drive Current (mA)	System Watts	120	208	240	277	
[36LED	750mA	97W	0.81	0.47	0.40	0.35	

*Required Catagories

Notes:

- 2
- tes: Option is mutually exclusive. RDM = Field discoverable and field programmable DMX. Add Zinc undercoat for harsh environments. Natatorium rated Hydrel luminaires are built to withstand the elevated temperatures, high humidity and corrosive environments typically associated with natatoriums. Luminaires ordered with the "NT" nomenclature will have a zinc primer undercoat, zinc-infused super durable top coat, stainless steel hardware and IP67 ingress protection. 3 4

	Dynamic Lighting Showcase	Catalog Number 8100 36LED RGB MVOLT WFL YM RDM 12DMX BL	^{туре}
		Notes	



8100 SERIES | 3

25

PERFORMANCE DATA

LUMEN OUTPUT

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Contact factory for performance data on any configurations not shown here. Photometric data for underwater lighting is based on the theoretical output of a dry fixture. The final output of a fixture placed in water is determined by the depth that the fixture is placed, the clarity and turbulence of the water and the color of the surrounding concrete and/or tile.

	Distribution	NEMA TYPE	Beam Angle (50%) H x V	Field Angle (10%) H x V	Watts	LPW	Delivered Lumens
	NSP	1 X 1	6 X 7	17 X 17	97	19	1,850
	MFL	3 x 3	21 X 21	37 X 37	97	20	1,900
All colors full on	FL	5 x 5	64 X 64	84 X 81	97	21	2,003
All colors full on	WFL	6 X 6	109 X 93	128 X 123	97	17	1,660
	HSP	4 x 2	38 x 8	52 x 18	97	20	1,930
	HFL	2 x 4	8 x 38	18 x 52	97	19	1,890

RECOMMENDED CONTROLLERS

Easyl DMX touchscreen

http://www.acuitybrands.com/pro detail/210270/Fresco/Easyl/Easyl-DMX512A-Show-Controller



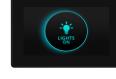
Easyl[™] Solo: Is a standalone entry-level controller enabling show creation and playback directly at the LCD touchscreen.

Easyl[™] Touch: features an astronomic time clock for automating shows and expands the controller's features by accepting inputs from remote button stations, and button station contact closure inputs.

Easyl[™] Pro: is further enhanced by using Easyl Studio[™] computer software to create multi-zone shows, and Easyl Pro features a 20 hour DMX512 capture from a theatrical console.

Fresco

http://www.acuitybrands.com/ products/detail/223381/Fresco/Fresco/ Touchscreen-Lighting-Controllers



FCS

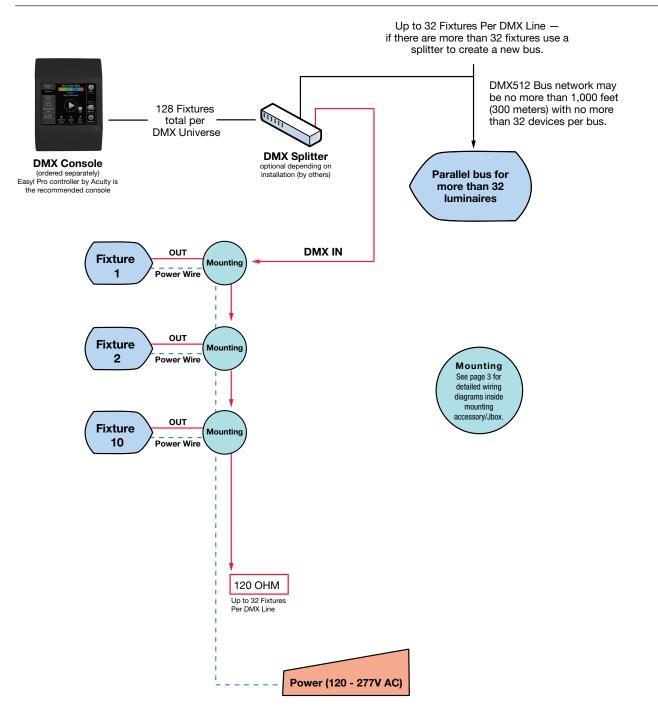
- Create and edit 36 lighting scenes including intensity, color, and color temperature
- Integral astronomic timeclock with battery backup for system scheduling
- Direct DMX control for 1 universe (512 slots)
- Internal Bluetooth® radio for wireless App control

sixteen5hundred	Dynamic Lighting Showcase	Catalog Number 8100 36LED RGB MVOLT WFL YM RDM 12DMX BL	^{Type} 25
	Submitted By 16500, INC	Notes	

(HYDREL)

8100 SERIES | 4

DMX WIRING - FLOOD



Notes:

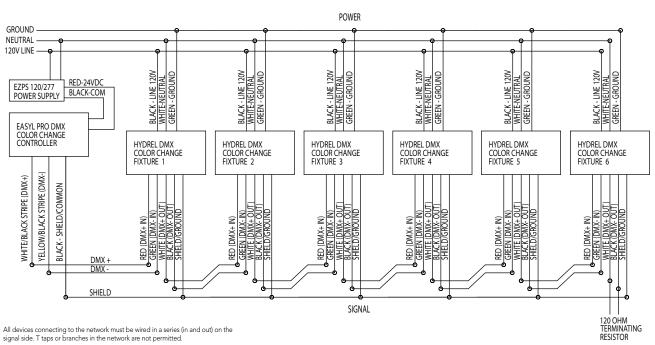
- 1. DMX512 must be terminated by a 120 ohm resistor.
- Signal cable by others, cable must be two-pair with a maximum capacitance of 12.8 pF/ft. and a impedance of 120 ohm.

sixteen <mark>5</mark> hundred	Dynamic Lighting Showcase	Catalog Number 8100 36LED RGB MVOLT WFL YM RDM 12DMX BL	^{Type} 25
		Notes	

(HYDREL)

8100 SERIES | 5

DMX CONNECTION AND TERMINATION - WIRING DIAGRAM



signal side. I taps of branches in the network are not permitted.

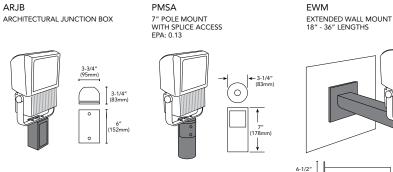
	Catalog Number 8100 36LED RGB MVOLT WFL YM RDM 12DMX BL	^{Type} 25
Submitted By 16500, INC	Notes	

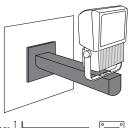
(HYDREL)

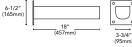
8100 SERIES | 6

MOUNTING OPTIONS

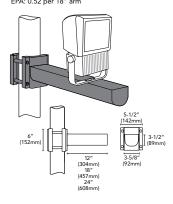
ARJB

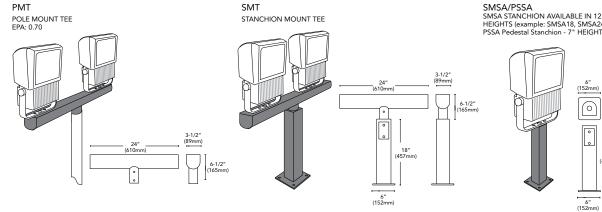






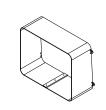
PAR/PAS & PATR/PATS (SINGLE & TWIN ARM) POLE ARM ROUND/SQUARE 12" - 24" LENGTH AVAILABLE EPA: 0.52 per 18" arm

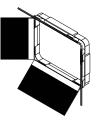




EXTERNAL ACCESSORIES







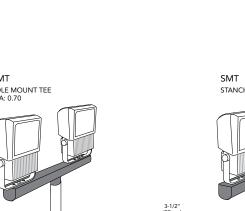


HGS - Half Glare Shield

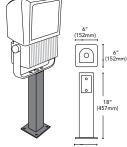
FGS - Full Glare Shield

BD - Barn Doors

MRG - Wire Rock Guard



SMSA/PSSA SMSA STANCHION AVAILABLE IN 12" - 48" HEIGHTS (example: SMSA18, SMSA24) PSSA Pedestal Stanchion - 7" HEIGHT



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8100 YM RGB LED | Rev. 05/13/21 Page 6 of 7

_	Dynamic Lighting Showcase	Catalog Number 8100 36LED RGB MVOLT WFL YM RDM 12DMX BL	T
		Notes	





8100 SERIES | 7

SPECIFICATIONS AND FEATURES

CONSTRUCTION: Die Cast Copper Free Aluminum (A360) Housing and Doors.

LED: RGB LED array, 97 input watts max.. Lumen maintenance of individual light sources has been independently tested using IESNA LM80 standards.

OPTICS: NEMA flood (2x2 through 6x6), horizontal flood (6x4), vertical flood (4x6).

LENS: Tempered borosilicate glass for maximum resistance to impact and thermal shock.

MOUNTING: Aluminum yoke & stainless steel locking hardware with infinate aiming adjustment capabilities and a wide array of mounting accessories. The 8100 series can withstand up to a 3G vibration load rating per ANSI/IEEE C136.31. Luminaires are provided with 10' of 16-3 ST-W cord for power supply and 10' of DMX data cable.

CONTROL: DMX512. Color control is achieved through standard DMX512 hardware, at a maximum of 44 frames per second. All channels have logarithmic power for finer color and intensity control. Compatible with the Easyl and Fresco controllers from Acuity. Controllers must be ordered separately.

ELECTRICAL: Integral ELDO RGB power drive, MVOLT (120-277 volt) 50/60HZ LED PowerSupply, dims to zero. THD< 20%, class 2 driver with 100% to 0% dimming. FINISH: Exterior parts are protected by a zinc-infused super durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climates without cracking or peeling.

LISTING: IP67, CSA, CSA

BUY AMERICAN: This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/resources/buy-american for additional information.

WARRANTY: 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-conditions

Consult factory for details.

NOTE: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

_	Dynamic Lighting Showcase		Type 76
sixteen5hundred	Submitted By 16500, INC	Notes	20

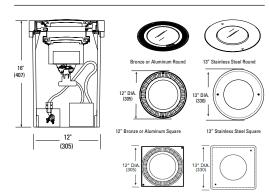
HYDREL



Specifications	SINGLE LENS	DOUBLE LENS
Length:	12"	12"
	305 mm	305 mm
Width:	12"	12"
	305 mm	305 mm
Height:	16"	16"
	407 mm	407 mm
Weight:	29lbs	31lbs

Weight is based on aluminum mate For B and SS material add 2lbs.

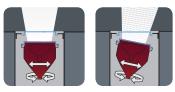
DIMENSIONS



AIMING DETAILS



Single lensed fixture can be aimed using 10° and 20° optical tilt lenses only.



Double lens, mechanically and optically aimed.

M9700 LED Color Changing In-Grade Luminaire

HIGHLIGHTS

- Factory-sealed LED lamp module and encapsulated power module
- Optical and mechanical aiming with an optional double lens
- Optimal efficiency through photometric improvements
- DMX control / RDM
- Six distributions including 8° narrow spot
- Flow-through technology
- Available in RGBW as custom











LUMEN PACKAGES

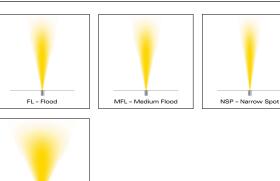


	NSP	MFL	FL	WFL	HSP	HFL
Delivered Lumens	810	548	775	498	880	933
Watts	47	47	47	47	47	47
LPW	17	18	16	11	19	20

Note: Information based on all colors full on.

STANDARD DISTRIBUTION

WFL - Wide Flood



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sixteen5hundred	Dynamic Lighting Showcase	Catalog Number M9710 SS 18LED RGB MVOLT FL FLC RDM 34S	^{Туре} 26
	Submitted By 16500, INC	Notes	



M9700 LED COLOR CHANGING IN-GRADE | 2

ORDERING INFORMATION

EXAMPLE: M9720 SS 18LED RGB MVOLT NSP FLC 34S RDM

Model M9710 M9720 M9730 M9740	Round Door Single Lens Round Door Double Lens Square Door Single Lens Square Door Doubdle Lens	A B SS	r Material Aluminum Bronze Stainless Steel	Lamp T	18 chip LED array	LED Color RGB Mixing Note: Available in RGBW as custom	Voltage MVOLT (120 - 277)	Distrib NSP MFL FL WFL HSP HFL	Narrow Spot Medium Flood Flood Wide Flood Horizontal Spot Horizontal Flood	FLC FLC5 FLC10 FLC20 FLF FLCAS FLC5AS	Flat Lens Clear Flat Lens Clear, 5° Axial Spread Flat Lens Clear, 10° tilt Flat Lens Clear, 20° tilt Flat Lens Frosted Flat Lens Clear, Anti-Slip Flat Lens Clear, 5° Axial Spread, Anti-Slip	FLCSR ² FLC5SR ² FLC10SR ² FLC20SR ² CLC CLF	Flat Lens Clear Slip Resistant Flat Lens Clear, 5° Axial Spread, Slip Resistant Flat Lens Clear, 10 tilt, Slip Resistant Flat Lens Clear, 20 tilt, Slip Resistant Convex Lens, Clea Convex Lens, Frosted
Conduit	Entries	(Control			Accessories			Finish ⁹			Optional Listir	ng
34S 25S ³	1/2" NPT Side and Bottom 3/4" NPT Side and Bottom Two 25mm Side and Bottom			te Device gement		Internal ⁵ IHL ⁶ Internal Hor LSF Linear Spree External ^{5,7} GS Glare Shield LC Lexan Cove LS Light Shield RG ⁸ Rock Guard Trim Ring ^{5,7} BTR Brass Rounc STR Stainless Ro	l r	ver	BZBDDBDDNAMGNGGRGSNDSSTGSTVGTWHV	lack ronze Jark Bronze latural Alum. ireen and teel Gray erra Verde Gra Vhite inc Undercoat	sen	IEC Internat Electro- Commi	technical

ELECTRICAL LOAD

			Curre	nt (A)		
Light Engines	Drive Current (mA)	System Watts	120	208	240	277
18 LED	750mA	47	0.39	0.23	0.20	0.17

SLIP RESISTANCE AND LOAD RATING

e lens).
Wet = 0.10
34; Wet = 0.65

M9700 LED Series Assembly	MRIS97 Rough-In Housing
consists of the following individual components parts	MFS97 Finishing Section
	MACL Lamp Module
	MHSL97 Power Module

Notes:

1

tes: Specify top lens. Bottom lens is FLC standard. Meets ADA requirements for coefficient of friction. Only for use in SOHZ applications. RDM = Field discoverable and field programmable DMX. Accessories are mutually exclusive, choose one only. 2 3 4 5

- 6 Not available with FLC10.
 7 Accessory not available with SS door material.
 8 Not available with CLC or CLF convex lens.
 9 Finish only available on "A" door material.
 10 Add Zinc undercoat for harsh environments.

sixteen5hundred	Dynamic Lighting Showcase		^{Туре} 26
		Notes	



M9700 LED COLOR CHANGING IN-GRADE | 3

PERFORMANCE DATA

LUMEN OUTPUT

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Contact factory for performance data on any configurations not shown here.

	Distribution	NEMA Туре	Beam Angle (50%) H x V	Field Angle (10%) H x V	Watts	LPW	Delivered Lumens
	NSP	2 x 2	8 x 8	20 x 20	47	17	810
	MFL	3 x 3	21 x 21	39 x 39	47	18	845
All Colors Full On	FL	5 x 5	73 x 47	94 x 79	47	16	775
All Colors Full On	WFL	6 x 6	100 x 100	125 x 125	47	11	498
	HSP	3 x 2	26 x 10	40 x 23	47	19	880
	HFL	2 x 4	10 x 38	22 x 54	47	20	933

CONTROLS

RECOMMENDED CONTROLS

Easyl DMX TOUCHSCREEN

http://www.acuitybrands.com/products/detail/210270/Fresco/Easyl/ Easyl-DMX512A-Show-Controller

FRESCO

http://www.acuitybrands.com/products/detail/223381/Fresco/Fresco/ Touchscreen-Lighting-Controllers



Easyl™ Solo	is a standalone entry-level controller enabling show creation and playback directly at the LCD touchscreen.
Easyl™ Touch	features an astronomic time clock for automating shows and expands the controller's features by accepting inputs from remote button stations, and button station contact closure inputs.
Easyl™ Pro	is further enhanced by using Easyl Studio™ computer software to create multi-zone shows, and Easyl Pro features a 20 hour DMX512 capture from a theatrical console.
FCS	Create and edit 36 lighting scenes including intensity, color, and color temperature Integral astronomic timeclock with battery backup for system scheduling Direct DMX control for 1 universe (512 slots) Internal Bluetooth® radio for wireless App control.

en5hundred	Project 21-12877-5 Date 7/26/2021 Dynamic Lighting Showcase	Catalog Number M9710 SS 18LED Notes	RGB MVOLT FL FLC RDM 34S	^{Type} 26
	6500, INC		M9700 LED COLOR CHANGING IN	-GRADE 4
	ING — INGRADES			
DMX Controller Cordered separately Exy Pro controller by Acuity Brands is the recommended console		(IN & OUT nal Wire mai wire mai wire m ar	DMX512 Bus networe be no more than 1,4 (300 meters) with n than 32 devices per Parallel bus for more than 32 luminaires ktures may either be run individually be notion box or sets of fixtures may be aisy-chained" together and the entire ack to a junction box. Signal side and p ust be segregated in separate junction and separate conduit. Diagram to the le sowing the more common "daisy-chained" See page 2 for detailed wiring diagrams inside of luminaire or junction box	000 feet o more bus. back to a run wired power side boxes ft



 Notes:

 1
 MDMX512 signal cable must be terminated by a 120 ohm resistor.

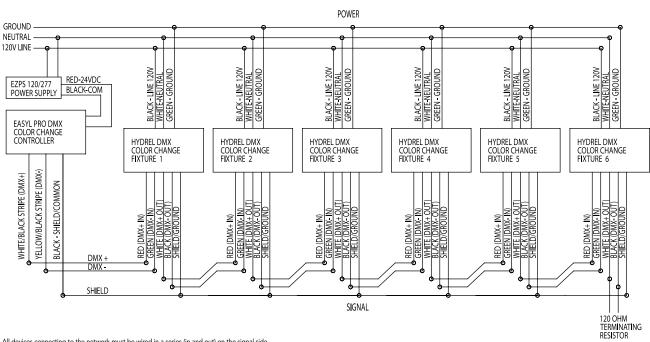
 2
 Signal cable by others, cable must be two-pair with a maximum capacitance of 12.8 pF/ft. and a impedance of 120 ohm.

_	Dynamic Lighting Showcase	Catalog Number M9710 SS 18LED RGB MVOLT FL FLC RDM 34S	^{Туре} 26
sixteen5hundred			20
	Submitted By	Notes	
	16500, INC		



M9700 LED COLOR CHANGING IN-GRADE | 5

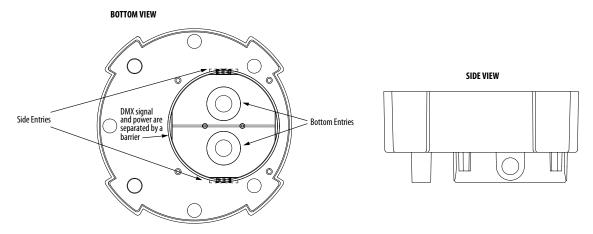
DMX CONNECTION AND TERMINATION - WIRING DIAGRAM



All devices connecting to the network must be wired in a series (in and out) on the signal side. T taps or branches in the network are not permitted.

JUNCTION BOX DETAIL:

Junction box is segregated by a barrier separating the DMX signal side (low voltage) and the inline power side (120-277 volt). Each half of the junction box has a side and a bottom conduit for in and out feeds. This fixture is suitable for "daisy-chaining" within the junction box.







M9700 LED COLOR CHANGING IN-GRADE | 6

SPECIFICATIONS AND FEATURES

DOOR MATERIAL: Cast aluminum, cast bronze or stainless steel.

ROUGH-IN SECTION: Injection molded polymer with integral junction box for thru-branch wiring. The housing is U.V. stabilized, impact and corrosion resistant for use in all types of environments. The rough-in houses the LED and power module components and top door finishing section. Potting compound (PC21) recommended for junction box splices. PC21 sold separately.

CONDUIT ENTRIES: Two (2) bottom and two (2) side entries available in 1/2" NPT, 3/4" NPT or 25mm openings.

FINISHING SECTION: Door assembly with 360° Aim-Lock[™] module support ring. Module indexing provides easy maintenance and relamping without re-aiming. Door trim locks into position with two stainless steel captive, tamper-resistant fasteners. Double lens design includes door assembly with 360°Aim-Lock[™] module support and tilt ring that allows 15° of aiming. Active optical lenses are also available.

LED MODULE: Stainless steel housing, factory-sealed and purged of all moisture for longer component life. Lens is sealed with silicone gasket and stainless steel clamp band assembly with single fastener. Electrical connection to LED module is done through a submersible quick disconnect plug connector with gold-plated contacts.

LIGHT ENGINE: 47 Watt RGB LED array. Heat generated by LEDs is dissipated into and through the fixture housing, and adds less than 15°C to steady state operating lens temperature. For example, in a typical 25°C (77°F) operating environment, lens temperature would not exceed 40°C (104°F).

OPTICS: NEMA Flood (2x2 through 6x6), horizontal spot, horizontal flood. Led module has 360° of rotation. Aiming is done using 10° or 20° optical tilt lenses.

POWER MODULE: Driver and controller are housed in a bronze junction box. Module is provided with submersible rated cord leads for connection to integral junction box and lamp module.

 $\label{eq:linear} \begin{array}{l} \textbf{ELECTRICAL: 47 watt Integral ELDO RGB power driver MVOLT (120-277) 50/60Hz LED power supply dims to zero. THD <20\%, class 2 driver with 100% to 0% dimming. \end{array}$

VOLTAGE: MVOLT 120-277 volt 50/60HZ

CONTROL: DMX512. Color control is achieved through standard DMX512 hardware, at a maximum of 44 frames per second. All channels have logarithmic power for finer color and intensity control. Compatible with the Easyl and Fresco controllers from Acuity. Controllers must be ordered separately.

FINISH: Finish is natural aluminum or bronze. Stainless steel door is brushed finish. Aluminum doors may be painted.

LISTING: cCSAus, suitable for wet locations, laboratory tests conducted by CSA to UL Standard UL-1598 and UL-8750

BUY AMERICAN: This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/resources/buy-american for additional information.

WARRANTY: 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-conditions

Consult factory for details.

NOTE: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

sixteen <mark>5</mark> hundrec		Catalog Number MKS101 LCB 4FT MSL4 M100ADJC1 MCLB18 ARTC RGBW 400LMF WW DARK MVOLT WTP DMX F1A/120A NOFCL Notes	^{Type} 27
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MARKLINE 101

DYNAMIC COLOR

HIGHLIGHTS

- Small and versatile
- Extruded aluminum construction
- Dynamic RGBW Color
- Lumen outputs: 250, 400 lumens per foot
- 6 precise optical distributions: 9x9, 15x30, 10x60, 30x60, 40x60, 60x60 or Wall Wash
- Multi-color diode provides superior near-field color mixing
- DMX/Remote devide management
- Flicker free dimming to DARK (0.01%)
- Shielding options: frosted lens, partially frosted lens, linear cross baffle, hex cell louver, glare visor
- Mounting: surface fixed, surface adjustable, cantilever, suspended

FIXTURE PERFORMANCE

Nominal Lumens/Foot	9x9	15x30	WW
Delivered Lumens/Foot	775	827	755
Input Watts/Foot	16.2	16.2	16.2
Lumens/Watt	48	51	47

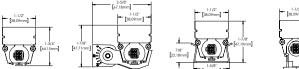
SPECIFICATIONS



DIMENSIONS

Types of Mount with Optic







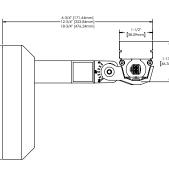
NO MOUNT (SHOWN FOR SIZE REFERENCE ONLY)

SIDE MOUNT

5-1/8" [130.18m

CENTER ROTATION MOUNT

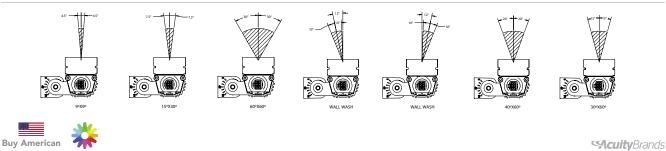
ØS _**^** - 138 **m**1 CABLE SUSPENDED



STATIC MOUNT

CANTILEVER MOUNT

STANDARD DISTRIBUTION



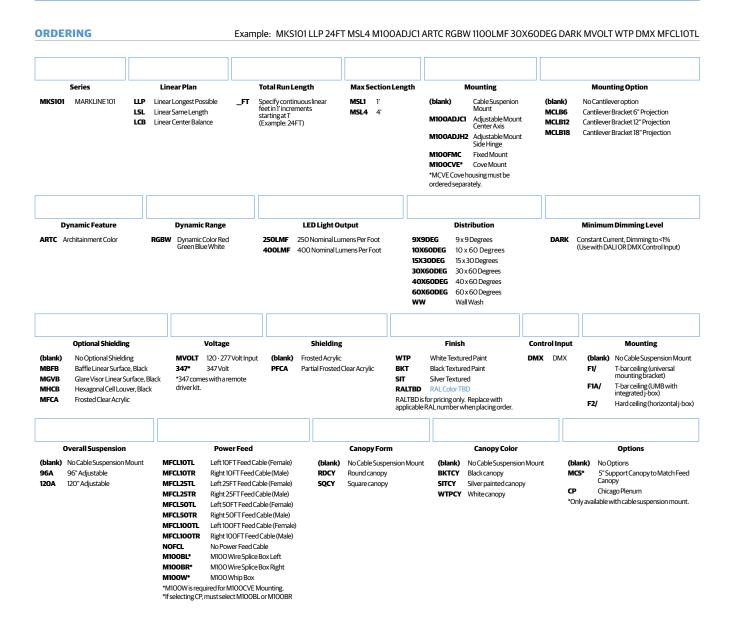
marklighting.com | 800-705-SERV (7378) | © 2021 Acuity Brands Lighting, Inc. All Rights Reserved. We reserve the right to change design, materials and finish in any way that will not alter installed appearance or reduce function and performance.

MKS101_RGBW 05/05/21

sixteen <mark>5</mark> hundrec	Dynamic Lighting Showcase	Catalog Number MKS101 LCB 4FT MSL4 M100ADJC1 MCLB18 ARTC RGBW 400LMF WW DARK MVOLT WTP DMX F1A/120A NOFCL Notes	^{Type} 27
--------------------------------	---------------------------	--	--------------------







MODEL	SECTION		
MKS101	U1	12" (305 mm)	1 lb.
WIKSIUI	U4	48" (1219 mm)	3.05 lb.

sixteen <mark>5</mark> hundred		Catalog Number MKS101 LCB 4FT MSL4 M100ADJC1 MCLB18 ARTC RGBW 400LMF WW DARK MVOLT WTP DMX F1A/120A NOFCL Notes	^{Type} 27
--------------------------------	--	--	--------------------



MARKLINE 101 Dynamic Color

PERFORMANCE DATA

Based on 4FT

Nominal Lumens/FT	Distribution	Delivered Lumens	Input Watts	Lumens/Watt	Delivered Lumens Per Foot	Input Watts Per Foot
	9x9	2518	50.8	49.57	630	12.7
250	15x30	2778	50.8	54.69	695	12.7
	WW	2417	50.8	47.58	604	12.7
	9x9	3147	64.76	48.59	787	16.19
400	15x30	3471	64.76	53.60	868	16.19
	WW	3020	64.76	46.63	755	16.19

Lumen Values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be repesentative of the configuration shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of en-user environment and application. Consult www.marklighting.com for performance data on any configuratations not shown here.

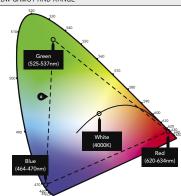
SCALING CHARTS

Shielding	Multiplier
MBFB	0.82
MHCB	0.42
MFCA	0.95
MGVB	0.88

These tables can be used to approximate the lumen values at different Kelvin temperatures and Color Rendering Index. Power consumption would stay the same.

MAINSTREAM DYNAMIC WITH NTUNE TECHNOLOGY

RGBW GAMUT AND RANGE



- The Gamut of a luminaire determines the potential color range, specifically the dominant wavelength of each primary color.
 The Path determines the range of colors the user can select for the luminaire.

- ARCHITAINMENT COLOR GPHD Gamut Triangular Path Full RGB gamut Handle Four Handles: Red, Green, Blue, White Data DMX512/RDM

The RGBW Range reaches the full range of saturated colors and subtle pastels to create bold transformational effects.

A RGBW Range within triangle formed by RGB

sixteen <mark>5</mark> hundrec		Catalog Number MKS101 LCB 4FT MSL4 M100ADJC1 MCLB18 ARTC RGBW 400LMF WW DARK MVOLT WTP DMX F1A/120A NOFCL Notes	^{Type} 27
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LINEAR PLAN

Mark offers the ability to provide a continuous run plan to suit your requirements by optionally offering three methods of configuration.

LLP Longest Length Possible:

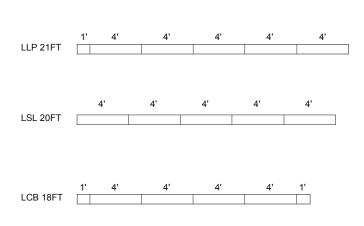
In this plan the longest length available is optimized resulting in the fewest segments and mounting locations. Caution should be used where balanced appearance is a concern. Example: 21FT row would have (5) 4FT segments and (1) 1FT segment located at one end.

LSL Longest Same Length:

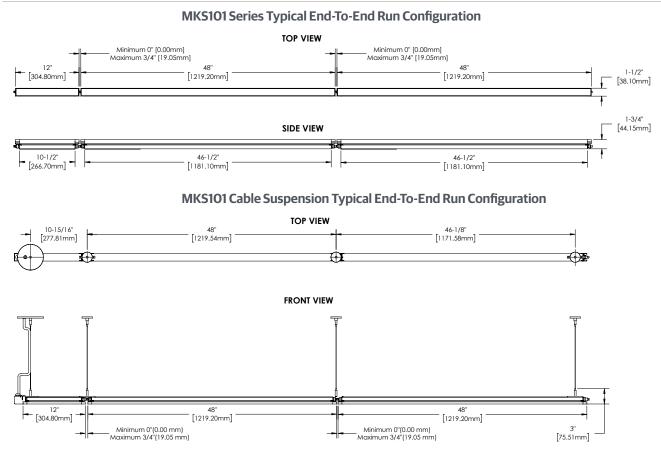
In this configuration each segment is the same length is standardized based on the longest length available and is the only option provided. Because it is dependent on one segment length there are mathematical limitations on what overall row lengths can be achieved. Example: 20FT row would be achieved with (5) 4FT long segments equaling 20FT (nominal).

LCB Longest Center Balanced:

This configuration incorporates the longest center segment(s) along with any additional lengths required to fill located at each end. Example: 18FT row would have (2) 1FT segments (one at each end) and (4) 4FT intermediate segments located in between.



DRAWING DETAILS

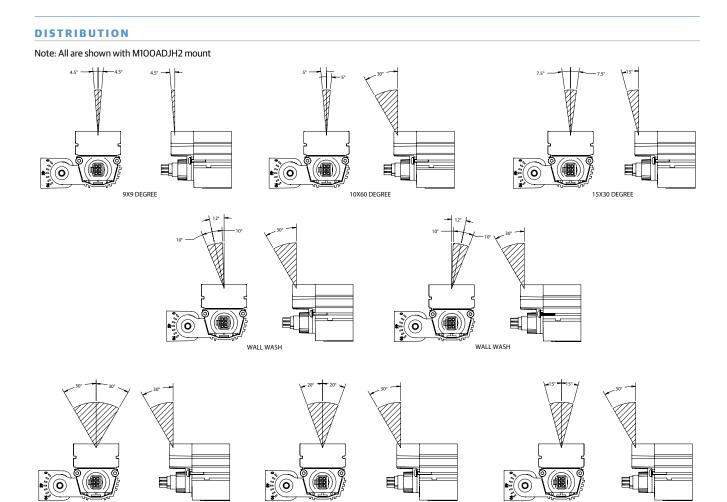


sixteen <mark>5</mark> hundrec	Dynamic Lighting Showcase	Catalog Number MKS101 LCB 4FT MSL4 M100ADJC1 MCLB18 ARTC RGBW 400LMF WW DARK MVOLT WTP DMX F1A/120A NOFCL Notes	^{Type} 27
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60X60 DEGREE





40X60 DEGREE

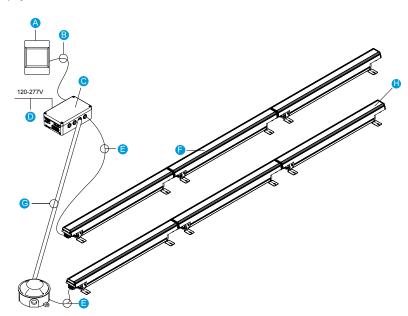
30X60 DEGREE

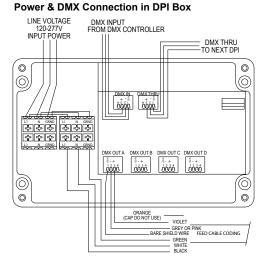
sixteen <mark>5</mark> hundred	Dynamic Lighting Onowcase	Catalog Number MKS101 LCB 4FT MSL4 M100ADJC1 MCLB18 ARTC RGBW 400LMF WW DARK MVOLT WTP DMX F1A/120A NOFCL Notes	^{Type} 27
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MARKLINE 101 Dynamic Color

BASIC SYSTEM WIRING INFORMATION WITH DMX

This very basic system wiring diagram provides an overview of components and materials required for a simple installation of MKS501 luminaires controlled by a DMX controller. These diagrams should not be used in place of actual installation instructions or submittal drawings prepared for a specific project.





A dynamic luminaire installation can be as simple as a single luminaire and one control to many different luminaires in multiple locations being triggered and manipulated in real time. Consulting with the factory at the beginning stages of the project will ensure the required equipment be specified and properly installed.

Note: For multiple runs and multiple DPI boxes, consult factory.

Note: No more than four DPI Boxes, in series, can be utilized between the DMX Controller and any luminaire.

A DMX controller providing one universe of DMX-512 control.

To supply a complete system RDM set-up and playback control solution, use:

Easyl

• Three versions available from entry-level to show creation using computer software

- Full color LCD touchscreen
- Recall colors, shows, and effects with one touch
 Fresco
- Manage multiple light sources in multiple lighting zones, all from one controller
- On screen lighting design and set-up, no computer required or Ethernet connection for remote configuration and advanced control
- All device settings are stored on-board in non-volatile memory
- B Belden 9829 cable is the preferred communication/ data cable used to carry the DMX signal to and from the DPI Box. The total length of this cable must not exceed 1000 feet from the DMX controller to the DPI Box. No luminaires should be installed between DMX Controller and any DPI Box.
- DPI box (Data Power Integration) is used to bundle DMX to line voltage and deliver them to the luminaire. This box provides necessary isolation between the DMX control and line voltage and is required for all MKS501 installations. The DPI box also serves as a 4-channel splitter enabling up to 128 fixtures to be controlled from a single DPI box. Refer to DPI Installation Sheet for dimensions and mounting details.
- 120V-277V input to DPI box. Metallic conduit and standard fittings are compatible as are multi-conductor cords provided they are appropriate to the mounting location.
- Feed cable connects junction box with first fixture in a run. 14 ga. conductors carry power, shielded 18 ga. conductors carry data. Input end is stripped for connection to the Junction or DPI box, output end includes a male or female plug for fixture connection. Also included with each feed cable is a termination/ sealing cap for the end of each run. Contact factory for availability of custom feed cable lengths.
- F Consult Fixture Installation Instructions, for Luminaire Run Length Limits table.
- Power and Data can be run to junction box locations in rigid conduit. Use Belden 9829 for data and copper wire per local code for power. Use appropriate fitting for combination cord.
- H To ensure data integrity, a termination/sealing cap with 120 Ohm resistor is required at the last luminaire in each run. See installation instructions.

Easyl Controller





Fresco Control System

sixteen5hundred Submitted By 16500, INC	Catalog Number MKS101 LCB 4FT MSL4 M100ADJC1 MCLB18 ARTC RGBW 400LMF WW DARK MVOLT WTP DMX F1A/120A NOFCL Notes	^{Type} 27
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ACCESSORY OPTIONS

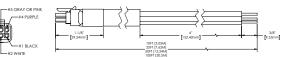
Feed Cables

*Minimum of one feed cable, left or right, required per installation

Carries DMX or NON-DMX signal and 120-277 line voltage power to right end of first fixture in run. Supplied with termination/sealing cap. *Use one feed cable per run only.*

3/8' 53mm

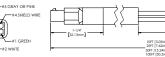
Left Feed



Right Feed

Left Dust Cap

Right Dust Cap



Left DMX Terminator Cap



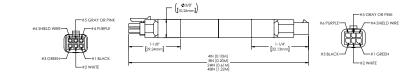
Right DMX Terminator Cap

Carries DMX or NON-DMX signal and 120-277



Model		Cord Col	or
MJCLM2 MJCLM4 MJCLM4IN MJCLM8IN	2FT Jumper Cable 4FT Jumper Cable 4IN Jumper Cable 8IN Jumper Cable	WCRD BCRD	White Cord Black Cord

line voltage power between two units in a run when larger spacing between units is required.



	Dynamic Lighting Showcase	Catalog Number MKS101 LCB 4FT MSL4 M100ADJC1 MCLB18 ARTC RGBW 400LMF WW DARK MVOLT WTP DMX F1A/120A NOFCL Notes	^{Type} 27
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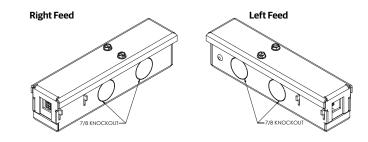
MARKLINE 101 Dynamic Color

ACCESSORY OPTIONS (CONTINUED)

Wire Splice Box, *Optional*

Model	Direct Distribu	ıtion	Finish		DMX	
M100BXL M100 Wire Splice Box Left M100BXR M100 Wire Splice Box Right	9X9DEG 10X60DEG 15X30DEG 30X60DEG 40X60DEG 60X60DEG WW	9 x 9 Degrees 10 x 60 Degrees 15 x 30 Degrees 30 x 60 Degrees 40 x 60 Degrees 60 x 60 Degrees Wall Wash	WTP BKT SIT RALTBD	White Textured Black Textured Silver Textured RAL Color TBD	DXP NDXP	DMX Plug Non-DMX Plug

Replaces feed cable for areas where flexible cord cannot be used to bring input DMX or NON_DMX signal and 120-277 line voltage power to right end of beginning of run. Box allows 1/2" NPT conduit fitting connection and area for building wire splice connections. Supplied with termination/sealing cap. *Use one wire splice box per run only.*



sixteen <mark>5</mark> hundrec	Catalog Number MKS101 LCB 4FT MSL4 M100ADJC1 MCLB18 ARTC RGBW 400LMF WW DARK MVOLT WTP DMX F1A/120A NOFCL Notes	^{Type} 27

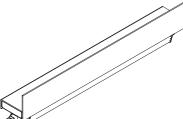




ACCESSORY OPTIONS (CONTINUED)

Glare Visor (Linear) *Optional*

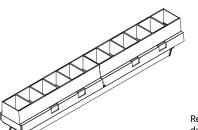
Model		Fixtu	re Section
MGVB1	Glare Visor, Black	U1 U4	1FT Length Unit 4FT Length Unit



Reference Accessory Details document for dimensions

Baffle (Linear) *Optional*

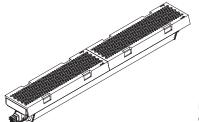
Model		Fixtu	re Section
MBFB1	Baffle Linear Surface, Black	U1 U4	1FT Length Unit 4FT Length Unit



Reference Accessory Details document for dimensions

Hexagonal Cell *Optional*

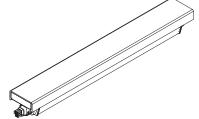
Model		Fixtu	re Section
MHCB1	Hexagonal Cell Louver, Black	U1 U4	1FT Length Unit 4FT Length Unit



Reference Accessory Details document for dimensions

Frosted Clear *Optional*

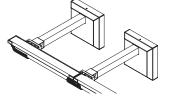
Model		Fixture Section	
MFCA1	Frosted Clear Acrylic	U1 U4	1FT Length Unit 4FT Length Unit



Reference Accessory Details document for dimensions

Cantilever Brackets *Optional*

Series	Finish	
MCLB6 Cantilever Bracket 6" Projection MCLB12 Cantilever Bracket 12" Projection MCLB18 Cantilever Bracket 18" Projection	BKT SIT WTP RALTBD	Black Textured Paint Silver Textured Paint White Textured Paint RAL Paint Finish



Reference Accessory Details document for dimensions

16500, INC

Catalog Number MKS101 LCB 4FT MSL4 M100ADJC1 MCLB18 ARTC RGBW 400LMF WW DARK MVOLT WTP DMX F1A/120A NOFCL Notes



MARK ARCHITECTURAL



SPECIFICATIONS

Voltage: 120 through 277v/60Hz

Distribution: $9^{\circ} x 9^{\circ}$, $10^{\circ} x 60^{\circ}$, $15^{\circ} x 30^{\circ}$, $30^{\circ} x 60^{\circ}$, $40^{\circ} x 60^{\circ}$, $60^{\circ} x 60^{\circ}$, Asymmetric

Size: 1.5 W x 1.75 H

Housing: Extruded aluminum snap together construction

Finish: Polyester powder coat painted finish. Natural stainless steel fasteners. Lens Material: Extruded acrylic

Dominant Wavelengths: Red (623nm), Green (523nm), Blue (451nm)

LED Color Mix: 12 (4-in-1 LEDs) per 12 inches

Control System: Easyl or Fresco DMX512 controller

Ambient Temperature Ranges: -20° to +45°C

Mounting: Suitable for mounting within the space between ground and 4FT (1.2M) of the ground. Suitable for damp location applications.

Certification/Compliance: CSA Certified to meet U.S. and Canadian standards conforming to UL 1598 and CAN/CSA C22.2 No. 250.0

Buy America: This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.

Warranty: 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

Assembled in America: Buy American Act Compliant

sixteen5hundred Submitted By 16500, INC	Catalog Number MKS101 LCB 4FT MSL4 M100ADJC1 80CRI TUWH RHYR 400LMF WW DARK MVOLT WTP NLT F1A/120A NOFCL	^{Type} 28
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MARKLINE 101

TUNABLE WHITE & WARM DIMMING

HIGHLIGHTS

- Small and versatile
- Extruded aluminum construction
- Lumen outputs: 250, 400, 600 or 800 lumens per foot
- Tunable White: Rhythm Range (2700 6500K) or Productivity Range (3000-5000K) .
- Warm Dimming: Halogen Range (3000 1800K)
- 6 precise optical distributions: 9x9, 15x30, 10x60, 30x60, 40x60, 60x60 or Wall Wash •
- 0-10V, nLight or nLightAIR2
- Flicker free dimming to DARK (0.01%)
- . Shielding options: frosted lens, partially frosted lens, linear cross baffle, hex cell louver, glare visor
- Mounting: surface fixed, surface adjustable, cantilever, suspended

TUNABLE WHITE FIXTURE PERFORMANCE

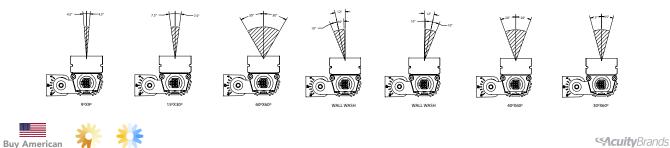
				RHYR (@46K)					
Distribution	WW	9x9	15x30	WW	9x9	15x30			
Delivered Lumens/Foot	552	581	587	613	645	652			
Input Watts/Foot	6	6	6	6.4	6.4	6.4			
Lumens/Watt	92	97	98	96	101	102			
*Based on a 4ft, 90CRI, 70	*Based on a 4ft, 90CRI, 700 LMF.								

WARM DIMMING FIXTURE PERFORMANCE

Distribution	9x9	15x30	WW
Delivered Lumens/Foot	625	684	642
Input Watts/Foot	9.3	9.3	9.3
Lumens/Watt	67	74	69

d on a 4ft, 90CRI, @30K, 700 LMF.

STANDARD DISTRIBUTION



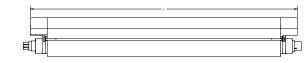
marklighting.com | 800-705-SERV (7378) | © 2021 Acuity Brands Lighting, Inc. All Rights Reserved. We reserve the right to change design, materials and finish in any way that will not alter installed appearance or reduce function and performance.

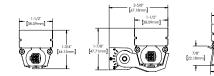
SPECIFICATIONS



DIMENSIONS

Types of Mount with Optic







NO MOUNT (SHOWN FOR SIZE REFERENCE ONLY)

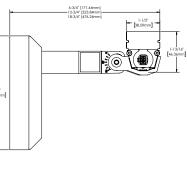
Δ

CABLE SUSPENDED

SIDE MOUNT

[13

CENTER ROTATION MOUNT



STATIC MOUNT

CANTILEVER MOUNT

	Dynamic Lighting Showcase	Catalog Number MKS101 LCB 4FT MSL4 M100ADJC1 80CRI TUWH RHYR 400LMF WW DARK MVOLT WTP NLT F1A/120A NOFCL RDCY WTDOY Notes	^{Type} 28
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MARKLINE 101 Tunable White & Warm Dimming

ORDERING

Example: MKS101 LLP 24FT MSL4 M100FMC 80CRI TUWH RHYR 700LMF 60X60DEG DARK MVOLT WTP NLTW MVCL10TL Example: MKS101 LLP 24FT MSL4 M100FMC 80CRI WDIM HALR 700LMF 40X60DEG DARK MVOLT WTP NLIGHT MVCL10TL

KSIOI MARKLINE 101	LLP LSL LCB	Linear Longest Pose Linear Same Lengt ¹ Linear Center Balan	– ו	FT Specify conti feet in 1' incre at 1' (Exampl	ments startir		SL1 1' SL4 4'	(blank)	Cable Su Mount	spended	(blan	-	Cantilever Opt	ion
								M100AD M100AD M100FM M100CV *MCVE co ordered so	JCI Adjustab Center A JH2 Adjustab Side Hinj C Fixed Mo E* Cove Mo ve housing must	ble Mount ge bunt bunt	MCLI MCLI MCLI	B12 Car	ntilever Bracke	t 6" Projection t 12" Projection t 18" Projection
ight Source Color Rendering	Dynan	nic Feature	Dvn	namic Range		LEDLis	ght Output		listribution			Minimu	ım Dimming	Level
DCRI* 80CRI DCRI 90CRI OCRI not available th RHYR.		unable White /arm Dimming	(3 PROR** P (3 RHYR** R (2 *HALR is only	talogen Range 3000K-1800K) froductivity Range 3000K-5000K) thythm Range 2700K-6500K) ly available with WDI HYR are only availab		LMF 40 LMF 50 LMF 50 LMF 60 LMF 700	O Nominal mens Per Foot IO Nominal mens Per Foot O Nominal mens Per Foot O Nominal mens Per Foot O Nominal mens Per Foot	9X9DEG 10X60DEG 15X30DEG 30X60DEG 40X60DEG 60X60DEG WW	15 x 30 Degre 30 x 60 Degr 40 x 60 Deg	rees rees rees	DARK	Constant	Current, Dimn	ning to <1%
Optional Shieldi Iank) No Optional Shield BBB Baffle Linear Surfa GVB Glare Visor Linear S Het Hexpaonal Cell Loo FCA Frosted Clear Acry	- ding lice, Black Surface, Black uver, Black	Voltag MVOLT 120- 347* 3471 *347 comes with remote driver kit	277 Volt Volt	Shieldir (blank) Froste PFCA Partia Clear <i>i</i>	d Acrylic Frost	Replace w	Finish White Textured Black Textured Silver Textured o RAL Color TBD is for pricing only. with applicable RAL when placing order.	**NLGHT a WDIM and	0	led vireless) Ena led Interface DIM. only availab emote drive	e ole with er kit.	(blank) F1/ F1A/ F2/	T-bar ceiling (universal mo T-bar ceiling (UMB with in	pension Mount punting bracket tegrated j-box) horizontal j-box
Querell Summer			Down For	-4		6			Calar				Ontions	
Overall Suspensi lank) No Cable Suspensi SA 96 in adjustable OA 120 in adjustable		MFCL10TR F MFCL25TL L MFCL25TR F MFCL50TL L MFCL100TL L MFCL100TL F NOFCL N M100BL* M	Right 10FT Fee eft 25FT Fee Right 25FT Fee Right 50FT Fee Right 50FT Fee Right 100FT Fe Right 100FT Fe No Power Fee N550 Wire Sp N550 Wire Sp N100 Whip Bo ed for M100C1	d Cable (Female) ed Cable (Male) d Cable (Female) ed Cable (Male) ed Cable (Female) ed Cable (Female) eed Cable (Female) eed Cable (Male) d Cable dice Box Left lice Box Left sox VE Mounting.	(blani RDCY SQCY	k) NoCab Round	ipy Form leSuspension Mount canopy canopy	(blank) No BKTCY Bla	anopy Color Cable Suspensia Ick canopy ver painted cano inte canopy		(blank) MCS* CP *MCSisc	Chicago	ort Canopy to Plenum	Match Feed

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1lb.

3.05 lb.

12" (305 mm)

48" (1219 mm)

U1

U4

MKS101

sixteen <mark>5</mark> hundred	Project 21-12877-5 Date 7/26/2021 Dynamic Lighting Showcase Submitted By 16500, INC	Catalog Number MKS101 LCB 4FT MSL4 M100ADJC1 80CRI TUWH RHYR 400LMF WW DARK MVOLT WTP NLT F1A/120A NOFCL Notes	^{Type} 28
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MARKLINE 101 Tunable White & Warm Dimming

PERFORMANCE DATA

Tunable White PROR Range Based on a 4ft, 90CRI, @40K

Lumens Per Foot	Distribution	Delivered Lumens	Input Watts	"Lumens/ Watt"	Delivered Lumens/Ft	Input Watts per Foot
	9x9	656	10.92	60.07	164	2.73
250	15x30	631	10.92	57.78	158	2.73
	ww	601	10.92	55.04	150	2.73
	9x9	1190	14.96	79.55	298	3.74
400	15x30	1146	14.96	76.60	287	3.74
	ww	1091	14.96	72.93	273	3.74
	9x9	1607	17.96	89.48	402	4.49
500	15x30	1546	17.96	86.08	387	4.49
	ww	1472	17.96	81.96	368	4.49
	9x9	2018	21	96.10	505	5.25
600	15x30	1942	21	92.48	486	5.25
	ww	1849	21	88.05	462	5.25
	9x9	2323	24.05	96.59	581	6.01
700	15x30	2236	24.05	92.97	559	6.01
	WW	2129	24.05	88.52	532	6.01

Tunable White RHYR Range Based on a 4ft, 90CRI, @46K

atts ot	Lumens Per Foot	Distribution	Delivered Lumens	Input Watts	"Lumens/ Watt"	Delivered Lumens/Ft	Input Watts per Foot
		9x9	728	11.54	63.08	182	2.89
	250	15x30	701	11.54	60.75	175	2.89
		WW	667	11.54	57.80	167	2.89
		9x9	1321	15.8	83.61	330	3.95
	400	15x30	1272	15.8	80.51	318	3.95
		WW	1211	15.8	76.65	303	3.95
		9x9	1783	18.97	93.99	446	4.74
	500	15x30	1717	18.97	90.51	429	4.74
		ww	1634	18.97	86.14	409	4.74
		9x9	2240	22.18	100.99	560	5.55
	600	15x30	2156	22.18	97.20	539	5.55
		WW	2052	22.18	92.52	513	5.55
		9x9	2579	25.41	101.50	645	6.35
	700	15x30	2483	25.41	97.72	621	6.35
		ww	2363	25.41	92.99	591	6.35

Lumen Values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be repesentative of the configuration shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of en-user environment and application. Consult www.marklighting.com for performance data on any configuratations not shown here.

Multiplier 0.64 0.32 0.73

0.68

SCALING CHARTS

Tunable White PROR Range

CRI	ССТ	Multiplier	Shielding
80CRI	27K	1.08	MBFB
80CRI	30K	1.12	MHCB
80CRI	40K	1.25	MFCA
80CRI	50K	1.29	MGVB
90CRI	27K	0.85	
90CRI	30K	0.94	
90CRI	35K	1	
90CRI	40K	1.08	
90CRI	50K	1.11	

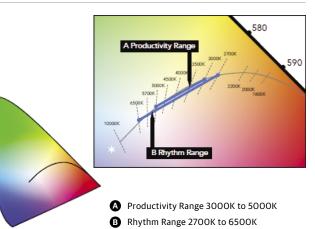
These tables can be used to approximate the lumen values at different Kelvin temperatures and Color Rendering Index. Power consumption would stay the same.

MAINSTREAM DYNAMIC TUNABLE WHITE WITH NTUNE TECHNOLOGY

Tunable white nTune" is an all-digital light color temperature control within an nLight enabled luminaire. This brings tunable white lighting control into the mainstream with repeatable, consistent results in an economical luminaire form and system already familiar to schools. Designers and facility operators are granted the freedom to tie scenes to specific activities or to complement colors or materials within a visual environment. nTune" allows color temperature settings through the Rhythm Range of 2700K to 6500K. Refer to the nLight Programming User's Guide for instructions on customizing to your application with SensorView".

Tunable White GPHD

- Gamut: One dimensional warm-Cool
- Path: Direct 2700K to 6500K (Rhythm Range)
- Handle: Two Natural Language Handles: Intensity and CCT
- Data: nLight with nTune technology for both handles of control



sixteen <mark>5</mark> hundred		Catalog Number MKS101 LCB 4FT MSL4 M100ADJC1 80CRI TUWH RHYR 400LMF WW DARK MVOLT WTP NLT F1A/120A NOFCL Notes	^{Type} 28
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MARKLINE 101 Tunable White & Warm Dimming

PERFORMANCE DATA

Based on 4FT, 9OCRI, @3OK. See website for additional IES files.

Nominal Lumens/FT	Distribution	Delivered Lumens	Input Watts	Lumens/Watt	Delivered Lumens Per Foot	Input Watts Per Foot
	9x9	876	13.12	66.77	219	3
250	15x30	958	13.12	73.02	240	3
	ww	899	13.12	68.52	225	3
	9x9	1456	20.31	71.69	364	5
400	15x30	1592	20.31	78.39	398	5
	ww	1494	20.31	73.56	374	5
	9x9	1825	25.31	72.11	456	6
500	15x30	1995	25.31	78.82	499	6
	ww	1873	25.31	74.00	468	6
	9x9	2117	32	66.16	529	8
600	15x30	2315	32	72.34	579	8
	ww	2172	32	67.88	543	8
	9x9	2499	37.26	67.07	625	9
700	15x30	2733	37.26	73.35	683	9
	WW	2565	37.26	68.84	641	9

Lumen Values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be repesentative of the configuration shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of en-user environment and application. Consult www.marklighting.com for performance data on any configuratations not shown here.

SCALING CHARTS

Warm Dimming HALR Range

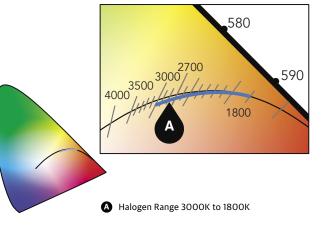
CRI	ССТ	Scale Factor	Shielding	Multiplier
80CR	I @27K	1.09	PFCA	0.98
80CR	I @30K	1.13	MBFB	0.42
90CR	I @27K	0.93	MFCA	0.89
			MGVB	0.70
			MHCB	0.13

These tables can be used to approximate the lumen values at different Kelvin temperatures and Color Rendering Index. Power consumption would stay the same.

MAINSTREAM DYNAMIC WARM DIMMING WITH NTUNE TECHNOLOGY

Warm Dimming GPHD

- Gamut: Triangular: to achieve efficiency and CRI
- Path: Curved tracking Black Body Curve: 3000K@100%-1800K<1% (Halogen Range)
- Handle: One Handle: Intensity (with implicit CCT)
- Data: DMX512/RDM and nLight®



sixteen5hundrec	Dynamic Eighnig Chowcase	Catalog Number MKS101 LCB 4FT MSL4 M100ADJC1 80CRI TUWH RHYR 400LMF WW DARK MVOLT WTP NLT F1A/120A NOFCL Notes	^{Type} 28
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MARKLINE 101 Tunable White & Warm Dimming

LINEAR PLAN

Mark offers the ability to provide a continuous run plan to suit your requirements by optionally offering three methods of configuration.

LLP Longest Length Possible:

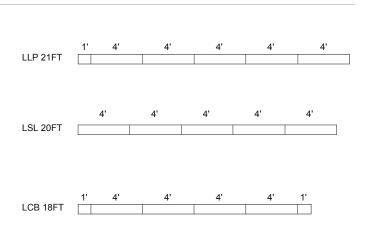
In this plan the longest length available is optimized resulting in the fewest segments and mounting locations. Caution should be used where balanced appearance is a concern. Example: 21FT row would have (5) 4FT segments and (1) 1FT segment located at one end.

LSL Longest Same Length:

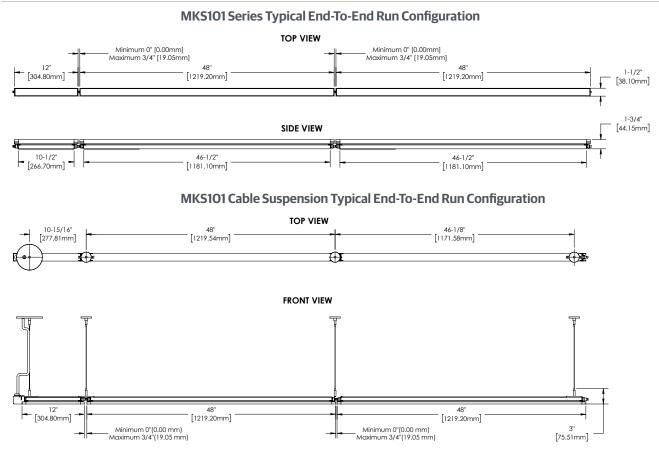
In this configuration each segment is the same length is standardized based on the longest length available and is the only option provided. Because it is dependent on one segment length there are mathematical limitations on what overall row lengths can be achieved. Example: 20FT row would be achieved with (5) 4FT long segments equaling 20FT (nominal).

LCB Longest Center Balanced:

This configuration incorporates the longest center segment(s) along with any additional lengths required to fill located at each end. Example: 18FT row would have (2) 1FT segments (one at each end) and (4) 4FT intermediate segments located in between.



DRAWING DETAILS

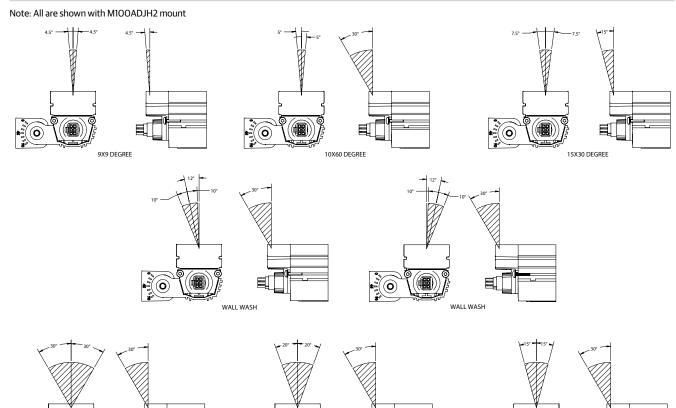


sixteen5hundrec			^{Type} 28
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MARKLINE 101 Tunable White & Warm Dimming

40X60 DEGREE

DISTRIBUTION



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30X60 DEGREE

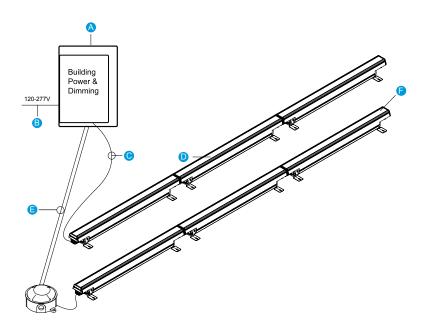
60X60 DEGREE

sixteen5hundred Sixteen5hundred Submitted By 16500, INC Project 21-12877-5 Date 7/26/2021 Dynamic Lighting Showcase Submitted By 16500, INC Catalog Number MKS101 LCB 4FT MSL4 M100ADJC1 80CRI TUWH RHYR 400LMF WW DARK MVOLT WTP NLT F1A/120A NOFCL 2000 Notes Catalog Number MKS101 LCB 4FT MSL4 M100ADJC1 80CRI TUWH RHYR 400LMF WW DARK MVOLT WTP NLT F1A/120A NOFCL 2000 Notes Catalog Number MKS101 LCB 4FT MSL4 M100ADJC1 80CRI TUWH RHYR 400LMF WW DARK MVOLT WTP NLT F1A/120A NOFCL 2000 Notes			
	Submitted By	MKS101 LCB 4FT MSL4 M100ADJC1 80CRI TUWH RHYR 400LMF WW DARK MVOLT WTP NLT F1A/120A NOFCL	

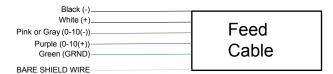
MARKLINE 101 Tunable White & Warm Dimming

BASIC SYSTEM WIRING INFORMATION WITHOUT DMX

This very basic system wiring diagram provides an overview of components and materials required for a simple installation of MKS101 luminaires controlled by building system power (By Others). These diagrams should not be used in place of actual installation instructions or submittal drawings prepared for a specific project.



Feed Cable Wiring



*Notes

1) Cap BARE SHIELD WIRE in Junction box. (By Others)

2) When not using 0-10V dimming, cap Pink or Gray and Purple separately in the junction box. (By Others)

Luminaire installation can be as simple as a single luminaire and one control to many different luminaires in multiple locations being triggered and manipulated in real time. Consulting with the factory at the beginning stages of the project will ensure the required equipment be specified and properly installed.

- A Building power and dimming control input via 0-10V or DALI system provided by others.
- B 120V-277V input. Metallic conduit and standard fittings are compatible as are multi-conductor cords provided they are appropriate to the mounting location.
- Feed cable connects junction box or control input with first fixture in a run. 14 ga. conductors carry power, shielded 18 ga. conductors carry data. Input end is stripped for connection to the junction box, output end includes a female or male plug for fixture connection. Also included with each feed cable is a sealing cap for the end of each run.
- Consult Fixture Installation Instructions, for Luminaire Run Length Limits table.
- Power can be run to junction box locations in rigid conduit. Use Belden 9829 for data and copper wire per local code for power. Use appropriate fitting for combination cord.
- F Included with each feed cable is a sealing cap for the last luminaire in each run. See installation instructions.

sixteen <mark>5</mark> hundrec	Dynamic Lighting Chowcase	-	^{Type} 28
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MARKLINE 101 Tunable White & Warm Dimming

ACCESSORY OPTIONS

Jumper Cable *Optional*

Feed Cables

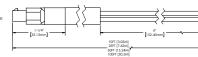
*Minimum of one feed cable, left or right, required per installation

								In run. Supplied with termination/sealir *Use one feed cable per run only
Model		Cord Col	or	DMX				·····,···,
MFCL10TL	Left 10FT Feed Cable	WCRD	White	DXP	DMX Plug		Left Feed	
MFCL25TL	Left 25FT Feed Cable		Cord	NDXP	Non-DMX	#5 GRAY OR PINK	ਤਿਰੀ ਸ	\rightarrow \succ \rightarrow \succ \rightarrow \succ \rightarrow \succ \rightarrow
MFCL50TL	Left 50FT Feed Cable	BCRD	Black Cord		Plug	#6 SHIELD WIRE #4 PURPLE		
MFCL100TL	Left 100FT Feed Cable						[29.24mm]	6" [152.40mm]
MFCL10TR	Right 10FT Feed Cable					#3 GREEN #1 BLACK	 -	10FT [3.05M]
MFCL25TR	Right 25FT Feed Cable							
MFCL50TR	Right 50FT Feed Cable						Right Feed	
MFCL100TR	Right 100FT Feed Cable					#6 PURPLE #4 SHIELD WIRE		
						(888)	1-1/4" [32.13mm]	6" [152.40mm]

Carries DMX or NON-DMX signal and 120-277 line voltage power to right end of first fixture ling cap.

ly.*





Left Dust Cap

#3 BLACK



Right Dust Cap



Right DMX Terminator Cap

Carries DMX or NON-DMX signal and 120-277 line voltage power between two units in a run when larger spacing between units is





sixteen <mark>5</mark> hundred	Dynamic Lighting Chowease	Catalog Number MKS101 LCB 4FT MSL4 M100ADJC1 80CRI TUWH RHYR 400LMF WW DARK MVOLT WTP NLT F1A/120A NOFCL Notes	^{Type} 28
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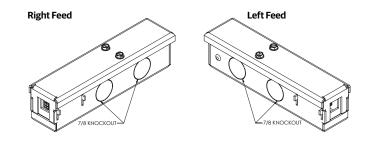
MARKLINE 101 Tunable White & Warm Dimming

ACCESSORY OPTIONS (CONTINUED)

Wire Splice Box, *Optional*

Model	Direct Distribu	ition	Finish		DMX	
M100BXL M100 Wire Splice Box Left M100BXR M100 Wire Splice Box Right	9X9DEG 10X60DEG 15X30DEG 30X60DEG 40X60DEG 60X60DEG WW	9 x 9 Degrees 10 x 60 Degrees 15 x 30 Degrees 30 x 60 Degrees 40 x 60 Degrees 60 x 60 Degrees Wall Wash	WTP BKT SIT RALTBD	White Textured Black Textured Silver Textured RAL Color TBD	DXP NDXP	DMX Plug Non-DMX Plug

Replaces feed cable for areas where flexible cord cannot be used to bring input DMX or NON_DMX signal and 120-277 line voltage power to right end of beginning of run. Box allows 1/2" NPT conduit fitting connection and area for building wire splice connections. Supplied with termination/sealing cap. *Use one wire splice box per run only.*



		Catalog Number MKS101 LCB 4FT MSL4 M100ADJC1 80CRI TUWH RHYR 400LMF WW DARK MVOLT WTP NLT F1A/120A NOFCL Notes	^{Type} 28
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ACCESSORY OPTIONS (CONTINUED)

Glare Visor (Linear) *Optional*

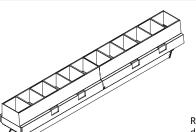
Model		Fixtu	re Section
MGVB1	Glare Visor, Black	U1 U4	1FT Length Unit 4FT Length Unit



Reference Accessory Details document for dimensions

Baffle (Linear) *Optional*

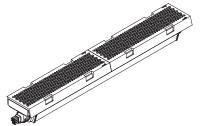
Model		Fixtu	re Section
MBFB1	Baffle Linear Surface, Black	U1 U4	1FT Length Unit 4FT Length Unit



Reference Accessory Details document for dimensions

Hexagonal Cell *Optional*

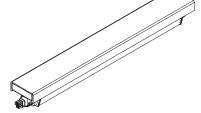
Model		Fixtu	re Section
MHCB1	Hexagonal Cell Louver, Black	U1 U4	1FT Length Unit 4FT Length Unit



Reference Accessory Details document for dimensions

Frosted Clear *Optional*

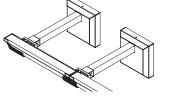
Model		Fixtu	re Section
MFCA1	Frosted Clear Acrylic	U1 U4	1FT Length Unit 4FT Length Unit



Reference Accessory Details document for dimensions

Cantilever Brackets *Optional*

Series	Finish	
MCLB6 Cantilever Bracket 6" Projection MCLB12 Cantilever Bracket 12" Projection MCLB18 Cantilever Bracket 18" Projection	BKT SIT WTP RALTBD	Black Textured Paint Silver Textured Paint White Textured Paint RAL Paint Finish



Reference Accessory Details document for dimensions

Catalog Number MKS101 LCB 4FT MSL4 M100ADJC1 80CRI TUWH RHYR 400LMF WW DARK MVOLT WTP NLT F1A/120A NOFCL Notes





MARKLINE 101 Tunable White & Warm Dimming

SPECIFICATIONS

Voltage: 120 through 277v/60Hz

Distribution: $9^{\circ} x 9^{\circ}$, $10^{\circ} x 60^{\circ}$, $15^{\circ} x 30^{\circ}$, $30^{\circ} x 60^{\circ}$, $40^{\circ} x 60^{\circ}$, $60^{\circ} x 60^{\circ}$, Asymmetric

Size: 1.5 W x 1.75 H

Housing: Extruded aluminum snap together construction

Finish: Polyester powder coat painted finish. Natural stainless steel fasteners.

Lens Material: Extruded acrylic

LED: 12 LED diodes per foot

Ambient Temperature Ranges: -20° to +45°C

Mounting: Suitable for mounting within the space between ground and 4FT (1.2M) of the ground. Suitable for damp location applications.

Certification/Compliance: CSA Certified to meet U.S. and Canadian standards conforming to UL 1598 and CAN/CSA C22.2 No. 250.0

Buy America: This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.

Warranty: 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

Assembled in America: Buy American Act Compliant

	Dynamic Lighting Showcase	Catalog Number MCV102 LCB 4FT MSL4 M100ADJC1 MCLB18 ARTC RGBW 400LMF 120X120DEG DARK MVOLT WTP DMX MFCL50TR	^{Type} 29
-		Notes	



MARKCOVE 102

DYNAMIC COLOR

HIGHLIGHTS

- Our smallest profile
- Extruded aluminum construction
- Dynamic RGBW Color
- Lumen outputs: 250, 400 lumens per foot
- Cove optical distribution: 120x120
- Multi-color diode provides superior near-field color mixing
- DMX/Remote device management

FIXTURE PERFORMANCE

Nominal Lumens/Foot Delivered Lumens/Foot

Input Watts/Foot

Lumens/Watt

- Flicker free dimming to DARK (0.01%)
- Shielding options: frosted lens, partially frosted lens, linear cross baffle, hex cell louver, glare visor

250

701

12.7

55

Based on a 4FT, RGBW fixture with standard 120x120 distribution

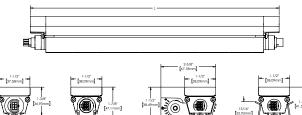
• Mounting: surface fixed, surface adjustable

SPECIFICATIONS



DIMENSIONS

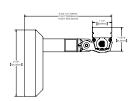
Reference Drawing Detail section for additional information





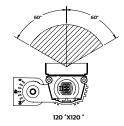
NO MOUNT (SHOWN FOR SIZE REFERENCE ONLY)

M100ADJC1 M100ADJH2 CENTER ROTATION SIDE MOUNT MOUNT



CANTILEVER MOUNT

DISTRIBUTION





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400

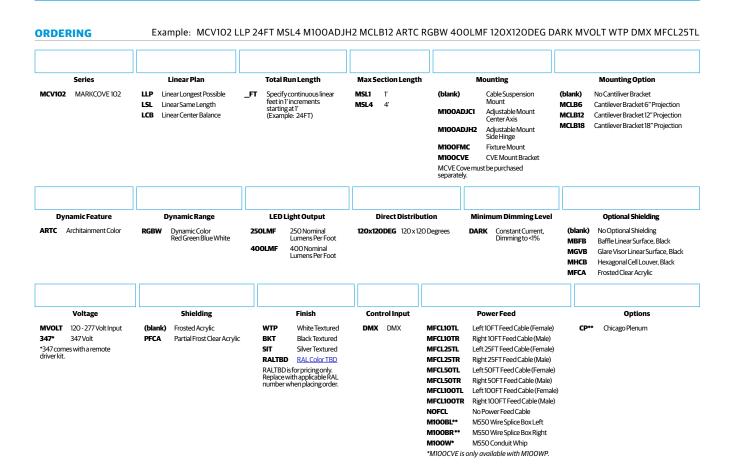
852

16.21

53

Dynamic Lighting Showcase	Catalog Number MCV102 LCB 4FT MSL4 M100ADJC1 MCLB18 ARTC RGBW 400LMF 120X120DEG DARK MVOLT WTP DMX MFCL50TR	^{Type} 29
	Notes	





	Dynamic Lighting Showcase	Catalog Number MCV102 LCB 4FT MSL4 M100ADJC1 MCLB18 ARTC RGBW 400LMF 120X120DEG DARK MVOLT WTP DMX MFCL50TR	^{Type} 29
-	Submitted By 16500, INC	Notes	



PERFORMANCE DATA

Lumens Per Foot	Fixture Length	Distribution	Delivered Lumens	Input Watts	Lumens/Watt	Delivered Lumens Per Foot	Input Watts Per Foot
250	1FT	120x120	701	12.7	55.19685039	701	12.7
250	4FT	120x120	2817	51.36	54.84813084	704	12.84
400	1FT	120x120	852	16.21	52.56014806	852	16.21
400	4FT	120x120	3421	65.56	52.18120805	855	16.39

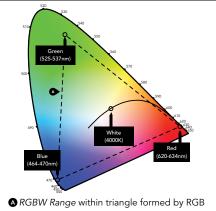
Lumen Values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be repesentative of the configuration shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of en-user environment and application. Consult www.marklighting.com for performance data on any configuratations not shown here.

LUMEN MULTIPLIERS

Shielding	Multiplier
PFCA	0.98
MBFB	0.27
МНСВ	0.13
MFCA	0.89
MGVB	0.70

This table can be used to approximate the lumen values at different Kelvin temperatures and Color Rendering Index. Power consumption would stay the same.

RGBW GAMUT AND RANGE



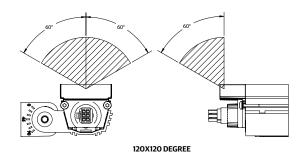
- The Gamut of a luminaire determines the potential color range, specifically the dominant wavelength of each primary color.
 The Path determines the range of colors the user can select for the luminaire.

- ARCHITAINMENT COLOR GPHD Gamut Triangular Path Full RGB gamut Handle Four Handles: Red, Green, Blue, White Data DMX512/RDM

The RGBW Range reaches the full range of saturated colors and subtle pastels to create bold transformational effects.

DISTRIBUTION

Note: Shown with M100ADJH2 mount



sixteen5hundred	Dynamic Lighting Showcase	Catalog Number MCV102 LCB 4FT MSL4 M100ADJC1 MCLB18 ARTC RGBW 400LMF 120X120DEG DARK MVOLT WTP DMX MFCL50TR	^{Type} 29
Ŭ	Submitted By 16500, INC	Notes	



LINEAR PLAN

Mark offers the ability to provide a continuous run plan to suit your requirements by optionally offering three methods of configuration.

LLP Longest Length Possible:

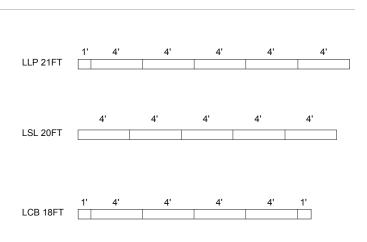
In this plan the longest length available is optimized resulting in the fewest segments and mounting locations. Caution should be used where balanced appearance is a concern. Example: 21FT row would have (5) 4FT segments and (1) 1FT segment located at one end.

LSL Longest Same Length:

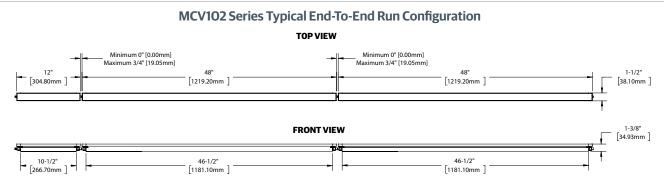
In this configuration each segment is the same length is standardized based on the longest length available and is the only option provided. Because it is dependent on one segment length there are mathematical limitations on what overall row lengths can be achieved. Example: 20FT row would be achieved with (5) 4FT long segments equaling 20FT (nominal).

LCB Longest Center Balanced:

This configuration incorporates the longest center segment(s) along with any additional lengths required to fill located at each end. Example: 18FT row would have (2) 1FT segments (one at each end) and (4) 4FT intermediate segments located in between.



DRAWING DETAILS

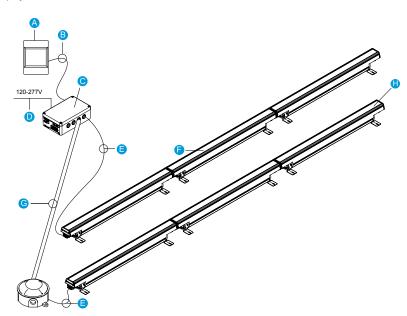


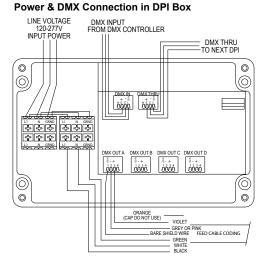
Bynamie Eighnig Onowouse	Catalog Number MCV102 LCB 4FT MSL4 M100ADJC1 MCLB18 ARTC RGBW 400LMF 120X120DEG DARK MVOLT WTP DMX MFCL50TR	^{Type} 29
Submitted By 16500, INC	Notes	



BASIC SYSTEM WIRING INFORMATION WITH DMX

This very basic system wiring diagram provides an overview of components and materials required for a simple installation of MKS501 luminaires controlled by a DMX controller. These diagrams should not be used in place of actual installation instructions or submittal drawings prepared for a specific project.





A dynamic luminaire installation can be as simple as a single luminaire and one control to many different luminaires in multiple locations being triggered and manipulated in real time. Consulting with the factory at the beginning stages of the project will ensure the required equipment be specified and properly installed.

Note: For multiple runs and multiple DPI boxes, consult factory.

Note: No more than four DPI Boxes, in series, can be utilized between the DMX Controller and any luminaire.

A DMX controller providing one universe of DMX-512 control

To supply a complete system RDM set-up and playback control solution. use:

Easyl

• Three versions available from entry-level to show creation using computer software

Full color LCD touchscreen

· Recall colors, shows, and effects with one touch Fresco

 Manage multiple light sources in multiple lighting zones, all from one controller

• On screen lighting design and set-up, no computer required or Ethernet connection for remote configuration and advanced control

• All device settings are stored on-board in non-volatile memory

- Belden 9829 cable is the preferred communication/ data cable used to carry the DMX signal to and from the DPI Box. The total length of this cable must not exceed 1000 feet from the DMX controller to the DPI Box. No luminaires should be installed between DMX Controller and any DPI Box.
- C DPI box (Data Power Integration) is used to bundle DMX to line voltage and deliver them to the luminaire. This box provides necessary isolation between the DMX control and line voltage and is required for all MKS501 installations. The DPI box also serves as a 4-channel splitter enabling up to 128 fixtures to be controlled from a single DPI box. Refer to DPI Installation Sheet for dimensions and mounting details.

120V-277V input to DPI box. Metallic conduit and standard fittings are compatible as are multi-conductor cords provided they are appropriate to the mounting location

E Feed cable connects junction box with first fixture in a run. 14 ga. conductors carry power, shielded 18 ga. conductors carry data. Input end is stripped for connection to the Junction or DPI box, output end includes a male or female plug for fixture connection. Also included with each feed cable is a termination/ sealing cap for the end of each run. Contact factory for availability of custom feed cable lengths.

Consult Fixture Installation Instructions, for Luminaire Run Length Limits table.

G Power and Data can be run to junction box locations in rigid conduit. Use Belden 9829 for data and copper wire per local code for power. Use appropriate fitting for combination cord.

H To ensure data integrity, a termination/sealing cap with 120 Ohm resistor is required at the last luminaire in each run. See installation instructions.

Easyl Controller



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Fresco Control System

Dynamic Lighting Showcase	Catalog Number MCV102 LCB 4FT MSL4 M100ADJC1 MCLB18 ARTC RGBW 400LMF 120X120DEG DARK MVOLT WTP DMX MFCL50TR	^{Type} 29
Submitted By 16500, INC	Notes	





ACCESSORY OPTIONS

Jumper Cable *Optional*

2FT Jumper Cable

4FT Jumper Cable

4IN Jumper Cable

8IN Jumper Cable

Model

MJCLM2

MJCLM4

MJCLM4IN

MJCLM8IN

Feed Cables

*Minimum of one feed cable, left or right, required per installation

Model		Cord Col	or	DMX	
MFCL10TL MFCL25TL MFCL50TL MFCL100TL	Left 10FT Feed Cable Left 25FT Feed Cable Left 50FT Feed Cable Left 100FT Feed Cable	WCRD BCRD	White Cord Black Cord	DXP NDXP	DMX Plug Non-DMX Plug
MFCL10TR MFCL25TR MFCL50TR MFCL100TR	Right 10FT Feed Cable Right 25FT Feed Cable Right 50FT Feed Cable Right 100FT Feed Cable				

Cord Color

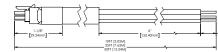
#6 SHELD WIRE #3 GREEN #3 GREEN #3 GREEN #3 GREEN #3 GREEN #3 GREEN

Carries DMX or NON-DMX signal and 120-277 line voltage power to right end of first fixture in run. Supplied with termination/sealing cap.

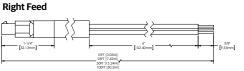
> 3/8' [9.53mm]

Use one feed cable per run only.

Left Feed



8 PURPLE 3 BLACK 4 STREEN 3 BLACK 4 STREEN 4 STREEN



Right Feed Dust Cap (Included with NDXP)



Left Feed Dust Cap (Included with NDXP)



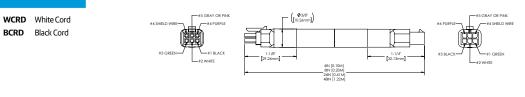
Right Feed DMX Terminator Cap (Included with DXP)



Left Feed DMX Terminator Cap (Included with DXP)



Carries DMX or NON-DMX signal and 120-277 line voltage power between two units in a run when larger spacing between units is required.



	Dynamic Lighting Showcase	Catalog Number MCV102 LCB 4FT MSL4 M100ADJC1 MCLB18 ARTC RGBW 400LMF 120X120DEG DARK MVOLT WTP DMX MFCL50TR	^{Type} 29
C	Submitted By 16500, INC	Notes	

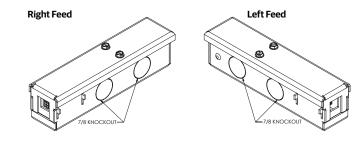


ACCESSORY OPTIONS (CONTINUED)

Wire Splice Box, *Optional*

Model		Direct Distribution	Finish		DMX	
M100BXL M100BXR M100WP	M100 Wire Splice Box Left M100 Wire Splice Box Right M100 Conduit Whip	120X120DEG 120 x 120 Degrees	WTP BKT SIT RALTBD	White Textured Black Textured Silver Textured RAL Color TBD	DXP NDXP	DMX Plug Non-DMX Plug

Replaces feed cable for areas where flexible cord cannot be used to bring input DMX or NON_DMX signal and 120-277 line voltage power to right end of beginning of run. Box allows 1/2" NPT conduit fitting connection and area for building wire splice connections. Supplied with termination/sealing cap. *Use one wire splice box per run only.*



sixteen <mark>5</mark> hundred	Dynamic Lighting Showcase	Catalog Number MCV102 LCB 4FT MSL4 M100ADJC1 MCLB18 ARTC RGBW 400LMF 120X120DEG DARK MVOLT WTP DMX MFCL50TR	^{Type} 29
		Notes	





ACCESSORY OPTIONS (CONTINUED)

Glare Visor (Linear) *Optional* Model Fixture Section U1 1FT Length Unit MGVB1 Glare Visor, Black U1/6 1'6" Length Unit U4 4FT Length Unit Reference Accessory Details document for dimensions Baffle (Linear) *Optional* Model Fixture Section 1FT Length Unit MBFB1 Baffle Linear Surface, Black U1 U1/6 1'6" Length Unit U4 4FT Length Unit **Reference Accessory Details** document for dimensions Hexagonal Cell *Optional* **Fixture Section** Model MHCB1 Hexagonal Cell Louver, Black U1 1FT Length Unit U1/6 1'6" Length Unit U4 4FT Length Unit **Reference Accessory Details** document for dimensions Frosted Clear *Optional* Model **Fixture Section** MFCA1 Frosted Clear Acrylic 1FT Length Unit U1 U1/6 1'6" Length Unit U4 4FT Length Unit **Reference Accessory Details** document for dimensions Cantilever Brackets *Optional* Series Finish MCLB6 Cantilever Bracket 6" Projection вкт Black Textured Paint MCLB12 Cantilever Bracket 12" Projection SIT Silver Textured Paint WTP White Textured Paint MCLB18 Cantilever Bracket 18" Projection RALTBD RAL Paint Finish **Reference Accessory Details** document for dimensions

Catalog Number MCV102 LCB 4FT MSL4 M100ADJC1 MCLB18 ARTC RGBW 400LMF 120X120DEG DARK MVOLT WTP DMX MFCL50TR Notes





MARKCOVE 102 Dynamic Color

SPECIFICATIONS

Voltage: 120 through 277v/60Hz **Distribution:** 120° X 120° (Lambertian)

Size: 1.5 W x 1.75 H

Housing: Extruded aluminum snap together construction

Finish: Polyester powder coat painted finish. Natural stainless steel fasteners. Lens Material: Extruded acrylic

Dominant Wavelengths: RED (623nm), GREEN (523nm), BLUE (451nm) **LED Color Mix:** 12 (4-in-1 LEDs) per 12 inches Ambient Temperature Ranges: -20° to +45°C

Mounting: Suitable for mounting within the space between ground and 4FT (1.2M) of the ground. Suitable for damp location applications.

Certification/Compliance: CSA Certified to meet U.S. and Canadian standards conforming to UL 1598 and CAN/CSA C22.2 No. 250.0

Buy American: This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to <u>www.acuitybrands.com/buy-american</u> for additional information.

Warranty: 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

sixteen <mark>5</mark> hundred	Bynamie Eighning Chewouse	Catalog Number MKS102 LCB 4FT MSL4 M100ADJC1 MCLB18 80CRI TUWH RHYR 400LMF 120X120DEG DARK MVOLT WTP NLT NOTES	^{Type} 30
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SPECIFICATIONS



MARKCOVE 102

TUNABLE WHITE & WARM DIMMING

HIGHLIGHTS

- Low profile
- Extruded aluminum construction
- Lumen outputs: 250, 400, 600, 800 or 900 lumens per foot
- Tunable White: Rhythm Range (2700 6500K) or Productivity Range (3000-5000K)
- Warm Dimming: Halogen Range (3000 1800K)
- Cove optics: 120x120
- 0-10V, nLight or nLightAIR2
- Flicker free dimming to DARK (0.01%)
- Shielding options: frosted lens, linear cross baffle, hex cell louver, glare visor
- Mounting: surface fixed, surface adjustable

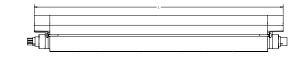
FIXTURE PERFORMANCE

MCV102 TUNABLE WHITE									
	PROR (@40K)								
Nominal Lumens/Foot	250	400	500	600	700	800	900		
Delivered Lumens/Foot	540	725	879	1029	1151	1269	1374		
Input Watts/Foot	6.5	8.1	9.1	10.2	11.2	12.2	13.2		
Lumens/Watt	83	90	97	101	103	104	104		
			R	HYR (@4	6K)				
Nominal Lumens/Foot	250	400	500	600	700	800	900		
Delivered Lumens/Foot	388	521	632	739	827	912	987		
Input Watts/Foot	5.1	6.4	7.5	8.0	8.8	9.6	10.4		
Lumens/Watt	76	81	84	92	94	95	95		
MCV102 WARM DI									
Nominal Lumens/Foot	250	400	500	600	700	800	900		
Delivered Lumens/Foot	232	381	458	548	628	718	799		
Input Watts/Foot	3.5	4.2	5	5.7	6.5	7.4	2.4		
Lumens/Watt	66	91	92	96	97	97	333		

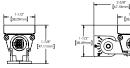


DIMENSIONS

Reference Drawing Detail section for additional information



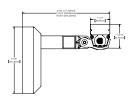






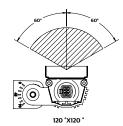
NO MOUNT (SHOWN FOR SIZE REFERENCE ONLY)

M100ADJC1 M100ADJH2 CENTER ROTATION SIDE MOUNT MOUNT



CANTILEVER MOUNT

DISTRIBUTION





SecuityBrands

sixteen5hundred Submitted By 16500, INC	Catalog Number MKS102 LCB 4FT MSL4 M100ADJC1 MCLB18 80CRI TUWH RHYR 400LMF 120X120DEG DARK MVOLT WTP NLT Notes	^{Type} 30
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ORDERING

MARKCOVE 102 Tunable White & Warm Dimming

Example: MCV102 LLP 24FT MSL4 M100ADJC1 90CRI TUWH RHYR 700LMF 120X120DEG MIN1 MVOLT WTP NLTW MFCL50TL Example: MCV102 LLP 24FT MSL4 M100CVE 90CRI WDIM HALR 700LMF 120X120DEG DARK MVOLT WTP ZT M100WP

MCV102	Series MARKCOVE IC	I	LSL L	Linear Plan inear Longest P inear Same Len inear Center Ba	igth	_FT	Total Run Lo Specify contin feet in 1' incre starting at 1' (Example: 24	nuous lin ments	iear N	VISL1	rtion Ler l' l'-6" 4'	ngth	K (blank) M100ADJC1 M100ADJH2 M100FMC M100CVE MCVE Cove mu separately.	Cable Susp Mount Adjustable Center Axis Adjustable Side Hinge Fixture Mo MCVE Mou st be purchas	Mount Mount unt unt Bracket	MCLB6 MCLB12 MCLB18	Cantilever Bra	•
Ren (blank) 80CRI*		Dyn TUWH WDIM	Tunab	eature Ne White Dimming	HALR PROR RHYR HALRisc WDIM. PROR & I	Product (3000K Rhythm	IRange -1800K) ivity Range -5000K) Range -6500K) <i>ole with</i> <i>nly</i>	250L 4001 500L 6001 700L	Lum Lum Lum MF 500 Lum MF 600 Lum MF 700	Output Nominal Do Nomina Do Nomina Do Nomina Do Nomina Do Nomina Do Nominal Do Nominal Do Nominal	Foot I Foot Foot I Foot Foot		Direct Distribut			um Dimming Lev Constant Current, Dimming to <1%	el O (blan MBFE MGVI MHCI MFCA	 Shielding Baffle Linear Surface, Black Glare Visor Linea Surface, Black Hexagonal Cell Louver, Black
347*	Voltage 120 - 277 Volt Inp 347 Volt s with a remote		s blank) FCA	Shielding Frosted Acryl Partial Frost Clear Acrylic	B S R R R R	VTP KT IT ALTBD ALTBD is fi eplace wit	Finish White Textures Black Textures Silver Textures RAL Color TE Participation of the orpricipation RAL projicable RAL projic	1 1 2	C ZT* NLIGHT** NLTAIR2** *ZT is only **NLIGHT available w with a rem ***NLT is on TUWH.	 nLigh Enable nLigh Interf available NLTAIF with WDI note drive 	v at Enabled at AIR (wire led at Enabled face le with WI 22 are on W and coil er kit.	DIM. Y	MFCL10TL MFCL10TR MFCL25TL MFCL25TR MFCL50TL MFCL100TL MFCL100TL MFCL100BL* M100BL* M100BXL or.		Feed Cable Feed Cable Feed Cable Feed Cable Feed Cable Feed Cable Feed Cable Feed Cable Splice Box Splice Box duit Whip must be sele	e (Male) (Female) e (Male) e (Male) e (Male) e (Female) e (Female) ole (Male) e (Efft Right ected with CP.	CP*	Options No Options Chicago Plenum <i>vailable with MCVE</i>

sixteen5hundred	Dynamic Lighting Showcase	Catalog Number MKS102 LCB 4FT MSL4 M100ADJC1 MCLB18 80CRI TUWH RHYR 400LMF 120X120DEG DARK MVOLT WTP NLT Notes	^{Type} 30
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PERFORMANCE DATA

Tunable White PROR Range Based on 90CRI, @40K. See website for additional IES files.

Nominal Lumens/FT	Fixture Length	Distribution	Delivered Lumens	Input Watts	Lumens/ Watt	Delivered Lumens Per Foot	Input Watts Per Foot
	1FT	120x120	617	7.05	87.52	617	7.05
250	1.5FT	120x120	935	10.24	91.31	623	6.83
	4FT	120x120	2515	26.06	96.51	629	6.52
	1FT	120x120	828	8.73	94.85	828	8.73
400	1.5FT	120x120	1254	12.68	98.90	836	8.45
	4FT	120x120	3376	32.26	104.65	844	8.07
	1FT	120x120	1004	9.85	101.93	1004	9.85
500	1.5FT	120x120	1522	14.31	106.36	1015	9.54
	4FT	120x120	4096	36.4	112.53	1024	9.10
	1FT	120x120	1175	11.04	106.43	1175	11.04
600	1.5FT	120x120	1781	16.04	111.03	1187	10.69
	4FT	120x120	4793	40.81	117.45	1198	10.20
	1FT	120x120	1315	12.08	108.86	1315	12.08
700	1.5FT	120x120	1993	17.56	113.50	1329	11.71
	4FT	120x120	5365	44.67	120.10	1341	11.17
	1FT	120x120	1450	13.2	109.85	1450	13.20
800	1.5FT	120x120	2197	19.19	114.49	1465	12.79
	4FT	120x120	5913	48.81	121.14	1478	12.20
	1FT	120x120	1570	14.32	109.64	1570	14.32
900	1.5FT	120x120	2379	20.81	114.32	1586	13.87
	4FT	120x120	6403	52.95	120.93	1601	13.24

Lumen Values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be repesentative of the configuration shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of en-user environment and application. Consult www.marklighting.com for performance data on any configurations not shown here.

Tunable White RHYR Range

Based on 90CRI, @46K. See website for addition IES files.

Nominal Lumens/FT	Fixture Length	Distribution	Delivered Lumens	Input Watts	Lumens/Watt	Delivered Lumens Per Foot	Input Watts Per Foot
	1FT	120x120	380	5.55	68.47	380	5.55
250	1.5FT	120x120	576	8.07	71.38	384	5.38
	4FT	120x120	1822	20.52	88.79	456	5.13
	1FT	120x120	511	6.87	74.38	511	6.87
400	1.5FT	120x120	774	9.99	77.48	516	6.66
	4FT	120x120	2446	25.41	96.26	612	6.35
	1FT	120x120	620	7.75	80.00	620	7.75
500	1.5FT	120x120	939	11.27	83.32	626	7.51
	4FT	120x120	2968	28.66	103.56	742	7.17
	1FT	120x120	725	8.69	83.43	725	8.69
600	1.5FT	120x120	1098	12.63	86.94	732	8.42
	4FT	120x120	3473	32.14	108.06	868	8.04
	1FT	120x120	811	9.52	85.19	811	9.52
700	1.5FT	120x120	1229	13.83	88.86	819	9.22
	4FT	120x120	3887	35.18	110.49	972	8.80
	1FT	120x120	894	10.4	85.96	894	10.40
800	1.5FT	120x120	1355	15.11	89.68	903	10.07
	4FT	120x120	4284	38.44	111.45	1071	9.61
	1FT	120x120	969	11.28	85.90	969	11.28
900	1.5FT	120x120	1467	16.39	89.51	978	10.93
	4FT	120x120	4639	41.7	111.25	1160	10.43

Lumen Values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be repesentative of the configuration shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of en-user environment and application. Consult www.marklighting.com for performance data on any configuratations not shown here.

sixteen5hundred Submitted By 16500, INC	sixteen <mark>5</mark> hundrec	Submitted By	MKS102 LCB 4FT MSL4 M100ADJC1 MCLB18 80CRI TUWH RHYR 400LMF 120X120DEG DARK MVOLT WTP NLT	^{Type} 30
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LUMEN MULTIPLIERS

CRI	ССТ	Scale factor	Shielding	Multiplie
80CRI	@27K	1.09	PFCA	0.98
80CRI	@35K	1.16	MBFB	0.42
80CRI	@50K	1.20	MFCA	0.89
90CRI	@27K	0.93	MGVB	0.70
90CRI	@35K	1	МНСВ	0.13
90CRI	@50K	1.05		

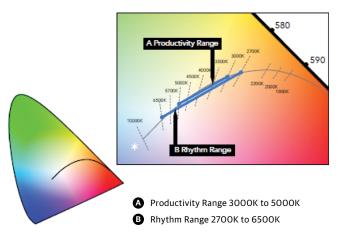
These tables can be used to approximate the lumen values at different Kelvin temperatures and Color Rendering Index. Power consumption would stay the same.

MAINSTREAM DYNAMIC TUNABLE WHITE WITH NTUNE TECHNOLOGY

Tunable white nTune[™] is an all-digital light color temperature control within an nLight enabled luminaire. This brings tunable white lighting control into the mainstream with repeatable, consistent results in an economical luminaire form and system already familiar to schools. Designers and facility operators are granted the freedom to tie scenes to specific activities or to complement colors or materials within a visual environment. nTune[™] allows color temperature settings through the Rhythm Range of 2700K to 6500K. Refer to the nLight Programming User's Guide for instructions on customizing to your application with SensorView[™].

Tunable White GPHD

- Gamut: One dimensional warm-Cool
- Path: Direct 2700K to 6500K (Rhythm Range)
- Handle: Two Natural Language Handles: Intensity and CCT
- Data: nLight with nTune technology for both handles of control



sixteen5hundred	Dynamic Lighting Showcase	Catalog Number MKS102 LCB 4FT MSL4 M100ADJC1 MCLB18 80CRI TUWH RHYR 400LMF 120X120DEG DARK MVOLT WTP NLT Notes	^{Type} 30
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PERFORMANCE DATA

Warm Dimming

Based on 90CRI, @30K. See website for additional IES files.

Nominal Lumens/FT	Fixture Length	Distribution	Delivered Lumens	Input Watts	Lumens/Watt	Delivered Lumens Per Foot	Input Watts Per Foot
	1FT	120x120	231	2.64	88	231	2.64
250	1.5FT	120x120	350	3.84	91	233	2.56
	4FT	120x120	942	9.77	96	236	2.44
	1FT	120x120	380	3.83	99	380	3.83
400	1.5FT	120x120	575	5.56	103	383	3.71
	4FT	120x120	1548	14.14	109	387	3.54
	1FT	120x120	457	4.59	100	457	4.59
500	1.5FT	120x120	692	6.66	104	461	4.44
	4FT	120x120	1862	16.95	110	466	4.24
	1FT	120x120	546	5.38	101	546	5.38
600	1.5FT	120x120	827	7.81	106	551	5.21
	4FT	120x120	2227	19.87	112	557	4.97
	1FT	120x120	626	6.2	101	626	6.20
700	1.5FT	120x120	949	9.01	105	633	6.01
	4FT	120x120	2554	22.93	111	639	5.73
	1FT	120x120	716	7.07	101	716	7.07
800	1.5FT	120x120	1084	10.28	105	723	6.85
	4FT	120x120	2919	26.15	112	730	6.54
	1FT	120x120	796	7.96	100	796	7.96
900	1.5FT	120x120	1206	11.57	104	804	7.71
	4FT	120x120	3247	29.43	110	812	7.36

Lumen Values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be repesentative of the configuration shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of en-user environment and application. Consult www.marklighting.com for performance data on any configuratations not shown here.

LUMEN MULTIPLIERS

CRI	ССТ	Scale factor
80CRI	@27K	1.09
80CRI	@30K	1.13
90CRI	@27K	0.93
90CRI	@30K	0.95

These tables can be used to approximate the lumen values at different Kelvin temperatures and Color Rendering Index. Power consumption would stay the same.

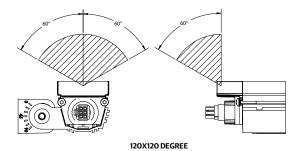
WARM DIMMING GAMUT AND RANGE

Warm Dimming GPHD

- Gamut: Triangular: to achieve efficiency and CRI
- Path: Curved tracking Black Body Curve: 3000K@100%-1800K<1% (Halogen Range)
- Handle: One Handle: Intensity (with implicit CCT)
- Data: DMX512/RDM and nLight®

DISTRIBUTION

Note: Shown with M100ADJH2 mount



4000²⁷⁰⁰ 4000³⁵⁰⁰ 4000⁴ 11/1/4 1800 A Halogen Range 3000K to 1800K

Т	Туре
MCLB18 80CRI TUWH	30



LINEAR PLAN

Mark offers the ability to provide a continuous run plan to suit your requirements by optionally offering three methods of configuration.

LLP Longest Length Possible:

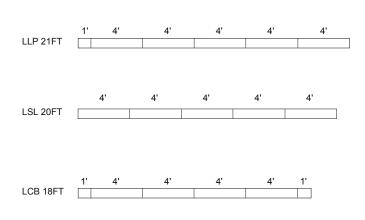
In this plan the longest length available is optimized resulting in the fewest segments and mounting locations. Caution should be used where balanced appearance is a concern. Example: 21FT row would have (5) 4FT segments and (1) 1FT segment located at one end.

LSL Longest Same Length:

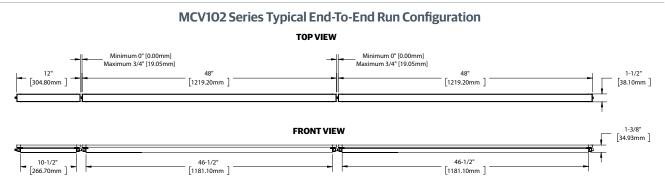
In this configuration each segment is the same length is standardized based on the longest length available and is the only option provided. Because it is dependent on one segment length there are mathematical limitations on what overall row lengths can be achieved. Example: 20FT row would be achieved with (5) 4FT long segments equaling 20FT (nominal).

LCB Longest Center Balanced:

This configuration incorporates the longest center segment(s) along with any additional lengths required to fill located at each end. Example: 18FT row would have (2) 1FT segments (one at each end) and (4) 4FT intermediate segments located in between.



DRAWING DETAILS

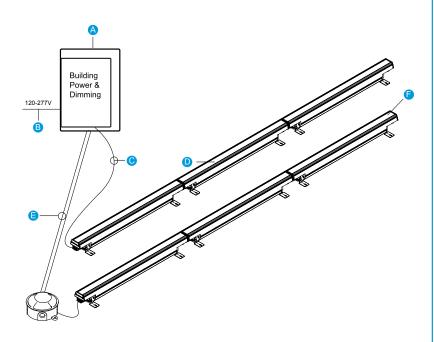


sixteen5hundred Submitted By 16500, INC	Catalog Number MKS102 LCB 4FT MSL4 M100ADJC1 MCLB18 80CRI TUWH RHYR 400LMF 120X120DEG DARK MVOLT WTP NLT Notes	^{Type} 30
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BASIC SYSTEM WIRING INFORMATION WITHOUT DMX

This very basic system wiring diagram provides an overview of components and materials required for a simple installation of MKS101 luminaires controlled by building system power (By Others). These diagrams should not be used in place of actual installation instructions or submittal drawings prepared for a specific project.



Feed Cable Wiring



*Notes

1) Cap BARE SHIELD WIRE in Junction box. (By Others)

2) When not using 0-10V dimming, cap Pink or Gray and Purple separately in the junction box. (By Others)

Luminaire installation can be as simple as a single luminaire and one control to many different luminaires in multiple locations being triggered and manipulated in real time. Consulting with the factory at the beginning stages of the project will ensure the required equipment be specified and properly installed.

- A Building power and dimming control input via 0-10V or DALI system provided by others.
- B 120V-277V input. Metallic conduit and standard fittings are compatible as are multi-conductor cords provided they are appropriate to the mounting location.
- Feed cable connects junction box or control input with first fixture in a run. 14 ga. conductors carry power, shielded 18 ga. conductors carry data. Input end is stripped for connection to the junction box, output end includes a female or male plug for fixture connection. Also included with each feed cable is a sealing cap for the end of each run.
- Consult Fixture Installation Instructions, for Luminaire Run Length Limits table.
- Power can be run to junction box locations in rigid conduit. Use Belden 9829 for data and copper wire per local code for power. Use appropriate fitting for combination cord.
- F Included with each feed cable is a sealing cap for the last luminaire in each run. See installation instructions.

Sixteen5hundred Submitted By 16500, INC	Catalog Number MKS102 LCB 4FT MSL4 M100ADJC1 MCLB18 80CRI TUWH RHYR 400LMF 120X120DEG DARK MVOLT WTP NLT Notes	^{Type} 30
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ACCESSORY OPTIONS

Jumper Cable *Optional*

Model

MJCLM2

MJCLM4

MJCLM4IN

MJCLM8IN

Feed Cables

*Minimum of one feed cable, left or right, required per installation

Model		Cord Col	or	DMX	
MFCL10TL MFCL25TL MFCL50TL MFCL100TL	Left 10FT Feed Cable Left 25FT Feed Cable Left 50FT Feed Cable Left 100FT Feed Cable	WCRD BCRD	White Cord Black Cord	DXP NDXP	DMX Plug Non-DMX Plug
MFCL10TR MFCL25TR MFCL50TR MFCL100TR	Right 10FT Feed Cable Right 25FT Feed Cable Right 50FT Feed Cable Right 100FT Feed Cable				

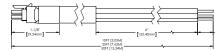
#2 WHITE

Carries DMX or NON-DMX signal and 120-277 line voltage power to right end of first fixture in run. Supplied with termination/sealing cap.

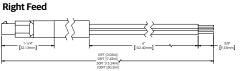
> 3/8' [9.53mm]

Use one feed cable per run only.

Left Feed



4 PURPLE 3 BLACK 22 WHTE



Right Feed DMX Terminator Cap (Included with DXP)

Left Feed DMX Terminator Cap (Included with DXP)



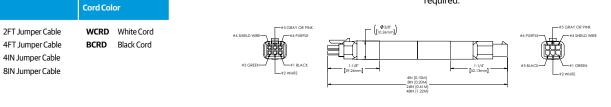
Right Feed Dust Cap

Left Feed Dust Cap (Included with NDXP)



Carries DMX or NON-DMX signal and 120-277 line voltage power between two units in a run when larger spacing between units is

required.



	Dynamic Lighting Showcase	Catalog Number MKS102 LCB 4FT MSL4 M100ADJC1 MCLB18 80CRI TUWH RHYR 400LMF 120X120DEG DARK MVOLT WTP NLT Notes	^{Type} 30
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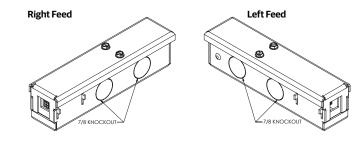


ACCESSORY OPTIONS (CONTINUED)

Wire Splice Box, *Optional*

Model		Direct Distribu	tion	Finish		DMX	
M100BXL M100BXR M100WP	M100 Wire Splice Box Left M100 Wire Splice Box Right M100 Conduit Whip	120X120DEG	120 x 120 Degrees	WTP BKT SIT RALTBD	White Textured Black Textured Silver Textured RAL Color TBD	DXP NDXP	DMX Plug Non-DMX Plug

Replaces feed cable for areas where flexible cord cannot be used to bring input DMX or NON_DMX signal and 120-277 line voltage power to right end of beginning of run. Box allows 1/2" NPT conduit fitting connection and area for building wire splice connections. Supplied with termination/sealing cap. *Use one wire splice box per run only.*



sixteen <mark>5</mark> hundrec	Dynamic Lighting Showcase	Catalog Number MKS102 LCB 4FT MSL4 M100ADJC1 MCLB18 80CRI TUWH RHYR 400LMF 120X120DEG DARK MVOLT WTP NLT Notes	^{⊤ype} 30
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ACCESSORY OPTIONS (CONTINUED)

	sor (Linear) *Optic				
		Ullai			
Model		Fixture Section	on		
MGVB1	Glare Visor, Black	U1/6 1'6"Le	ngth Unit ength Unit ength Unit		Reference Accessory Details document for dimensions
Baffle (Li	inear) *Optional*				
Model		Fixtu	e Section		
MBFB1	Baffle Linear Surface, Bl		1FT Length Unit 1' 6" Length Unit 4FT Length Unit		Reference Accessory Details document for dimensions
Hexagor	nal Cell *Optional*	k			
Model		Fixtur	re Section		
MHCB1	Hexagonal Cell Louver, E		1FT Length Unit 1' 6" Length Unit 4FT Length Unit		Reference Accessory Details document for dimensions
Frosted	Clear *Optional*				\sim
Model		Fixtu	re Section		
MFCA1	Frosted Clear Acrylic	U1 U1/6 U4	1FT Length Unit 1' 6" Length Unit 4FT Length Unit		Reference Accessory Details document for dimensions
Cantilev	er Brackets *Opti	onal*			
					~
Series			Finish		
MCLB6 MCLB12 MCLB18	Cantilever Bracket 6" P Cantilever Bracket 12" I Cantilever Bracket 18" I	Projection	SIT Silver Te White Te	rred Paint ured Paint ured Paint inch	
			RALTBD RAL Pair	IIISI	Reference Accessory Details document for dimensions

Catalog Number MKS102 LCB 4FT MSL4 M100ADJC1 MCLB18 80CRI TUWH RHYR 400LMF 120X120DEG DARK MVOLT WTP NLT Notes





MARKCOVE 102 Tunable White & Warm Dimming

SPECIFICATIONS

Voltage: 120 through 277v/60Hz Distribution: 120° X 120° (Lambertian) Size: 1.5 W x 1.75 H Housing: Extruded aluminum snap together construction Finish: Polyester powder coat painted finish. Natural stainless steel fasteners. Lens Material: Extruded acrylic LED: 12 LED diodes per foot

Ambient Temperature Ranges: -20° to +45°C

Mounting: Suitable for mounting within the space between ground and 4FT (1.2M) of the ground. Suitable for damp location applications.

Certification/Compliance: CSA Certified to meet U.S. and Canadian standards conforming to UL 1598 and CAN/CSA C22.2 No. 250.0

Buy American: This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to <u>www.acuitybrands.com/buy-american</u> for additional information.

Warranty: 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

	Catalog Number MKS501 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF WW DARK MVOLT WTP DMX NOFCL	^{Type} 31
Submitted By 16500, INC	Notes	



MARKLINE

SURFACE DYNAMIC COLOR

HIGHLIGHTS

- Small, versatile and impactful
- Extruded aluminum construction
- RGBW Red, Green, Blue, White produces saturated color and pastels
- 9 x 9, 15 x 30, 10 x 60, 30 x 60, 40 x 60, 60 x 60 or wall wash distributions
- Powerful Range 650 or 750 lumens per foot
- Efficient with up to 90 lumens per watt
- DMX with Remote Device Management
- Full compliment of mounting and shielding accessories
- Manufactured in USA

FIXTURE PERFORMANCE

MKS501 RGBW									
Distribution	ww	9x9	10x60	15x30	30x60	40x60	60x60		
Delivered Lumens/Foot	650	631	632	814	833	772	826		
Input Watts/Foot	8.95	11.86	11.86	8.95	8.95	8.95	8.95		
Lumens/Watt	73	53	53	91	93	86	73		
*Decodiers a 4ft 7FOLME f									

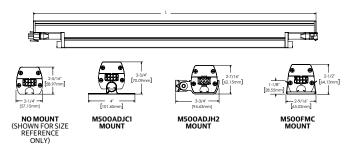
*Based on a 4ft, 750LMF fixture.

SPECIFICATIONS

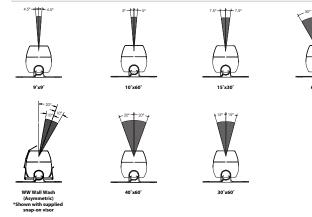


DIMENSIONS

Reference Drawing Detail section for additional information



STANDARD DISTRIBUTION





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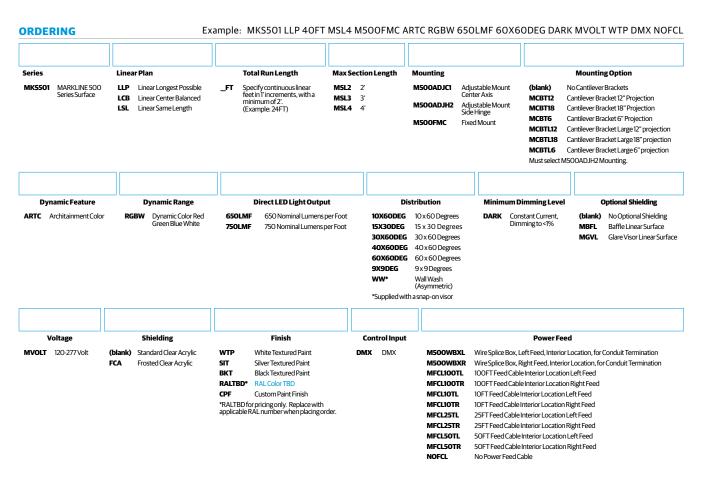


ScuityBrands

MKS501_RGBW 03/10/21

Dynamic Lighting Showcase	Catalog Number MKS501 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF WW DARK MVOLT WTP DMX NOFCL	^{туре} 31
Submitted By 16500, INC	Notes	

MARKLINE Surface Dynamic Color



Model	Length	Weight
MKS501	24-1/4" (616 mm)	3.5 lbs (1.59 kg)
	36-1/8" (918 mm)	4.0 lbs (1.81 kg)
	48" (1219 mm)	5.0 lbs (2.27 kg)

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💥 MAINSTREAM <u>DY</u>NAMIC

Dynamic Lighting Showcase	Catalog Number MKS501 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF WW DARK MVOLT WTP DMX NOFCL	^{Type} 31
Submitted By 16500, INC	Notes	

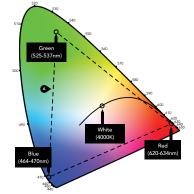


PERFORMANCE DATA

Lumens Per Foot	Fixture Length	Distribution	Delivered Lumens	Input Watts	Lumen/ Watt	Delivered Lumens Per Foot	Input Watts Per Foot	Lumens Per Foot	Fixture Length	Distribution	Delivered Lumens	Input Watts	Lumen/ Watt	Delivered Lumens Per Foot	Input Watts Per Foot
	2FT	9x9	1214	22.9	53	607	11.45		2FT	9x9	1410	28.8	49	705	14.40
	2FT	10x60	1216	22.9	53	608	11.45		2FT	10x60	1413	28.8	49	707	14.40
	2FT	15x30	1288	16.04	80	644	8.02		2FT	15x30	1536	19.19	80	768	9.60
	2FT	30x60	1317	16.04	82	659	8.02		2FT	30x60	1571	19.19	82	786	9.60
	2FT	40x60	1220	16.04	76	610	8.02		2FT	40x60	1456	19.19	76	728	9.60
	2FT	60x60	1306	16.04	81	653	8.02		2FT	60x60	1557	19.19	81	779	9.60
	2FT	WWD	1028	16.04	64	514	8.02		2FT	WWD	1226	19.19	64	613	9.60
	3FT	9x9	1716	32.99	52	572	11.00		3FT	9x9	1994	41.49	48	665	13.83
	3FT	10x60	1719	32.99	52	573	11.00		3FT	10x60	1997	41.49	48	666	13.83
	3FT	15x30	2007	22.72	88	669	7.57		3FT	15x30	2394	28.51	84	798	9.50
650	3FT	30x60	2052	22.72	90	684	7.57	750	3FT	30x60	2448	27.19	90	816	9.06
	3FT	40x60	1901	22.72	84	634	7.57		3FT	40x60	2268	27.19	83	756	9.06
	3FT	60x60	2034	22.72	90	678	7.57		3FT	60x60	2427	27.19	89	809	9.06
	3FT	WWD	1602	22.72	71	534	7.57		3FT	WWD	1911	27.19	70	637	9.06
	4FT	9x9	2174	37.7	58	544	9.43		4FT	9x9	2525	47.42	53	631	11.86
	4FT	10x60	2177	37.7	58	544	9.43		4FT	10x60	2529	47.42	53	632	11.86
	4FT	15x30	2731	29.91	91	683	7.48		4FT	15x30	3257	35.78	91	814	8.95
	4FT	30x60	2792	29.91	93	698	7.48		4FT	30x60	3331	35.78	93	833	8.95
	4FT	40x60	2587	29.91	86	647	7.48		4FT	40x60	3086	35.78	86	772	8.95
	4FT	60x60	2768	29.91	93	692	7.48		4FT	60x60	3302	35.78	92	826	8.95
	4FT	WWD	2180	29.91	73	545	7.48		4FT	WWD	2600	35.78	73	650	8.95

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Contact factory for performance data on any configurations not shown here.

RGBW GAMUT AND RANGE



A RGBW Range within triangle formed by RGB

- The Gamut of a luminaire determines the potential color range, specifically the dominant wavelength of each primary color.The Path determines the range of colors the user can select for

the luminaire.

- ARCHITAINMENT COLOR GPHD Gamut Triangular Path Full RGB gamut Handle Four Handles: Red, Green, Blue, White Data DMX512/RDM

The RGBW Range reaches the full range of saturated colors and subtle pastels to create bold transformational effects.



Bynamic Eignnig Onowcase	Catalog Number MKS501 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF WW DARK MVOLT WTP DMX NOFCL	^{Type} 31
 Submitted By 16500, INC	Notes	

MARKLINE Surface Dynamic Color

LINEAR PLAN

Mark offers the ability to provide a continuous run plan to suit your requirements by optionally offering three methods of configuration.

LLP Longest Length Possible:

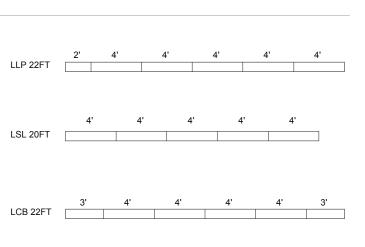
In this plan the longest length available is optimized resulting in the fewest segments and mounting locations. Caution should be used where balanced appearance is a concern. Example: 22FT row would have (5) 4FT segments and (1) 2FT segment located at one end.

LSL Longest Same Length:

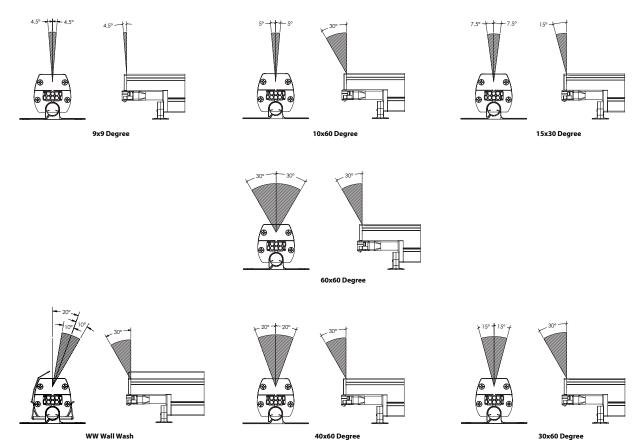
In this configuration each segment is the same length is standardized based on the longest length available and is the only option provided. Because it is dependent on one segment length there are mathematical limitations on what overall row lengths can be achieved. Example: 20FT row would be achieved with (5) 4FT long segments equaling 20FT (nominal).

LCB Longest Center Balanced:

This configuration incorporates the longest center segment(s) along with any additional lengths required to fill located at each end. Example: 22FT row would have (2) 3FT segments (one at each end) and (4) 4FT intermediate segments located in between.



DISTRIBUTION



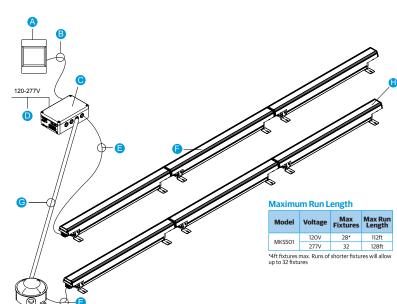
(Asymmetric) *Shown with supplied snap-on visor

		Catalog Number MKS501 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF WW DARK MVOLT WTP DMX NOFCL	^{Type} 31
<u> </u>	Submitted By 16500, INC	Notes	

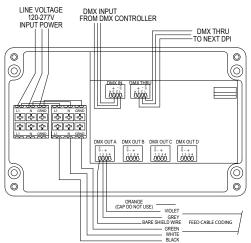
MARKLINE Surface Dynamic Color

BASIC SYSTEM WIRING INFORMATION WITH DMX

This very basic system wiring diagram provides an overview of components and materials required for a simple installation of MKS501 luminaires controlled by a DMX controller. These diagrams should not be used in place of actual installation instructions or submittal drawings prepared for a specific project.



Power & DMX Connection in DPI Box



A dynamic luminaire installation can be as simple as a single luminaire and one control to many different luminaires in multiple locations being triggered and manipulated in real time. Consulting with the factory at the beginning stages of the project will ensure the required equipment be specified and properly installed.

Note: For multiple runs and multiple DPI boxes, consult factory.

Note: No more than four DPI Boxes, in series, can be utilized between the DMX Controller and any luminaire.

A DMX controller providing one universe of DMX-512 control.

To supply a complete system RDM set-up and playback control solution, use:

Easyl

• Three versions available from entry-level to show creation using computer software

Full color LCD touchscreen

Recall colors, shows, and effects with one touch
Fresco

Manage multiple light sources in multiple lighting

zones, all from one controller

 On screen lighting design and set-up, no computer required or Ethernet connection for remote configuration and advanced control

 All device settings are stored on-board in non-volatile memory

- B Belden 9829 cable is the preferred communication/ data cable used to carry the DMX signal to and from the DPI Box. The total length of this cable must not exceed 1000 feet from the DMX controller to the DPI Box. No luminaires should be installed between DMX Controller and any DPI Box.
- DPI box (Data Power Integration) is used to bundle DMX to line voltage and deliver them to the luminaire. This box provides necessary isolation between the DMX control and line voltage and is required for all MKS501 installations. The DPI box also serves as a 4-channel splitter enabling up to 128 fixtures to be controlled from a single DPI box. Refer to DPI Installation Sheet for dimensions and mounting details.

120V-277V input to DPI box. Metallic conduit and standard fittings are compatible as are multi-conductor cords provided they are appropriate to the mounting location.

Feed cable connects junction box with first fixture in a run. 14 ga. conductors carry power, shielded 18 ga. conductors carry data. Input end is stripped for connection to the Junction or DPI box, output end includes a male or female plug for fixture connection. Also included with each feed cable is a termination/ sealing cap for the end of each run. Contact factory for availability of custom feed cable lengths.

F A maximum of 32 luminaires can be connected to a single output channel of the DPI box. The maximum length of cord and luminaire run combined is 1000 feet per DMX/ RDM specification.

Power and Data can be run to junction box locations in rigid conduit. Use Belden 9829 for data and copper wire per local code for power. Use appropriate fitting for combination cord.

H To ensure data integrity, a termination/sealing cap with 120 Ohm resistor is required at the last luminaire in each run. See installation instructions.

Easyl Controller Fresco Control System



sixteen <mark>5</mark> hundre	Dynamic Lighting Showcase	Catalog Number MKS501 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF WW DARK MVOLT WTP DMX NOFCL	Type 31
		Notes	



ACCESSORY OPTIONS

Fresco Control System

Series	Model	Options	Finish	froo
FCS Fresco Control System	7TSN 7" touchscreen with nLight port	(blank) nlight only X DMX/RDM control	DBL Black DWH White	
Refer to FRESCO spec sheet fo	radditional details and o	ntions	DNA Natural Aluminum	

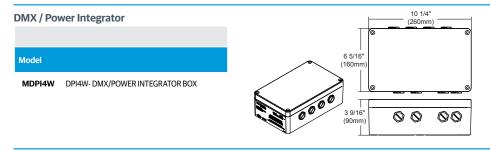
Refer to <u>FRESCO</u> spec sheet for additional details and options

Easyl™	LED Show Controller with LCD touchscreen (integral power supply)
--------	--

Series	Voltage	Finish
EZSOLOEasyl SoloEZTOUCHEasyl TouchEZPROEasyl Pro	MVOLT 120V-277V VAC, 50/60 Hz	BK Black WH White

Refer to **EASYL** spec sheet for additional details and options

Feed Cable, Right Feed (Female Plug)



Integrates DMX signal & 120-277 line voltage onto a single cable. Exterior rated, up to 4 output feeds, Silver Textured Finish.

Environmental Information

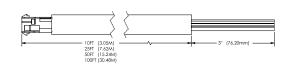
Storage Temperature	40°F - 185°F
Start-up Temperature	13°F - 122°F
Operating Temperature	13°F - 122°F
Ingress Protection Rating	IP65
Environment	Suitable for indoor and outdoor applications

Carries DMX signal and 120-277 line voltage power to right end of first fixture in run. Supplied with termination/sealing cap. *Use one feed cable per run only.*

Model	
MFCL10TR BCRD DXP	10FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (Black)
MFCL25TR BCRD DXP	25FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (Black)
MFCL50TR BCRD DXP	50FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (Black)
MFCL100TR BCRD DXP	100FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (Black)
MFCL10TR WCRD DXP	10FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (White)
MFCL25TR WCRD DXP	25FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (White)
MFCL50TR WCRD DXP	50FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (White)
MFCL100TR WCRD DXP	100FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (White)

*Minimum of one feed cable, left or right, required per installation







Bynamio Eignang Onowodoc	Catalog Number MKS501 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF WW DARK MVOLT WTP DMX NOFCL	^{Type} 31
Submitted By 16500, INC	Notes	



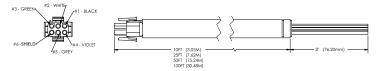
ACCESSORY OPTIONS (CONTINUED)

Feed Cable, Left Feed (Male Plug) *Minimum of one feed cable, left or right, required per installation

Model	
MFCL10TL BCRD DXP	10FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (Black)
MFCL25TL BCRD DXP	25FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (Black)
MFCL50TL BCRD DXP	50FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (Black)
MFCL100TL BCRD DXP	100FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (Black)
MFCL10TL WCRD DXP	10FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (White)
MFCL25TL WCRD DXP	25FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (White)
MFCL50TL WCRD DXP	50FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (White)
MFCL100TL WCRD DXP	100FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (White)

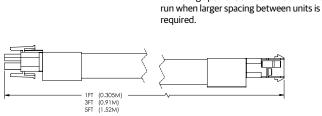
Jumper Cable *Optional*

Model	
MJCLWIT BCRD MJCLW3T BCRD MJCLW5T BCRD MJCLWIT WCRD MJCLW3T WCRD	1FT Jumper Cable Interior Location (Black) 3FT Jumper Cable Interior Location (Black) 5FT Jumper Cable Interior Location (Black) 1FT Jumper Cable Interior Location (White) 3FT Jumper Cable Interior Location (White)
MJCLW5T WCRD	5FT Jumper Cable Interior Location (White)



Carries DMX signal and 120-277 line voltage power to left end of first fixture in run. Supplied with termination/sealing cap. *Use one feed cable per run only.*

Carries DMX or NON-DMX signal and 120-277 line voltage power between two units in a





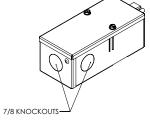
	Catalog Number MKS501 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF WW DARK MVOLT WTP DMX NOFCL	^{Type} 31
Submitted By 16500, INC	Notes	



ACCESSORY OPTIONS (CONTINUED)

Wire Splice Box, Right Feed (Female Plug), *Optional* *Minimum of one wire splice box, left or right, required for installation

Model	
M500WBXR DXP	Wire Splice Box w/ Sealing Cap, Right Feed, Interior Location (Galvanized Steel)
M500WBXR WTPP DXP	Wire Splice Box,w/ Sealing Cap, Right Feed, Interior Location (White)

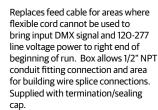


Replaces feed cable for areas where flexible cord cannot be used to bring input DMX signal and 120-277 line voltage power to right end of beginning of run. Box allows 1/2" NPT conduit fitting connection and area for building wire splice connections. Supplied with termination/sealing cap.

Use one wire splice box per run only.

Wire Splice Box, Left Feed (Male Plug), *Optional* *Minimum of one wire splice box, left or right, required for installation

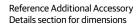
Model		ļ
M500WBXL DXP	Wire Splice Box,w/ Sealing Cap, Left Feed, Interior Location (Galvanized Steel)	7/8 KNOCKOUT—
M500WBXL WTPP DXP	Wire Splice Box,w/ Sealing Cap, Left Feed, Interior Location (White)	



Use one wire splice box per run only.

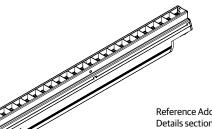
Glare Visor (Linear) *Optional*

Model	Fixtu	re Section	Finish	
MGVL5 Glare Visor Linear Surface	U2 U3 U4	2FT Length Unit 3FT Length Unit 4FT Length Unit	BKT SIT WTP RALTBD CPF	Black Textured Paint Silver Textured Paint White Textured Paint RAL Paint Finish Custom Painted Finish



Baffle (Linear) *Optional*

Model		Fixtu	re Section
MBFL5	Baffle Linear Surface (Available in matte black finish only)	U2 U3 U4	2FT Length Unit 3FT Length Unit 4FT Length Unit



Reference Additional Accessory Details section for dimensions



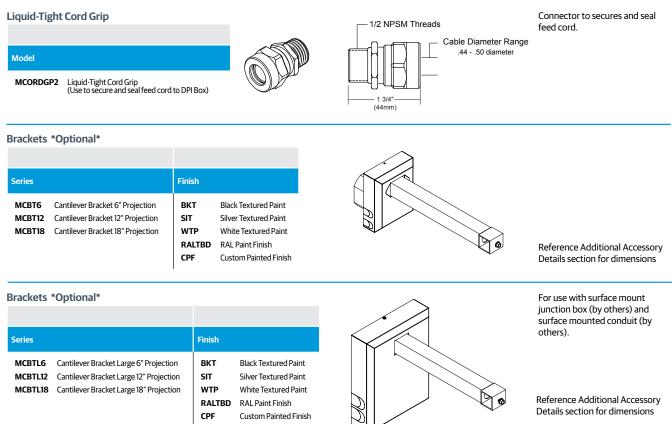
Dynamic Lighting Showcase	Catalog Number MKS501 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF WW DARK MVOLT WTP DMX NOFCL	^{Type} 31
Submitted By 16500, INC	Notes	



MARKLINE Surface

Dynamic Color

ACCESSORY OPTIONS (CONTINUED)



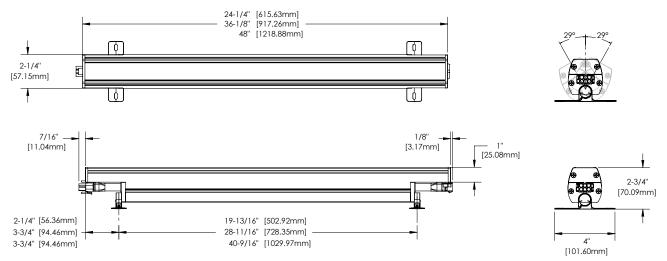


	Dynamic Lighting Showcase	Catalog Number MKS501 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF WW DARK MVOLT WTP DMX NOFCL	^{Type} 31
-		Notes	

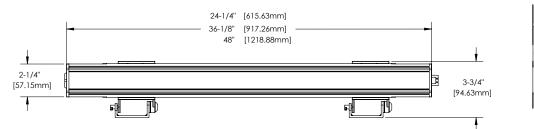


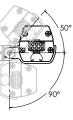
DRAWING DETAILS

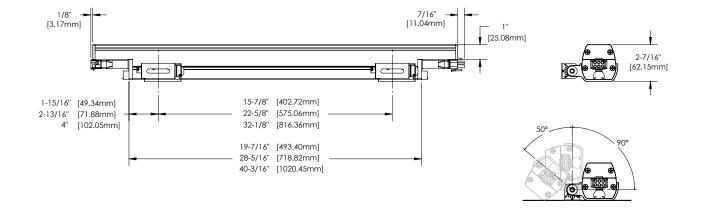
M500ADJC1 - Adjustable Mount Center Axis



M500ADJH2 - Adjustable Mount Side Hinge



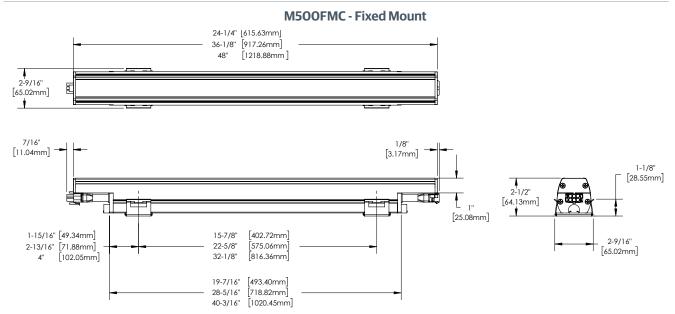




Dynamic Lighting Showcase	Catalog Number MKS501 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF WW DARK MVOLT WTP DMX NOFCL	^{Type} 31
Submitted By 16500, INC	Notes	



DRAWING DETAILS (CONTINUED)



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💥 MAINSTREAM DYNAMIC

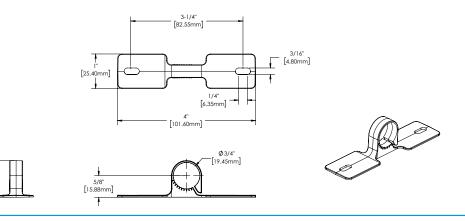
	Dynamic Lighting Showcase	Catalog Number MKS501 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF WW DARK MVOLT WTP DMX NOFCL	^{Type} 31
C	Submitted By 16500, INC	Notes	

MARKLINE Surface Dynamic Color

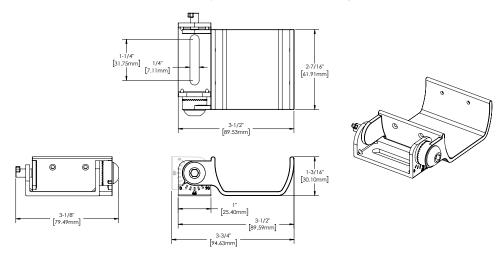
DRAWING DETAILS (CONTINUED)

1-1/16 26.99mr

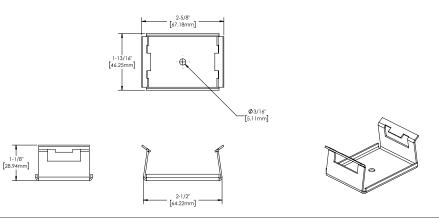
M500ADJC1 - Adjustable Mount Center Axis Detail



M500ADJH2 - Adjustable Mount Side Hinge Detail



M500FMC - Fixed Mount Detail

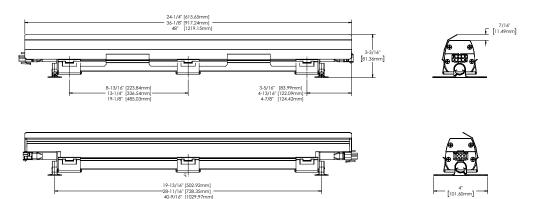


	Dynamic Lighting Showcase	Catalog Number MKS501 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF WW DARK MVOLT WTP DMX NOFCL	^{Type} 31
-	Submitted By 16500, INC	Notes	

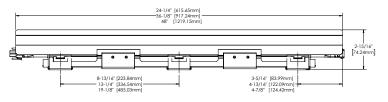
MARKLINE Surface Dynamic Color

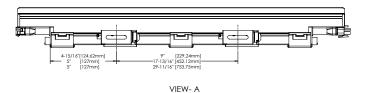
DRAWING DETAILS (CONTINUED)

WW Asymmetric Glare Visor with M500ADJC1 Mount *Automatically included when WW distribution is ordered.*



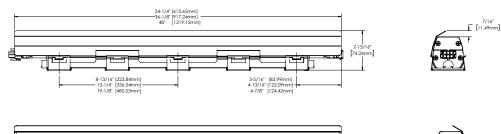
WW Asymmetric Glare Visor with M500ADJH2 Mount *Automatically included when WW distribution is ordered.*





7/16" [11.49mm]

WW Asymmetric Glare Visor with M500FMC Mount *Automatically included when WW distribution is ordered.*



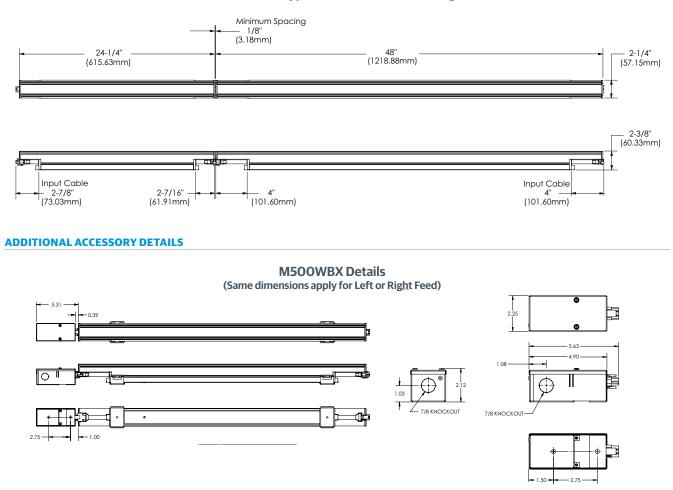


sixteen <mark>5</mark> hundrec	Dynamic Lighting Showcase	Catalog Number MKS501 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF WW DARK MVOLT WTP DMX NOFCL	^{Type} 31	
	Submitted By 16500, INC	Notes		

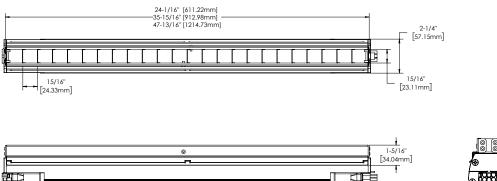
MARKLINE Surface Dynamic Color

DRAWING DETAILS (CONTINUED)

MKS501 Series Typical End-To-End Run Configuration



Baffle Linear Surface





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ГIJ

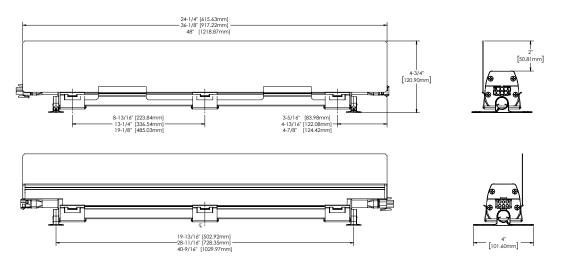
15

	Dynamic Lighting Showcase	Catalog Number MKS501 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF WW DARK MVOLT WTP DMX NOFCL	^{Type} 31
Ğ		Notes	

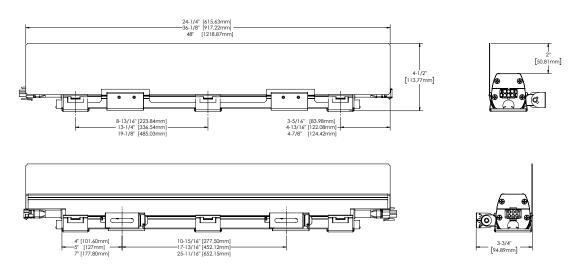


ADDITIONAL ACCESSORY DETAILS (CONTINUED)

Glare Visor with M500ADJC1 Mount



Glare Visor with M500ADJH2 Mount



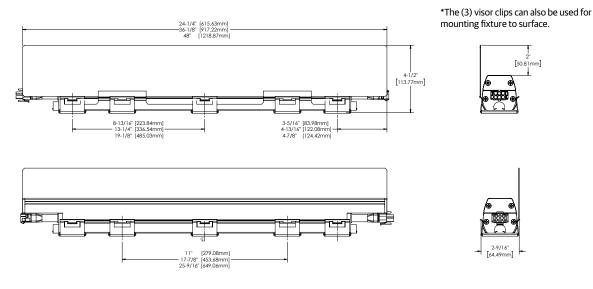


sixteen <mark>5</mark> hundred	Dynamic Lighting Showcase	Catalog Number MKS501 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF WW DARK MVOLT WTP DMX NOFCL	^{Type} 31
	Submitted By 16500, INC	Notes	

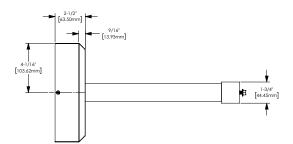


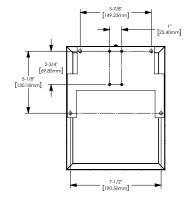
ADDITIONAL ACCESSORY DETAILS (CONTINUED)

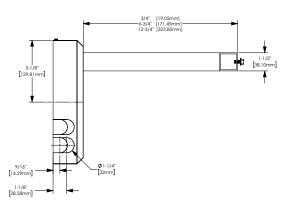
Glare Visor with M500FMC Mount

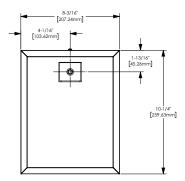


Cantilever Bracket Large Detail







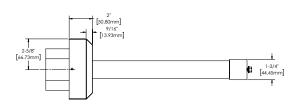


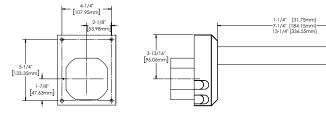
sixteen5hundred	Dynamic Lighting Showcase	Catalog Number MKS501 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF WW DARK MVOLT WTP DMX NOFCL	^{Type} 31
<u> </u>		Notes	

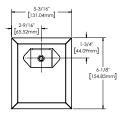
MARKLINE Surface Dynamic Color

ADDITIONAL ACCESSORY DETAILS (CONTINUED)

Cantilever Bracket Detail

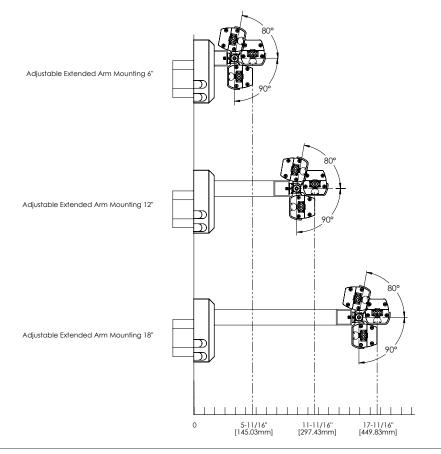






Cantilever Bracket Detail with M500ADJH2 and Fixture

1-1/2 [38.10m



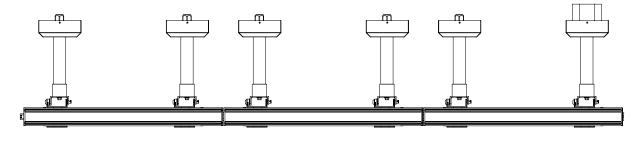


Dynamic Lighting Showcase	Catalog Number MKS501 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF WW DARK MVOLT WTP DMX NOFCL	^{Type} 31
Submitted By 16500, INC	Notes	

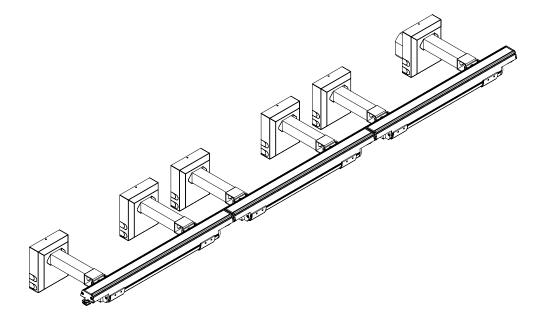


ADDITIONAL ACCESSORY DETAILS (CONTINUED)

MKS501 Series Typical End-To-End Run Configuration with Cantilever Brackets (Showing 6-foot run of (3) 2-foot units with MCBT12 bracket accessory









ixteen <mark>5</mark> hundred	Dynamic Lighting Showcase	Catalog Number MKS501 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF WW DARK MVOLT WTP DMX NOFCL	^{туре} 31
C	Submitted By 16500, INC	Notes	

MARKLINE Surface Dynamic Color

SPECIFICATIONS

Si

Voltage: 120 through 277v/60Hz

Distribution: 9° x 9°, 10° x 60°, 15° x 30°, 30° x 60°, 40° x 60°, 60° x 60°, Asymmetric Wall Wash

Size: 2.25 W x 2.31 H

Housing: Extruded aluminum snap together construction

Finish: Polyester powder coat painted finish. Black oxide fastener color with BKT finish and natural stainless steel fastener color with WTP & SIT finishes

Lens Material: Extruded acrvlic

Lumen Maintenance: (9° x 9°. 10° x 60°): 60.000 hours L70 @ +120deg C (15° x 30°, 30° x 60°, 40° x 60°, 60° x 60°, WWD): 120,000 hours L70@ +55deg C

LED Color Mix: 12 LEDs per 12 inches in a 1:1 ratio (1xRed, 1xGreen, 1xBlue, 1xWhite) Lumiled Color Wavelengths: RED (620-634nm), GREEN (525-537nm), BLUE (464-470nm), WHITE (4000K)

Control System: Easyl or Fresco DMX512 controller Ambient Temperature Ranges: -40° to +45°C

Mounting: Suitable for mounting within the space between ground and 4FT (1.2M) of the ground. Suitable for damp location applications.

Certification/Compliance: CSA Certified to meet U.S. and Canadian standards conforming to UL 1598 and CAN/CSA C22.2 No. 250.0

Weight: 24" - 3.5 lbs (1.59 kg) / 36" - 4.0 lbs (1.81 kg) / 48" - 5.0 lbs (2.27 kg)

Buy American: This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FARS, DFARS and DOT. Please refer to www.acuitybrands.com/resources/buy-american for additional information.

Warranty: 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-conditions

Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25°C. Specifications subject to change without notice.

Assembled in America: Buy American Act Compliant



	Catalog Number MKS501 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF WW DARK MVOLT WTP DMX NOFCL	^{Туре} 32
Submitted By 16500, INC	Notes	

MARKLINE SURFACE

TUNABLE WHITE & WARM DIMMING

HIGHLIGHTS

- Small, versatile and impactful
- Extruded aluminum construction
- 9 x 9, 15 x 30, 10 x 60, 30 x 60, 40 x 60, 60 x 60 or wall wash distributions
- Tunable White available in Rhythm Range (2700-6500K) or Layers Range (2200-5000K) incorporate warm-neutralcool LEDs
- Warm Dimming Golden Range from (3000-2200K)
- Wide and Powerful Range 300, 450, 600, 750 or 1000 lumens per foot
- DMX with Remote Device Management
- Efficient with up to 119 lumens per watt
- Full compliment of mounting and shielding accessories
- Manufactured in USA

FIXTURE PERFORMANCE

MKS501							
Distribution	ww	9x9	10x60	15x30	30x60	40x60	60x60
Delivered Lumens/Foot	612	957	959	764	783	726	777
Input Watts/Foot	8.06	8.94	8.94	8.06	8.06	8.06	8.06
Lumens/Watt	76	107	107	95	97	90	96

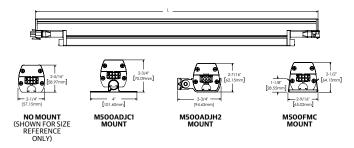
*Based on a 4ft, 80CRI, TUWH, RHYR, 1000LMF fixture.

SPECIFICATIONS

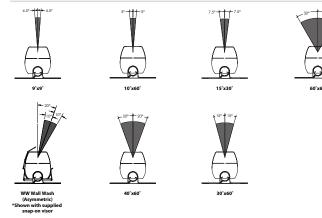


DIMENSIONS

Reference Drawing Detail section for additional information



STANDARD DISTRIBUTION





	Dynamic Lighting Showcase	Catalog Number MKS501 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF WW DARK MVOLT WTP DMX NOFCL	^{⊤ype} 32
Ŭ		Notes	

MARKLINE

Surface Tunable White & Warm Dimming

Series MKS501 MARKline50 Series Surface	0 LLP	ar Plan Linear Longest P	ossible			Max Se MSL2		Mounting M500ADJC1	Adjustable Mount Center Axis	(blank)	Mounting O	ption ckets	
Series surface	^e LCB LSL	Linear Center Ba Linear Same Len		(Example:	of 2'.	MSL3 MSL4		M500ADJH2 M500FMC	Adjustable Mount Side Hinge Fixed Mount	MCBT12 MCBT18 MCBT6 MCBTL12 MCBTL18 MCBTL6 Must select	Cantilever Bracke Cantilever Bracke Cantilever Bracke Cantilever Bracke Cantilever Bracke Cantilever Bracke 500SDJH2 mountii	t 18" Project t 6" Project t Large 12" t Large 18" t Large 6" p	tion ion projection projection
Direct Light Source Color Rendering	Dynan	nic Feature	Dyr	namic Range	Dir	ect LED Ligh	t Output	Dist	tribution	Minimum	Dimming Level	Option	al Shielding
BOCRI 80CRI 9OCRI 90CRI "Not available in LAYR.		īunable White Warm Dimming	GOLR* LAYR RHYR *Only ava	Golden Range (2200K-3000K) Layers Range (2200K-S000K) Rhythm Range (2700K-6500K) ailable with WDIM	300LMF 450LMF 600LMF 750LMF 1000LMF	450 Nominal 600 Nomina 750 Nominal	I Lumens per Foot Lumens per Foot I Lumens per Foot Lumens per Foot al Lumens per Foot	10X60DEG 15X30DEG 30X60DEG 60X60DEG 6X60DEG 9X9DEG WW* *Supplied with	10 x 60 Degrees 15 x 30 Degrees 30 x 60 Degrees 40 x 60 Degrees 60 x 60 Degrees 6 x 6 Degrees 9 x 9 Degrees Wall Wash (Asymmetric) hasnap on visor.		onstant Current, mming to <1%	(blank) MBFL MGVL	No Optiona Sheilding Baffle Linea Surface Glare Visor Linear Surface
Voltage		Shielding		Finish			Control Input			Power Fe	eed		
MVOLT 120-277 Volt	(blank) FCA	Standard Clear Acrylic Frosted Clear Acrylic		White Textured Silver Textured Black Textured BB* RAL Color TBC Custom Paint F BD for pricing only. R able RAL number who	l Paint l Paint Finish eplace with		DMX 0-10V ble with TUWH only able with WDIM only		 Wire Splice Box, 100FT Feed Cali 100FT Feed Cabi 10FT Feed Cabi 10FT Feed Cabi 25FT Feed Cabi 25FT Feed Cabi 50FT Feed Cabi 	Right Feed, Inte ole Interior Locati ole Interior Locatio e Interior Locatio e Interior Locatio e Interior Locatio e Interior Locatio e Interior Locatio e Interior Locatio	ion Right Feed in Left Feed in Right Feed in Left Feed in Right Feed in Left Feed		

Model	Length	Weight
	24-1/4" (616 mm)	3.5 lbs (1.59 kg)
MKS501	36-1/8" (918 mm)	4.0 lbs (1.81 kg)
	48" (1219 mm)	5.0 lbs (2.27 kg)



BY ACUITY BRAN

sixteen5hundrec	Dynamic Lighting Showcase	Catalog Number MKS501 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF WW DARK MVOLT WTP DMX NOFCL	^{Type} 32
	Submitted By 16500, INC	Notes	

MARKLINE

Surface Tunable White & Warm Dimming

PERFORMANCE DATA

Tunable White RHYR Range

Lumens Per Foot	Fixture Length	Distribution	CCT/CRI 2700K/80	Input Watts 2700K/80	Delivered Lumens Per Foot	input Watts Per Foot	CCT/CRI 4000K/80	Input Watts 4000K/80	Delivered Lumens Per Foot	Input Watts Per Foot	CCT/CRI 6500K/80	Input Watts 6500K/80	Delivered Lumens Per Foot	Input Watts Per Foot
	4FT	9x9	1207	17.94	302	4.49	1229	14.07	307	3.52	1281	14.03	320	3.51
	4FT	10x60	1209	17.94	302	4.49	1231	14.07	308	3.52	1284	14.03	321	3.51
	4FT	15x30	1371	17.39	343	4.35	1583	15.91	396	3.98	1714	15.09	429	3.77
300	4FT	30x60	1401	17.39	350	4.35	1618	15.91	405	3.98	1752	15.09	438	3.77
	4FT	40x60	1298	17.39	325	4.35	1499	15.91	375	3.98	1623	15.09	406	3.77
	4FT	60x60	1389	17.39	347	4.35	1604	15.91	401	3.98	1737	15.09	434	3.77
	4FT	WWD	1094	17.39	274	4.35	1263	15.91	316	3.98	1368	15.09	342	3.77
	4FT	9x9	1693	22.26	423	5.57	1724	17.45	431	4.36	1797	17.41	449	4.35
	4FT	10x60	1696	22.26	424	5.57	1727	17.45	432	4.36	1800	17.41	450	4.35
	4FT	15x30	1651	31.84	413	7.96	1906	29.13	477	7.28	2064	27.63	516	6.91
450	4FT	30x60	1688	31.84	422	7.96	1949	29.13	487	7.28	2111	27.63	528	6.91
	4FT	40x60	1564	31.84	391	7.96	1806	29.13	452	7.28	1956	27.63	489	6.91
	4FT	60x60	1673	31.84	418	7.96	1932	29.13	483	7.28	2092	27.63	523	6.91
	4FT	WWD	1318	31.84	330	7.96	1522	29.13	381	7.28	1648	27.63	412	6.91
	4FT	9x9	2193	27.97	548	6.99	2233	21.93	558	5.48	2328	21.88	582	5.47
	4FT	10x60	2197	27.97	549	6.99	2237	21.93	559	5.48	2332	21.88	583	5.47
	4FT	15x30	2007	25.2	502	6.30	2317	23.06	579	5.77	2509	21.87	627	5.47
600	4FT	30x60	2052	25.2	513	6.30	2369	23.06	592	5.77	2566	21.87	642	5.47
	4FT	40x60	1901	25.2	475	6.30	2195	23.06	549	5.77	2377	21.87	594	5.47
	4FT	60x60	2034	25.2	509	6.30	2349	23.06	587	5.77	2543	21.87	636	5.47
	4FT	WWD	1602	25.2	401	6.30	1850	23.06	463	5.77	2003	21.87	501	5.47
	4FT	9x9	2693	34.3	673	8.58	2742	26.89	686	6.72	2859	26.83	715	6.71
	4FT	10x60	2697	34.3	674	8.58	2747	26.89	687	6.72	2864	26.83	716	6.71
	4FT	15x30	2389	32.19	597	8.05	2759	29.45	690	7.36	2988	27.94	747	6.99
750	4FT	30x60	2443	32.19	611	8.05	2822	29.45	706	7.36	3055	27.94	764	6.99
	4FT	40x60	2264	32.19	566	8.05	2614	29.45	654	7.36	2830	27.94	708	6.99
	4FT	60x60	2422	32.19	606	8.05	2797	29.45	699	7.36	3029	27.94	757	6.99
	4FT	WWD	1907	32.19	477	8.05	2203	29.45	551	7.36	2385	27.94	596	6.99
	4FT	9x9	3402	47.85	851	11.96	3464	37.51	866	9.38	3612	37.42	903	9.36
	4FT	10x60	3407	47.85	852	11.96	3470	37.51	868	9.38	3618	37.42	905	9.36
	4FT	15x30	2795	40.36	699	10.09	3228	36.94	807	9.24	2495	35.03	624	8.76
1000	4FT	30x60	2858	40.36	715	10.09	3301	36.94	825	9.24	3574	35.03	894	8.76
	4FT	40x60	2648	40.36	662	10.09	3058	36.94	765	9.24	3311	35.03	828	8.76
	4FT	60x60	2834	40.36	709	10.09	3272	36.94	818	9.24	3543	35.03	886	8.76
	4FT	WWD	2231	40.36	558	10.09	2577	36.94	644	9.24	2790	35.03	698	8.76

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Contact factory for performance data on any configurations not shown here.

IES data is available at www.winonalighting.com. Refer to website for the latest IES file updates.



sixteen5hundrec	Dynamic Lighting Showcase		^{⊤ype} 32
C	Submitted By 16500, INC	Notes	

MARKLINE

Surface Tunable White & Warm Dimming

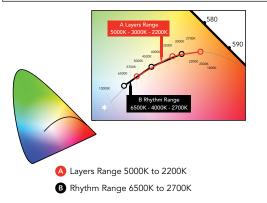
PERFORMANCE DATA

Tunable White LAYR Range

Lumens Per Foot	Fixture Length	Distribution	CCT/CRI 2200K/80	Input Watts 2200K/80	Delivered Lumens Per Foot	Input Watts Per Foot	CCT/CRI 3500K/80	Input Watts 3500K/80	Delivered Lumens Per Foot	Input Watts Per Foot	ССТ/СRI 5000К/80	Input Watts 5000K/80	Delivered Lumens Per Foot	Input Watts Per Foot
	4FT	9x9	816	12.74	204	3.19	934	9.94	234	2.49	929	9.42	232	2.36
	4FT	10x60	818	12.74	205	3.19	935	9.94	234	2.49	930	9.42	233	2.36
	4FT	15x30	703	12.74	176	3.19	804	9.94	201	2.49	799	9.42	200	2.36
300	4FT	30x60	718	12.74	180	3.19	822	9.94	206	2.49	817	9.42	204	2.36
	4FT	40x60	666	12.74	167	3.19	761	9.94	190	2.49	757	9.42	189	2.36
	4FT	60x60	712	12.74	178	3.19	815	9.94	204	2.49	810	9.42	203	2.36
	4FT	WWD	550	12.74	138	3.19	629	9.94	157	2.49	626	9.42	157	2.36
	4FT	9x9	1358	19.32	340	4.83	1554	15.08	389	3.77	1545	14.28	386	3.57
	4FT	10x60	1361	19.32	340	4.83	1556	15.08	389	3.77	1547	14.28	387	3.57
	4FT	15x30	1169	19.32	292	4.83	1337	15.08	334	3.77	1329	14.28	332	3.57
450	4FT	30x60	1195	19.32	299	4.83	1367	15.08	342	3.77	1359	14.28	340	3.57
	4FT	40x60	1107	19.32	277	4.83	1266	15.08	317	3.77	1259	14.28	315	3.57
	4FT	60x60	1185	19.32	296	4.83	1355	15.08	339	3.77	1347	14.28	337	3.57
	4FT	WWD	916	19.32	229	4.83	1047	15.08	262	3.77	1041	14.28	260	3.57
	4FT	9x9	1768	25.34	442	6.34	2023	19.77	506	4.94	2011	18.73	503	4.68
	4FT	10x60	1772	25.34	443	6.34	2026	19.77	507	4.94	2015	18.73	504	4.68
	4FT	15x30	1522	25.34	381	6.34	1740	19.77	435	4.94	1731	18.73	433	4.68
600	4FT	30x60	1556	25.34	389	6.34	1780	19.77	445	4.94	1770	18.73	443	4.68
	4FT	40x60	1442	25.34	361	6.34	1649	19.77	412	4.94	1639	18.73	410	4.68
	4FT	60x60	1543	25.34	386	6.34	1764	19.77	441	4.94	1754	18.73	439	4.68
	4FT	WWD	1192	25.34	298	6.34	1363	19.77	341	4.94	1356	18.73	339	4.68
	4FT	9x9	2175	32.38	544	8.10	2487	25.26	622	6.32	2473	23.93	618	5.98
	4FT	10x60	2179	32.38	545	8.10	2492	25.26	623	6.32	2478	23.93	620	5.98
	4FT	15x30	1871	32.38	468	8.10	2140	25.26	535	6.32	2128	23.93	532	5.98
750	4FT	30x60	1914	32.38	479	8.10	2189	25.26	547	6.32	2176	23.93	544	5.98
	4FT	40x60	1773	32.38	443	8.10	2028	25.26	507	6.32	2016	23.93	504	5.98
	4FT	60x60	1897	32.38	474	8.10	2170	25.26	543	6.32	2157	23.93	539	5.98
	4FT	WWD	1466	32.38	367	8.10	1677	25.26	419	6.32	1667	23.93	417	5.98
	4FT	9x9	2696	45.37	674	11.34	3084	35.4	771	8.85	3066	33.53	767	8.38
	4FT	10x60	2701	45.37	675	11.34	3089	35.4	772	8.85	3072	33.53	768	8.38
	4FT	15x30	2320	45.37	580	11.34	2654	35.4	664	8.85	2639	33.53	660	8.38
1000	4FT	30x60	2373	45.37	593	11.34	2713	35.4	678	8.85	2698	33.53	675	8.38
	4FT	40x60	2198	45.37	550	11.34	2514	35.4	629	8.85	2500	33.53	625	8.38
	4FT	60x60	2352	45.37	588	11.34	2690	35.4	673	8.85	2675	33.53	669	8.38
	4FT	WWD	1817	45.37	454	11.34	2078	35.4	520	8.85	2067	33.53	517	8.38

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Contact factory for performance data on any configurations not shown here. IES data is available at www.winonalighting.com. Refer to website for the latest IES file updates.

TUNABLE WHITE WARM DIMMING GAMUT AND RANGE



- The Gamut of a luminaire determines the potential color range, as well as light quality through measurements such as CRI and R9.
 The Path determines the range of colors temperatures available for the luminaire and how it tracks the Black Body Curve.

- TUNABLE WHITE GPHD Gamut: One dimensional Warm-Neutral-Cool (WiNC) Paths: Multi-segment (5500K to 2700K) (Rhythm Range) or (5000K to 2200K) (Layers Range) Handle: Three handles: Warm, Neutral and Cool Data: DMX512/RDM

Rhythm Range is for designers who want to mimic the natural rhythms of daylight, with a broad palette of color temperatures. Layers Range offers the flexibility of tunable white control with the aesthetics of warm dimming, reaching to 2200K.





sixteen <mark>5</mark> hundred	Dynamic Lighting Showcase	Catalog Number MKS501 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF WW DARK MVOLT WTP DMX NOFCL	^{Type} 32
	Submitted By 16500, INC	Notes	



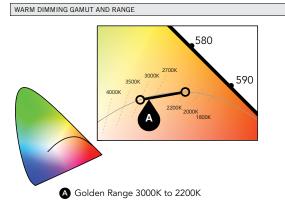
Surface Tunable White & Warm Dimming

PERFORMANCE DATA

Warm Dimming GOLR Range

Lumens Per Foot	Fixture Length	Distribution	CRI	Delivered Lumens	Input Watts	Lumen/Watt	Delivered Lumens Per Foot	Input Watts Per Foot
	4FT	9x9	80	1107	8.67	128	277	2.17
	4FT	10x60	80	1108	8.67	128	277	2.17
	4FT	15x30	80	1052	8.67	121	263	2.17
300	4FT	30x60	80	1076	8.67	124	269	2.17
	4FT	40x60	80	997	8.67	115	249	2.17
	4FT	60x60	80	1066	8.67	123	267	2.17
	4FT	WWD	80	955	8.67	110	239	2.17
	4FT	9x9	80	1723	11.86	145	431	2.97
	4FT	10x60	80	1726	11.86	146	432	2.97
	4FT	15x30	80	1638	11.86	138	410	2.97
450	4FT	30x60	80	1675	11.86	141	419	2.97
	4FT	40x60	80	1552	11.86	131	388	2.97
	4FT	60x60	80	1660	11.86	140	415	2.97
	4FT	WWD	80	1488	11.86	125	372	2.97
	4FT	9x9	80	2315	16.37	141	579	4.09
	4FT	10x60	80	2319	16.37	142	580	4.09
	4FT	15x30	80	2201	16.37	134	550	4.09
600	4FT	30x60	80	2250	16.37	137	563	4.09
	4FT	40x60	80	2085	16.37	127	521	4.09
	4FT	60x60	80	2231	16.37	136	558	4.09
	4FT	WWD	80	1999	16.37	122	500	4.09
	4FT	9x9	80	2866	21.48	133	717	5.37
	4FT	10x60	80	2871	21.48	134	718	5.37
	4FT	15x30	80	2725	21.48	127	681	5.37
750	4FT	30x60	80	2786	21.48	130	697	5.37
	4FT	40x60	80	2581	21.48	120	645	5.37
	4FT	60x60	80	2762	21.48	129	691	5.37
	4FT	WWD	80	2475	21.48	115	619	5.37
	4FT	9x9	80	3771	30.42	124	943	7.61
	4FT	10x60	80	3778	30.42	124	945	7.61
	4FT	15x30	80	3585	30.42	118	896	7.61
1000	4FT	30x60	80	3666	30.42	121	917	7.61
	4FT	40x60	80	3396	30.42	112	849	7.61
	4FT	60x60	80	3634	30.42	119	909	7.61
	4FT	WWD	80	3256	30.42	107	814	7.61

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Contact factory for performance data on any configurations not shown here. IES data is available at www.winonalighting.com. Refer to website for the latest IES file updates.



The Gamut of a luminaire determines the potential color range, as well as light quality through measurements such as CRI and R9.
 The Path determines the range of colors temperatures available for the luminaire.

- WARM DIMMING GPHD Gamuit: One dimensional Warm-Cool (WiC) Path: Straight Line 3000K to 2200K (Golden Range) Handle: One Handle: Intensity (with implicit CCT) Data: 0-10V
- Replicate the comfortable, familiar feeling of traditional

light sources warming in color as they are dimmed.



Dynamic Lighting Onowcase	Catalog Number MKS501 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF WW DARK MVOLT WTP DMX NOFCL	^{Type} 32
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Surface Tunable White & Warm Dimming

LINEAR PLAN

Mark offers the ability to provide a continuous run plan to suit your requirements by optionally offering three methods of configuration.

LLP Longest Length Possible:

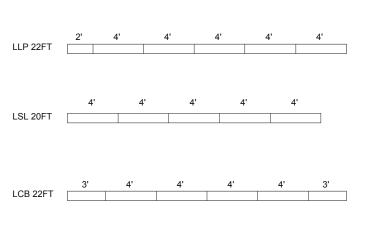
In this plan the longest length available is optimized resulting in the fewest segments and mounting locations. Caution should be used where balanced appearance is a concern. Example: 22FT row would have (5) 4FT segments and (1) 2FT segment located at one end.

LSL Longest Same Length:

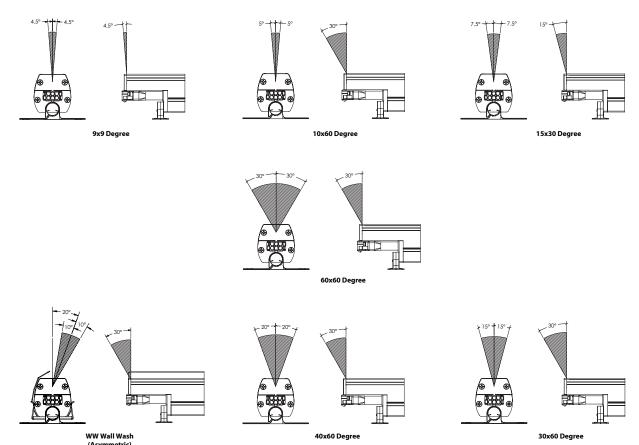
In this configuration each segment is the same length is standardized based on the longest length available and is the only option provided. Because it is dependent on one segment length there are mathematical limitations on what overall row lengths can be achieved. Example: 20FT row would be achieved with (5) 4FT long segments equaling 20FT (nominal).

LCB Longest Center Balanced:

This configuration incorporates the longest center segment(s) along with any additional lengths required to fill located at each end. Example: 22FT row would have (2) 3FT segments (one at each end) and (4) 4FT intermediate segments located in between.



DISTRIBUTION



(Asymmetric) *Shown with supplied snap-on visor



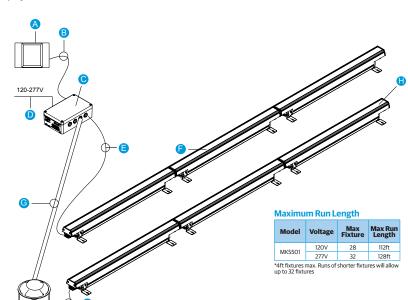
	Dynamic Lighting Onowcase	Catalog Number MKS501 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF WW DARK MVOLT WTP DMX NOFCL	^{Type} 32
Ŭ	Submitted By 16500, INC	Notes	

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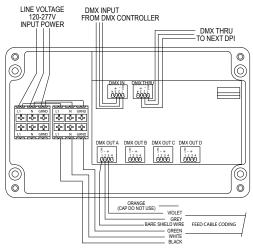
Surface Tunable White & Warm Dimming

BASIC SYSTEM WIRING INFORMATION

This very basic system wiring diagram provides an overview of components and materials required for a simple installation of MKS501 luminaires controlled by a DMX controller. These diagrams should not be used in place of actual installation instructions or submittal drawings prepared for a specific project.



Power & DMX Connection in DPI Box



A tunable white luminaire installation can be as simple as a single luminaire and one control to many different luminaires in multiple locations being triggered and manipulated in real time. Consulting with the factory at the beginning stages of the project will ensure the required equipment be specified and properly installed.

Note: For multiple runs and multiple DPI boxes, consult factory.

Note: No more than four DPI Boxes, in series, can be utilized between the DMX Controller and any luminaire.

A DMX controller providing one universe of DMX-512 control.

To supply a complete system RDM set-up and playback control solution, use:

Fresco

• Manage multiple light sources in multiple lighting zones, all from one controller

On screen lighting design and set-up, no computer required or Ethernet connection for remote

configuration and advanced control

 All device settings are stored on-board in non-volatile memory

B Belden 9829 cable is the preferred communication/ data cable used to carry the DMX signal to and from the DPI Box. The total length of this cable must not exceed 1000 feet from the DMX controller to the DPI Box. No luminaires should be installed between DMX Controller and any DPI Box.

DPI box (Data Power Integration) is used to bundle DMX to line voltage and deliver them to the luminaire. This box provides necessary isolation between the DMX control and line voltage and is required for all MKS501 installations. The DPI box also serves as a 4-channel splitter enabling up to 128 fixtures to be controlled from a single DPI box. Refer to DPI Installation Sheet for dimensions and mounting details.

120V-277V input to DPI box. Metallic conduit and standard fittings are compatible as are multi-conductor cords provided they are appropriate to the mounting location.

Feed cable connects junction box with first fixture in a run. 14 ga. conductors carry power, shielded 18 ga. conductors carry data. Input end is stripped for connection to the Junction or DPI box, output end includes a male or female plug for fixture connection. Also included with each feed cable is a termination/ sealing cap for the end of each run. Contact factory for availability of custom feed cable lengths.

A maximum of 32 luminaires can be connected to a single output channel of the DPI box. The maximum length of cord and luminaire run combined is 1000 feet per DMX/ RDM specification.

Power and Data can be run to junction box locations in rigid conduit. Use Belden 9829 for data and copper wire per local code for power. Use appropriate fitting for combination cord.

To ensure data integrity, a termination/sealing cap with 120 Ohm resistor is required at the last luminaire in each run. See installation instructions.

Fresco Control System

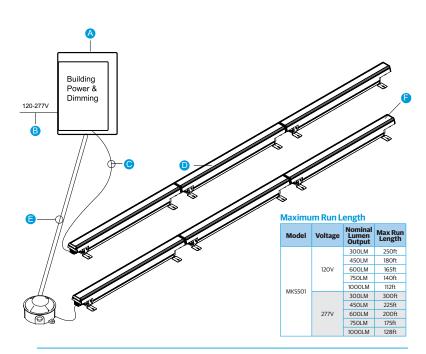


	Dynamic Lighting Onowcase	Catalog Number MKS501 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF WW DARK MVOLT WTP DMX NOFCL	^{Type} 32
Ŭ	Submitted By 16500, INC	Notes	

MARKLINE Surface Tunable White & Warm Dimming

BASIC SYSTEM WIRING INFORMATION WITHOUT DMX

This very basic system wiring diagram provides an overview of components and materials required for a simple installation of MKS501 luminaires controlled by building system power (By Others). These diagrams should not be used in place of actual installation instructions or submittal drawings prepared for a specific project.



Feed Cable Wiring



*Notes

1) Cap BARE SHIELD WIRE in Junction box. (By Others)

2) When not using 0-10V dimming, cap Gray and Purple separately in the junction box. (By Others)

Luminaire installation can be as simple as a single luminaire and one control to many different luminaires in multiple locations being triggered and manipulated in real time. Consulting with the factory at the beginning stages of the project will ensure the required equipment be specified and properly installed.

- A Building power and dimming control input via 0-10V system provided by others.
- B 120V-277V input. Metallic conduit and standard fittings are compatible as are multi-conductor cords provided they are appropriate to the mounting location.
- Feed cable connects junction box or control input with first fixture in a run. 14 ga. conductors carry power, shielded 18 ga. conductors carry data. Input end is stripped for connection to the junction box, output end includes a female or male plug for fixture connection. Also included with each feed cable is a sealing cap for the end of each run.
- A maximum of 32 luminaires can be connected to a single feed cable.
- Power can be run to junction box locations in rigid conduit. Use Belden 9829 for data and copper wire per local code for power. Use appropriate fitting for combination cord.
- Included with each feed cable is a sealing cap for the last luminaire in each run. See installation instructions.



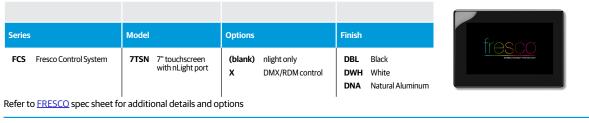
	Dynamic Lighting Showcase	Catalog Number MKS501 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF WW DARK MVOLT WTP DMX NOFCL	^{Type} 32
<u> </u>		Notes	

MARKLINE

Surface Tunable White & Warm Dimming

ACCESSORY OPTIONS

Fresco Control System



10 1/4" DMX / Power Integrator (260mm 6 5/16 Model (160m DPI4W- DMX/POWER INTEGRATOR BOX MDPI4W Τ 3 9/16' \odot 00 (90m

Integrates DMX signal & 120-277 line voltage onto a single cable. Exterior rated, up to 4 output feeds, Silver Textured Finish.

Environmental Information

Storage Temperature	40°F - 185°F
Start-up Temperature	13°F - 122°F
Operating Temperature	13°F - 122°F
Ingress Protection Rating	IP65
Environment	Suitable for indoor and outdoor applications

Carries DMX signal and 120-277 line voltage power to right end of first fixture in run. Supplied with termination/sealing cap. *Use one feed cable per run only.*

Model	
MFCL10TR BCRD DXP	10FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (Black)
MFCL25TR BCRD DXP	25FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (Black)
MFCL50TR BCRD DXP	50FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (Black)
MFCL100TR BCRD DXP	100FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (Black)
MFCL10TR WCRD DXP	10FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (White)

*Minimum of one feed cable, left or right, required per installation

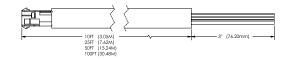
Feed Cable, Right Feed (Female Plug)

MFCL25TR WCRD DXP

MFCL50TR WCRD DXP

MFCL100TR WCRD DXP





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25FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (White) 50FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (White)

100FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (White)



Dynamic Lighting Onowcase	-	^{Type} 32
Submitted By 16500, INC	Notes	



Surface Tunable White & Warm Dimming

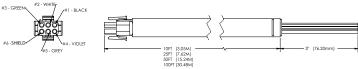
ACCESSORY OPTIONS (CONTINUED)

Feed Cable, Left Feed (Male Plug)

*Minimum of one feed cable, left or right, required per installation

Model		
MFCL10TL BCRD DXP	10FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (Black)	
MFCL25TL BCRD DXP	25FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (Black)	
MFCL50TL BCRD DXP	50FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (Black)	#3 - GR
MFCL100TL BCRD DXP	100FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (Black)	
MFCL10TL WCRD DXP	10FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (White)	#6-SHI
MFCL25TL WCRD DXP	25FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (White)	
MFCL50TL WCRD DXP	50FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (White)	
MFCL100TL WCRD DXP	100FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (White)	

Carries DMX signal and 120-277 line voltage power to left end of first fixture in run. Supplied with termination/sealing cap. *Use one feed cable per run only.*



Feed Cable, Right Feed (Female Plug)

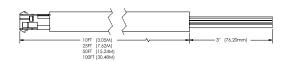
*Minimum of one feed cable, left or right, required per installation

Model	
MFCL10TR BCRD NDXP	10FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (Black)
MFCL25TR BCRD NDXP	25FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (Black)
MFCL50TR BCRD NDXP	50FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (Black)
MFCL100TR BCRD NDXP	100FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (Black)
MFCL10TR WCRD NDXP	10FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (White)
MFCL25TR WCRD NDXP	25FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (White)
MFCL50TR WCRD NDXP	50FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (White)
MFCL100TR WCRD NDXP	100FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (White)



Carries NON-DMX signal and 120-277 line voltage power to right end of first fixture in run.

Supplied with termination/sealing cap. *Use one feed cable per run only.*





sixteen5hundred	Dynamic Lighting Onowcase		^{Type} 32
	Submitted By 16500, INC	Notes	



Surface Tunable White & Warm Dimming

#2 - WHITE

B

#1 - BLACK

VIOLET

ACCESSORY OPTIONS (CONTINUED)

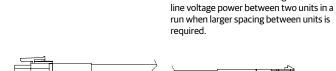
Feed Cable, Left Feed (Male Plug)

*Minimum of one feed cable, left or right, required per installation

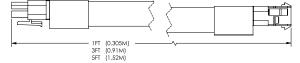
Model	
MFCL10TL BCRD NDXP	10FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (Black)
MFCL25TL BCRD NDXP	25FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (Black)
MFCL50TL BCRD NDXP	50FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (Black)
MFCL100TL BCRD NDXP	100FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (Black)
MFCL10TL WCRD NDXP	10FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (White)
MFCL25TL WCRD NDXP	25FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (White)
MFCL50TL WCRD NDXP	50FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (White)
MFCL100TL WCRD NDXP	100FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (White)

Jumper Cable *Optional*

Model	
MJCLW1T BCRD	1FT Jumper Cable Interior Location (Black)
MJCLW3T BCRD	3FT Jumper Cable Interior Location (Black)
MJCLW5T BCRD	5FT Jumper Cable Interior Location (Black)
MJCLW1T WCRD	1FT Jumper Cable Interior Location (White)
MJCLW3T WCRD	3FT Jumper Cable Interior Location (White)
MJCLW5T WCRD	5FT Jumper Cable Interior Location (White)



10FT (3.05M) 25FT (7.62M) 50FT (15.24M 100FT (30.48M



Carries NON-DMX signal and 120-277 line voltage power to left end of first fixture in run.

Carries DMX or NON-DMX signal and 120-277

174.00

Supplied with termination/sealing cap. *Use one feed cable per run only.*





	Dynamic Lighting Showcase	-	^{Type} 32
		Notes	



Surface Tunable White & Warm Dimming

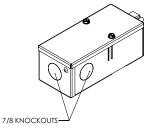
ACCESSORY OPTIONS (CONTINUED)

Wire Splice Box, Right Feed (Female Plug), *Optional* *Minimum of one wire splice box, left or right, required for installation

Model	
M500WBXR DXP	Wire Splice Box w/ Sealing Cap, Right Feed, Interior Location (Galvanized Steel)
M500WBXR WTPP DXP	Wire Splice Box,w/ Sealing Cap, Right Feed, Interior Location (White)

Wire Splice Box, Left Feed (Male Plug), *Optional* *Minimum of one wire splice box, left or right, required for installation

Model		
M500WBXL DXP	Wire Splice Box,w/ Sealing Cap, Left Feed, Interior Location (Galvanized Steel)	7/8 KNOCKOUT—
M500WBXL WTPP DXP	Wire Splice Box,w/ Sealing Cap, Left Feed, Interior Location (White)	



Replaces feed cable for areas where flexible cord cannot be used to bring input DMX signal and 120-277 line voltage power to right end of beginning of run. Box allows 1/2" NPT conduit fitting connection and area for building wire splice connections. Supplied with termination/sealing cap.

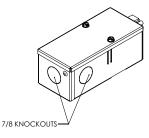
Use one wire splice box per run only.

Replaces feed cable for areas where flexible cord cannot be used to bring input DMX signal and 120-277 line voltage power to right end of beginning of run. Box allows 1/2" NPT conduit fitting connection and area for building wire splice connections. Supplied with termination/sealing cap.

Use one wire splice box per run only.

Wire Splice Box, Right Feed (Female Plug), *Optional* *Minimum of one wire splice box, left or right, required for installation

Model	
M500WBXR NDXP	Wire Splice Box w/ Sealing Cap, Right Feed, Interior Location (Galvanized Steel)
M500WBXR WTPP NDXP	Wire Splice Box,w/ Sealing Cap, Right Feed, Interior Location (White)



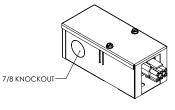
Replaces feed cable for areas where flexible cord cannot be used to bring input NON-DMX signal and 120-277 line voltage power to right end of beginning of run. Box allows 1/2" NPT conduit fitting connection and area for building wire splice connections. Supplied with termination/sealing cap.

Use one wire splice box per run only.

Wire Splice Box, Left Feed (Male Plug), *Optional* *Minimum of one wire splice box, left or right, required for installation

Model
M500WBXL NDXP

Wire Splice Box,w/ Sealing Cap, Left Feed, Interior Location (Galvanized Steel) M500WBXL WTPP NDXP Wire Splice Box,w/ Sealing Cap, Left Feed, Interior Location (White)



Replaces feed cable for areas where flexible cord cannot be used to bring input NON-DMX signal and 120-277 line voltage power to right end of beginning of run. Box allows 1/2" NPT conduit fitting connection and area for building wire splice connections. Supplied with termination/sealing cap.

Use one wire splice box per run only.

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💥 MAINSTREAM DYNAMIC

sixteen5hundred	Dynamic Lighting Showcase	Catalog Number MKS501 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF WW DARK MVOLT WTP DMX NOFCL	^{Type} 32
Ŭ		Notes	

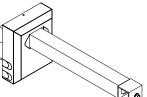


Surface Tunable White & Warm Dimming

ACCESSORY OPTIONS (CONTINUED)

Glare Vis	sor (Linear) *(Option	al*				1
Model		Fixtur	e Section	Finish			
MGVL5	Glare Visor Linear Surface	U2 U3 U4	2FT Length Unit 3FT Length Unit 4FT Length Unit	BKT SIT WTP RALTBD CPF	Black Textured Paint Silver Textured Paint White Textured Paint RAL Paint Finish Custom Painted Finish		Reference Additional Accessor Details section for dimensions
affle (L	inear) *Optio	nal*					
Model			Fixture Section				
MBFL5	Baffle Linear Surf (Available in matt finish only)	ace e black	U2 2FT Length U3 3FT Length U4 4FT Length	Unit		A COLORADO A	Reference Additional Accessor Details section for dimensions
iquid-T	ight Cord Grip)		_		── 1/2 NPSM Threads	Connector to secures and seal feed cord.
Model MCORDO	GP2 Liquid-Tight (Use to secu	: Cord Grip ire and sea) al feed cord to DPI Box)	M	Cable Diameter Rang .4450 diameter	
Brackets	s *Optional*						
Series			Finish				

inis MCBT6 Cantilever Bracket 6" Projection вкт **Black Textured Paint** MCBT12 Cantilever Bracket 12" Projection SIT Silver Textured Paint MCBT18 Cantilever Bracket 18" Projection WTP White Textured Paint RALTBD RAL Paint Finish Custom Painted Finish CPF



Reference Additional Accessory Details section for dimensions

For use with surface mount junction box (by others) and surface mounted conduit (by others).

Reference Additional Accessory Details section for dimensions

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Finish

вкт

SIT

WTP

CPF

Black Textured Paint

Silver Textured Paint

White Textured Paint

Custom Painted Finish

RALTBD RAL Paint Finish



Series

Brackets *Optional*

MCBTL6 Cantilever Bracket Large 6" Projection

MCBTL12 Cantilever Bracket Large 12" Projection

MCBTL18 Cantilever Bracket Large 18" Projection

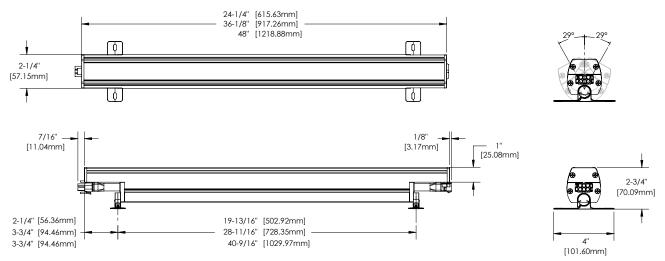
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	Submitted By 16500, INC	Notes	



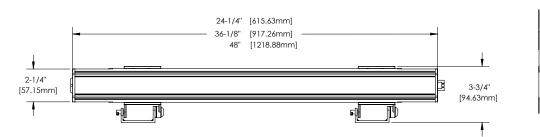
Surface Tunable White & Warm Dimming

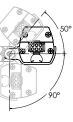
DRAWING DETAILS

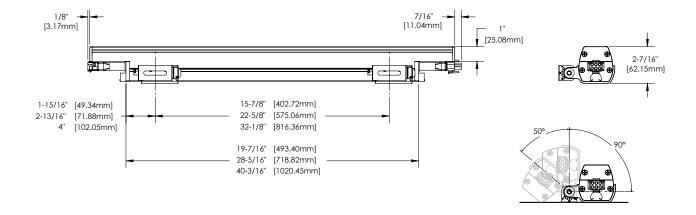
M500ADJC1 - Adjustable Mount Center Axis



M500ADJH2 - Adjustable Mount Side Hinge





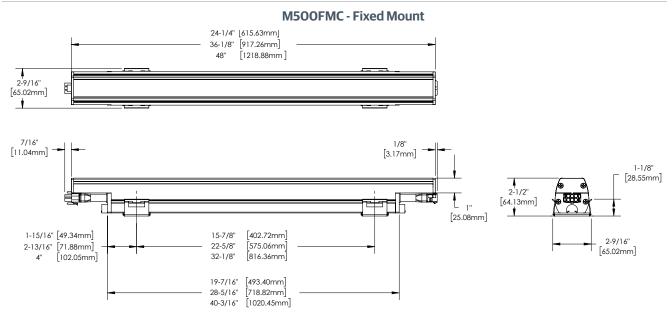


	Catalog Number MKS501 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF WW DARK MVOLT WTP DMX NOFCL	^{Туре} 32
Submitted By 16500, INC	Notes	



Surface Tunable White & Warm Dimming

DRAWING DETAILS (CONTINUED)





Dynamic Lighting Onowcase	Catalog Number MKS501 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF WW DARK MVOLT WTP DMX NOFCL	^{туре} 32
Submitted By 16500, INC	Notes	

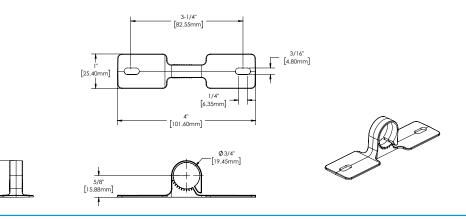
MARKLINE

Surface Tunable White & Warm Dimming

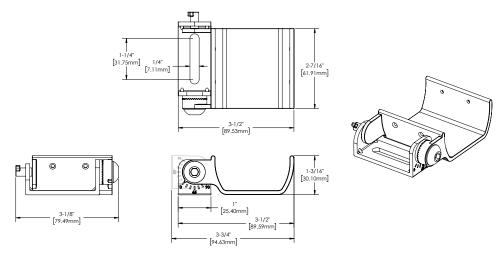
DRAWING DETAILS (CONTINUED)

1-1/16 26.9

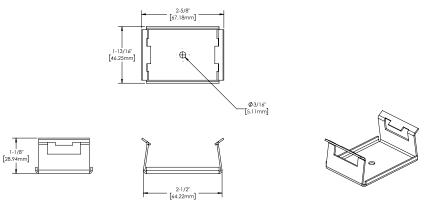
M500ADJC1 - Adjustable Mount Center Axis Detail



M500ADJH2 - Adjustable Mount Side Hinge Detail



M500FMC - Fixed Mount Detail



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💥 MAINSTREAM DYNAMIC

MKS501_TUWH_WDIM 03/10/21

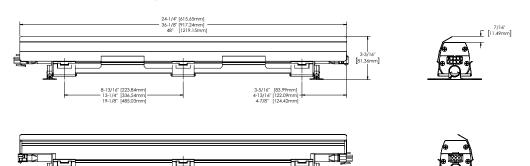
	Dynamic Lighting Showcase	-	^{Type} 32
-	Submitted By 16500, INC	Notes	

MARKLINE

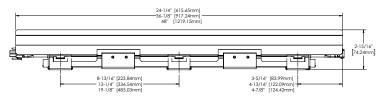
Surface Tunable White & Warm Dimming

DRAWING DETAILS (CONTINUED)

WW Asymmetric Glare Visor with M500ADJC1 Mount *Automatically included when WW distribution is ordered.*

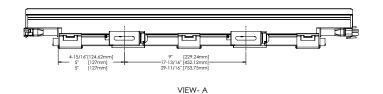


WW Asymmetric Glare Visor with M500ADJH2 Mount *Automatically included when WW distribution is ordered.*

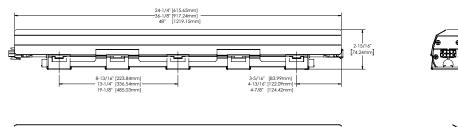


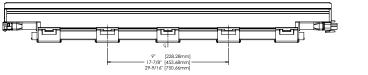
19-13/16" [502.92mm] 28-11/16" [728.35mm] 40-9/16" [1029.97mm]





WW Asymmetric Glare Visor with M500FMC Mount *Automatically included when WW distribution is ordered.*







7/16" [11.49mm]

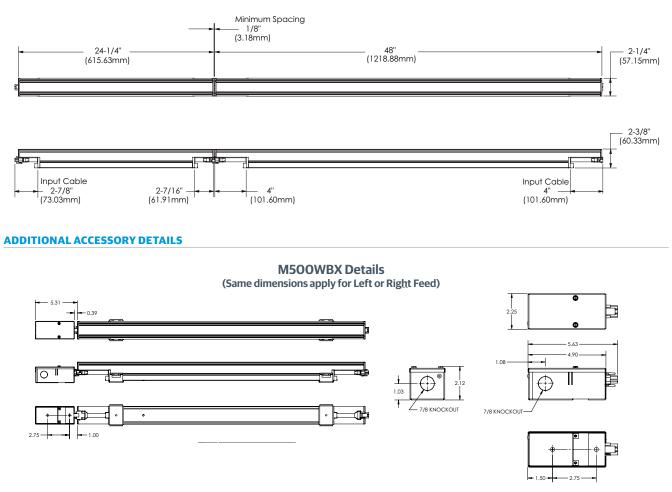
Dynamic Lighting Onowcase	Catalog Number MKS501 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF WW DARK MVOLT WTP DMX NOFCL	^{Type} 32
Submitted By 16500, INC	Notes	

MARKLINE

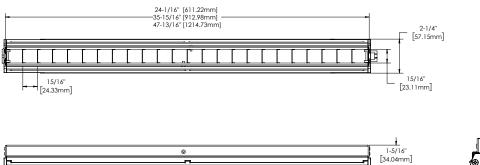
Surface Tunable White & Warm Dimming

DRAWING DETAILS (CONTINUED)

MKS501 Series Typical End-To-End Run Configuration



Baffle Linear Surface



3-1/8" [80.11mm]

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MKS501_TUWH_WDIM 03/10/21

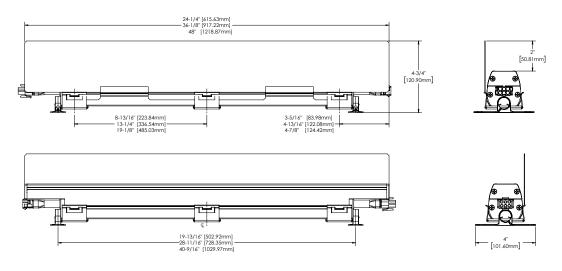
sixteen5hundred	Dynamic Eignnig Onowcase	Catalog Number MKS501 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF WW DARK MVOLT WTP DMX NOFCL	^{туре} 32
	Submitted By 16500, INC	Notes	



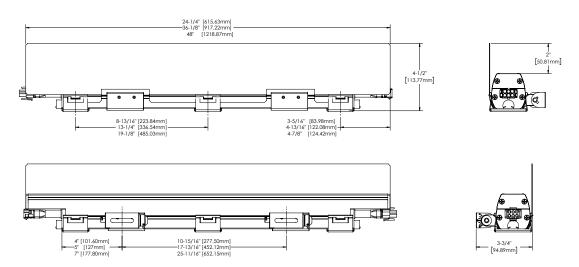
Surface Tunable White & Warm Dimming

ADDITIONAL ACCESSORY DETAILS (CONTINUED)

Glare Visor with M500ADJC1 Mount



Glare Visor with M500ADJH2 Mount





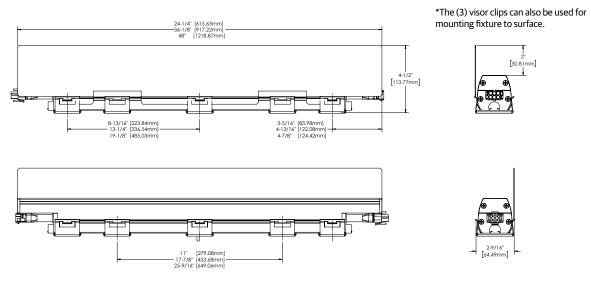
sixteen5hundred	Dynamic Lighting Showcase	Catalog Number MKS501 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF WW DARK MVOLT WTP DMX NOFCL	^{Type} 32
	Submitted By 16500, INC	Notes	



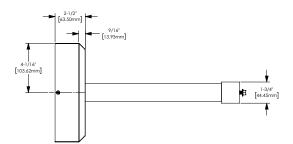
Surface Tunable White & Warm Dimming

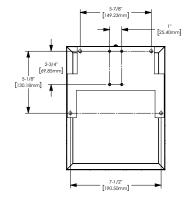
ADDITIONAL ACCESSORY DETAILS (CONTINUED)

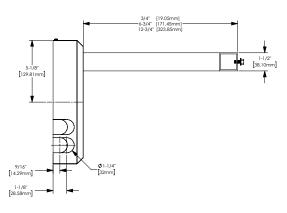
Glare Visor with M500FMC Mount

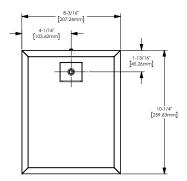


Cantilever Bracket Large Detail









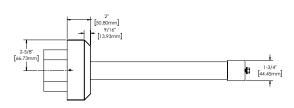
Dynamic Lighting Showcase	Catalog Number MKS501 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF WW DARK MVOLT WTP DMX NOFCL	^{Туре} 32
Submitted By 16500, INC	Notes	

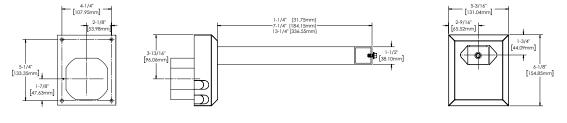


Surface Tunable White & Warm Dimming

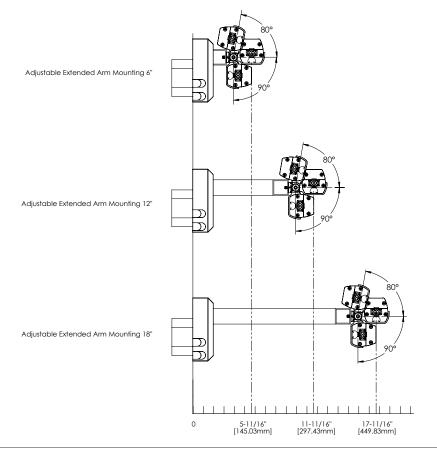
ADDITIONAL ACCESSORY DETAILS (CONTINUED)

Cantilever Bracket Detail





Cantilever Bracket Detail with M500ADJH2 and Fixture





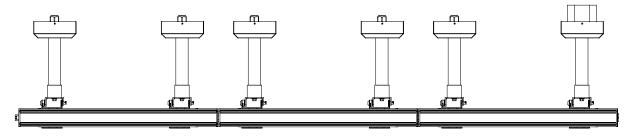
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Submitted By 16500, INC	Notes	



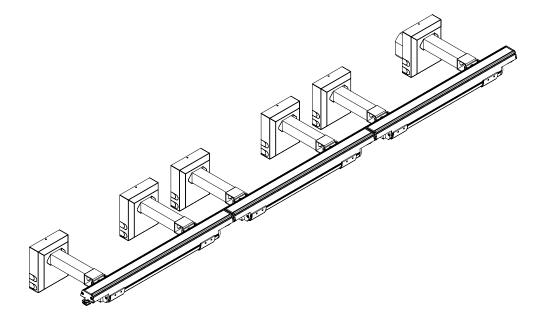
Surface Tunable White & Warm Dimming

ADDITIONAL ACCESSORY DETAILS (CONTINUED)

MKS501 Series Typical End-To-End Run Configuration with Cantilever Brackets (Showing 6-foot run of (3) 2-foot units with MCBT12 bracket accessory













Surface Tunable White & Warm Dimming

SPECIFICATIONS

Voltage: 120 through 277v/60Hz

Distribution: $9^\circ x 9^\circ$, $10^\circ x 60^\circ$, $15^\circ x 30^\circ$, $30^\circ x 60^\circ$, $40^\circ x 60^\circ$, $60^\circ x 60^\circ$, Asymmetric Wall Wash

Size: 2.25 W x 2.31 H

Housing: Extruded aluminum snap together construction

Finish: Polyester powder coat painted finish. Black oxide fastener color with BKT finish and natural stainless steel fastener color with WPT & SIT finishes

Lens Material: Extruded acrylic

Lumen Maintenance: RHYR (9° x 9°, 10° x 60°): 60,000 hours L70 @ +120deg C. LAYR (9° x 9°, 10° x 60°): 120,000 hours L70@ +55deg C RHYR & LAYR (15° x 30°, 30° x 60°, 40° x 60°, 60° x 60°, WWD): 120,000 hours L70@ +55deg C. (9° x 9°, 10° x 60°, 15° x 30°, 30° x 60°, 40° x 60°, 60° x 60°, WWD): 60,000 hours L70 @ +120deg C.

LED Color Mix: RHYR: 12 LEDs per 12 inches in a 1:1 ratio (1x2700k, 1x4000k, 1x6500k). LAYR: 12 LEDs per 12 inches in a 1:1 ratio (1x2200k, 1x3000k, 1x5000k). GOLR: 12 LEDs per 12 inches in a 2:1 ratio (2x3000k, 1x2200k)

Control System: TUWH: Fresco DMX512 controller. WDIM: 0-10V dimmer control

Ambient Temperature Ranges: -40° to +45°C

Mounting: Suitable for mounting within the space between ground and 4FT (1.2M) of the ground. Suitable for damp location applications.

Certification/Compliance: CSA Certified to meet U.S. and Canadian standards conforming to UL 1598 and CAN/CSA C22.2 No. 250.0

Weight: 24" - 3.5 lbs (1.59 kg) / 36" - 4.0 lbs (1.81 kg) / 48" - 5.0 lbs (2.27 kg)

Buy American: This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FARS, DFARS and DOT. Please refer to <u>www.acuitybrands.com/resources/buy-american</u> for additional information.

Warranty: 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25°C. Specifications subject to change without notice.

Assembled in America: Buy American Act Compliant



	Catalog Number MCV502 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	^{Type} 33
Submitted By 16500, INC	Notes	



MARKCOVE

DYNAMIC COLOR

HIGHLIGHTS

- Small, versatile and impactful
- Extruded aluminum construction
- RGBW Red, Green, Blue, White produces saturated color and pastels
- Wide 120 x 120 distribution
- Powerful Range 600 or 750 lumens per foot

650LMF

624

7.48

83

750LMF

744 8.95

83

- Efficient with up to 90 lumens per watt
- DMX with Remote Device Management
- Full compliment of mounting and shielding accessories
- Manufactured in USA

LUMEN OUTPUT

Nominal Lumens

Delivered Lumens

Input Watts

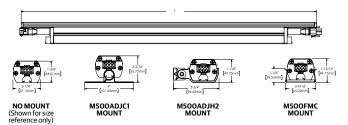
Lumens/Watt

SPECIFICATIONS

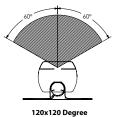


DIMENSIONS

Reference Drawing Detail section for additional information



STANDARD DISTRIBUTION



ARCHITAINMENT COLOR ARCHITAINMENT

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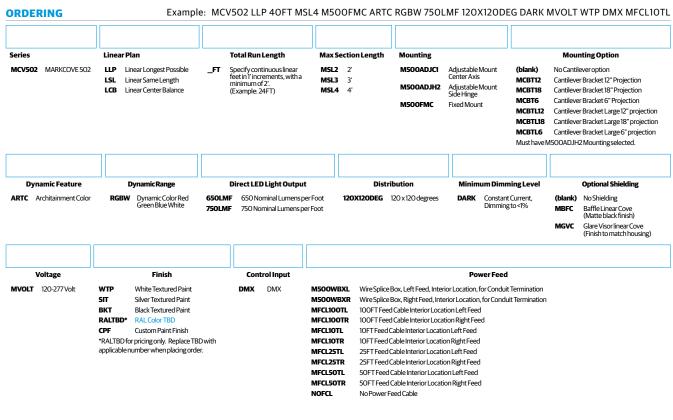


ScuityBrands

MCV502_RGBW 03/10/21

	Dynamic Lighting Onowcase	Catalog Number MCV502 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	^{Type} 33
<u> </u>	Submitted By 16500, INC	Notes	





Accessories	
Controller (Fresco Control System)	See page 6
Controller (Easyl [™] Solo / Touch / Pro)	See page 6
DMX-Power Integrator (required for installation)	See page 6
Feed Cable (required for installation)	See page 6-7
Jumper Cable	See page 7
Wire Splice Box	See page 8
Liquid-Tight Cord Grip	See page 9
Glare Visor	See page 8
Baffle	See page 8
Brackets	See page 9

Model	Length	Weight	
MCV502	24-1/4" (616 mm)	3.0 lbs (1.36 kg)	
	36-1/8" (918 mm)	3.5 lbs (1.59 kg)	
	48" (1219 mm)	4.5 lbs (2.04 kg)	

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💥 MAINSTREAM <u>DYNAMIC</u>

	Catalog Number MCV502 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	^{Type} 33
Submitted By 16500, INC	Notes	

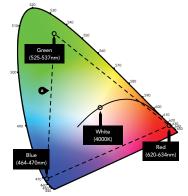


PERFORMANCE DATA

Lumens Per Foot	Fixture Length	Distribution	Delivered Lumens	Input Watts	Lumen/Watt	Delivered Lumens Per Foot	Input Watts Per Foot
	2FT	120x120	1177	16.04	73	589	8.02
650	3FT	120x120	1834	22.72	81	611	7.57
	4FT	120x120	2495	29.91	83	624	7.48
	2FT	120x120	1404	19.19	73	702	9.60
750	3FT	120x120	2188	27.18	81	729	9.06
	4FT	120x120	2976	35.78	83	744	8.95

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Contact factory for performance data on any configurations not shown here.

RGBW GAMUT AND RANGE



A RGBW Range within triangle formed by RGB

The Gamut of a luminaire determines the potential color range, specifically the dominant wavelength of each primary color.
 The Path determines the range of colors the user can select for the luminaire.

- ARCHITAINMENT COLOR GPHD Gamut Triangular Path Full RGB gamut Handle Four Handles: Red, Green, Blue, White Data DMX512/RDM

The RGBW Range reaches the full range of saturated colors and subtle pastels to create bold transformational effects.



sixteen5hundred	Dynamic Lighting Showcase	Catalog Number MCV502 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	^{Type} 33
	Submitted By 16500, INC	Notes	

MARKCOVE Linear Cove Dynamic Color

LINEAR PLAN

Mark offers the ability to provide a continuous run plan to suit your requirements by optionally offering three methods of configuration.

LLP Longest Length Possible:

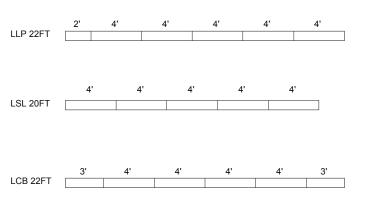
In this plan the longest length available is optimized resulting in the fewest segments and mounting locations. Caution should be used where balanced appearance is a concern. Example: 22FT row would have (5) 4FT segments and (1) 2FT segment located at one end.

LSL Longest Same Length:

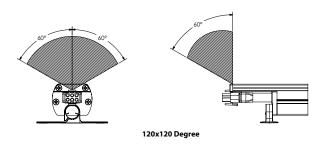
In this configuration each segment is the same length is standardized based on the longest length available and is the only option provided. Because it is dependent on one segment length there are mathematical limitations on what overall row lengths can be achieved. Example: 20FT row would be achieved with (5) 4FT long segments equaling 20FT (nominal).

LCB Longest Center Balanced:

This configuration incorporates the longest center segment(s) along with any additional lengths required to fill located at each end. Example: 22FT row would have (2) 3FT segments (one at each end) and (4) 4FT intermediate segments located in between.



DISTRIBUTION



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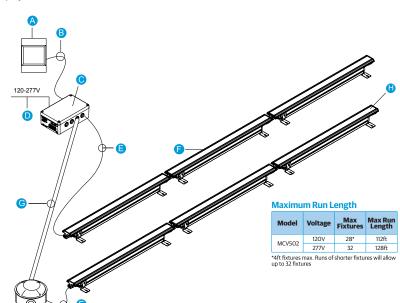
💥 MAINSTREAM <u>DYNAMIC</u>

	Dynamic Eighnig Onowouse	MCV502 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF	^{туре} 33
<u> </u>	Submitted By 16500, INC	Notes	

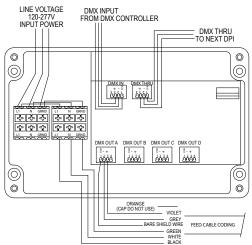
MARKCOVE Linear Cove Dynamic Color

BASIC SYSTEM WIRING INFORMATION WITH DMX

This very basic system wiring diagram provides an overview of components and materials required for a simple installation of MCV502 luminaires controlled by a DMX controller. These diagrams should not be used in place of actual installation instructions or submittal drawings prepared for a specific project.



Power & DMX Connection in DPI Box



A dynamic luminaire installation can be as simple as a single luminaire and one control to many different luminaires in multiple locations being triggered and manipulated in real time. Consulting with the factory at the beginning stages of the project will ensure the required equipment be specified and properly installed.

Note: For multiple runs and multiple DPI boxes, consult factory.

Note: No more than four DPI Boxes, in series, can be utilized between the DMX Controller and any luminaire.

A DMX controller providing one universe of DMX-512 control

To supply a complete system RDM set-up and playback control solution. use:

Easyl

• Three versions available from entry-level to show creation using computer software

Full color LCD touchscreen

· Recall colors, shows, and effects with one touch Fresco

 Manage multiple light sources in multiple lighting zones, all from one controller

• On screen lighting design and set-up, no computer required or Ethernet connection for remote configuration and advanced control

• All device settings are stored on-board in non-volatile memory

Belden 9829 cable is the preferred communication/ data cable used to carry the DMX signal to and from the DPI Box. The total length of this cable must not exceed 1000 feet from the DMX controller to the DPI Box. No luminaires should be installed between DMX Controller and any DPI Box.

C DPI box (Data Power Integration) is used to bundle DMX to line voltage and deliver them to the luminaire. This box provides necessary isolation between the DMX control and line voltage and is required for all MCV502 installations. The DPI box also serves as a 4-channel splitter enabling up to 128 fixtures to be controlled from a single DPI box. Refer to DPI Installation Sheet for dimensions and mounting details.

120V-277V input to DPI box. Metallic conduit and standard fittings are compatible as are multi-conductor cords provided they are appropriate to the mounting location

E Feed cable connects junction box with first fixture in a run. 14 ga. conductors carry power, shielded 18 ga. conductors carry data. Input end is stripped for connection to the Junction or DPI box, output end includes a male or female plug for fixture connection. Also included with each feed cable is a termination/ sealing cap for the end of each run. Contact factory for availability of custom feed cable lengths.

A maximum of 32 luminaires can be connected to a single output channel of the DPI box. The maximum length of cord and luminaire run combined is 1000 feet per DMX/ RDM specification.

G Power and Data can be run to junction box locations in rigid conduit. Use Belden 9829 for data and copper wire per local code for power. Use appropriate fitting for combination cord.

H To ensure data integrity, a termination/sealing cap with 120 Ohm resistor is required at the last luminaire in each run. See installation instructions.

Easyl Controller Fresco Control System



	Catalog Number MCV502 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	^{Туре} 33
Submitted By 16500, INC	Notes	



ACCESSORY OPTIONS

Fresco Control System

Series	Model	Options	Finish
FCS Fresco Control System	7TSN 7" touchscreen with nLight port	(blank) nlight only X DMX/RDM control	DBL Black DWH White DNA Natural Aluminum
Refer to FRESCO spec sheet fo	or additional details and o	ntions	

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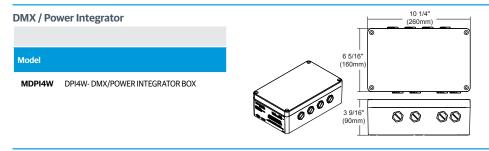
all con

Easyl	LED Show Cor	itroller with LCE) touchscreen	(integral	power supply)

Series		Voltage		Finish		Baredon Baredon Bitti Form Bart Kal Garawa Kal	Red Gro oscore Paying Co
EZSOLO EZTOUCH EZPRO	Easyl Solo Easyl Touch Easyl Pro	MVOLT	120V-277V VAC, 50/60 Hz	BK WH	Black White	Hold Stars Base Generation Records and Stars Stars Stars Stars Stars	u day

Refer to **EASYL** spec sheet for additional details and options

Feed Cable, Right Feed (Female Plug)



Integrates DMX signal & 120-277 line voltage onto a single cable. Exterior rated, up to 4 output feeds, Silver Textured Finish.

Environmental Information

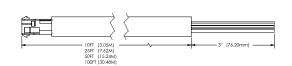
Storage Temperature	40°F - 185°F
Start-up Temperature	13°F - 122°F
Operating Temperature	13°F - 122°F
Ingress Protection Rating	IP65
Environment	Suitable for indoor and outdoor applications

Carries DMX signal and 120-277 line voltage power to right end of first fixture in run. Supplied with termination/sealing cap. *Use one feed cable per run only.*

Model	
MFCL10TR BCRD DXP	10FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (Black)
MFCL25TR BCRD DXP	25FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (Black)
MFCL50TR BCRD DXP	50FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (Black)
MFCL100TR BCRD DXP	100FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (Black)
MFCL10TR WCRD DXP	10FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (White)
MFCL25TR WCRD DXP	25FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (White)
MFCL50TR WCRD DXP	50FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (White)
MFCL100TR WCRD DXP	100FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (White)

*Minimum of one feed cable, left or right, required per installation







	Dynamic Lighting Showcase	Catalog Number MCV502 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	^{⊤ype} 33
	Submitted By 16500, INC	Notes	

F1 - BLACK

VIOLET



MARKCOVE Linear Cove Dynamic Color

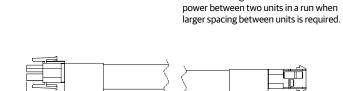
ACCESSORY OPTIONS (CONTINUED)

Feed Cable, Left Feed (Male Plug) *Minimum of one feed cable, left or right, required per installation

Woder	
MFCL10TL BCRD DXP	10FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (Black)
MFCL25TL BCRD DXP	25FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (Black)
MFCL50TL BCRD DXP	50FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (Black)
MFCL100TL BCRD DXP	100FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (Black)
MFCL10TL WCRD DXP	10FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (White)
MFCL25TL WCRD DXP	25FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (White)
MFCL50TL WCRD DXP	50FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (White)
MFCL100TL WCRD DXP	100FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (White)

Jumper Cable *Optional*

Model	
MJCLW1T BCRD	1FT Jumper Cable Interior Location (Black)
MJCLW3T BCRD	3FT Jumper Cable Interior Location (Black)
MJCLW5T BCRD	5FT Jumper Cable Interior Location (Black)
MJCLW1T WCRD	1FT Jumper Cable Interior Location (White)
MJCLW3T WCRD	3FT Jumper Cable Interior Location (White)
MJCLW5T WCRD	5FT Jumper Cable Interior Location (White)



1FT (0.305M) 3FT (0.91M) 5FT (1.52M)

10FT (3.05M) 25FT (7.62M) 50FT (15.24M 100FT (30.48M

Carries DMX signal and 120-277 line voltage power to left end of first fixture in run. Supplied with termination/sealing cap. *Use one feed cable per run only.*

Carries DMX signal and 120-277 line voltage



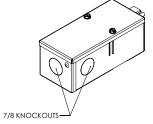
Dynamic Lighting Showcase	Catalog Number MCV502 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	Type 33
	Notes	



ACCESSORY OPTIONS (CONTINUED)

Wire Splice Box, Right Feed (Female Plug), *Optional* *Minimum of one wire splice box, left or right, required for installation

Model	
M500WBXR DXP	Wire Splice Box w/ Sealing Cap, Right Feed, Interior Location (Galvanized Steel)
M500WBXR WTPP DXP	Wire Splice Box,w/ Sealing Cap, Right Feed, Interior Location (White)

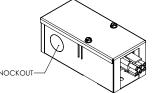


Replaces feed cable for areas where flexible cord cannot be used to bring input DMX signal and 120-277 line voltage power to right end of beginning of run. Box allows 1/2" NPT conduit fitting connection and area for building wire splice connections. Supplied with termination/sealing cap.

Use one wire splice box per run only.

Wire Splice Box, Left Feed (Male Plug), *Optional* *Minimum of one wire splice box, left or right, required for installation

Model		
M500WBXL DXP	Wire Splice Box,w/ Sealing Cap, Left Feed, Interior Location (Galvanized Steel)	7/8 KNOCK
M500WBXL WTPP DXP	Wire Splice Box,w/ Sealing Cap, Left Feed, Interior Location (White)	

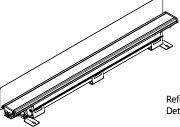


Replaces feed cable for areas where flexible cord cannot be used to bring input DMX signal and 120-277 line voltage power to right end of beginning of run. Box allows 1/2" NPT conduit fitting connection and area for building wire splice connections. Supplied with termination/sealing cap.

Use one wire splice box per run only.

Glare Visor (Linear) *Optional*

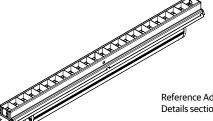
Model		Fixtu	re Section	Finish	
MGVC5	Glare Visor Linear Cove	U2 U3 U4	2FT Length Unit 3FT Length Unit 4FT Length Unit	BKT SIT WTP RALTBD CPF	Black Textured Paint Silver Textured Paint White Textured Paint RAL Paint Finish Custom Painted Finish



Reference Additional Accessory Details section for dimensions

Baffle (Linear) *Optional*

Model		Fixtu	re Section
MBFC5	Baffle Linear Cove (Available in matte black finish only)	U2 U3 U4	2FT Length Unit 3FT Length Unit 4FT Length Unit



Reference Additional Accessory Details section for dimensions



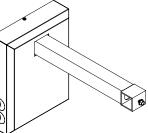
sixteen <mark>5</mark> hundred	Dynamic Lighting Showcase	Catalog Number MCV502 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF 120X120DEG DARK MVOLT WTP DMX NOFCL Notes	^{Type} 33
	16500, INC		



ACCESSORY OPTIONS (CONTINUED)

Liquid-Tight Cord Grip *Optional* Connector to secures and seal 1/2 NPSM Threads feed cord. Cable Diameter Range .44 - .50 diameter Model MCORDGP2 Liquid-Tight Cord Grip (Use to secure and seal feed cord to DPI Box) 1 3/4" (44mm) Brackets *Optional* Series Finish MCBT6 Cantilever Bracket 6" Projection ВКТ Black Textured Paint MCBT12 Cantilever Bracket 12" Projection SIT Silver Textured Paint MCBT18 Cantilever Bracket 18" Projection WTP White Textured Paint RAL Paint Finish RALTBD Reference Additional Accessory CPF Custom Painted Finish Details section for dimensions Brackets *Optional* For use with surface mount junction box (by others) and surface mounted conduit (by

Series		Finish	
MCBTL6 MCBTL12 MCBTL18	Cantilever Bracket Large 6" Projection Cantilever Bracket Large 12" Projection Cantilever Bracket Large 18" Projection	BKT SIT WTP RALTBD CPF	Black Textured Paint Silver Textured Paint White Textured Paint RAL Paint Finish Custom Painted Finish



Reference Additional Accessory Details section for dimensions

others).

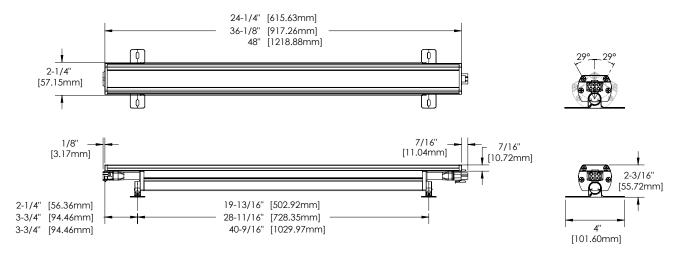


	Dynamic Lighting Onowcase	Catalog Number MCV502 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	^{Туре}
Ŭ	Submitted By 16500, INC	Notes	

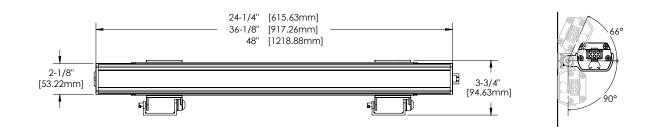


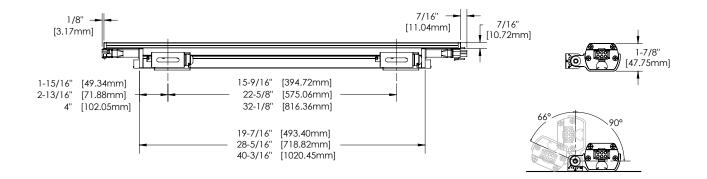
DRAWING DETAILS

M500ADJC1 - Adjustable Mount Center Axis



M500ADJH2 - Adjustable Mount Side Hinge



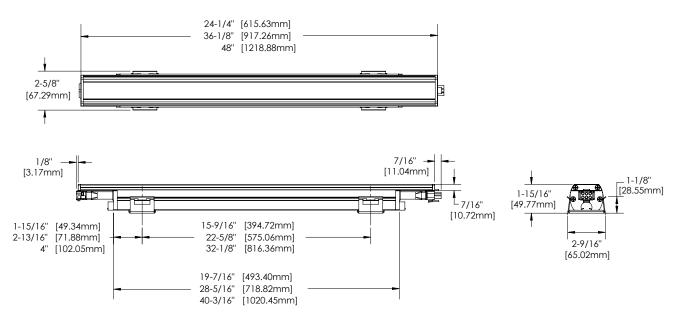


Dynamic Lighting Showcase	Catalog Number MCV502 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	^{Type} 33
	Notes	



DRAWING DETAILS (CONTINUED)

M500FMC - Fixed Mount





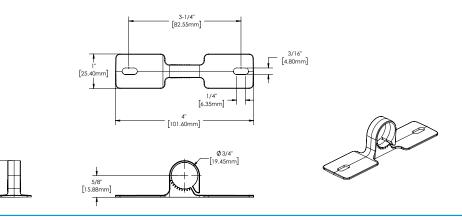
	Dynamic Lighting Showcase	Catalog Number MCV502 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	^{Type} 33
-	Submitted By 16500, INC	Notes	

MARKCOVE Linear Cove Dynamic Color

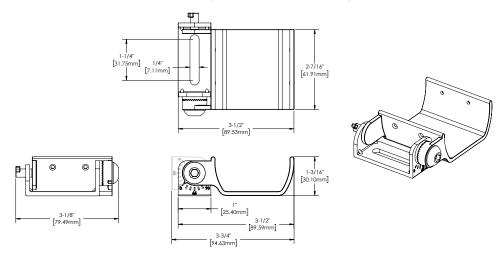
DRAWING DETAILS (CONTINUED)

1-1/16 26.99mr

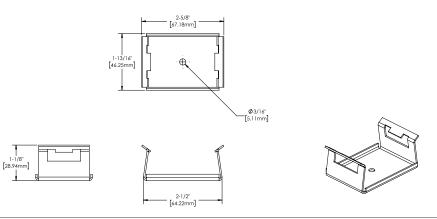
M500ADJC1 - Adjustable Mount Center Axis Detail



M500ADJH2 - Adjustable Mount Side Hinge Detail



M500FMC - Fixed Mount Detail

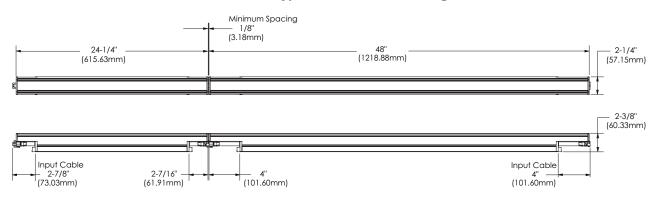


	Dynamic Lighting Showcase	Catalog Number MCV502 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	^{Type} 33
C	Submitted By 16500, INC	Notes	



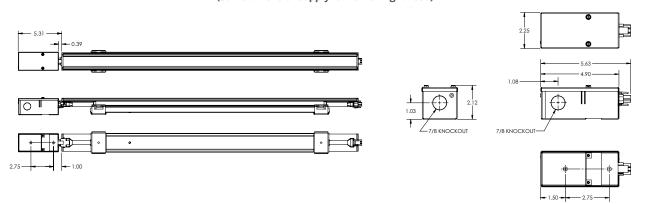
DRAWING DETAILS (CONTINUED)

MCV502 Series Typical End-To-End Run Configuration

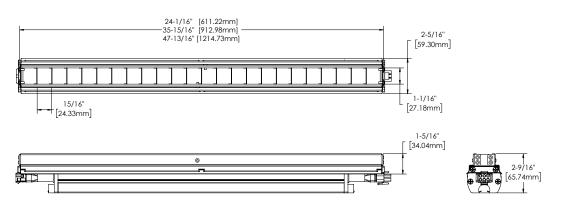


ADDITIONAL ACCESSORY DETAILS

M500WBX Details (Same dimensions apply for Left or Right Feed)



Baffle Linear Cove



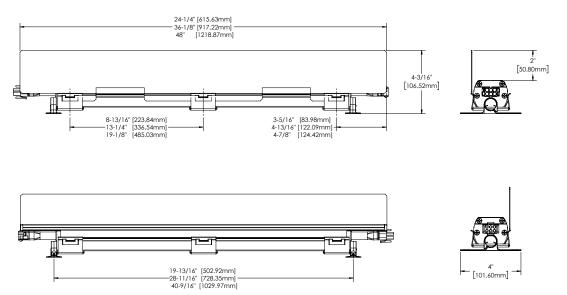


	Dynamic Lighting Showcase	Catalog Number MCV502 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	^{туре} 33
Ŭ	Submitted By 16500, INC	Notes	

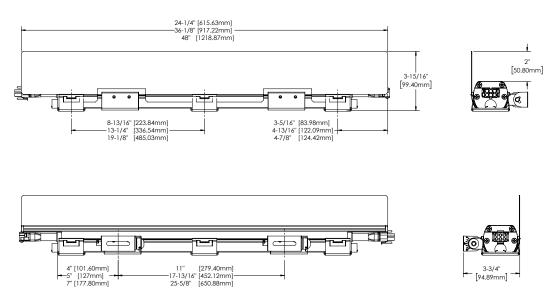


ADDITIONAL ACCESSORY DETAILS (CONTINUED)

Glare Visor with M500ADJC1 Mount



Glare Visor with M500ADJH2 Mount



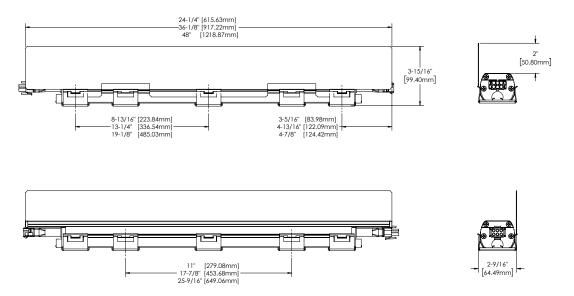


	Dynamic Lighting Showcase	Catalog Number MCV502 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	^{Type}
Ŭ	Submitted By 16500, INC	Notes	

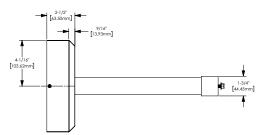


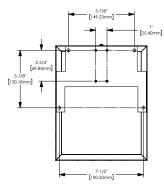
ADDITIONAL ACCESSORY DETAILS (CONTINUED)

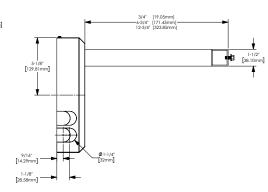
Glare Visor with M500FMC Mount

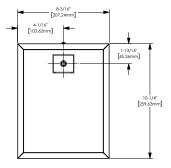


Cantilever Bracket Large Detail









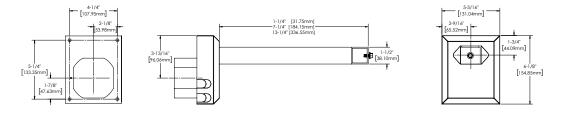
	Dynamic Lighting Showcase	Catalog Number MCV502 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	^{Type} 33
		Notes	



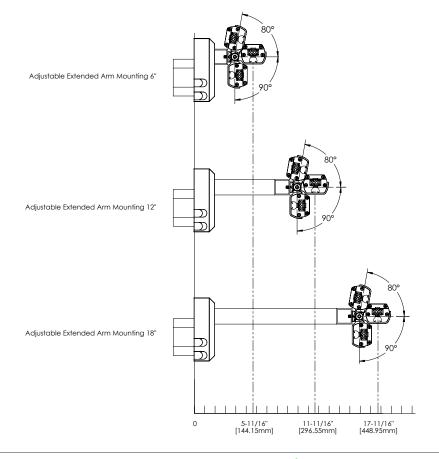
ADDITIONAL ACCESSORY DETAILS (CONTINUED)

Cantilever Bracket Detail





Cantilever Bracket Detail with M500ADJH2 and Fixture



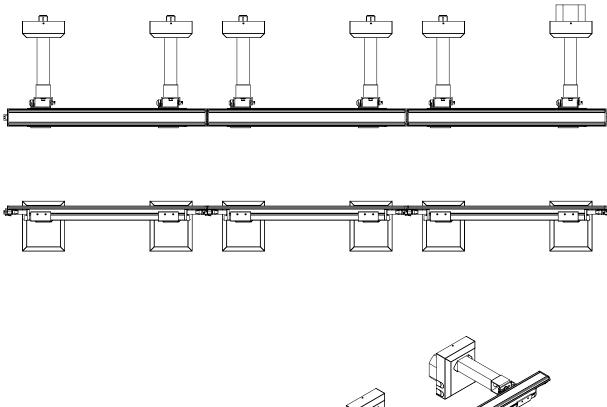


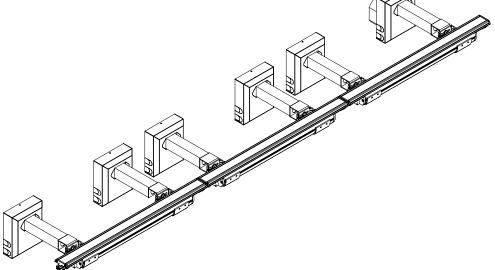
	Bynamie Eighnig Chewease	Catalog Number MCV502 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	^{Туре} 33
	Submitted By 16500, INC	Notes	



ADDITIONAL ACCESSORY DETAILS (CONTINUED)

MCV502 Series Typical End-To-End Run Configuration with Cantilever Brackets (Showing 6-foot run of (3) 2-foot units with MCBT12 bracket accessory







Dynamic Lighting Showcase	Catalog Number MCV502 LCB 4FT MSL4 M500ADJC1 ARTC RGBW 750LMF 120X120DEG DARK MVOLT WTP DMX NOFCL				
Submitted By 16500, INC	Notes				



SPECIFICATIONS

Voltage: 120 through 277v/60Hz

Distribution: 120° x 120°

Size: 2.25W x 1.75H

Housing: Extruded aluminum snap together construction

Finish: Polyester powder coat painted finish. Black oxide fastener color with BKT finish and natural stainless steel fastener color with WTP & SIT finishes

Lens Material: Extruded acrylic with frosted surface

Lumen Maintenance: 120,000 hours L70 @ +55deg C

LED Color Mix: 12 LEDs per 12 inches in a 1:1 ratio (1xRed, 1xGreen, 1xBlue, 1xWhite) Osram Color Wavelengths: RED (620-634nm), GREEN (525-537nm), BLUE (464-470nm), WHITE (4000K)

Control System: Easyl or Fresco DMX512 controller

Ambient Temperature Ranges: -40° to +45°C

Mounting: Suitable for mounting within the space between ground and 4FT (1.2M) of the ground. Suitable for damp location applications.

Certification/Compliance: CSA Certified to meet U.S. and Canadian standards conforming to UL 1598 and CAN/CSA C22.2 No. 250.0

Weight: 24" - 3.0 lbs (1.36 kg) / 36" - 3.5 lbs (1.59 kg) / 48" - 4.5 lbs (2.04 kg) Buy American: This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FARS, DFARS and DOT.

Please refer to www.acuitybrands.com/resources/buy-american for additional information

Warranty: 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25°C.

Specifications subject to change without notice.

Assembled in America: Buy American Act Compliant



Dynamic Lighting Showcase	Catalog Number MCV502 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	^{Type} 34
Submitted By 16500, INC	Notes	

MARKCOVE

LINEAR COVE TUNABLE WHITE & WARM DIMMING

HIGHLIGHTS

- Low profile extruded aluminum housing
- Wide 120 x 120 distribution
- Tunable White available in Rhythm Range (2700-6500K) or Layers Range (2200-5000K) incorporate warm-neutralcool LEDs
- Warm Dimming Golden Range from (3000-2200K)
- Wide and Powerful Range 300, 450, 600, 750 or 1000 lumens per foot
- Efficient with up to 111 lumens per watt
- DXM with Remote Device Management
- Full compliment of mounting and shielding accessories
- Manufactured in USA

LUMEN OUTPUT

MCV502 TUWH RHYR											
Nominal Lumens	300LMF	450LMF	600LMF	750LMF	1000LMF						
Delivered Lumens	354	535	669	847	977						
Input Watts	2.63	3.88	4.88	6.25	7.25						
Lumens/Watt	135	138	137	136	135						

*Based on a 4FT, 80CRI, 40K, RHYR fixture with a standard 120x120 distribution

MCV502 WDIM GOLR											
Nominal Lumens	300LMF	450LMF	600LMF	750LMF	1000LMF						
Delivered Lumens	354	535	669	847	977						
Input Watts	2.63	3.88	4.88	6.25	7.25						
Lumens/Watt	135	138	137	136	135						
*Based on a 4ET 80CPI	AOK COLDE	ivturo with a c	tandard 120v	120 dictributi	07						

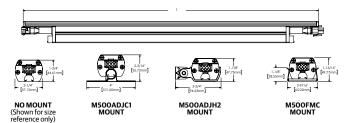
*Based on a 4FT, 80CRI, 40K, GOLR fixture with a standard 120x120 distribution

SPECIFICATIONS

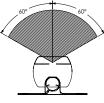


DIMENSIONS

Reference Drawing Detail section for additional information



STANDARD DISTRIBUTION



120x120 Degree





Dynamic Lighting Showcase	Catalog Number MCV502 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	^{Type} 34
Submitted By 16500, INC	Notes	

MARKCOVE

Linear Cove Tunable White & Warm Dimming

Series	Line	Linear Plan			Total Run Length			Max Se	ection Len	gth	Mounti	Inting				Mounting Option	
MCV502 MARKCI 502	OVE LLP LSL LCB	LLP Linear Longest Possib LSL Linear Same Length		near Same Length		_FT Specify continuous linear feet in 1' increments, with minimum of 2'. (Example: 24FT)		witha MSL3 3' MSL4 4' MS		M500ADJC1 Adjustable Mount Center Axis M500ADJH2 Adjustable Mount Side Hinge M500FMC Fixed Mount		Nunt N N N N N	(blank) No Cantilever option MCBT6 Cantilever Bracket 6° Projection MCBT12 Cantilever Bracket 12° Projection MCBT18 Cantilever Bracket 18° Projection MCBT14 Cantilever Bracket 12° Projection MCBT12 Cantilever Bracket 12° Projection MCBT12 Cantilever Bracket Large 6° projection MCBT112 Cantilever Bracket Large 12° project MCBT112 Cantilever Bracket Large 18° project Must have MSOOADJH2 Mounting selected. Cantilever Bracket Large 18° project				
Direct Light Cour																	
Direct Light Sou Color Renderin		namic Fea	iture	I	Dynamic Range Dire			Direct L	rect LED Light Output			Distribu	tion		Minimum Dimming Level		
BOCRI 80CRI 90CRI* 90CRI *Notavailable with LA			imming & RHYR.	GOLR LAYR RHYR	(2200 Layers (2200 Rhythi	n Range IK-3000K) ;Range IK-5000K) m Range IK-6500K)	300lmf 450lmf 600lmf 750lmf 1000lm	450 600 7501	Nominal Lu Nominal Lu Nominal Lu Nominal Lu	nens per mens per nens per	r Foot er Foot r Foot	120X1	20DEG 120:	x 120 degree	is D /	ARK Constant Current, Dimming to <1%	
Optional Sh	ielding	L,	Voltage			Finis	h		Con	trol Inp	ut				Power	rFeed	
black finish MGVC Glare Visor	ar Cove (Matte	ve		: 	WTP White Textured Paint SIT Silver Textured Paint BKT Black Textured Paint RALTBD RAL Color TBD CPF Custom Paint Finish RALTBD is for pricing only. Replace was applicable RAL number when placing			ZT* 0-10V DMX** DMX *For use with WDIM **For use with TUWH th			IM	M500WBXR WireSplice MFCL100TL 100FTFee MFCL100TR 100FTFee MFCL10TR 10FTFeed MFCL25TL 25FTFeed MFCL25TR 25FTFeed MFCL25TL 50FTFeed			e Box, Left Feed, Interior Location, for Conduit Terminat e Box, Right Feed, Interior Location, for Conduit Termina ed Cable Interior Location Left Feed d Cable Interior Location Left Feed d Cable Interior Location Right Feed d Cable Interior Location Right Feed d Cable Interior Location Right Feed d Cable Interior Location Left Feed d Cable Interior Location Left Feed d Cable Interior Location Left Feed		

Accessories	
Controller (Fresco Control System)	See page 8
DMX-Power Integrator (required for installation)	See page 8
Feed Cable (required for installation)	See page 8-10
Jumper Cable	See page 10
Wire Splice Box	See page 11
Liquid-Tight Cord Grip	See page 12
Glare Visor	See page 12
Baffle	See page 12
Brackets	See page 12

Model	Length	Weight				
	24-1/4" (616 mm)	3.0 lbs (1.36 kg)				
MCV502	36-1/8" (918 mm)	3.5 lbs (1.59 kg)				
	48" (1219 mm)	4.5 lbs (2.04 kg)				



	Dynamic Lighting Showcase	Catalog Number MCV502 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	^{⊤ype} 34
—	Submitted By 16500, INC	Notes	

MARKCOVE

Linear Cove Tunable White & Warm Dimming

PERFORMANCE DATA

Tunable White RHYR Range

Lumens Per Foot	Fixture Length	Distribution	CCT/CRI 2700K/80	Input Watts 2700K/80	Delivered Lumens Per Foot	Input Watts Per Foot	CCT/CRI 4000K/80	Input Watts 4000K/80	Delivered Lumens Per Foot	Input Watts Per Foot	CCT/CRI 6500K/80	Input Watts 6500K/80	Delivered Lumens Per Foot	Input Watts Per Foot
	2FT	120x120	655	8.99	328	4.50	756	8.23	378	4.12	819	7.8	410	3.90
300	3FT	120x120	922	13.06	307	4.35	1065	11.95	355	3.98	1153	11.34	384	3.78
	4FT	120x120	1252	17.39	313	4.35	1446	15.91	362	3.98	1566	15.09	392	3.77
	2FT	120x120	789	16.46	395	8.23	911	15.06	456	7.53	987	14.29	494	7.15
450	3FT	120x120	1110	23.92	370	7.97	1282	21.89	427	7.30	1388	20.76	463	6.92
	4FT	120x120	1509	31.84	377	7.96	1742	29.13	436	7.28	1886	27.63	472	6.91
	2FT	120x120	959	13.03	480	6.52	1107	11.92	554	5.96	1199	11.31	600	5.66
600	3FT	120x120	1350	18.93	450	6.31	1559	17.32	520	5.77	1688	16.43	563	5.48
	4FT	120x120	1834	25.2	459	6.30	2117	23.06	529	5.77	2293	21.87	573	5.47
	2FT	120x120	1142	16.64	571	8.32	1319	15.23	660	7.62	1428	14.44	714	7.22
750	3FT	120x120	1607	24.18	536	8.06	1856	22.13	619	7.38	2010	20.99	670	7.00
	4FT	120x120	2183	32.19	546	8.05	2521	29.45	630	7.36	2730	27.94	683	6.99
	2FT	120x120	1336	20.87	668	10.44	1543	19.1	772	9.55	1670	18.11	835	9.06
1000	3FT	120x120	1880	30.32	627	10.11	2171	27.75	724	9.25	2351	26.32	784	8.77
	4FT	120x120	2554	40.36	639	10.09	2950	36.94	738	9.24	3194	35.03	799	8.76

Tunable White LAYR Range

Lumens Per Foot	Fixture Length	Distribution	CCT/CRI 2200K/80	Input Watts 2200K/80	Delivered Lumens Per Foot	Input Watts Per Foot	CCT/CRI 3500K/80	Input Watts 3500K/80	Delivered Lumens Per Foot	Input Watts Per Foot	CCT/CRI 5000K/80	Input Watts 5000K/80	Delivered Lumens Per Foot	Input Watts Per Foot
	2FT	120x120	436	6.56	218	3.28	499	5.12	250	2.56	496	4.85	248	2.43
300	3FT	120x120	633	9.8	211	3.27	724	7.64	241	2.55	720	7.24	240	2.41
	4FT	120x120	830	12.74	208	3.19	949	9.94	237	2.49	943	9.42	236	2.36
	2FT	120x120	726	9.95	363	4.98	830	7.76	415	3.88	825	7.35	413	3.68
450	3FT	120x120	1053	14.86	351	4.95	1204	11.59	401	3.86	1197	10.98	399	3.66
	4FT	120x120	1380	19.32	345	4.83	1579	15.08	395	3.77	1570	14.28	393	3.57
	2FT	120x120	945	13.05	473	6.53	1081	10.18	541	5.09	1075	9.64	538	4.82
600	3FT	120x120	1371	19.49	457	6.50	1568	15.2	523	5.07	1559	14.4	520	4.80
	4FT	120x120	1797	25.34	449	6.34	2055	19.77	514	4.94	2043	18.73	511	4.68
	2FT	120x120	1162	16.67	581	8.34	1329	13.01	665	6.51	1322	12.32	661	6.16
750	3FT	120x120	1686	24.9	562	8.30	1928	19.43	643	6.48	1917	18.4	639	6.13
	4FT	120x120	2210	32.38	553	8.10	2527	25.26	632	6.32	2513	23.93	628	5.98
	2FT	120x120	1441	23.36	721	11.68	1648	18.22	824	9.11	1638	17.26	819	8.63
1000	3FT	120x120	2090	24.89	697	8.30	2390	27.22	797	9.07	2376	25.78	792	8.59
	4FT	120x120	2740	45.37	685	11.34	3133	25.4	783	6.35	3116	33.53	779	8.38

Warm Dimming GOLR Range

Lumens Per Foot	Fixture Length	Distribution	CRI	Delivered Lumens	Input Watts	Lumen/ Watt	Delivered Lumens Per Foot	Input Watts Per Foot
	2FT	120x120	80	630	6.38	99	315	3.19
300	3FT	120x120	80	837	8.79	95	279	2.93
	4FT	120x120	80	1190	11.31	105	298	2.83
	2FT	120x120	80	916	9.47	97	458	4.74
450	3FT	120x120	80	1217	13.03	93	406	4.34
	4FT	120x120	80	1730	16.77	103	433	4.19
	2FT	120x120	80	1211	11.49	105	606	5.75
600	3FT	120x120	80	1609	15.82	102	536	5.27
	4FT	120x120	80	2288	20.35	112	572	5.09
	2FT	120x120	80	1510	13.74	110	755	6.87
750	3FT	120x120	80	2006	18.91	106	669	6.30
	4FT	120x120	80	2853	24.33	117	713	6.08
	2FT	120x120	80	1998	17.61	113	999	8.81
1000	3FT	120x120	80	2655	24.24	110	885	8.08
	4FT	120x120	80	3775	31.19	121	944	7.80

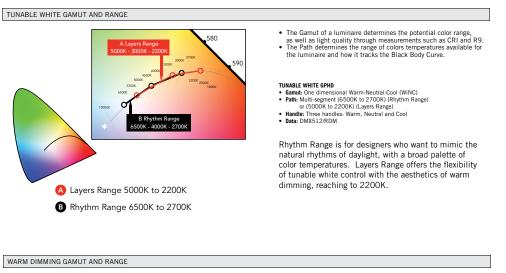
Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Contact factory for performance data on any configurations not shown here.

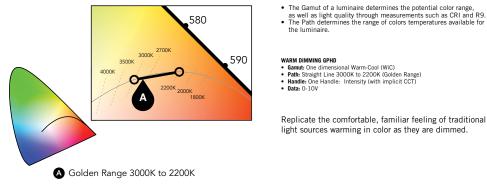


Dynamic Lighting Showcase	Catalog Number MCV502 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	^{Type} 34
Submitted By 16500, INC	Notes	

MARKCOVE

Linear Cove Tunable White & Warm Dimming





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DYNAMIC MCV502_1

sixteen5hundred	Dynamic Eignning Onowcase	Catalog Number MCV502 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	^{⊤ype} 34
	Submitted By 16500, INC	Notes	

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LINEAR PLAN

Mark offers the ability to provide a continuous run plan to suit your requirements by optionally offering three methods of configuration.

LLP Longest Length Possible:

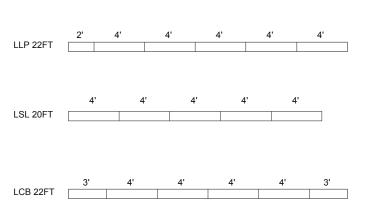
In this plan the longest length available is optimized resulting in the fewest segments and mounting locations. Caution should be used where balanced appearance is a concern. Example: 22FT row would have (5) 4FT segments and (1) 2FT segment located at one end.

LSL Longest Same Length:

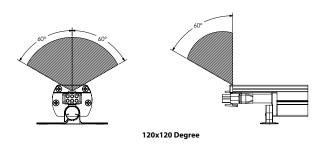
In this configuration each segment is the same length is standardized based on the longest length available and is the only option provided. Because it is dependent on one segment length there are mathematical limitations on what overall row lengths can be achieved. Example: 20FT row would be achieved with (5) 4FT long segments equaling 20FT (nominal).

LCB Longest Center Balanced:

This configuration incorporates the longest center segment(s) along with any additional lengths required to fill located at each end. Example: 22FT row would have (2) 3FT segments (one at each end) and (4) 4FT intermediate segments located in between.



DISTRIBUTION





		Catalog Number MCV502 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	^{Type} 34
Ŭ	Submitted By 16500, INC	Notes	

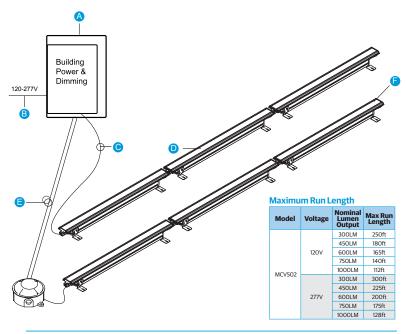
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BASIC SYSTEM WIRING INFORMATION WITHOUT DMX

This very basic system wiring diagram provides an overview of components and materials required for a simple installation of MCV502 luminaires controlled by building system power (By Others). These diagrams should not be used in place of actual installation instructions or submittal drawings prepared for a specific project.

Interior application shown.



Feed Cable Wiring



*Notes

1) Cap BARE SHIELD WIRE in Junction box. (By Others)

2) When not using 0-10V dimming, cap Gray and Purple separately in the junction box. (By Others)

Luminaire installation can be as simple as a single luminaire and one control to many different luminaires in multiple locations being triggered and manipulated in real time. Consulting with the factory at the beginning stages of the project will ensure the required equipment be specified and properly installed.

- A Building power and dimming control input via 0-10V system provided by others.
- B 120V-277V input. Metallic conduit and standard fittings are compatible as are multi-conductor cords provided they are appropriate to the mounting location.
- Feed cable connects junction box or control input with first fixture in a run. 14 ga. conductors carry power, shielded 18 ga. conductors carry data. Input end is stripped for connection to the junction box, output end includes a female or male plug for fixture connection. Also included with each feed cable is a sealing cap for the end of each run.
- A maximum of 32 luminaires can be connected to a single feed cable.
- Power can be run to junction box locations in rigid conduit. Use Belden 9829 for data and copper wire per local code for power. Use appropriate fitting for combination cord.
- F Included with each feed cable is a sealing cap for the last luminaire in each run. See installation instructions.



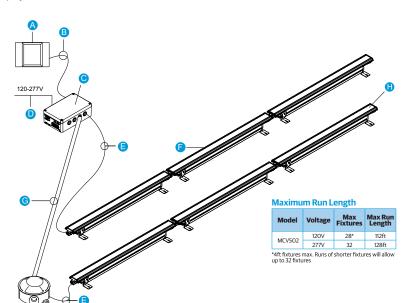
Dynamic Lighting Showcase	-	^{Type} 34
Submitted By 16500, INC	Notes	

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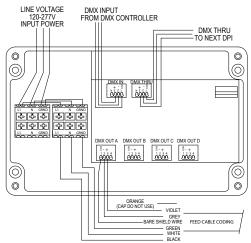
Linear Cove Tunable White & Warm Dimming

BASIC SYSTEM WIRING INFORMATION WITH DMX

This very basic system wiring diagram provides an overview of components and materials required for a simple installation of MCV502 luminaires controlled by a DMX controller. These diagrams should not be used in place of actual installation instructions or submittal drawings prepared for a specific project.



Power & DMX Connection in DPI Box



A tunable white luminaire installation can be as simple as a single luminaire and one control to many different luminaires in multiple locations being triggered and manipulated in real time. Consulting with the factory at the beginning stages of the project will ensure the required equipment be specified and properly installed.

Note: For multiple runs and multiple DPI boxes, consult factory.

Note: No more than four DPI Boxes, in series, can be utilized between the DMX Controller and any luminaire.

A DMX controller providing one universe of DMX-512 control.

To supply a complete system RDM set-up and playback control solution, use:

Fresco

• Manage multiple light sources in multiple lighting zones, all from one controller

On screen lighting design and set-up, no computer required or Ethernet connection for remote

configuration and advanced control

 All device settings are stored on-board in non-volatile memory

Belden 9829 cable is the preferred communication/ data cable used to carry the DMX signal to and from the DPI Box. The total length of this cable must not exceed 1000 feet from the DMX controller to the DPI Box. No luminaires should be installed between DMX Controller and any DPI Box.

DPI box (Data Power Integration) is used to bundle DMX to line voltage and deliver them to the luminaire. This box provides necessary isolation between the DMX control and line voltage and is required for all MCV502 installations. The DPI box also serves as a 4-channel splitter enabling up to 128 fixtures to be controlled from a single DPI box. Refer to DPI Installation Sheet for dimensions and mounting details.

120V-277V input to DPI box. Metallic conduit and standard fittings are compatible as are multi-conductor cords provided they are appropriate to the mounting location.

Feed cable connects junction box with first fixture in a run. 14 ga. conductors carry power, shielded 18 ga. conductors carry data. Input end is stripped for connection to the Junction or DPI box, output end includes a male or female plug for fixture connection. Also included with each feed cable is a termination/ sealing cap for the end of each run. Contact factory for availability of custom feed cable lengths.

A maximum of 32 luminaires can be connected to a single output channel of the DPI box. The maximum length of cord and luminaire run combined is 1000 feet per DMX/ RDM specification.

Power and Data can be run to junction box locations in rigid conduit. Use Belden 9829 for data and copper wire per local code for power. Use appropriate fitting for combination cord.

To ensure data integrity, a termination/sealing cap with 120 Ohm resistor is required at the last luminaire in each run. See installation instructions.

Fresco Control System



💥 MAINSTREAM DYNAMIC

Dynamic Lighting Showcase	Catalog Number MCV502 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	^{Type} 34
	Notes	

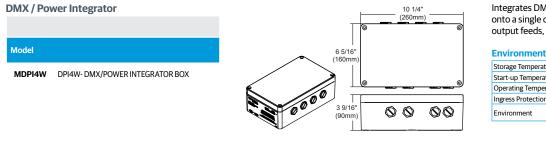


Linear Cove Tunable White & Warm Dimming

ACCESSORY OPTIONS

Fresco Control System

Series	Model	Options	Finish	fragaci
FCS Fresco Control System	7TSN 7" touchscreen with nLight port	(blank) nlight only X DMX/RDM control	DBLBlackDWHWhiteDNANatural Aluminum	
Refer to FRESCO spec sheet fo	r additional details and o	ptions	1	



Integrates DMX signal & 120-277 line voltage onto a single cable. Exterior rated, up to 4 output feeds, Silver Textured Finish.

Environmental Information

Storage Temperature	40°F - 185°F
Start-up Temperature	13°F - 122°F
Operating Temperature	13°F - 122°F
Ingress Protection Rating	IP65
Environment	Suitable for indoor and outdoor applications

Feed Cable, Right Feed (Female Plug)

Model

MFCL10TR BCRD DXP

MFCL25TR BCRD DXP

MFCL50TR BCRD DXP

MFCL100TR BCRD DXP

MFCL10TR WCRD DXP MFCL25TR WCRD DXP

MFCL50TR WCRD DXP MFCL100TR WCRD DXP

*Minimum of one feed cable, left or right, required per installation

10FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (Black)

25FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (Black)

50FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (Black)

100FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (Black)

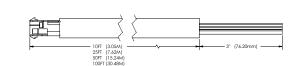
10FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (White)

25FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (White) 50FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (White)

100FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (White)

#3 - GREEN

Carries DMX signal and 120-277 line voltage power to right end of first fixture in run. Supplied with termination/sealing cap. *Use one feed cable per run only.*





Dynamic Lighting Onowcase	Catalog Number MCV502 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	^{⊤ype} 34
	Notes	



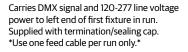
Linear Cove Tunable White & Warm Dimming

ACCESSORY OPTIONS (CONTINUED)

Feed Cable, Left Feed (Male Plug)

*Minimum of one feed cable, left or right, required per installation

Model		
MFCL10TL BCRD DXP	10FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (Black)	
MFCL25TL BCRD DXP	25FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (Black)	
MFCL50TL BCRD DXP	50FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (Black)	#3 - GREEN #2 - WHITE
MFCL100TL BCRD DXP	100FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (Black)	Record
MFCL10TL WCRD DXP	10FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (White)	#6-SHIELD
MFCL25TL WCRD DXP	25FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (White)	10 O.C
MFCL50TL WCRD DXP	50FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (White)	
MFCL100TL WCRD DXP	100FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (White)	





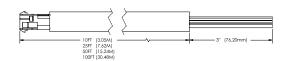
Feed Cable, Right Feed (Female Plug) *Minimum of one feed cable, left or right, required per installation

Model	
MFCL10TR BCRD NDXP	10FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (Black)
MFCL25TR BCRD NDXP	25FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (Black)
MFCL50TR BCRD NDXP	50FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (Black)
MFCL100TR BCRD NDXP	100FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (Black)
MFCL10TR WCRD NDXP	10FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (White)
MFCL25TR WCRD NDXP	25FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (White)
MFCL50TR WCRD NDXP	50FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (White)
MFCL100TR WCRD NDXP	100FT Feed Cable w/ Sealing Cap, Right Feed, Interior Location (White)



Carries NON-DMX signal and 120-277 line voltage power to right end of first fixture in run.

Supplied with termination/sealing cap. *Use one feed cable per run only.*





	Dynamic Lighting Showcase	Catalog Number MCV502 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	^{Type} 34
Ŭ		Notes	



Linear Cove Tunable White & Warm Dimming

ACCESSORY OPTIONS (CONTINUED)

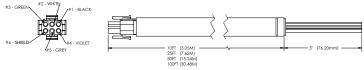
Feed Cable, Left Feed (Male Plug)

*Minimum of one feed cable, left or right, required per installation

Model	
MFCL10TL BCRD NDXP	10FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (Black)
MFCL25TL BCRD NDXP	25FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (Black)
MFCL50TL BCRD NDXP	50FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (Black)
MFCL100TL BCRD NDXP	100FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (Black)
MFCL10TL WCRD NDXP	10FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (White)
MFCL25TL WCRD NDXP	25FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (White)
MFCL50TL WCRD NDXP	50FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (White)
MFCL100TL WCRD NDXP	100FT Feed Cable w/ Sealing Cap, Left Feed, Interior Location (White)

Jumper Cable *Optional*

Model	
MJCLWIT BCRD MJCLW3T BCRD MJCLW5T BCRD MJCLWIT WCRD MJCLW3T WCRD	1FT Jumper Cable Interior Location (Black) 3FT Jumper Cable Interior Location (Black) 5FT Jumper Cable Interior Location (Black) 1FT Jumper Cable Interior Location (White) 3FT Jumper Cable Interior Location (White)
MJCLW5T WCRD	5FT Jumper Cable Interior Location (White)

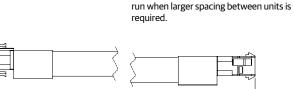


run.

Carries NON-DMX signal and 120-277 line voltage power to left end of first fixture in

Carries DMX or NON-DMX signal and 120-277 line voltage power between two units in a

Supplied with termination/sealing cap. *Use one feed cable per run only.*



1FT (0.305M) 3FT (0.91M) 5FT (1.52M)



	Dynamic Lighting Showcase	-	^{Type} 34
SixteenOndidied		Notes	



Linear Cove Tunable White & Warm Dimming

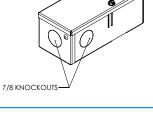
ACCESSORY OPTIONS (CONTINUED)

Wire Splice Box, Right Feed (Female Plug), *Optional* *Minimum of one wire splice box, left or right, required for installation

Model	
M500WBXR DXP	Wire Splice Box w/ Sealing Cap, Right Feed, Interior Location (Galvanized Steel)
M500WBXR WTPP DXP	Wire Splice Box,w/ Sealing Cap, Right Feed, Interior Location (White)

Wire Splice Box, Left Feed (Male Plug), *Optional* *Minimum of one wire splice box, left or right, required for installation

Model		
M500WBXL DXP	Wire Splice Box,w/ Sealing Cap, Left Feed, Interior Location (Galvanized Steel)	7/8 KNOCKOUT
M500WBXL WTPP DXP	Wire Splice Box,w/ Sealing Cap, Left Feed, Interior Location (White)	



Replaces feed cable for areas where flexible cord cannot be used to bring input DMX signal and 120-277 line voltage power to right end of beginning of run. Box allows 1/2" NPT conduit fitting connection and area for building wire splice connections. Supplied with termination/sealing cap.

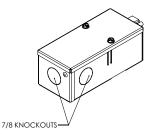
Use one wire splice box per run only.

Replaces feed cable for areas where flexible cord cannot be used to bring input DMX signal and 120-277 line voltage power to right end of beginning of run. Box allows 1/2" NPT conduit fitting connection and area for building wire splice connections. Supplied with termination/sealing cap.

Use one wire splice box per run only.

Wire Splice Box, Right Feed (Female Plug), *Optional* *Minimum of one wire splice box, left or right, required for installation

Model	
M500WBXR NDXP	Wire Splice Box w/ Sealing Cap, Right Feed, Interior Location (Galvanized Steel)
M500WBXR WTPP NDXP	Wire Splice Box,w/ Sealing Cap, Right Feed, Interior Location (White)



Replaces feed cable for areas where flexible cord cannot be used to bring input NON-DMX signal and 120-277 line voltage power to right end of beginning of run. Box allows 1/2" NPT conduit fitting connection and area for building wire splice connections. Supplied with termination/sealing cap.

Use one wire splice box per run only.

Wire Splice Box, Left Feed (Male Plug), *Optional* *Minimum of one wire splice box, left or right, required for installation

Μ	odel	

M500WBXL NDXP Wire Splice Box,w/ Sealing Cap, Left Feed, Interior Location (Galvanized Steel) M500WBXL WTPP NDXP Wire Splice Box,w/ Sealing Cap, Left Feed, Interior Location (White)

7/8 KNOCKOUT

Replaces feed cable for areas where flexible cord cannot be used to bring input NON-DMX signal and 120-277 line voltage power to right end of beginning of run. Box allows 1/2" NPT conduit fitting connection and area for building wire splice connections. Supplied with termination/sealing cap.

Use one wire splice box per run only.

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Dynamic Lighting Showcase	Catalog Number MCV502 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	^{Type} 34
Submitted By 16500, INC	Notes	



Linear Cove Tunable White & Warm Dimming

ACCESSORY OPTIONS (CONTINUED)

Glare Vis	sor (Linear) *C	Option	ial*			
Model		Fixtu	re Section	Finish		
MGVC5	Glare Visor Linear Cove	U2 U3 U4	2FT Length Unit 3FT Length Unit 4FT Length Unit	BKT SIT WTP RALTBE CPF	Black Textured Paint Silver Textured Paint White Textured Paint ORAL Paint Finish Custom Painted Finish	Reference Additional Accessory Details section for dimensions
Baffle (L	inear) *Optio	nal*				
Model			Fixture Section			
MBFC5	Baffle Linear Cove (Available in matte finish only)	e e black	U2 2FT Leng U3 3FT Leng U4 4FT Leng	th Unit		Reference Additional Accessory Details section for dimensions

Liquid-Tight Cord Grip *Optional*

MCBT6 Cantilever Bracket 6" Projection

MCBT12 Cantilever Bracket 12" Projection

MCBT18 Cantilever Bracket 18" Projection



Black Textured Paint

Silver Textured Paint

White Textured Paint

Custom Painted Finish

RALTBD RAL Paint Finish

Connector to secures and seal feed cord.

Reference Additional Accessory Details section for dimensions

For use with surface mount

Brackets *Optional*

Brackets *Optional*

Series

Brackets *Optional*		For use with surface mount junction box (by others) and surface mounted conduit (by
Series	Finish	others).
MCBTL6 Cantilever Bracket Large 6" Projection MCBTL12 Cantilever Bracket Large 12" Projection MCBTL18 Cantilever Bracket Large 18" Projection	BKTBlack Textured PaintSITSilver Textured PaintWTPWhite Textured PaintRALTBDRAL Paint FinishCPFCustom Painted Finish	Reference Additional Accessor Details section for dimensions

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Finish

вкт

SIT

WTP

CPF



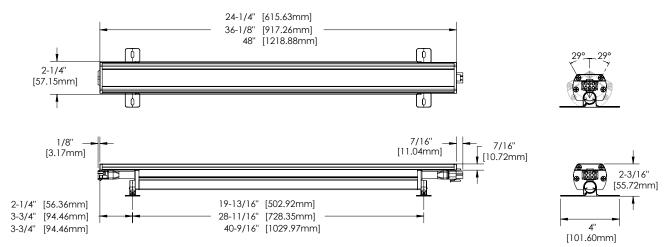
Dynamic Lighting Showcase	Catalog Number MCV502 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	^{Type} 34
Submitted By 16500, INC	Notes	



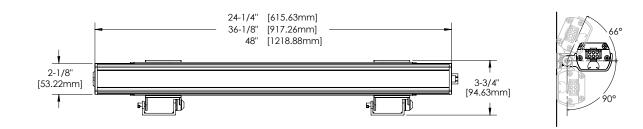
Linear Cove Tunable White & Warm Dimming

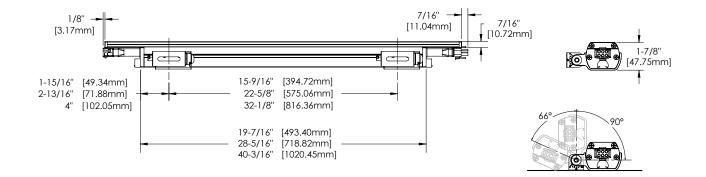
DRAWING DETAILS

M500ADJC1 - Adjustable Mount Center Axis



M500ADJH2 - Adjustable Mount Side Hinge







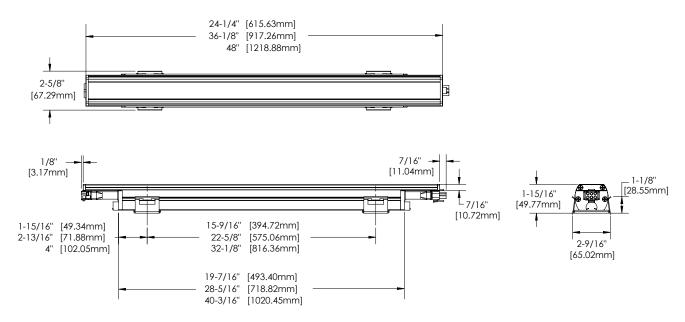
	Dynamic Lighting Showcase	Catalog Number MCV502 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	^{Type} 34
O		Notes	

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Linear Cove Tunable White & Warm Dimming

DRAWING DETAILS (CONTINUED)

M500FMC - Fixed Mount





Dynamic Lighting Showcase	Catalog Number MCV502 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	^{Type} 34
	Notes	

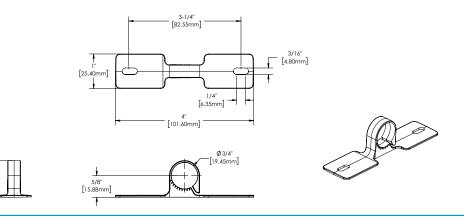
MARKCOVE

Linear Cove Tunable White & Warm Dimming

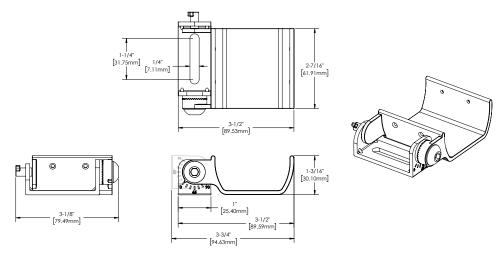
DRAWING DETAILS (CONTINUED)

1-1/16 26.99mr

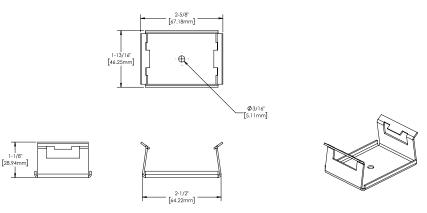
M500ADJC1 - Adjustable Mount Center Axis Detail



M500ADJH2 - Adjustable Mount Side Hinge Detail



M500FMC - Fixed Mount Detail



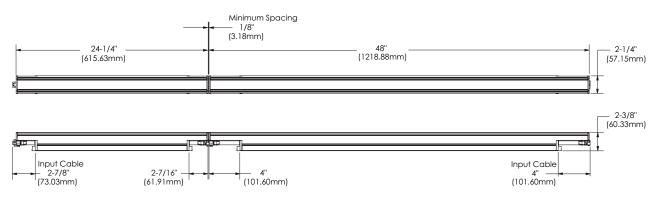
	Catalog Number MCV502 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	^{Type} 34
Submitted By 16500, INC	Notes	

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Linear Cove Tunable White & Warm Dimming

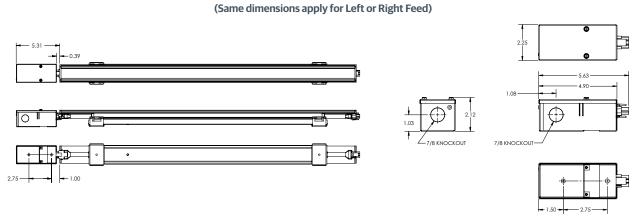
DRAWING DETAILS (CONTINUED)

MCV502 Series Typical End-To-End Run Configuration

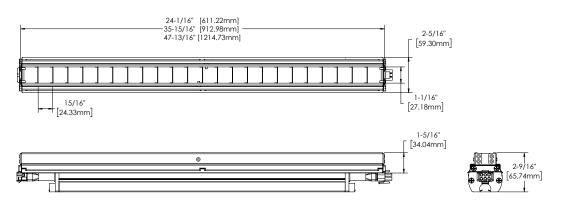


ADDITIONAL ACCESSORY DETAILS

M500WBX Details



Baffle Linear Cove





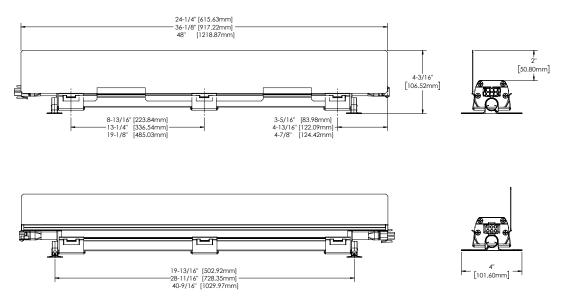
Dynamic Lighting Showcase	Catalog Number MCV502 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	^{Type} 34
Submitted By 16500, INC	Notes	



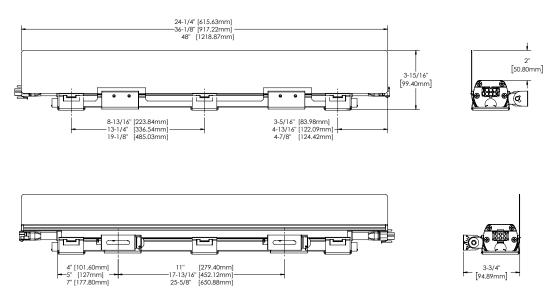
Linear Cove Tunable White & Warm Dimming

ADDITIONAL ACCESSORY DETAILS (CONTINUED)

Glare Visor with M500ADJC1 Mount



Glare Visor with M500ADJH2 Mount





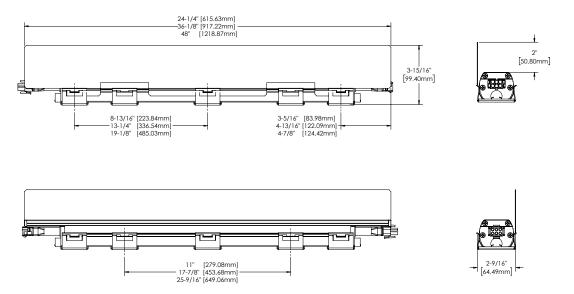
	Drain at 04 40077 5 Data 7/00/0004	Catalog Number	Tuno
	Dynamic Lighting Showcase	MCV502 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	^{Type} 34
C	Submitted By 16500, INC	Notes	



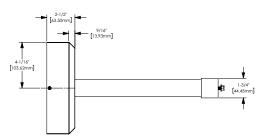
Linear Cove Tunable White & Warm Dimming

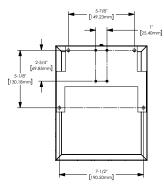
ADDITIONAL ACCESSORY DETAILS (CONTINUED)

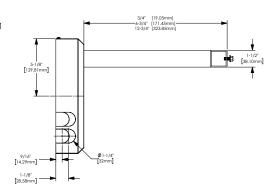
Glare Visor with M500FMC Mount

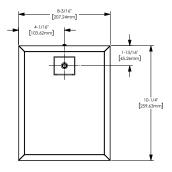


Cantilever Bracket Large Detail









Dynamic Lighting Showcase	Catalog Number MCV502 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	^{Type} 34
	Notes	

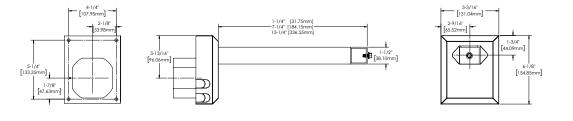


Linear Cove Tunable White & Warm Dimming

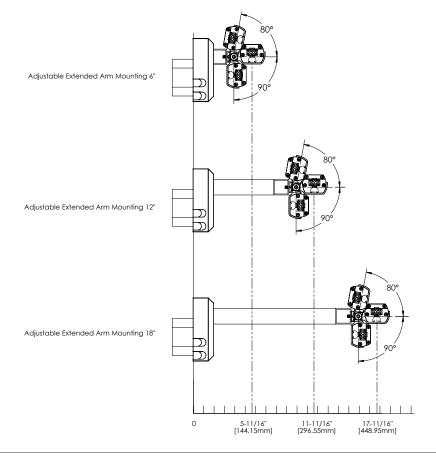
ADDITIONAL ACCESSORY DETAILS (CONTINUED)

Cantilever Bracket Detail





Cantilever Bracket Detail with M500ADJH2 and Fixture





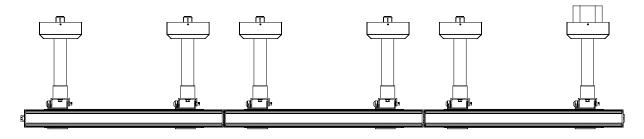
	Dynamic Lighting Showcase	Catalog Number MCV502 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF 120X120DEG DARK MVOLT WTP DMX NOFCL	^{⊤ype} 34
Ŭ	Submitted By 16500, INC	Notes	



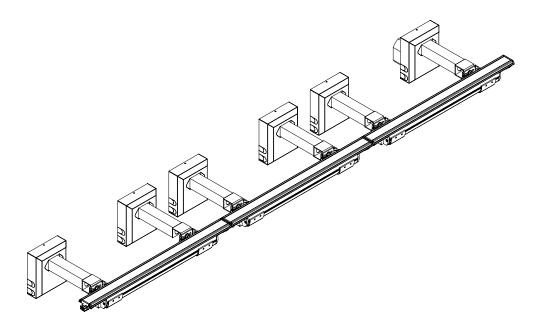
Linear Cove Tunable White & Warm Dimming

ADDITIONAL ACCESSORY DETAILS (CONTINUED)

MCV502 Series Typical End-To-End Run Configuration with Cantilever Brackets (Showing 6-foot run of (3) 2-foot units with MCBT12 bracket accessory









	Dynamic Lighting Showcase	Catalog Number MCV502 LCB 4FT 450LMF 120X120D
-	Submitted By	Notes
	16500, INC	

MCV502 LCB 4FT MSL4 M500ADJC1 80CRI TUWH RHYR 450LMF 120X120DEG DARK MVOLT WTP DMX NOFCL

Туре 34



MARKCOVE

Linear Cove Tunable White & Warm Dimming

SPECIFICATIONS

Voltage: 120 through 277v/60Hz

Distribution: 120° x 120°

Size: 2.25W x 1.75H

Housing: Extruded aluminum snap together construction

Finish: Polyester powder coat painted finish. Black oxide fastener color with BKT finish and natural stainless steel fastener color with WTP & SIT finishes

Lens Material: Extruded acrylic with frosted surface

Lumen Maintenance: LAYR: 60,000 hours L70 @ +120deg C.

RHYR: 120,000 hours L70@ +55deg C. GOLR: 60,000 hours L70@ +55deg C **LED Color Mix:** RHYR: 12 LEDs per 12 inches in a 1:1 ratio (1x2700k, 1x4000k, 1x6500k). LAYR: 12 LEDs per 12 inches in a 1:1 ratio (1x2200k, 1x3000k,1x5000k). GOLR: 12 LEDs per 12 inches in a 2:1 ratio (2x3000k, 1x2200k)

Control System: Fresco DMX512 controller, 0-10V dimmer control (WDIM)

Ambient Temperature Ranges: -40° to +45°C

Mounting: Suitable for mounting within the space between ground and 4FT (1.2M) of the ground. Suitable for damp location applications.

Certification/Compliance: CSA Certified to meet U.S. and Canadian standards conforming to UL 1598 and CAN/CSA C22.2 No. 250.0

Weight: 24" - 3.0 lbs (1.36 kg) / 36" - 3.5 lbs (1.59 kg) / 48" - 4.5 lbs (2.04 kg) Buy American: This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FARS, DFARS and DOT. Please refer to <u>www.acuitybrands.com/resources/buy-american</u> for additional information.

Warranty: 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-conditions

Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25° C.

Specifications subject to change without notice.

Assembled in America: Buy American Act Compliant





Uno circles, direct

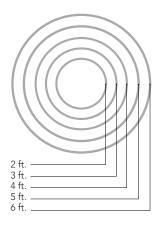
LED direct circular pendant with frosted acrylic diffuser



CONSTRUCTION

- Extruded aluminum outer housing
- Direct white frosted acrylic diffuser.
- 8 ft. gray or white 18 AWG adjustable power cord and AC cables. Push button grippers supplied, standard. Specify XP for additional length (25 ft. max.).
- Drivers and DMX module installed in surface mount canopy. For remote driver installation, see below.
- cUL listed for dry locations only.
 Nominal diameters, right. For actual diameters (in.), see p. 2.

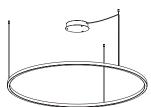




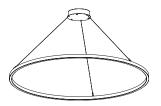
MODEL#	FINISH		LEDS	MOUNT STYLE	DIMMING	OPTION	
UC2-2 ft. UC3-3 ft. UC4-4 ft. UC5-5 ft. UC6-6 ft.	S-Silver W-White K-Black	BW-Barn Wood CB-Carbon Fiber ES-Espresso HO-Honey Oak M-Maple SD-Silver Driftwood SL-Saddle Leather	DC-Dark Cherry TL-Tan Leather KL-Khaki Leather	W30 W35 W40 Red Blue SQ-RGB	S-Separate SR-Separate Remote CS-Central Standard CR-Central Remote NCR-Nexus CR	D BDIM-W11	EM -Emergency

BTRAXW-Traxon Light Drive (enter quantity)	XP -Extra power cord (in inches, 25 ft. max.)	
XL-custom lumen reduction (specify lumens)		

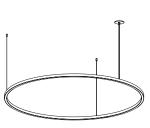
MOUNT STYLES



S – Separate



CS – Central Standard



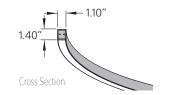
 $\boldsymbol{\mathsf{SR}}-\boldsymbol{\mathsf{Separate}}$ Remote



CR – Central Remote delraylighting.com



 $\ensuremath{\text{NCR}}$ – Nexus Central Remote



NOV 2020

^{туре}

Uno circles, direct

LED direct circular pendant frosted acrylic diffuser

WHITE LEDS

Nichia Corp. NFSL757 tight bin chips on aluminum boards. 90 CRI. Specify color: W30–3000° Kelvin, W35–3500° Kelvin, or W40–4000° Kelvin.

COLOR LEDS

Flexible 5050 tapelights. Specify **R**–Red, **B**–Blue, or **SQ**–RGB Sequencer. **SQ** includes **BDMXMOD**–DMX 512 RGB interface; or order **BTRAXW**–Traxon Light Drive DMX wall box separately.**

12V constant voltage driver for single color, 24V for RGB sequencer.

DIAMETER / WATTS / LUMENS / WEIGHT

J delray.

DIMMING

WEIGHT (lb.)

7

16

18

20

- D-standard supplied driver. 0–10V, programmable, 1% dimming, 120/277V, 50/60 Hz.
- BDIM-W11–Lutron EcoSystem LED14 Series, 1% dimming, fade-to-off. Remote (SR, CR, NCR) install only.

CUSTOM LUMEN OUTPUT REDUCTION

Factory set custom reduced-lumen output driver configuration. Order **XL**. Specify lumens.

DIAMETER: NOMINAL (ACTUAL)	WATTS	DELIVERED LUMENS
2 ft. (25.10 in.)	26	2,166
3 ft. (35.10 in.)	39	3,250

4,333

5,416

6,500

52

65

78

REMOTE DRIVERS

4 ft. (45.10 in.)

5 ft. (65.10 in.)

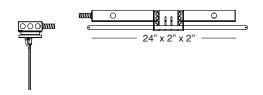
6 ft. (80.10 in.)

For suspended and hard lid ceilings with access panels. Canopy mounts to mud ring attached to J-box. Must be accessible after installation.

Standard pendant length: 8 ft. Specify **XP** for extra pendant. Maximum canopy to fixture distance: 25 ft. Maximum canopy to driver distance: 100 ft. (with 10 AWG wire).

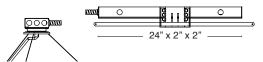
Remote Driver Canopy 3.8 x 0.45 in.

SR – Separate mount driver installation.

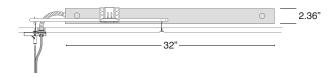


NOTE: Multiple drivers must be mounted no less than four inches apart side-by-side, and one inch apart end-to-end, to prevent overheating.

CR – Central mount remote driver installation.



EM – Emergency. T-bar install shown, below. Battery pack provides 10W for 90 minutes. Remote install only. Red driver light and test switch mounted in handy box installed at ceiling.



TRAXON/OSRAM LIGHT DRIVE**

BTRAXW-white faceplate

- Standalone, wall-mounted (12V power supply included) DMX controller for RGBW LED that provides direct access to fixtures.
- Tune color and brightness with the Light-Drive wheel
- Fully dimmable white mode button.
- See http://www.osram.com/ecue for details.

AIRCRAFT CABLE

NOTE: Not recommended for outdoor use, where fixture will be exposed to water, or subject to wind oscillation. Avoid use near HVAC vents and in environments with corrosive chemical vapors, such as swimming pools.

ACRYLIC DIFFUSER CLEANING

WARNING: Do not clean with ammonia based cleaners (e.g. Windex®). Use only water or cleaners specifically formulated for cleaning plastics.

PAINT FINISHES

SWATCH

Catalog Number UC2 W SQ CR DMX

Notes

TEXTURED FINISHES



Uno circles, direct

LED direct circular pendant frosted acrylic diffuser

FINISH NO.

S-Silver

W-white



PREMIUM TEXTURED FINISHES

SWATCH	FINISH NO.	SWATCH	FINISH NO.
	BW -Barnwood		DC -Dark Cherry
	CB -Carbon Fiber		TL -Tan Leather
	ES -Espresso		KL -Khaki Leather
	HO-Honey Oak		
	M -Maple		
	SD -Silver Driftwood		
	SL -Saddle Leather		



Uno linear direct

direct linear LED pendant or surface, with white acrylic lens



- Aluminum extrusion with a matte anodized finish.
- White direct DR acrylic frosted lens.
- Suspended with field-adjustable aircraft cable, with push-button glider.
 8 ft. 18 AWG power cord.
 Each module requires its own power feed. Specify XP for additional length.
- (25 ft. maximum.)Default finish/power cord pairings are silver/gray, white/white, black/black.



- For RAL colors, power cord color must be specified.
- For differing fixture/canopy colors, please consult factory.
- Drivers and DMX module remotely installed in surface
- mount housing. For remote driver installation, see p. 2.
- Drivers are universal voltage (120–277V).
- cUL listed for dry and 1.10⁻⁻ damp locations only. End Cap (1:2 scale)



MODEL#	LENGTH	FINISH			LEDS	DIMMING	OPTIONS	
ULP-direct pendant ULS-direct surface	2 -2 ft. 3 -3 ft. 4 -4 ft. 5 -5 ft. 6 -6 ft. 8 -8 ft Enter Run Length (ft.)	S-Silver W-White K-Black CC-RAL Color*	BW-Barn Wood CB-Carbon Fiber ES-Espresso HO-Honey Oak M-Maple SD-Silver Driftwood SL-Saddle Leather	DC-Dark Cherry TL-Tan Leather KL-Khaki Leather	W30 W35 W40 RGBW-color + 3500° K white	D-Standard BDIM-W11 DMX DA-DALI DPH-Phase (120V only)	SLRD SLRDTB S100P EM	

BDMXCON-W-white faceplate (enter quantity):	XP -Extra power cord (in inches, 25 ft. max.):	
BDMXCON-B-black faceplate (enter quantity):	Specify canopy finish (silver, white, black):	
EB-Earthquake Bracing Kit (enter quantity):	Specify power cord color (gray, white, black):	
XL-custom lumen reduction (specify lumens):	*Specify RAL color number:	

ULP – Pendant

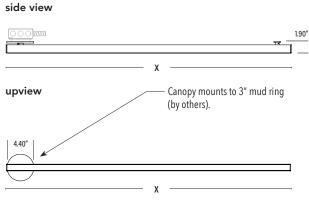
Individual Modules & Continuous Runs, SLRD Mount



NOMINAL	X=ACTUAL	ľ
2 ft.	23.75"	6
3 ft.	35.13"	t
4 ft.	46.50"	S
5 ft.	57.90"	F
6 ft.	69.25"	a
8 ft.	92.00"	F

Х





NOTE: Specify overall length. Delray will configure the run utilizing the longest standard module lengths. For specific module lengths and power feed placements, please consult factory.

Uno linear direct

direct linear LED pendant or surface, with white acrylic lens

WHITE LEDS

Nichia Corp. NFSL757 linear board chips. 90 CRI. Specify color: W30-3000° Kelvin, W35-3500° Kelvin, or W40-4000° Kelvin.

CUSTOM LUMEN OUTPUT REDUCTION

Factory set custom reduced-lumen output driver configuration. Order XL. Specify lumens.

COLOR LEDS

RGBW with 3500° K white. Includes RGBW interface. Optional DMX controller also available. (See below. right.)

WATTS / LUMENS

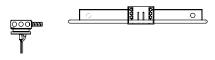
LENGTH	WATTS		DELIVERED LUMENS		
Nominal (Actual)	White	RGBW	White	RGBW	
2 ft. (23.75 in.)	10	6	866	N/A	
3 ft. (35.13 in.)	15	9	1,293	N/A	
4 ft. (46.50 in.)	20	12	1,733	N/A	
5 ft. (57.90 in.)	25	15	2,159	N/A	
6 ft. (69.25 in.)	30	18	2,585	N/A	
8 ft. (92.00 in.)	40	24	3,465	N/A	

REMOTE DRIVERS

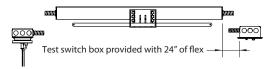
Drivers must be accessible after installation. Multiple driver housings must be mounted no closer than 4" apart sideby-side, or 1" apart end-to-end, to avoid overheating. Driver to canopy distance should not exceed 100 ft., using 10 AWG wire.

SLRD: Standard remote housing has no bar hangers and mounts to structure with screws. Dimensions: 24" length, 2.36" height, 2.65" width.

SLRDTB: Remote housing for T-bar ceiling includes bar hangers. Dimensions: 27" length, 3.4" height, 4.25" width.



EM/SLRDTB: Remote EM housing for T-bar ceiling includes bar hangers and remote test switch. Dimensions: 36" length, 3.4" height, 4.25" width. Provides 10W for 90 minutes.



DRIVER HOUSING DIMENSIONS

Standard: 16" x 2.36"

Standard EM: 35.50" x 1.90"

OPTIONAL J-BOX COVER

Cover plate mounts to maximum 4" square J-box. Ballast housing mounts to wall on top of cover plate, which may be painted to match ceiling or wall, and includes two mounting spacers to offset cover thickness. Order **S100P**.

		5'
l	5"	

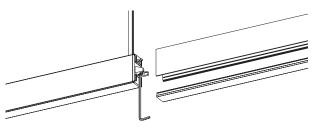


DIMMING

- D-standard supplied driver. 0-10V, programmable, 1% dimming, 120-277V, 50/60 Hz.
- BDIM-W11–Lutron EcoSystem LED14 Series, 120–277V, 1% dimming, fade-to-off.
- DPH-Triac and ELV 1% dimming at 120V 60 Hz only.
- DA-DALI 1% dimming, fade-to-off. 120-277V, 50/60 Hz.
- DMX-for both white and RGBW LEDs, 0.1% dimming fade-to-off. 120-277V, 50/60Hz.

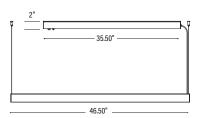
CONTINUOUS MOUNT

Continuous runs include joiner UJ.



EMERGENCY

For 4' through 8' fixtures only. Battery pack provides 10W for 90 minutes. Adds additional length to driver housing.



OPTIONAL DMX CONTROLLER

- Standalone, wall-mounted DMX controller for RGBW LED that provides direct access to fixtures. Power supply included.
- Tune color hue with sensitive wheel. Saturation and brightness control. On/off switch.
- See https://www.nicolaudie.com/en/stick-cw4.htm for details.
- Order separately, either BDMXCON-W-white faceplate or BDMXCON-B-black faceplate.

AIRCRAFT CABLE

NOTE: Not recommended for outdoor use, where fixture will be exposed to water, or subject to wind oscillation. Avoid use near HVAC vents and in environments with corrosive chemical vapors, such as swimming pools.

202

MAR

ACRYLIC DIFFUSER CLEANING

WARNING: Do not clean with ammonia based cleaners (e.g. Windex®). Use only water or cleaners specifically formulated for cleaning plastics.

	Project 21-12877-5 Date 7/26/2021 Dynamic Lighting Showcase
sixteen5hundred	
	Submitted By
	16500, INC

Catalog Number ULP4 W RGBW

Notes

Uno linear direct

SWATCH

direct linear LED pendant or surface, with white acrylic lens



PAINT FINISHES **TEXTURED FINISHES** PREMIUM TEXTURED FINISHES FINISH NO. FINISH NO. SWATCH SWATCH FINISH NO. **BW**–Barnwood DC-Dark Cherry S-Silver TL-Tan Leather W-white CB-Carbon Fiber KL-Khaki Leather ES-Espresso K-Black HO-Honey Oak M-Maple **TEXTURED FINISHES - CANOPY AND** POWER CORD COLORS Specify Silver, White, Black or RAL color for canopy. Also specify Gray, White or Black power cord. SD-Silver Driftwood SL-Saddle Leather

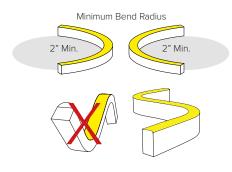




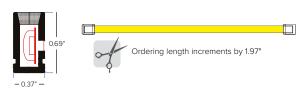
a brand of TARGETTI

KEY FEATURES

- Energy efficient LED flexible light strip for continuous consistant color changing in linear applications
- Extremely flexible and adjustable lengths for varied architectural applications.
- Available as side-bend quadrate profile for curved applications.
- Manufactured to specified lengths with factory attached end preps and various connector options for project requirements and efficient power configurations.
- Max continuous length: up to 20' per run (4.0W/ft)
- Multiple dimming options available.



DIMENSIONAL DRAWINGS



FIXTURE DATA						
Model	Efficacy* Lm/Wt	Lm/Ft	Wt/Ft			
SIDE Flex RGB	6.53	26.1	4.0			

* Meets Title 24 High efficacy rating.

model	WULLD	Angle	90% drive			
RGB 4.0W/ft	0.11W	114°	50,000hrs			
* LEDs operating at 90% of LED manufacturers maximum current rating.						

Wt/LED Viewing Lifespan at

DURAFLEX ARCH RGB[™] SIDE Flex IP65 OUTDOOR

 Image: Constraint of the second se

DETAILS

Spacing	0.33" OC LED Spacing
LEDs	36 LEDs per foot
Wattage	4.OW/ft
Color Temp	Red 630nm, Green 530nm, Blue 470nm
End Preps	Factory attached end preps available (See Page 2).
Field Cuts	See page 2 for manufacturer cut zones.
Mounting	Mounting clip or aluminum mounting channel options.
Lens Options	Extruded Silicone with Milky White diffusion lens with 113° visibility.
Installation	Factory manufactured lengths with 12" IP65 connection lead with 12" power feed. To be completed with clip or channel mountings. Ordering lengths increments by 1.97". Minimum bend diameter 2in.
Power Supply	Listed Class 2 output, 24V DC power supply required
Certifications	cULus Class 2 Listed Tested in accordance with LM-79-08 Energy efficient for California installations.
Compliance	ROHS compliant
	MRI Safe, driver to be mounted outside of MRI room. To be use with plastic or aluminum profiles only. To be installed with adhesive or MRI safe hardware only, no factory provided mounting hardware to be used.
Warranty	5 year warranty

Translucent Silicone Leads and End Caps

PRODUCT CODE	PROFILE	WATTAGE	IP RATING	COLOR TEMP	VOLTAGE	+	END PREP	+	MOUNTING	+	POWER SUPPLY
DFA — DuraFlex Arch [™]	SB — SIDE Flex	04 —4.0 W/ft	O— Outdoor IP65	RGB — Red Green Blue	24 -24 VDC						

Catalog Number DFA SB 04 O RGB 24

Notes





a brand of TARGETTI

REQUIRED END PREPS





0.56

0.8"



0.56

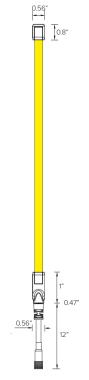
0.8"

1.3'

0.56

DURAFLEX ARCH RGB[™]

SIDE Flex IP65 OUTDOOR



KT10UVRGBL1

SIDE Flex straight end feed. Factory attached translucent silicone lead with two piece 12" wire, with IP65 quick disconnect at one end of product and dead end cap at other end. Lead wire/dead end allows for connection to power at lead end and field trim of DuraFlex product at the other end. Completed with translucent silicone factory attached end cap.

SIDE Flex side feed. Factory attached translucent silicone lead with two piece 12" wire, with IP65 quick disconnect at one end of product and dead end cap at other end. Lead wire/dead end allows for connection to power at lead end and field trim of DuraFlex product at the other end. Completed with translucent silicone factory attached end cap.

SIDE Flex bottom feed. Factory attached translucent silicone lead with two piece 12" wire, with IP65 quick disconnect at one end of product and dead end cap at other end. Lead wire/dead end allows for connection to power at lead end and field trim of DuraFlex product at the other end. Completed with translucent silicone factory attached end cap.



0.6" 0.56





a brand of TARGETTI

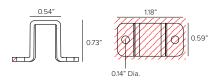
Mounting Accessories



KT10UVS

KT10UVS1

SIDE Flex Transparent clips kit. Includes 5 clips and 10 screws.





KT10UVP1

SIDE Flex 1 pcs of aluminum channel length 38in and 2 screws (termination end prep rest outside of the channel).



DURAFLEX ARCH RGB[™]

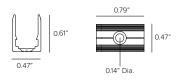
SIDE Flex IP65 OUTDOOR



KT10UVC1

KT10UVC1 SIDE Flex Bottom fixing clips.

Includes 5 clips and 5 screws.







KTUVFP2

KTUVFP2

SIDE Flexible stamped stainless steel profile secured with screws, 1ea provided per foot. Available in 1ft lengths.







a brand of TARGETTI

DURAFLEX ARCH RGB[™]

SIDE Flex IP65 OUTDOOR

Power Supply (REQUIRED)	Туре	Wattage	Input/Output Voltage	Dimmable	IP Rating	Output	Dimensions
DEDDX1001244CDMX	ELECTRONIC ADDRESSABLE DMX DRIVER	100W	120-277V / 24V	DMX CONTROL 4 CHANNEL	NEMA3R ENCLOSURE	UL CLASS 2	12" × 12" × 4"1
DEDDX2002244CDMX	ELECTRONIC ADDRESSABLE DMX DRIVER	2X100W	120-277V / 24V	DMX CONTROL 4 CHANNEL	NEMA3R ENCLOSURE	UL CLASS 2	12" × 12" × 4" 1
DEDD100DMX	ELECTRONIC ADDRESSABLE DMX DRIVER STANDALONE, UL LISTED ENCLOSURE PROVIDED BY OTHERS	100W	120-277V / 24V	DMX DIMMING 4 CHANNEL	N/A	UR CLASS 2	9.06" x 3.15" x 1.18"

¹ Dimensions include enclosure with mounting bracket.

* Constant voltage drivers 50/60HZ, voltage regulated with short circuit protection. Operating temperature -40 C- 80° C * Installation of power supply must be compliant to Class 2 installation standards. Refer to NEC and local building code requirements.

Controller (Optional)	Туре	Application	Voltage	Listing	Dimensions	# Ouput Channels	Number of Zones	Number of Scenes
SWITCH20	RGBW Touch DMX512 Wall Control Panel with Sensitive Glass Touch Panel, White Finish	Indoor Only	12-24V DC	UL	4.73"H x 2.95"W x 1.15"D	12	3	1
TGDMXSLESAU9	Stand-alone DMX 1/2 Universe Programmable Controller with Easy to Use Software Interface	Indoor Only	5.5V DC	ETL, UL	5.3"W x 5.5"H x 1.9D	256	1	20



SWITCH20



TGDMXSLESAU9

MAXIMUM INTERCONNECTED TAPE LENGTH PER DRIVER

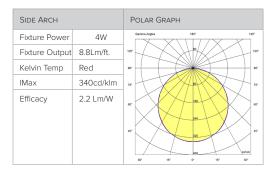
e e				D	river W	attage			
Fixture Nattage		40W	60W	96W	90W	2X90W	3X90W	100W	2X100
ΞŠ	4W	8FT	12FT	19FT	18FT	(2) 18FT	(3) 18FT	20FT	(2) 20FT

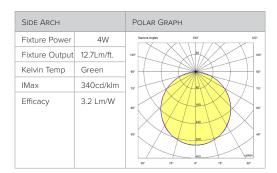


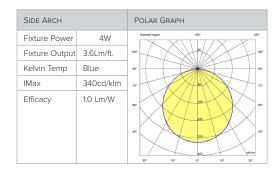


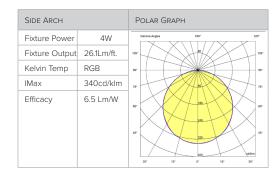
a brand of TARGETTI

Photometry









DURAFLEX ARCH RGB™

SIDE Flex IP65 OUTDOOR

Catalog Number IN CL 1 FC 12 24

Notes

^{Type} **39**



KEY FEATURES

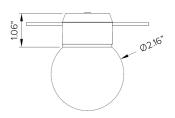
- Low voltage cable light for indoor / outdoor lighting applications, perfect for festoon mounting, taught or swayed.
- 16 gauge conductive cable with factory attached sockets.
- Available in full dynamic 24 bit color changing RGB, individually addressable spheres for dramatic full color lighting effects.
- Lamp spacing available in 12" OC and 24" OC.
- Flat base can be easily mounted against a wall or ridged surface.
- Max continuous length: 75' max per run (12" OC) 150' max per run (24" OC)
- Multiple dimming options available, see power supply selections.

INTELLISTRAND CABLE LIGHT

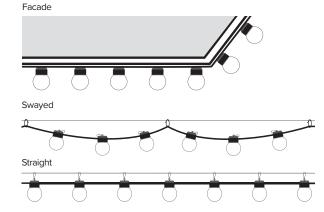




DIMENSIONAL DRAWING



INSTALLATION EXAMPLES



DETAILS

Spacing	12" or 24" OC Socket Spacing
Color Temp	RGB dynamic color changing
Wattage	1.1W per socket
Installation	Attach to aircraft cable (sold seperately) and to be secured with cable ties (provided by others). Optional cable wrap encases aircraft cable and Intellistrand cable for a clean one wire look (see page 3).
Weight	0.25Lbs/socket
Power Supply	Listed Class 2 output, 24 VDC power supply required
IP Rating	IP65
Certifications	cETLus Class 2 Wet Listed 4007019 Tested in accordance with LM-79-08 Energy efficient for California installations.
Warranty	5 year warranty



FIXTURE DATA

м	odel	Efficacy* Lm/Wt	Lm/Bulb	Wt/ Globe
R	θB	40.91	45	1.1

PRODUCT CODE	ТҮРЕ	WATTAGE	COLOR TEMP	SOCKET SPACING	VOLTAGE	+	POWER SUPPLY
IN —Intellistrand	CL — Cable Light	1 — 1.1W	FC — RGB	12 – 12" OC	24 – 24VDC		
				24 – 24" OC			

Fixture is project specific and manufactured to order, longer lead times may be expected based on a project by project basis. Consult factory for more information.

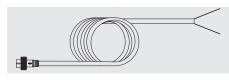
Catalog Number IN CL 1 FC 12 24

Notes



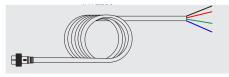


CONNECTION CABLES (REQUIRED)



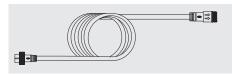
INTEL09

Lead cable 10ft length with 2-pole female connector, black finish.



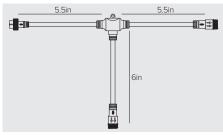
INTEL06

Lead cable 3ft length with 4-pole female connector, black finish.



INTEL66

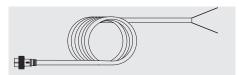
Jumper cable 8ft length with 1ea 4-pole female connector and 4-pole male connector, black finish.



INTEL07

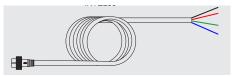
T-split cable with 1ea 4-pole female connector, 4-pole male connector and 2-pole male connector, black finish.

INTELLISTRAND CABLE LIGHT



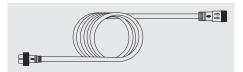
INTEL19

Lead cable 20ft length with 2-pole female connector, black finish.



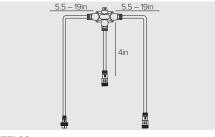
INTEL33

Lead cable 20ft length with 4-pole female connector, black finish.



INTEL31

Jumper cable 16ft length with 1ea 4-pole female connector and 4-pole male connector, black finish.



INTEL32

T-split cable with 2ea 4-pole female connectors and 1ea 4-pole male connector, black finish.



INTEL08 End Cap 4-Pole Male Connector, black finish.





INTELLISTRAND CABLE LIGHT

Power Supply (REQUIRED)	Туре	Wattage	Input/Output Voltage	Dimmable	IP Rating	Output	Dimensions
DMLE301242UD	EMCOD MLE-UD ELECTRONIC DRIVER WITH WIRING COMPARTMENT.	30W	120-277V / 24V	FWD / REV PHASE / TRIAC / 0-10V / PWM	NEMA3R ENCLOSURE	UL CLASS 2	4.47" X 6.79" X 1.38"
DMLE601242UD	EMCOD MLE-UD ELECTRONIC DRIVER WITH WIRING COMPARTMENT.	60W	120-277V / 24V	FWD / REV PHASE / TRIAC / 0-10V / PWM	NEMA3R ENCLOSURE	UL CLASS 2	4.47" X 6.79" X 1.38"
DMLE961242UD	EMCOD MLE-UD ELECTRONIC DRIVER WITH WIRING COMPARTMENT.	96W	120-277V / 24V	FWD / REV PHASE / TRIAC / 0-10V / PWM	NEMA3R ENCLOSURE	UL CLASS 2	5.16" X 7.73" X 1.54"
DMLE1922242UD	EMCOD MLE-UD ELECTRONIC DRIVER WITH WIRING COMPARTMENT.	2X96W	120-277V / 24V	FWD / REV PHASE / TRIAC / 0-10V / PWM	NEMA3R ENCLOSURE	UL CLASS 2	5.04" X 10.94" X 1.81"
DMLE2882242UD	EMCOD MLE-UD ELECTRONIC DRIVER WITH WIRING COMPARTMENT.	3X96W	120-277V / 24V	FWD / REV PHASE / TRIAC / 0-10V / PWM	NEMA3R ENCLOSURE	UL CLASS 2	5.04" X 10.94" X 1.81"
DELV30124DJBX	MAGNITUDE SOLIDRIVE ELECTRONIC DRIVER WITH BUILT-IN JUNCTION BOX.	30W	120-277V / 24V	0-10V 1%	IP66	UL CLASS 2	12.1" X 2.36" X 1.4"
DELV30124D	MAGNITUDE SOLIDRIVE ELECTRONIC STANDALONE DRIVER. UL LISTED ENCLOSURE PROVIDED BY OTHERS.	30W	120-277V / 24V	0-10V 1%	IP66	UR CLASS 2	7.5" X 2.36" X 1.4"
DELV60124DJBX	MAGNITUDE SOLIDRIVE ELECTRONIC DRIVER WITH BUILT-IN JUNCTION BOX.	60W	120-277V / 24V	0-10∨ 1%	IP66	UL CLASS 2	12.1" X 2.36" X 1.4"
DELV60124D	MAGNITUDE SOLIDRIVE ELECTRONIC STANDALONE DRIVER. UL LISTED ENCLOSURE PROVIDED BY OTHERS.	60W	120-277V / 24V	0-10V 1%	IP66	UR CLASS 2	7.5" X 2.36" X 1.4"
DELV96124DJBX	MAGNITUDE SOLIDRIVE ELECTRONIC DRIVER WITH BUILT-IN JUNCTION BOX.	96W	120-277V / 24V	0-10V DIMMING 1%	IP66	UL CLASS 2	12.1" X 2.36" X 1.4"
DELV96124D	MAGNITUDE SOLIDRIVE ELECTRONIC STANDALONE DRIVER. UL LISTED ENCLOSURE PROVIDED BY OTHERS.	96W	120-277V / 24V	0-10V DIMMING 1%	IP66	UR CLASS 2	7.5" X 2.36" X 1.4"
DEL60PWM	ELECTRONIC PWM DRIVER STANDALONE, UL LISTED ENCLOSURE PROVIDED BY OTHERS	60W	120-277V / 24V	0-10V/PWM 10%	IP67	UR CLASS 2	5.9" X 2.09" X 1.38"
DELI601241CPWM	ELECTRONIC PWM DRIVER	60W	120-277V / 24V	0-10V/PWM 10%	NEMA1 ENCLOSURE	UL CLASS 2	10" × 10" × 4" ¹
DEL90PWM	ELECTRONIC PWM DRIVER STANDALONE, UL LISTED ENCLOSURE PROVIDED BY OTHERS	90W	120-277V / 24V	0-10V/PWM 10%	IP67	UR CLASS 2	6.73" X 2.48" X 1.48"
DELI901241CPWM	ELECTRONIC PWM DRIVER	90W	120-277V / 24V	0-10V/PWM 10%	NEMA1 ENCLOSURE	UL CLASS 2	10" × 10" × 4" ¹
DELI1802242CPWM	ELECTRONIC PWM DRIVER	2X90W	120-277V / 24V	0-10V/PWM 10%	NEMA1 ENCLOSURE	UL CLASS 2	12" × 12" × 4" ¹
DELI2703243CPWM	ELECTRONIC PWM DRIVER	3X90W	120-277V / 24V	0-10V/PWM 10%	NEMA1 ENCLOSURE	UL CLASS 2	12" x 12" x 4" ¹

¹ Dimensions include enclosure with mounting bracket.

* Constant voltage drivers 50/60HZ, voltage regulated with short circuit protection. Operating temperature -40 C- 80° C

Installation of power supply must be compliant to Class 2 installation standards. Refer to NEC and local building code requirements.
 Consult factory for additional driver options (ie: DMX, DALI, wattage, size, shape, Lutron, ELDO, or others).

Notes





INTELLISTRAND

CABLE LIGHT

Controller (Optional)	Туре	Application	Voltage	Listing	Dimensions	# Ouput Channels	Number of Zones	Number of Scenes
SWITCH20	RGBW Touch DMX512 Wall Control Panel with Sensitive Glass Touch Panel, White Finish	Indoor Only	12-24V DC	UL	4.73"H x 2.95"W x 1.15"D	12	3	1
TGDMXSLESAU9	Stand-alone DMX 1/2 Universe Programmable Controller with Easy to Use Software Interface	Indoor Only	5.5V DC	ETL, UL	5.3"W x 5.5"H x 1.9D	256	1	20
TGDMXSLESAUE7	Stand-alone DMX 2 Universe Programmable Controller with Easy to Use Software Interface	Indoor Only	5V DC	ETL, UL	5.3"W x 5.5"H x 1.9D	1024	5	250



SWITCH20





TGDMXSLESAUE7

MOUNTING ACCESSORIES (OPTIONAL)



DLDCLAC1/16SS

1/16" inch (diameter) Aircraft cable stainless steel. For use up to 70lbs load, 7 x 7 SS T304 with a minimum break strength at 480lbs.

DLDCLAC3/32SS

 $3/32^{\circ}$ inch (diameter) Aircraft cable stainless steel. For use up to 150lbs load, 7 x 7 SS T304 with a minimum break strength at 900lbs.



DLDLSWRAP

1/2" Diameter black spiral cable wrap for use with aircraft cable. To encase aircraft cable and DuraLED Light Cable for a clean 1 wire look, sold per foot. (1.5ft of Wrap needed to span evenly per 1ft of cable)

	Dynamic Lighting Showcase	Catalog Number IN CL 1 FC 12 24	^{Туре}
sixteen5hundred		Notes	00

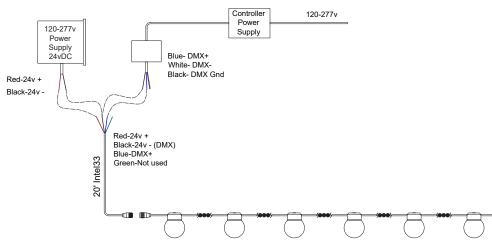


INTELLISTRAND

CABLE LIGHT

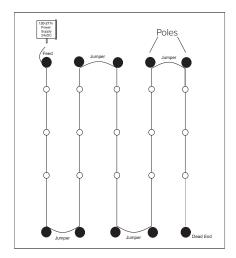
SYSTEM LAYOUT EXAMPLE DIAGRAM

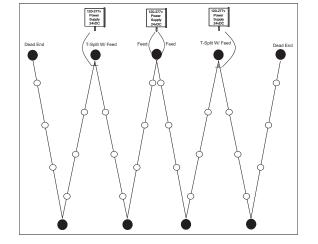
RGB Dynamic Color Changing



POSSIBLE CONFIGURATIONS

RGB Dynamic Color Changing





_	Dynamic Lighting Showcase	Catalog Number IN CL 1 FC 12 24
sixteen5hundred	Submitted By 16500, INC	Notes

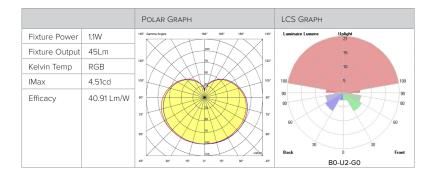


INTELLISTRAND CABLE LIGHT

^{Type} 39

a brand of TARGETTI

PHOTOMETRY



Submitted By 16500, INC

Catalog Number KPL WW L1 RGBWE2 IDU2325 1DU434312



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360

Notes

Туре 40

TARGETTI

sixteen5hundred

KEPLERO WALL WASHER RGBW

Professional Inground LED Fixture

Concept: Professional addressable DMX 512 controlled RGBW LED inground recessed wall washer. Housing: 8" tall x 11" diameter die-cast aluminum housing. Cast aluminum, powder coated integrated power supply box with integrated IP68 connector ports.

Materials: Anodized and powder coated black die-cast aluminum heat sink wiht PVC installation sleeve and stainless steel (AISI316L) trim ring with extra clear glass (anti-slip available). ABody completed with marine grade cataphoresis suitable for use in marine grade environments. Stainless steel trim will need to be maintained and cleaned regularly to avoid mineral deposits.

Trim: Stainless steel (AISI316L) trim available in ultra flat round decorative ring, with beveled edge in brushed natural, bronze or black finishes. Features tamper-proof Torx screws.

Optic: Wall Wash 106° x 66° optical unit includes acrylic lens, a high reflectance asymmetrical anodized aluminum reflector and integral holographic filter for even illumination of vertical surfaces as well as excellent light diffusion at ground level. This unique reflector system allows the Keplero Wall Wash fixtures to be installed at an unparalleled 1:5 ratio for completely uniform illumination on the vertical surface. Range of motion: +/- 15° optic rotation on the vertical axis and rotates 360° on the horizontal plane with integrated locking system.

Mounting: Flush and semi-flush installation sleeves with stainless steel extension sleeve or optional raised installation tube for landscape. Fixture includes screw down holes and stainless steel screws for attachment to installation sleeve. Includes optional stainless steel L brackets for mounting support. Installation sleeve required for flush or semi-flush mounting (sold separately).

Driver: Universal voltage integrated IP68 electronic driver.

Installation: Fixture flush mount installation includes 9" tall x 11" diameter sleeve, extension ŝ sleeve for wire slack and accessibility. Optional Raised landscape tubes in 3 sizes for Turf, Ground Cover and Shrub installations. 4ft 6-pole multi conductor cable with resin filled IP68 connector to prevent water wicking issues even with cut cable and 15ft DMX Direct Burial Lead cable and fixture to fixture Jumpers with IP68 connectors with gold plated pin and socket contacts for improved long term data transmission available in varied lengths to be specified and ordered separately.

Wattage: Max 58W with full color operation.

Color Temperature: Red 630nm, Green 530nm, Blue 470nm, 4000K.

Lumen Maintenance (L70): 50,000hrs

Calculation for LED fixtures are based on measurements that comply with IES LM-80. Voltage: Universal Voltage 120-277V AC 50/60Hz

IK Rating: IK10

IP Rating: IP67*, IP68 Tested**

Load Rating: Resistant to static loads up to 4,496lbs in flush mounted cement and pavement installations.

Certifications: cULus Wet Listed E477426

Tested in accordance with LM-79-08

Energy efficient for California installations.

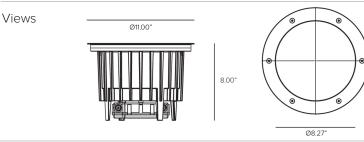
Warranty: 5 year limited warranty

* Up to 1 METER DEPTH of water for up to a maximum of 30 MINUTES

** Not suitable for submersible installations

^ANot to be in direct contact with salt for extended periods of time or used with corrosive agents







KEPLERO[®] Wall Washer RGBW with Clear Lens





Delivered Lumens: Blue = 1131 m Green = 593Lm Red = 359Lm White = 357Lm RGB = 949LmRGBW = 1091Lm Notes



TARGETTI

KEPLERO WALL WASHER RGBW

TRIM RING (REQUIRED) - CHOOSE 1							
Round Trim Ring (Available in Brushed Natural, Bronze, and Black PVD finishes)							
Uescription							
1DU2325	1DU2325B	1DU2325K	Round stainless steel (AISI316L) decorative ring. 10mm thick extra clear protective glass. Silicone gasket. Tamper proof (AISI316L) Torx screws.				
1DU2325A	1DU2325BA	1DU2325KA	Round stainless steel (AISI316L) decorative ring with anti-slip glass. 10mm thick extra clear protective glass. Silicone gasket. Tamper proof (AISI316L) Torx screws.				





Anti-Slip Glass

INSTALLATION	INSTALLATION SLEEVE (REQUIRED) - CHOOSE 1				
1DU2394	Installation sleeve for concrete pour applications. Grey Nylon 9" casing with 4.5" aluminum extension sleeve. Complete with dedicated cover cap for installations in concrete. Round ring for flush or semi-flush installations.				
1DU4343	Raised installation sleeve for landscape applications. 36"H stainless steel painted deep black finish, includes 9" inner sleeve. (Field cuttable. Used for fixture elevation 21" above ground). Not suitable with 1DU2394.				
1DU434318	Raised installation sleeve for ground cover (succulents and low level planting) applications. 18"H stainless steel painted deep black finish, includes 9" inner sleeve. (Field cuttable. Used for fixture elevation 3" above ground). Not suitable with 1DU2394.				
1DU434312	At grade or raised installation sleeve for turf or ground cover applications. Raised installation sleeve for turf applications. 12"H stainless steel painted deep black finish, includes 9" inner sleeve. (Field cuttable. Used for fixture elevations at grade to 3" above grade). Not suitable with 1DU2394.				

INSTALLATION ACCESSORIES:				
1DU2530	Direct burial brass ingrade j-box. Features stainless steel cover screws and strain relief for power cord, (2) 3/4" NPT bottom holes and (2) 3/4" NPT side holes. Includes (4) 3/4" to 1/2" adaptors and (2) 1/2" NPT plugs. (REQUIRED)			
1E2495	Anti-vandal torx head. Suggested one per 5 fixture.			
1E2496	Fixture metal maintenance removal handle. Helpful one per 10 fixtures.			
1E0388	Glass suction removal tool. Helpful one per 20 fixtures.			









1E2495

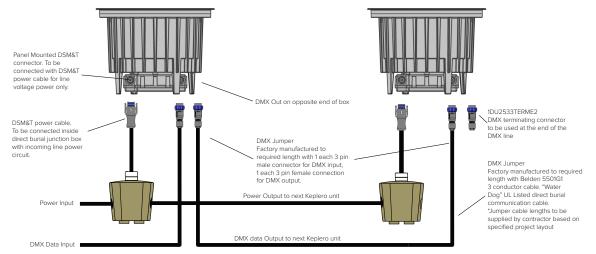


1E0388



KEPLERO WALL WASHER RGBW

RGBW Wiring Diagram



CONNECTION TERMINAL (REQUIRED)			
1DU2533TERME2 DMX IP68 End Terminal 2"L x 0.75" dia. male gold plated 3-pin connector terminal. Required for last fixture in run only.			
	1DU253		
20ft DMX data direct burial cable for fixture to controller lead wire connection with IP68 female 3–pin connector (DMX out) bare wire at opposite end for DMX in controller connection.	1DU253		
30ft DMX data direct burial cable for fixture to controller lead wire connection with IP68 female 3–pin connector (DMX out) bare wire at opposite end for DMX in controller connection	1DU253		
	1DU253		
lead wire connection with IP68 female 3–pin connector			
(DMX out) bare wire at opposite end for DMX in controller connection.	¹ Consul		
50ft DMX data direct burial cable for fixture to controller lead wire connection with IP68 female 3–pin connector (DMX out) bare wire at opposite end for DMX in controller connection.			
	DMX IP68 End Terminal 2"L x 0.75" dia. male gold plated 3-pin connector terminal. Required for last fixture in run only. IRED/ 20ft DMX data direct burial cable for fixture to controller lead wire connection with IP68 female 3-pin connector (DMX out) bare wire at opposite end for DMX in controller connection. 30ft DMX data direct burial cable for fixture to controller lead wire connection with IP68 female 3-pin connector (DMX out) bare wire at opposite end for DMX in controller lead wire connection with IP68 female 3-pin connector (DMX out) bare wire at opposite end for DMX in controller connection. 40ft DMX data direct burial cable for fixture to controller lead wire connection with IP68 female 3-pin connector (DMX out) bare wire at opposite end for DMX in controller lead wire connection with IP68 female 3-pin connector (DMX out) bare wire at opposite end for DMX in controller lead wire connection. 50ft DMX data direct burial cable for fixture to controller lead wire connection with IP68 female 3-pin connector (DMX out) bare wire at opposite end for DMX in controller lead wire connection with IP68 female 3-pin connector (DMX out) bare wire at opposite end for DMX in controller lead wire connection.		

JUMPER CONNECTIO	UMPER CONNECTION CABLE (REQUIRED WITH USE OF MULTIPLE FIXTURES)				
1DU253310E21	10ft data direct burial cable for fixture to fixture connection with IP68 male 3–pin connector (DMX In) and IP68 female 3–pin connector (DMX out).				
1DU2533-20E2 ¹	20ft data direct burial cable for fixture to fixture connection with IP68 male 3–pin connector (DMX In) and IP68 female 3– pin connector (DMX out).				
1DU2533-30E21	30ft data direct burial cable for fixture to fixture connection with IP68 male 3–pin connector (DMX In) and IP68 female 3– pin connector (DMX out).				
1DU2533-40E21	40ft data direct burial cable for fixture to fixture connection with IP68 male 3–pin connector (DMX In) and IP68 female 3– pin connector (DMX out).				
1DU2533-50E21	50ft data direct burial cable for fixture to fixture connection with IP68 male 3–pin connector (DMX In) and IP68 female 3– pin connector (DMX out).				
¹ Consult factory for ad	ditional lengths.				

¹Consult factory for additional lengths.

Wall Touch Controller (Optional)

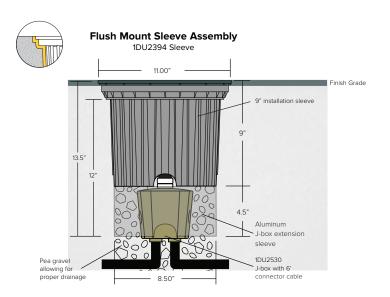
Product Code	Туре	Application	Voltage	Listing	Dimensions	Number of DMX Channels	Number of areas	Number of scenes
TGDMXSLESAU9	Stand Alone DMX Programmable Controller with Easy to Use Software Interface	Indoor	5.5V DC	ETL, UL	5.30"W X 5.50"H X 1.90"D	256	1	20

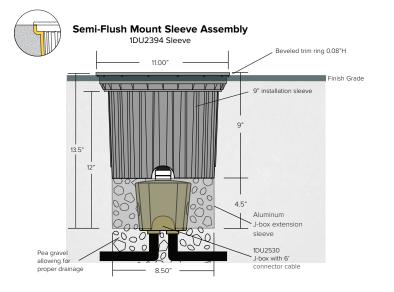


Dynamic Lighting Showcase	Catalog Number KPL WW L1 RGBWE2 IDU2325 1DU434312	^{Type}
Submitted By 16500, INC	Notes	

KEPLERO WALL WASHER RGBW

INSTALLATION DIAGRAM - Concrete Pour Applications





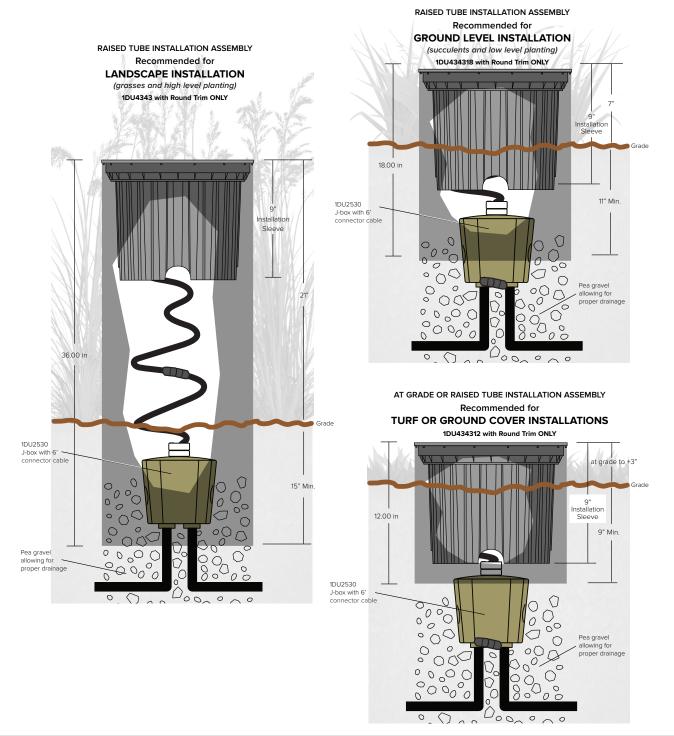
Notes



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KEPLERO WALL WASHER RGBW

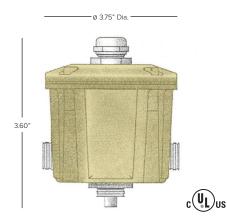
INSTALLATION DIAGRAM - Landscape Applications





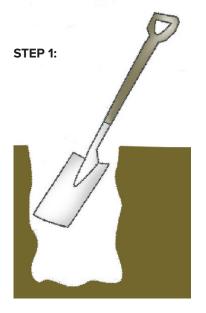
KEPLERO WALL WASHER RGBW

INSTALLATION DIAGRAM - 1DU2530 J-Box



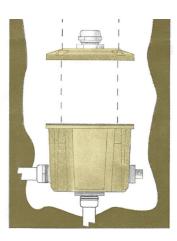
NOTE: Box fill size = 15.94 IN³ Certifications: cULus Wet Listed E496240

Brass junction box is supplied with the following components: (4) ³4" side/bottom NPT holes (4) ¹/₂" reduction NPT adapters (2) ¹/₂" cap plugs

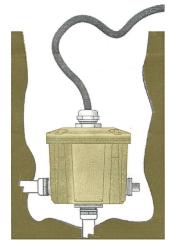


Dig a hole large enough to accomodate the iunction box.

STEP 2:



Connect brass junction box to conduit system. Seal conduit entries inside junction box with a good grade RTV sealant per sealant manufacturer's instructions. Note: Drainage must be inplace below junction box. STEP 3:

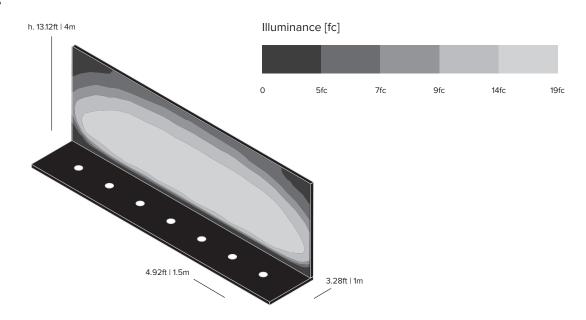


Seal threads. Tighten locking screw on bottom of cover. Connect all wires observing polarity (ie. green-to-ground, white-to-common, and black-to-voltage). Comes with 1/2" strain relief.

sixteen5hundred	Dynamic Lighting Showcase	Catalog Number KPL WW L1 RGBWE2 IDU2325 1DU434312	^{Type} 40
	Submitted By 16500, INC	Notes	

KEPLERO WALL WASHER RGBW

Optics



GREEN



TARGETTI

KEPLERO WALL WASHER RGBW

Photometry Cont.

RED							
TX	120*	-		H(m)	D1(m)	D2(m)	max(lx)
	They !!	-			114°	75°	
180		Fixture Power	20W	1	3.10	2.07	149
360		Source Flux	359lm	2	6.19	4.14	37
540	••••	Fixture Flux	359lm	3	9.29	6.21	17
	300	Efficacy	18lm/W	4	12.39	8.29	9
TS1026	Imax=550cd/klm	Imax	198cd	5	15.48	10.36	6

TX	120°	-		H(m)	D1(m)	D2(m)E	max(lx)
	? and	-			114°	75°	
180		Fixture Power	28W	1	3.10	2.07	246
360		Source Flux	594lm	2	6.19	4.14	61
540	••••	Fixture Flux	593lm	3	9.29	6.21	27
	200	Efficacy	21lm/W	4	12.39	8.29	15
TS1026	Imax=550cd/klm	Imax	327cd	5	15.48	10.36	10

BLUE

	120°	-		H(m)	D1(m)	D2(m)E	max(lx)
	ex.	-			114°	75°	
180	$\langle \rangle$	Fixture Power	20W	1	3.10	2.07	47
360	X:	Source Flux	113lm	2	6.19	4.14	12
540	••••	Fixture Flux	113lm	3	9.29	6.21	5
	30*	Efficacy	6lm/W	4	12.39	8.29	3
TS1026 Imax	=550cd/klm	Imax	62cd	5	15.48	10.36	2

RGB							
	120*	-		H(m)	D1(m)	D2(m)E	max(lx)
	and a feature of the second se	-			114°	75°	
180	KY:X	Fixture Power	58W	1	3.10	2.07	393
360		Source Flux	949lm	2	6.19	4.14	98
540	···· ·	Fixture Flux	949lm	3	9.29	6.21	44
	300	Efficacy	16lm/W	4	12.39	8.29	25
TS1026 I	max=550cd/klm	Imax	522cd	5	15.48	10.36	16

RGBW

120*	-		H(m)	D1(m)	D2(m)	Emax(lx)
(in the second	-			114°	75°	
	Fixture Power	56W	1	3.10	2.07	452
360	Source Flux	1091lm	2	6.19	4.14	113
540	Fixture Flux	1091lm	3	9.29	6.21	50
	Efficacy	19lm/W	4	12.39	8.29	28
TS1026 Imax=550cd/klr	n Imax	600cd	5	15.48	10.36	18

4000°K							
	120*	4000K		H(m)	D1(m)	D2(m)E	max(lx)
	in a second	Ra80			114°	75°	
180		Fixture Power	15W	1	3.10	2.07	148
360		Source Flux	357lm	2	6.19	4.14	37
540	···· ·	Fixture Flux	357lm	3	9.29	6.21	16
	30*	Efficacy	24lm/W	4	12.39	8.29	9
TS1026	Imax=550cd/klm	Imax	196cd	5	15.48	10.36	6

Catalog Number MM RP 09 RGB L 1E2382 MMRGBLEADL DEDDM001242CDMX Notes

TARGETTI

sixteen5hundred

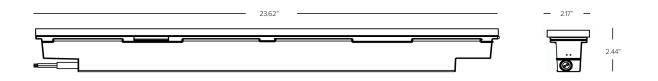
MINI MERCURE RGB

Direct view linear color changin LED inground luminaire



PRODUCT CODE	DRIVER	OUTPUT	COLOR	CABLE CONFIG.	+	INSERTION SLEEVE	+	POWER SUPPLY
MM — Mini MERCURE	RP — Remote Power	09 – 9W	RGB — Red 625nm / Green 520nm /	L — Lead				
				c – Center				
				E — End				
				S – Solo				
				See Page 2 for inline	cable	configurations		

Views



MERCURE MINI RGB

INSTALLATIO	N (REQUIE	ED)	- 2.28" -		
1E2382	with ren in contir support	aluminium insertion boxes with pre-set tovable end caps for installations sucus rows. Complete with internal s for installations in concrete. ons 23 ⁿ /e ⁿ L x 2 ¹ /4 ^m W x 3 ⁵ /e ^m H.	t 3.62" 1E2382		23,62.
INSTALLATION	N ACCESS	ORIES:			
1E0388	Glass su fixtures.	iction removal tool. Helpful one per 20			
			1E0388		2.28"
CONNECTION	I CABLES				
MMRGBLEAD-xx		IP68 Additonal lead cable, direct burial fixture Additional lead cables sold in 2 foot increme foot (MMRGBLEAD-80).	re cable with IP68 female 6 socket connector ents, from 12 foot (MMRGBLEAD-12) to 80		
MMRGBJUMP-x		IP68 Connector cord, 2ft direct burial cable f male 6 socket connector and IP68 female 6- foot increments, from 2 foot (MMRGBJUMP -	-pin connector. Connector cords sold in 2	_	
Lea Incl		power lead	ft lead cord		Female
	ture code nter Fixtur		I ∎−⊂1 Male		Female



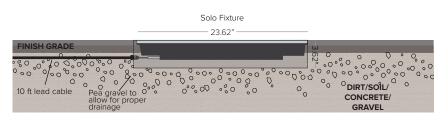
9W, 24V DC

A maximum of 8 fixtures can be attached together on a single Class 2, 4 amp circuit output. See page 4 for maximum fixtures per driver.

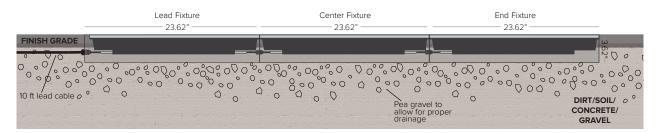
MERCURE MINI RGB

Installation Diagrams

Solo Fixture In-Ground Mounting



Continuous Row In-Ground Mounting



MERCURE MINI RGB

Power Supply (REQUIRED)	Туре	Wattage	Input/Output Voltage	Dimmable	IP Rating	Output	Dimmensions
DEDDX1001243CDMX	ELECTRONIC ADDRESSABLE DMX DRIVER	100W	120-277V / 24V	DMX DIMMING	NEMA3R ENCLOSURE	UL CLASS 2	12" x 12" x 4" 1
DEDDX2002243CDMX	ELECTRONIC ADDRESSABLE DMX DRIVER	2X100W	120-277V / 24V	DMX DIMMING	NEMA3R ENCLOSURE	UL CLASS 2	12" × 12" × 4" ¹

¹ Dimensions include enclosure with mounting bracket.

* Constant voltage drivers 50/60HZ, voltage regulated with short circuit protection. Operating temperature -40 C- 80° C

* Installation of power supply must be compliant to Class 2 installation standards. Refer to NEC and local building code requirements. * Consult factory for additional driver options (ie: DMX, DALI, wattage, size, shape, Lutron, ELDO, or others).

Max Fixtures Per Driver

e e	Driver Wattage								
Fixture Vattag		30W	60W	96W	90W	2X90W	3X90W	100W	2X100
ΞŠ	9W	2	5	8	8	16	24	8	16

Controller (Optional)	Туре	Application	Voltage	Listing	Dimensions	# Ouput Channels	Number of Zones	Number of Scenes
SWITCH20	RGBW Touch DMX512 Wall Control Panel with Sensitive Glass Touch Panel, White Finish	Indoor Only	12-24V DC	UL	4.73"H x 2.95"W x 1.15"D	12	3	1
TGDMXSLESAU9	Stand-alone DMX 1/2 Universe Programmable Controller with Easy to Use Software Interface	Indoor Only	5.5V DC	ETL, UL	5.3"W x 5.5"H x 1.9D	256	1	20



SWITCH20



Photometry

X	120*	-		H(m)	D1(m)	D2(m)E	max(lx)
Y	and the second s	-			117°	129°	
140		Fixture Power	9W	1	3.27	4.16	25
\mathbf{A}		Source Flux	83lm	2	6.55	8.31	6
280		Fixture Flux	82lm	3	9.82	12.47	3
20	30*	Efficacy	10lm/W	4	13.09	16.63	2
TS775	Imax=302cd/klm	Imax	25cd	5	16.37	20.79	1

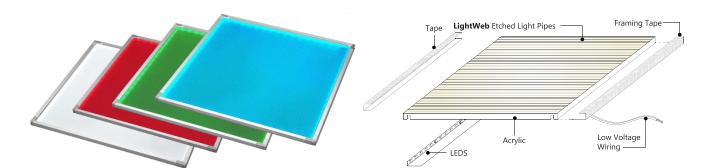
Notes





COLOR LightPanel SYSTEM

The COLOR LightPanel System offers Red, Green, Blue and Optional White (RGB or RGBW) LEDs on the same chip allowing lighting designers the ability to change colors in their design. The colors can be adjusted to any Pantone selected by the designer allowing versatility and imaginative applications.



The unique design of the COLOR LightPanel allows use in a large number of applications:



Hospitality



Cove Lighting



Retail





Residential

Commercial Interior



Bars



Millwork



Restaurants





Branding

350 Crenshaw Blvd., Suite A104, Torrance, CA 90503







Logos and Signage

⁽]² 310.616.5070 310.616.5056 eoslight.com



General Specifications

LIGHT WEB TECHNOLOGY[™] :

3D etched patterns to evenly distribute light throughout the panel. Patterns available are GRID, DOT and MICRODOT™

MAXIMUM SIZE :

120" x 80" (consult with eos specialist for recommendations with oversize panels)

MINIMUM SIZE :

1" X 2" (Ideal for Cove and Accent Lighting)

THICKNESS:

1/4"-1/2"

*Thickness is determined by panel shape, size and color temperature.

LONG LIFE :

Over 50,000 hours = Nearly 12 years based on 12 hours a day. Once installed, the LightPanel System is virtually maintenance free.

POWER OPTIONS:

24VDC Standard and 24VDC High Power, 12VDC Available upon request

Notes

DRIVER INPUT VOLTAGE : 100V TO 480V

WATTAGE :

4.3 W/Ft. - 24V Standard Power (Optional: 12V)
8.6 W/Ft. 24V High Power Double Strand (HPDS)
5 W/ Ft. - 24V - High Power
*ask eos specialist for information on RGB,
RGBW and Color Tuning options.

DIMMABLE :

The system is dimmable to <10% when matched with Dimmable Power Supplies

LEDs :

ANSI Binned LEDs from Tier 1 Suppliers LED CRI > 80 LED CRT - 1800K - 7500K

WIRE GAUGE:

20GA Wiring for White and Color Tuning Panels, 24GA for Color

HOSPITAL AND MRI SAFE :

The system contains non ferrous materials, making the LightPanel safe for MRI suites. The LightPanel Power supply must be installed remotely, up to 30 feet from the application.

SERVICE AND INSTALLATION :

The LightPanel is field serviceable, typically LEDs can be replaced in the field. The LightPanel System can be predrilled by our production team with customer's specifications.

Optional Specifications



$\langle \! \rangle$

USB COMPATIBLE :

* Max. Size 40" X 40" (wattage permitting)

COMPATIBLE POWER SUPPLIES :

- 0-10V dimming DMX/DALI
- Magnetic low voltage (MLV)
- Electronic low voltage (ELV)
- Remote control plug-in
 Inline plug-in



COLOR TEMPERATURES :

310.616.5056

- · 1800K · 2400K · 2700K · 3000K
- · 3500K · 4000K · 5000K · 6000K*
- 6500K 7500K UV (Ultraviolet)

*formerly 5300K **Bolded** colors are commonly available in stock.



MULTIPLE PANEL MOUNTING OPTIONS:

- Z-Profiles
 Stand Offs
 Key-Hole Frames
 Mirror Clips
- Aircraft Cable Mounts
 Pre-Drilled holes by factory
- · Panels are drillable on site* (use only eos suggested method in brochure)



APPROVALS AND CERTIFICATIONS:

The LightPanel System is UL listed for Architectural applications and UL recognized for signage. All power supplies are UL / ETL listed.



https://eoslight.com/user-guide/



DOWNLOAD OUR USER GUIDE FOR WIRING & INSTALLATION INSTRUCTIONS

eoslight.com

Notes

		-
5.	2).	

Longest Outside Dimensions

Drawing

Product Specification Ordering Form

NAME:	NAME:					PROJECT NAME:					ADDRESS:				
PHONE:	PHONE:					PROJECT LOCATION:					CITY:				
EMAIL:					ANTICIPATED DELIVERY DATE:					ZIP CODE:					
			PRC	PROJECT SPECIFIER:					RUSH PROJECT: Yes No						
			В	C1	C2		E	F	G	H	Ψ		К		
		+	+			+	+	+	+	+	+	+	+		
	QTY	PANEL TYPE	VOLTAGE		isions Hes) Side	LED SIDES	COLOR TEMP	LED POWER	DIFFUSER	CORD LENGTH	CORD LOCATION	CORD COLOR	POWER SUPPLY	IF CURVED PANEL SPECIFY RADIUS (INCHES)	
	5	LP	24V	48	50	4SL	2700	SP	DIF	CC6	TL	BC	010V	20	
Lightpanel With J1 Channel 1/4" Lightpanel With J2 Channel 5/16" CP - CRYSTAL Lightpanel CF - CRYSTAL FRAMED Lightpanel With C Channel 7/16"						2SL - Two Sides 3SL - Three Sides 4SL - Four Sides Top Dimension				H POWER CORD LENGTH SC - Standard -9.8 ft. CC Custom Length ft POWER CORD EXIT BL TL - Top Left Corner					
WP - OUTDOOR Lightpanel - Damp Location						SL SL Side Dimension				TR- Top Right Corner BR - Bottom Right Corner STL - Side Top Left Corner SBL - Side Bottom Left Corner					
AM - ARCHITECTURAL MILLWORK Lightpanel						SL				STR - Side Top Right Corner SBR - Side Bottom Right Corr					
AU - AURA Lightpanel						*Please note, the longest length is typically the LED side when selecting 1SL or 2SL				BC - Black WC - White					
BVOLTAGE										K POWER SUPPLY INFO					
24V - 24V (Standard) 12V - 12V (Optional)						E COLOR TEMP 1800 - 1800K 6500 - 6500K				010V - 010V Dimmable Hardwire MLV - Magnetic Low Voltage Dimmable Hardwire					
CDIMENSIONS						2400 - 2400K 7500 - 7500K 2700 - 2700K UV - Ultraviolet				ELV - Electronic Low Voltage Dimmable Hardwire					
(Generated by Client)						3000 - 3000K RGB - Color Changing 3500 - 3500K RGBW - Color Changing				DMX - DMX /DALI					
1- Top Dir 2- Side D						4000 - 4000K + White (6000K, 4000K, 5000 - 5000K 2700K)				PI DPI	0	n, DC Jack able Plug	in w/ remote		
*For custom shapes, please provide:						6000 - 6000K CT- Color Tuning									

🛇 350 Crenshaw Blvd., Suite A104, Torrance, CA 90503 👘 310.616.5070 📑 310.616.5056 🌐 eoslight.com

(2400K to 6000K)

eos



Notes

PROJECT LOCATION:

PROJECT NAME:

Please fill out the form

		А	В	C1	C2	D	E	F	G	Н	I	J	К	L
ITEM	QTY	PANEL TYPE	VOLTAGE	DIMEN TOP	ISIONS SIDE	LED SIDES	COLOR TEMP	LED POWER	DIFFUSER		CORD LOCATION	CORD COLOR	POWER SUPPLY	IF CURVED PANEL SPECIFY RADIUS(INCHES)
1	5	LP	24V	48	50	4SL	2700	SP	DIF	CC6	TL	BC	010V	20

1. What is the Application the panels will be used for? E.g.: Hospitality, Retail, Signage Etc.

- 3. Will the LightPanels be installed adjacent to one another?

 Yes
 No

 If Yes, Please Provide Drawing of Panel Layout
- 5. Are there any installation details to review?

- 2. What are the LightPanels backlighting? E.g.: Stone, Graphic, Glass, Acrylic Etc.
- 4. Will the LightPanels be powered individually (1:1) or would you like to connect Multiple LightPanels to a single driver?
- 5. Is there an existing Dimming or Lighting Control System? If so, please provide Representative with information of the Control system (specs, manufacturer, etc.)

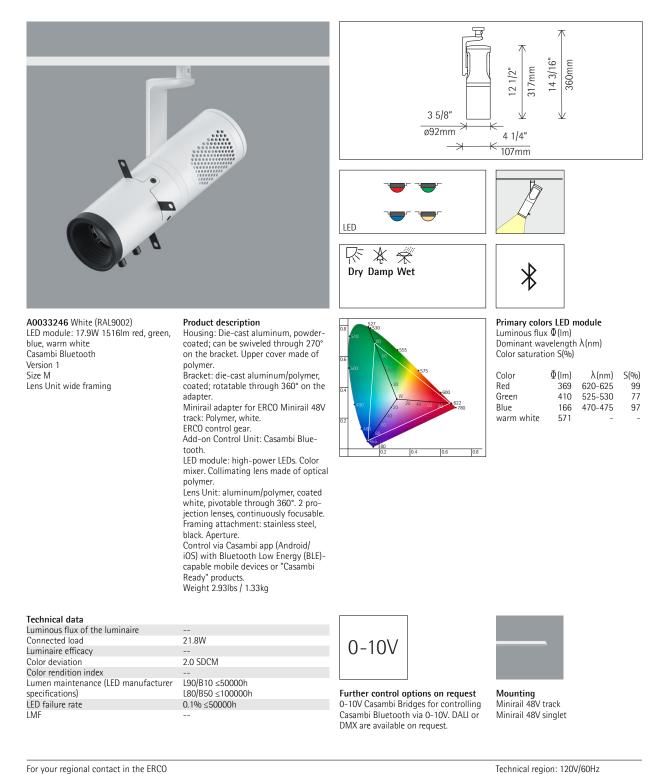
Additional information:



Catalog Number A0033246

^{Type}

ERCO Eclipse 48V Contour spotlight



For your regional contact in the ERCO Sales network click here www.erco.com/contact

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We reserve the right to make technical

and design changes. Edition: 13.05.2021 Current version under

www.erco.com/A0033246

Catalog Number A0033246

033246

Notes

ERCO Eclipse 48V Contour spotlight

Planning data

Technical data based on international standards and directives

IEC 60598	Luminaires – Parts 1 + 2: General requirements,
	particular requirements and tests
IEC 62031	LED modules for general lighting - Safety specifications
IEC 62471	Photobiological safety of lamps and lamp systems
UL 1598	Luminaires
UL 1574	Standard for Track Lighting Systems
UL 8750	Standard for Light Emitting Diode (LED) Equipment
	for Use in Lighting Products
IES LM-79-08	Electrical and Photometric Measurements of
	Solid-State Lighting Products
IES LM-80-08	Measuring Lumen Maintenance of LED Light Sources
CIE 13	Method of measuring and specifying color rendering
	properties of light sources

All technical data are subject to industry standard tolerances. See also www.erco.com/erco-led



Submitted By 16500, INC Catalog Number A0033246

Notes

Туре 44

ERCO

Eclipse 48V Contour spotlight

Accessories



AC002016 Lens unit spot

Polymer, black lacquered, can be rotated through 360°. Replacement without tools. Darklight lens made of optical polymer. Optical cut-off 50° from horizontal.



AC002043

Lens unit wide flood Polymer, white, can be rotated through 360°. Replacement without tools. Darklight lens made of optical polymer. Optical cut-off 40° from horizontal.



AC002048

Lens unit spot Polymer, white, can be rotated through 360°. Replacement without tools. Darklight lens made of optical polymer. Optical cut-off 50° from horizontal.



AC002015 Lens unit extra wide flood Polymer, black lacquered, can be rotated through 360°. Replacement without tools. Darklight lens made of optical polymer.



AC002014 Lens unit flood

Polymer, black lacquered, can be rotated through 360°. Replacement without tools. Darklight lens made of optical polymer. Optical cut-off 40° from horizontal.



AC002047

Lens unit extra wide flood Polymer, white, can be rotated through 360°. Replacement without tools. Darklight lens made of optical polymer.



AC002046 Lens unit flood

Polymer, white, can be rotated through 360°. Replacement without tools. Darklight lens made of optical polymer. Optical cut-off 40° from horizontal.



AC002013 Lens unit oval flood Polymer, black lacquered, can be rotated through 360°. Replacement without tools. Anti-reflective Spherolit lens made of optical polymer.

AC002044 Lens unit oval flood Polymer, white, can be rotated through 360°. Replacement without tools. Anti-reflective Spherolit lens made of optical polymer.



AC002011 Lens unit wide flood Polymer, black lacquered, can be rotated through 360°. Replacement without tools. Darklight lens made of optical polymer. Optical cut-off 40° from horizontal.



Eclipse 48V Contour spotlight

A0033246



Submitted By 16500, INC Catalog Number

Notes

A0033246

Туре 44

ERCO

Eclipse 48V Contour spotlight

Accessories



AC002019 Lens unit oval wide flood Polymer, black lacquered, can be rotated through 360°. Replacement without tools. Anti-reflective Spherolit lens made of optical polymer.



AC002130

Lens unit zoom spot Polymer, white, can be rotated through 360°. Replacement without tools. Anti-reflective zoom lens made of optical polymer, infinitely focusable.



AC002051

Lens unit oval wide flood Polymer, white, can be rotated through 360°. Replacement without tools. Anti-reflective Spherolit lens made of optical polymer.



AC002121 Lens unit zoom oval Polymer, black lacquered, can be rotated through 360°. Replacement without tools. Anti-reflective zoom lens made of optical polymer, infinitely focusable.



AC002017 Lens unit wallwash Polymer, black lacquered, can be rotated through 360°. Replacement without tools. Anti-reflective Spherolit lens made of

optical polymer.



AC002132

Lens unit zoom oval Polymer, white, can be rotated through 360°. Replacement without tools. Anti-reflective zoom lens made of optical polymer, infinitely focusable.



AC002049 Lens unit wallwash Polymer, white, can be rotated through 360°. Replacement without tools. Anti-reflective Spherolit lens made of optical polymer.



AC002238 Lens unit narrow framing Aluminum/polymer, coated black, pivotable through 360°. Replacement without tools. Projection lens, continuously focusable. Framing attachment: stainless steel, black.

AC002240

Aperture.

Lens unit narrow framing Aluminum/polymer, coated white, pivotable through 360°. Replacement without tools. Projection lens, continuously focusable. Framing attachment: stainless steel, black. Aperture

AC002119 Lens unit zoom spot Polymer, black lacquered, can be rotated through 360°. Replacement without tools. Anti-reflective zoom lens made of optical polymer, infinitely focusable.



Eclipse 48V Contour spotlight A0033246



Submitted By 16500, INC

Catalog Number A0033246

Notes

Туре 44

ERCO

Eclipse 48V Contour spotlight

Accessories



AC002120 Lens unit wide framing Aluminum/polymer, coated black, pivotable through 360°. Replacement without tools. 2 projection lenses, continuously focusable. Framing attachment: stainless steel, black. Aperture.



AC006030 Cold Filter Plus Filter holder: polymer, black, can be rotated through 360°. Replacement without tools.



AC002131

Lens unit wide framing Aluminum/polymer, coated white, pivotable through 360°. Replacement without tools. 2 projection lenses, continuously focusable. Framing attachment: stainless steel, black. Aperture.



AC006028 Warm Filter Filter holder: polymer, black, can be rotated through 360°. Replacement without tools.



AC006001 Softening lens Filter holder: polymer, black, can be rotated through 360°. Replacement without tools.



AC006012 Warm Filter Plus Filter holder: polymer, black, can be rotated through 360°. Replacement without tools.



AC006026 Sculpture lens Filter holder: polymer, black, can be rotated through 360°. Replacement without tools.

AC006032

without tools.

Cold Filter



AC006029 Skintone Filter Filter holder: polymer, black, can be rotated through 360°. Replacement without tools.

AC006011 Fish Filter Filter holder: polymer, black, can be rotated through 360°. Replacement without tools.





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Notes

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Туре 44

ERCO

Eclipse 48V Contour spotlight

Accessories

AC006033 Marbled Meat Filter Filter holder: polymer, black, can be rotated through 360°. Replacement without tools.



AC003006

Add-on Control Unit On-board Dim Polymer, white. Replacement without tools. Rotary control for brightness regulation.



AC006031 Bread and Pastry Filter Filter holder: polymer, black, can be rotated through 360°. Replacement without tools.



AC003004 Add-on Control Unit Zigbee Polymer, black. Replacement without tools Control via a Zigbee 3.0 compliant hub.



AC006023 Blue Light Filter Filter holder: polymer, black, can be rotated through 360°. Replacement without tools.



AC003008 Add-on Control Unit Zigbee Polymer, white. Replacement without tools. Control via a Zigbee 3.0 compliant hub.



AC004020 Honeycomb anti-glare screen Aluminum, powder-coated black, polymer outer.



Polymer, black. Replacement without tools. Control via Casambi app (Android/ iOS) with Bluetooth Low Energy (BLE)capable mobile devices or "Casambi Ready" products.

Add-on Control Unit Casambi Blue-

AC003001

tooth

AC003002 Add-on Control Unit On-board Dim Polymer, black. Replacement without tools. Rotary control for brightness regulation.



AC003005 Add-on Control Unit Casambi Bluetooth Polymer, white. Replacement without

tools. Control via Casambi app (Android/ iOS) with Bluetooth Low Energy (BLE)capable mobile devices or "Casambi Ready" products.

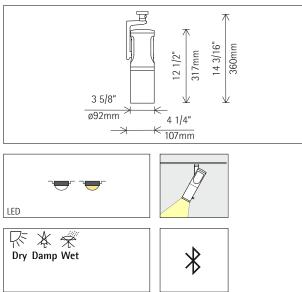


Catalog Number A0032734

^{Type} 45

ERCO Eclipse 48V Contour spotlight





A0032734 Black

LED module: 18.2W 2156Im 2700 -7500K Tunable white Casambi Bluetooth Version 1 Size M Lens Unit wide framing

Product description

Housing: Die-cast aluminum, powdercoated; can be swiveled through 270° on the bracket. Upper cover made of polymer.

Bracket: die-cast aluminum/polymer, coated; rotatable through 360° on the adapter.

Minirail adapter for ERCO Minirail 48V track: polymer, black. ERCO control gear.

Add-on Control Unit: Casambi Bluetooth.

LED module: high-power LEDs. Color mixer. Collimating lens made of optical polymer.

Lens Unit: aluminum/polymer, coated black, pivotable through 360°. 2 projection lenses, continuously focusable. Framing attachment: stainless steel, black. Aperture.

Control via Casambi app (Android/ iOS) with Bluetooth Low Energy (BLE)capable mobile devices or "Casambi Ready" products. Weight 2.93lbs / 1.33kg

Technical data

Luminous flux of the luminaire Connected load Luminaire efficacy Color deviation Color rendition index Lumen maintenance (LED manufacturer specifications) LED failure rate LMF

332lm 19.8W 17lm/W 2.0 SDCM CRI 90 L90/B10 <50000h L80/B50 <10000h 0.1% <50000h



Further control options on request 0-10V Casambi Bridges for controlling Casambi Bluetooth via 0-10V. DALI or DMX are available on request.



Mounting Minirail 48V track Minirail 48V singlet

Technical region: 120V/60Hz We reserve the right to make technical and design changes. Edition: 13.05.2021 Current version under www.erco.com/A0032734

For your regional contact in the ERCO Sales network click here www.erco.com/contact Catalog Number A0032734

Notes

ERCO Eclipse 48V Contour spotlight

Planning data

Technical data based on international standards and directives

IEC 60598	Luminaires – Parts 1 + 2: General requirements,
	particular requirements and tests
IEC 62031	LED modules for general lighting – Safety specifications
IEC 62471	Photobiological safety of lamps and lamp systems
UL 1598	Luminaires
UL 1574	Standard for Track Lighting Systems
UL 8750	Standard for Light Emitting Diode (LED) Equipment
	for Use in Lighting Products
IES LM-79-08	Electrical and Photometric Measurements of
	Solid-State Lighting Products
IES LM-80-08	Measuring Lumen Maintenance of LED Light Sources
CIE 13	Method of measuring and specifying color rendering
	properties of light sources

All technical data are subject to industry standard tolerances. See also www.erco.com/erco-led



Submitted By 16500, INC Catalog Number

Notes

A0032734

Туре 45

ERCO

Eclipse 48V Contour spotlight

Accessories



AC002016 Lens unit spot

Polymer, black lacquered, can be rotated through 360°. Replacement without tools. Darklight lens made of optical polymer. Optical cut-off 50° from horizontal.



AC002019

Lens unit oval wide flood Polymer, black lacquered, can be rotated through 360°. Replacement without tools. Anti-reflective Spherolit lens made of optical polymer.



AC002014 Lens unit flood Polymer, black lacquered, can be rotated through 360°. Replacement without tools. Darklight lens made of optical polymer. Optical cut-off 40° from horizontal.



AC002017 Lens unit wallwash Polymer, black lacquered, can be rotated through 360°. Replacement without tools. Anti-reflective Spherolit lens made of optical polymer.



AC002011 Lens unit wide flood Polymer, black lacquered, can be rotated through 360°. Replacement without tools. Darklight lens made of optical polymer.

Optical cut-off 40° from horizontal.



AC002119

Lens unit zoom spot Polymer, black lacquered, can be rotated through 360°. Replacement without tools. Anti-reflective zoom lens made of optical polymer, infinitely focusable.



AC002015 Lens unit extra wide flood Polymer, black lacquered, can be rotated through 360°. Replacement without tools. Darklight lens made of optical polymer.



AC002121 Lens unit zoom oval Polymer, black lacquered, can be rotated through 360°. Replacement without tools. Anti-reflective zoom lens made of optical polymer, infinitely focusable.

AC002013 Lens unit oval flood Polymer, black lacquered, can be rotated through 360°. Replacement without tools. Anti-reflective Spherolit lens made of optical polymer.



AC002238 Lens unit narrow framing Aluminum/polymer, coated black, pivotable through 360°. Replacement without tools. Projection lens, continuously focusable. Framing attachment: stainless steel, black. Aperture



Submitted By 16500, INC Catalog Number

Notes

A0032734

Туре 45

ERCO

Eclipse 48V Contour spotlight

Accessories

Aperture.

AC006001

Softening lens

without tools.



AC002120 Lens unit wide framing Aluminum/polymer, coated black, pivotable through 360°. Replacement without tools. 2 projection lenses, continuously focusable. Framing attachment: stainless steel, black.



AC006028 Warm Filter Filter holder: polymer, black, can be rotated through 360°. Replacement without tools.

AC006012 Warm Filter Plus Filter holder: polymer, black, can be rotated through 360°. Replacement without tools.



AC006026 Sculpture lens Filter holder: polymer, black, can be rotated through 360°. Replacement without tools.

Filter holder: polymer, black, can be

rotated through 360°. Replacement



AC006029 Skintone Filter Filter holder: polymer, black, can be rotated through 360°. Replacement without tools.



AC006032 Cold Filter Filter holder: polymer, black, can be rotated through 360°. Replacement without tools.



rotated through 360°. Replacement without tools.

Filter holder: polymer, black, can be

AC006011

Fish Filter

AC006033 Marbled Meat Filter Filter holder: polymer, black, can be rotated through 360°. Replacement without tools.



AC006030 Cold Filter Plus Filter holder: polymer, black, can be rotated through 360°. Replacement without tools.





Submitted By 16500, INC

Catalog Number A0032734

Notes

^{Type} 45

ERCO

Eclipse 48V Contour spotlight

Accessories

AC006031

Bread and Pastry Filter Filter holder: polymer, black, can be rotated through 360°. Replacement without tools.



AC003001

Add-on Control Unit Casambi Bluetooth

Polymer, black. Replacement without tools.

Control via Casambi app (Android/ iOS) with Bluetooth Low Energy (BLE)capable mobile devices or "Casambi Ready" products.



AC006023 Blue Light Filter Filter holder: polymer, black, can be rotated through 360°. Replacement

without tools.



Honeycomb anti-glare screen Aluminum, powder-coated black, polymer outer.



AC003002 Add-on Control Unit On-board Dim Polymer, black. Replacement without tools. Rotary control for brightness regulation.

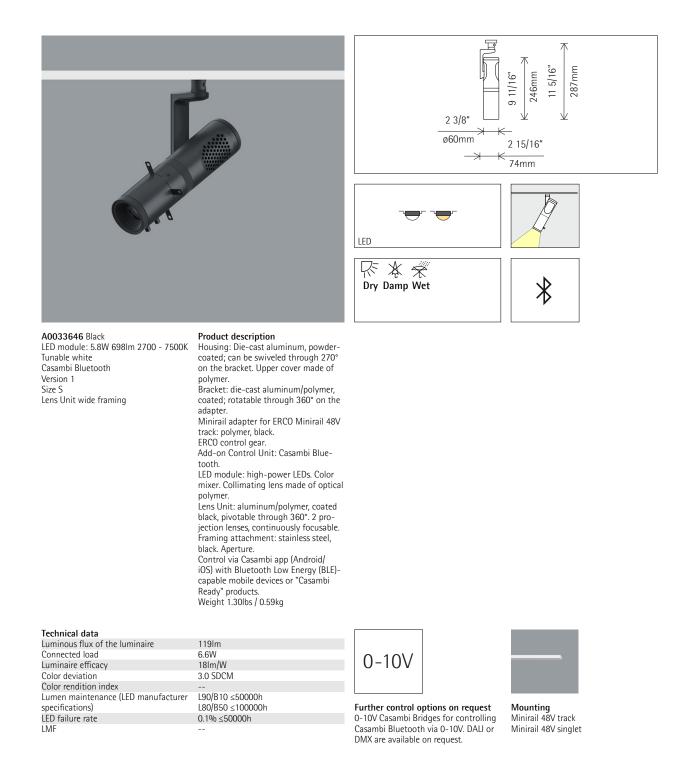
AC003004 Add-on Control Unit Zigbee Polymer, black. Replacement without tools. Control via a Zigbee 3.0 compliant hub.



Catalog Number A0033646

Notes

ERCO Eclipse 48V Contour spotlight



Technical region: 120V/60Hz We reserve the right to make technical and design changes. Edition: 13.05.2021 Current version under www.erco.com/A0033646

For your regional contact in the ERCO Sales network click here www.erco.com/contact Catalog Number A0033646

Notes

ERCO Eclipse 48V Contour spotlight

Planning data

Technical data based on international standards and directives

IEC 60598	Luminaires – Parts 1 + 2: General requirements,
	particular requirements and tests
IEC 62031	LED modules for general lighting - Safety specifications
IEC 62471	Photobiological safety of lamps and lamp systems
UL 1598	Luminaires
UL 1574	Standard for Track Lighting Systems
UL 8750	Standard for Light Emitting Diode (LED) Equipment
	for Use in Lighting Products
IES LM-79-08	Electrical and Photometric Measurements of
	Solid-State Lighting Products
IES LM-80-08	Measuring Lumen Maintenance of LED Light Sources
CIE 13	Method of measuring and specifying color rendering
	properties of light sources

All technical data are subject to industry standard tolerances. See also www.erco.com/erco-led



Submitted By 16500, INC Catalog Number

Notes

A0033646

Туре 46

ERCO

Eclipse 48V Contour spotlight

Accessories



AC002006 Lens unit spot

Polymer, black lacquered, can be rotated through 360°. Replacement without tools. Darklight lens made of optical polymer. Optical cut-off 50° from horizontal.



AC002007

Lens unit oval wide flood Polymer, black lacquered, can be rotated through 360°. Replacement without tools. Anti-reflective Spherolit lens made of optical polymer.





without tools.

Lens unit flood

AC002004

Darklight lens made of optical polymer. Optical cut-off 40° from horizontal.

Polymer, black lacquered, can be

rotated through 360°. Replacement



AC002005

Lens unit wallwash Polymer, black lacquered, can be rotated through 360°. Replacement without tools. Anti-reflective Spherolit lens made of optical polymer.



AC002002 Lens unit wide flood

Polymer, black lacquered, can be rotated through 360°. Replacement without tools. Darklight lens made of optical polymer. Optical cut-off 40° from horizontal.



AC002122

Lens unit zoom spot Polymer, black lacquered, can be rotated through 360°. Replacement without tools. Anti-reflective zoom lens made of optical polymer, infinitely focusable.



AC002003

AC002058

without tools.

optical polymer.

Lens unit oval flood

Polymer, black lacquered, can be

rotated through 360°. Replacement

Anti-reflective Spherolit lens made of

Lens unit extra wide flood Polymer, black lacquered, can be rotated through 360°. Replacement without tools. Darklight lens made of optical polymer.



AC002123 Lens unit zoom oval Polymer, black lacquered, can be rotated through 360°. Replacement without tools. Anti-reflective zoom lens made of optical polymer, infinitely focusable.

black.

AC002232 Lens unit narrow framing Aluminum/polymer, coated black, pivotable through 360°. Replacement without tools. Projection lens, continuously focusable. Framing attachment: stainless steel,

Aperture





Submitted By 16500, INC Catalog Number A0033646

Notes

^{Type} 46

ERCO

Eclipse 48V Contour spotlight

Accessories

AC006002

Softening lens

without tools.



AC002124 Lens unit wide framing Aluminum/polymer, coated black, pivotable through 360°. Replacement without tools. 2 projection lenses, continuously focusable. Framing attachment: stainless steel, black. Aperture.



AC006005 Warm Filter Filter holder: polymer, black, can be rotated through 360°. Replacement without tools.

AC006003

Warm Filter Plus Filter holder: polymer, black, can be rotated through 360°. Replacement without tools.



AC006025 Sculpture lens Filter holder: polymer, black, can be rotated through 360°. Replacement without tools.

Filter holder: polymer, black, can be

rotated through 360°. Replacement



AC006006 Skintone Filter Filter holder: polymer, black, can be rotated through 360°. Replacement without tools.

AC006009 Cold Filter Filter holder: polymer, black, can be rotated through 360°. Replacement without tools.

> AC006007 Cold Filter Plus Filter holder: polymer, black, can be rotated through 360°. Replacement without tools.



AC006013 Fish Filter Filter holder: polymer, black, can be rotated through 360°. Replacement without tools.

AC006010 Marbled Meat Filter Filter holder: polymer, black, can be rotated through 360°. Replacement without tools.



Submitted By 16500, INC Catalog Number

Notes

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Туре 46

ERCO

Eclipse 48V Contour spotlight

Accessories

AC006008

Bread and Pastry Filter Filter holder: polymer, black, can be rotated through 360°. Replacement without tools.

rotated through 360°. Replacement



AC003001

Add-on Control Unit Casambi Bluetooth

Polymer, black. Replacement without tools.

Control via Casambi app (Android/ iOS) with Bluetooth Low Energy (BLE)capable mobile devices or "Casambi Ready" products.



AC006004 Blue Light Filter Filter holder: polymer, black, can be

without tools.

AC004018

Honeycomb anti-glare screen Aluminum, powder-coated black, polymer outer.



AC003002 Add-on Control Unit On-board Dim Polymer, black. Replacement without tools. Rotary control for brightness regulation.

AC003004 Add-on Control Unit Zigbee Polymer, black. Replacement without tools. Control via a Zigbee 3.0 compliant hub.

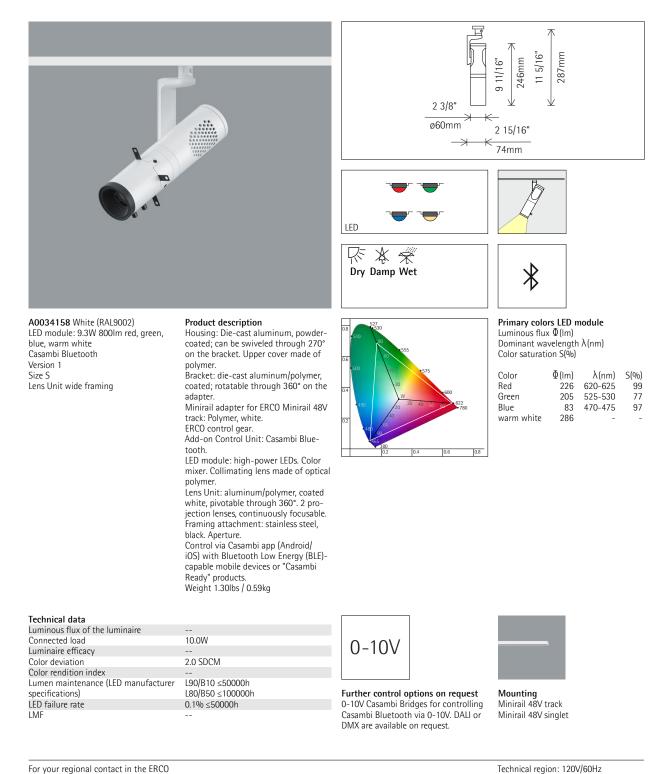




Catalog Number A0034158

Notes

ERCO Eclipse 48V Contour spotlight



For your regional contact in the ERCO Sales network click here www.erco.com/contact

We reserve the right to make technical

and design changes. Edition: 13.05.2021 Current version under

www.erco.com/A0034158

Catalog Number A0034158

Notes

ERCO Eclipse 48V Contour spotlight

Planning data

Technical data based on international standards and directives

IEC 60598	Luminaires – Parts 1 + 2: General requirements,
	particular requirements and tests
IEC 62031	LED modules for general lighting - Safety specifications
IEC 62471	Photobiological safety of lamps and lamp systems
UL 1598	Luminaires
UL 1574	Standard for Track Lighting Systems
UL 8750	Standard for Light Emitting Diode (LED) Equipment
	for Use in Lighting Products
IES LM-79-08	Electrical and Photometric Measurements of
	Solid-State Lighting Products
IES LM-80-08	Measuring Lumen Maintenance of LED Light Sources
CIE 13	Method of measuring and specifying color rendering
	properties of light sources

All technical data are subject to industry standard tolerances. See also www.erco.com/erco-led



Project 21-12877-5 Date 7/26/2021 **Dynamic Lighting Showcase**

Submitted By 16500, INC Catalog Number

Notes

A0034158

Туре **4**7

ERCO

Eclipse 48V Contour spotlight

Accessories



AC002006

AC002038

Lens unit spot

Lens unit spot Polymer, black lacquered, can be rotated through 360°. Replacement without tools. Darklight lens made of optical polymer. Optical cut-off 50° from horizontal.

Polymer, white, can be rotated through

Darklight lens made of optical polymer.

360°. Replacement without tools.

Optical cut-off 50° from horizontal.



AC002033

Lens unit wide flood Polymer, white, can be rotated through 360°. Replacement without tools. Darklight lens made of optical polymer. Optical cut-off 40° from horizontal.

AC002003

Lens unit extra wide flood Polymer, black lacquered, can be rotated through 360°. Replacement without tools. Darklight lens made of optical polymer.



AC002004 Lens unit flood

Polymer, black lacquered, can be rotated through 360°. Replacement without tools. Darklight lens made of optical polymer. Optical cut-off 40° from horizontal.



AC002035

Lens unit extra wide flood Polymer, white, can be rotated through 360°. Replacement without tools. Darklight lens made of optical polymer.



AC002036

Lens unit flood Polymer, white, can be rotated through 360°. Replacement without tools. Darklight lens made of optical polymer. Optical cut-off 40° from horizontal.



AC002032

Lens unit oval flood Polymer, white, can be rotated through 360°. Replacement without tools. Anti-reflective Spherolit lens made of optical polymer.

AC002058 Lens unit oval flood Polymer, black lacquered, can be rotated through 360°. Replacement without tools. Anti-reflective Spherolit lens made of optical polymer.

AC002002

Lens unit wide flood Polymer, black lacquered, can be rotated through 360°. Replacement without tools. Darklight lens made of optical polymer. Optical cut-off 40° from horizontal.





ERCO

Project 21-12877-5 Date 7/26/2021 Dynamic Lighting Showcase

Submitted By 16500, INC Catalog Number A0034158

Notes

^{туре}

Eclipse 48V Contour spotlight

Accessories

AC002039

optical polymer.

Lens unit oval wide flood

Polymer, white, can be rotated through

Anti-reflective Spherolit lens made of

360°. Replacement without tools.



AC002007 Lens unit oval wide flood Polymer, black lacquered,

Polymer, black lacquered, can be rotated through 360°. Replacement without tools. Anti-reflective Spherolit lens made of optical polymer.



AC002127

Lens unit zoom spot Polymer, white, can be rotated through 360°. Replacement without tools. Anti-reflective zoom lens made of optical polymer, infinitely focusable.

AC002123

Lens unit zoom oval Polymer, black lacquered, can be rotated through 360°. Replacement without tools. Anti-reflective zoom lens made of optical polymer, infinitely focusable.



AC002005 Lens unit wallwash

Polymer, black lacquered, can be rotated through 360°. Replacement without tools. Anti-reflective Spherolit lens made of optical polymer.



AC002128

Lens unit zoom oval Polymer, white, can be rotated through 360°. Replacement without tools. Anti-reflective zoom lens made of optical polymer, infinitely focusable.



AC002037 Lens unit wallwash Polymer, white, can be rotated through 360°. Replacement without tools. Anti-reflective Spherolit lens made of

optical polymer.



AC002232 Lens unit narrow framing Aluminum/polymer, coated black, pivotable through 360°. Replacement without tools. Projection lens, continuously focusable. Framing attachment: stainless steel, black.

Aperture.

AC002239 Lens unit narrow framing Aluminum/polymer, coated white, pivotable through 360°. Replacement without tools. Projection lens, continuously focusable. Framing attachment: stainless steel, black. Aperture.

AC002122 Lens unit zoom spot Polymer, black lacquered, can be rotated through 360°. Replacement without tools. Anti-reflective zoom lens made of optical polymer, infinitely focusable.





Project 21-12877-5 Date 7/26/2021 **Dynamic Lighting Showcase**

Submitted By 16500, INC

Catalog Number A0034158

Notes

Туре **4**7

ERCO

Eclipse 48V Contour spotlight

Accessories

AC002129

without tools.

steel, black. Aperture.

without tools.

Lens unit wide framing

Aluminum/polymer, coated white,

pivotable through 360°. Replacement

2 projection lenses, continuously focusable. Framing attachment: stainless



AC002124 Lens unit wide framing Aluminum/polymer, coated black, pivotable through 360°. Replacement without tools. 2 projection lenses, continuously focusable. Framing attachment: stainless steel, black. Aperture.



AC006007 Cold Filter Plus Filter holder: polymer, black, can be rotated through 360°. Replacement without tools.

AC006005

Warm Filter Filter holder: polymer, black, can be rotated through 360°. Replacement without tools.



AC006002 Softening lens Filter holder: polymer, black, can be rotated through 360°. Replacement



AC006003 Warm Filter Plus Filter holder: polymer, black, can be rotated through 360°. Replacement

without tools.

AC006025 Sculpture lens Filter holder: polymer, black, can be rotated through 360°. Replacement without tools.



AC006006 Skintone Filter Filter holder: polymer, black, can be rotated through 360°. Replacement without tools.

AC006009 Cold Filter Filter holder: polymer, black, can be rotated through 360°. Replacement without tools.



AC006013 Fish Filter Filter holder: polymer, black, can be rotated through 360°. Replacement without tools.



Project 21-12877-5 Date 7/26/2021 **Dynamic Lighting Showcase**

Submitted By 16500, INC Catalog Number

Notes

A0034158

Туре **4**7

ERCO

Eclipse 48V Contour spotlight

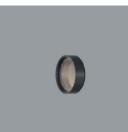
Accessories

Marbled Meat Filter

AC006010

without tools.

without tools.



AC006008 Bread and Pastry Filter Filter holder: polymer, black, can be rotated through 360°. Replacement

Filter holder: polymer, black, can be

rotated through 360°. Replacement



AC003006

Add-on Control Unit On-board Dim Polymer, white. Replacement without tools. Rotary control for brightness regulation.



Add-on Control Unit Zigbee Polymer, black. Replacement without tools Control via a Zigbee 3.0 compliant hub.



AC006004 Blue Light Filter Filter holder: polymer, black, can be rotated through 360°. Replacement without tools.



AC003008 Add-on Control Unit Zigbee Polymer, white. Replacement without tools. Control via a Zigbee 3.0 compliant hub.



AC004018 Honeycomb anti-glare screen Aluminum, powder-coated black, polymer outer.



Add-on Control Unit Casambi Bluetooth Polymer, black. Replacement without tools. Control via Casambi app (Android/ iOS) with Bluetooth Low Energy (BLE)capable mobile devices or "Casambi Ready" products.

AC003001

AC003002 Add-on Control Unit On-board Dim Polymer, black. Replacement without tools. Rotary control for brightness regulation.



AC003005 Add-on Control Unit Casambi Bluetooth Polymer, white. Replacement without

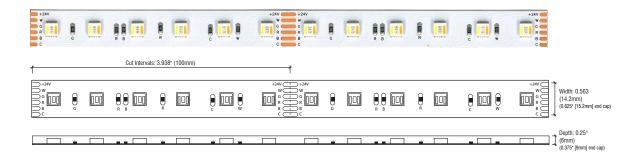
tools. Control via Casambi app (Android/ iOS) with Bluetooth Low Energy (BLE)capable mobile devices or "Casambi Ready" products.

	Project 21-12877-5 Date 7/26/2021
_	Dynamic Lighting Showcase
sixteen5hundred	
	Submitted By
	16500, INC

KE

COLOR CHANGING + TUNING (OUTDOOR)

RGBWA-SERIES | COLOR TUNING | RUBBER COATED LINEAR LED LIGHTING



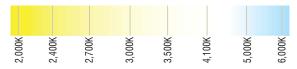
PRODUCT FEATURES

- Ability to mix Kelvin temperatures
- 90+ CRI
- Dimmable
- 50,000 hour life
- 5-year warranty
- UL-listed for indoor and outdoor use
- 3M[™] industrial adhesive backing
- For use with electronic power supplies

RGB COLOR SPECTRUM



KELVIN COLOR TEMPERATURE SCALE



Conforms to ANSI/UL Standard 2108 Certified to CAN/CSA Standard C22.2 No. 250.0

SPECIFICATIONS

RGBWA-WR-24V (Outdoor) 24V DC / Constant Voltage 120° Unlimited, power every 25ft 3.938" (100mm)
120° Unlimited, power every 25ft
Unlimited, power every 25ft
3.938" (100mm)
0.625" (15.2mm) × 0.375" (9mm)
0.563" (14.2mm) × 0.25" (6mm)
4 W/ft
340 max. lm/ft
3000K = 90+
Epistar 5050
RF, WiFi, DMX
-40°F (-40°C) to 149°F (65°C)



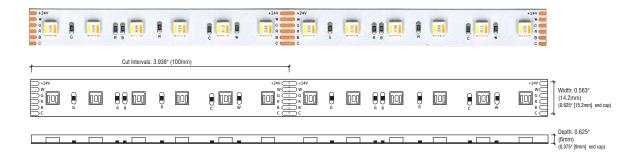




KE

COLOR CHANGING + TUNING (OUTDOOR)

RGBCT-SERIES | COLOR CHANGING | RUBBER COATED LINEAR LED LIGHTING



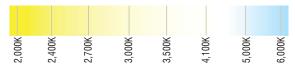
PRODUCT FEATURES

- Ability to mix Kelvin temperatures
- 90+ CRI
- Dimmable
- 50,000 hour life
- 5-year warranty
- UL-listed for indoor and outdoor use
- 3M[™] industrial adhesive backing
- For use with electronic power supplies

RGB COLOR SPECTRUM



KELVIN COLOR TEMPERATURE SCALE



Conforms to ANSI/UL Standard 2108 Certified to CAN/CSA Standard C22.2 No. 250.0

SPECIFICATIONS

Model	RGBCT-WR-24V (Outdoor)
Input Voltage	24V DC / Constant Voltage
Beam Spread	120°
Max Run Length	Unlimited, power every 25ft
Production Intervals	3.938" (100mm)
End Cap Dimensions	0.625" (15.2mm) × 0.375" (9mm)
Tape Dimensions	0.563" (14.2mm) × 0.25" (6mm)
Average Watts	4 W/ft
Lumens	340 max. lm/ft
CRI	3000K = 90+
Diode	5050
Dimming Options	RF, WiFi, DMX
Temp Range	-40°F (-40°C) to 149°F (65°C)
Rating	IP67





16500, INC

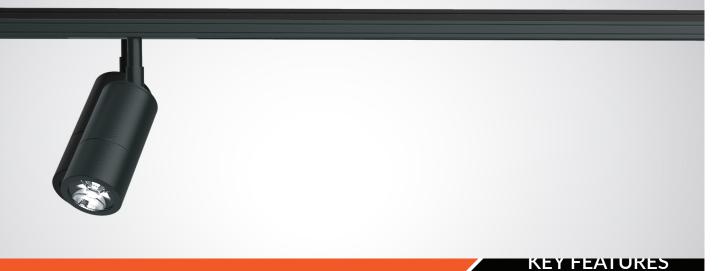
Catalog Number MEDI-O

Notes





52A



High Output. Tiny Package

Ultra-compact, modular form factor uses Black Tank's patented heat sink to provide a superior 16 watts and extended LED lifetime in a compact 2" diameter fixture.

Satisfied LDs and Architects

Modular design allows Lighting Designers, End Users and Architects/Interior Designers to collaborate on housing, mounting and lighting specs using an online application...not complicated data sheets and long SKUs.

Ludicrous Mode

Increases brightness (up to 4x) of any color or CCT without sacrificing LED lifetime and enables tunable white light fixtures to operate at full power output at any CCT setting – eliminating the need to select a specific fixed color temperature in manufacturing.

DMX and 100% Compliant RDM

Black Tank's theatrical grade dimming technology has been used on Broadway and in critical dynamic environments around the world.

Quality of Light

Proprietary binning, integral color calibration, the highest quality optics and cutting edge solid-state zoom option provides LDs with a next-generation tool for a variety of applications.

Advanced Control Options

Patented Hybrid Driver Circuitry provides unique control features - including Ludicrous Mode, master dimmer control, up to 16khz PWM, adjustable total wattage (for LEEDs compliance) and incredibly smooth, theatrical grade dimming to 0%.



Color Mixing RGBA Color Mixing RGBA Can Effortlessly

Color Mixing RGBA Can Effortlessly Produce 16 Million Colors





Tuneable White

Tuneable White Offers Continuous Variable Color From 2000k to 7000k -All Over 90CRI Fixed White Offers a Static CCT 2000k to 7000k - All Over 90CRI

Fixed White

origamx.com

Project 21-12877-5 Date 7/26/2021 **Dynamic Lighting Showcase**

Submitted By 16500, INC Catalog Number MEDI-O

SPECIFICATIONS

Input Voltage:

Power Consumption:

Notes



sixteen5hundred

MEDI-O High Performance Fixture

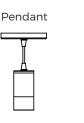
16W (DC Input) at 100% Output

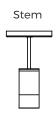
52A

12-24VDC

MOUNTING OPTIONS

The Medi-O fixture can be assembled with a variety of mounting options to enable the fixture's versatiliy and aesthetics to match its surroundings. We can also work with OEMs to integrate the module in existing or new fixtures and/or support your custom designs.





Monopoint Knuckle DMX/RDM Track





CAT5 (Power +Data) Power Input: LED: RGBA / Dynamic White / Fixed White 80,000 Hours B50 L70 at 45C (LM-79-08 Standard) Lumen Maintenance: Data: RJ45 Connector Color Range: 4.2 Billion discrete mixes (256 x 256 x 256 x 256) DMX: 8 or 16 bit DMX512 Operation: -13° to 113° F (-20° to 45° C) **Operating Temp.:** 0 - 95% Non-condensing Humidity: Weight: 8 Oz (0.23 kg) FCC Class B Radiated and Conducted Approvals: ETL / UL Standards 2108 cETL / CSA C22.2 No. 250.0 UL8750 and CSA 250.13 CE / IP20 Rated

Photometric Data Available Online

HOW IT WORKS





MOUNTING (Specifiable)





BODY (Specifiable) LIGHT ENGINE (Specifiable)

OPTIC

OPTIC HOLDER

NOSE CONE (Specifiable)



DESIGNED BY THE BLACK TANK

Black Tank is an LED tech company focused on specification and theatrical grade product development. In partnership with Rosco Labs, we released the Cube Family which have been used around the world in Museums to light priceless art, critical theatrical environments such as Cirque De Soleil and on Broadway, and to replace traditional fixtures in dynamic architectural installations.

The OrigamX Light Engine is the culmination of all of our experience, 18 months of R&D along with feedback from industry leading LDs, architects and engineers.

origamx.com

^{Type} 53

	$\cap \subset $
_ .	



Glowball[™]

FEATURES

AVAILABLE WITH TUNABLE WHITE AND RGBW LIGHT SOURCES

- ELEGANT & CONTEMPORARY SPHERE WITH ROBUST FROSTED SILICONE DIFFUSER
- FIXTURES CAN BE CLUSTERED TOGETHER TO CREATE LARGE SCALE INSTALLATIONS
- DIE-CAST ALUMINUM BODY
- FIELD REPLACEABLE LEDS AND DRIVERS
- AVAILABLE IN 80+ CRI AND 90+ CRI (R9>50)

4.5"

🛞 🚯

				CATAL	OG CODES				
GB1	- B -	04 -	FS -	Е -	F -	UNV -	н -	-	
SERIES	HANGING SYSTEM	SIZE	DIFFUSER	FINISH	LIGHT SOURCE	VOLTAGE	0AH	CONTROL	OPTIONS

SPECIFY CATALOG CODE

			С		D			E	
SERIES		HANGING SYSTEM	SIZE		DIFFUSER		FI	NISH	
	PICF	PENDANT WITH 5.75" SURFACE MOUNT CANOPY, SINGLE <u>SILVER</u> POWER CORD; MOUNTS TO 4X4 OCTAGON J-BOX (BY OTHERS); NOTE: STATIC WHITE MOUNTING ONLY	04	FS	FROSTED SILICONE	POWD BKP BMP	DER COAT FINISHES Black Brass Metallic	MWP Sgp	MATTE WHITE STEFL GRAY
	P1FE	PENDANT WITH 6" FLAT CANOPY, SINGLE <u>SILVER</u> POWER CORD; MOUNTS TO OCL RECESSED J-BOX (PROVIDED BY OCL); NOTE: STATIC WHITE MOUNTING ONLY				BNP BTP	BRONZE BLACK TEXTURED	SMP SWP	SILVER METALLIC
BI GLOWBALL	P1HA	PENDANT WITH 8" SURFACE MOUNT CANOPY, SINGLE <u>SILVER</u> POWER CORD; MOUNTS TO 4X4 OCTAGON J-BOX (BY OTHERS); NOTE: TUNABLE WHITE OR RGBW MOUNTING ONLY				GRP GLP	GRAPHITE GOLDTASTIC	WTP	WHITE TEXTURED
	PIJA	PENDANT WITH 5" FLAT CANOPY, SINGLE <u>SILVER</u> POWER CORD; MOUNTS TO 4X4 OCTAGON J-BOX (BY OTHERS); REMOTE DRIVER ENCLOSURE				PREM BAL	IUM METAL FINISHES BRUSHED ALUMINUM		

	LIGHT SOURCE		VOLTAGE	OAH*		CONTROL		OPTIONS
LED OUTPUT LED1	COLOR TEMP (80+ CRI) 27K 30K 35K 40K	COLOR TEMP (90+ CRI) 927K 930K 935K 940K	UNV 120-277	48 100 144	DM1	0-10V DIMMING 1%	ULD Mod	UL DAMP LABEL MODIFIED LUMINAIRE (CONTACT LOCAL REP)
TWH1	2700K	E WHITE - 5000K ; R9 50+			DM8 DALI	DUAL 0-10V DIMMING 0.1% NOTE: REQUIRES PIHA OR PIJA HANGING SYSTEM DALI TYPE 8 CONTROL SYSTEM, DIMMABLE TO 0.1% NOTE: REQUIRES PIHA OR PIJA HANGING SYSTEM		
RGBW	RG	BW			DMX	DMX CONTROL; DIMMABLE TO 0.1% NOTE: REQUIRES PIHA OR PIJA HANGING SYSTEM		

SAMPLE CODE: GB1-P1CF-04-FS-BTP-LED1/35K-UNV-44-DM1

* For Minimum OAH, see hanging systems details. Fixture will ship with one of three standard OAH's (48," 100" or 144") field adjustable to the desired height.



		04
FD1	LUMENS DELIVERED	635
EVI	SYSTEM WATTAGE	8
WH1	LUMENS DELIVERED	635
WHI	SYSTEM WATTAGE	8

This chart was created for a 35K color temp. Multiply by 0.95 for 27k color temp, 0.97 for 30k color temp, and 1.03 for 40k color temp. Wattage and lumen data for **TWH1** approx. pending LM-79 testing.; contact factory for **RGBW.**

Values shown for 80+ CRI. For 90+ CRI lumens use 0.85 multiplier.

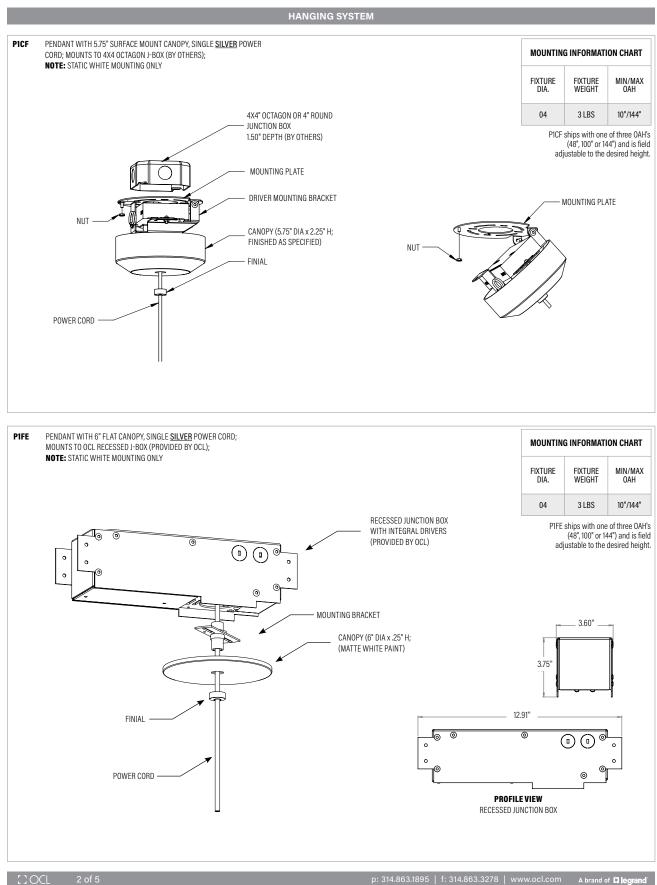


This product meets the material restrictions of Article 4 of the RoHS Directive (2011/65/EU), including Commission Delegated Directive 2015/863.

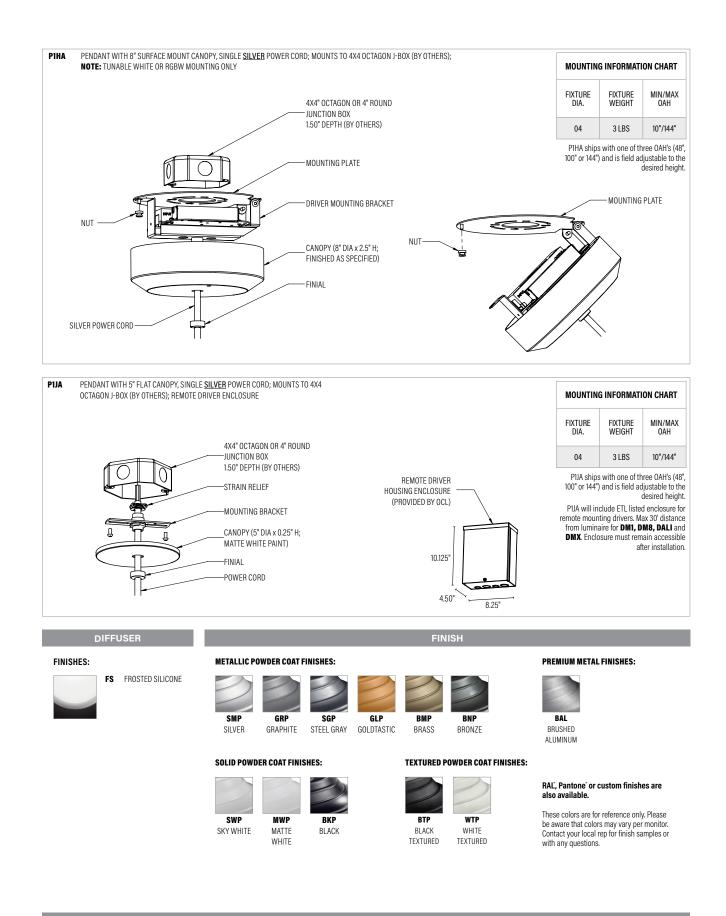
MODS, NOTES, & COMMENTS

[] OCL 1 of 5

sixteen5hundred	Dynamic Lighting Showcase	GB1 P1CE 04 ES BKP RGBW LINV 48 DMX	^{туре} 53
-	Submitted By 16500, INC	Notes	00



sixteen <mark>5</mark> hundred		Catalog Number GB1 P1CF 04 FS BKP RGBW UNV 48 DMX	^{Туре} 53
SixteenOnunured	Submitted By 16500, INC	Notes	



	Dynamic Lighting Showcase	Catalog Number GB1 P1CF 04 FS BKP RGBW UNV 48 DMX
sixteen5hundred		Notes

Туре 53

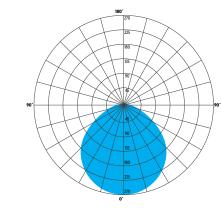
		04
LED1	LUMENS DELIVERED	635
LEVI	SYSTEM WATTAGE	8
TWH1	LUMENS DELIVERED	635
IWHI	SYSTEM WATTAGE	8

This chart was created for a 35K color temp. Multiply by 0.95 for 27k color temp, 0.97 for 30k color temp, and 1.03 for 40k color temp. Wattage and lumen data for **TWH1** approx. pending LM-79 testing.; contact factory for RGBW.

Values shown for 80+ CRI. For 90+ CRI lumens use 0.85 multiplier.

STANDARD COLOR Temperature options	CRI	(RA)
2700K	80+	90+
3000K	80+	90+
3500K	80+	90+
4000K	80+	90+
TWH1	90)+
RGBW	N.	/A

ZONE	LUMENS	% OF Luminaire
0-30	165	26%
0-60	485	76%
0-90	610	96%
90-180	25	4%
0-180	635	100%



PHOTOMETRY:

LUMINAIRE:	GB1-PICF-04-FS-WTP-LED1_35K-UNV-36-DM1
COLOR TEMP #:	3500K
EFFICACY:	79 LM/W
TEST REPORT:	TEST NO. 20859.0

For all available IES files, please visit our website at ocl.com.

DMX CONTROL DIMMABLE TO 0.1%

- MINIMUM AMBIENT OPERATING TEMPERATURE -4°F

- LOGARITHMIC DIMMING CURVE [DEFAULT]

DMX/RDM DIMMING PROTOCOL

0.1% MINIMUM DIM LEVEL

- ELECTRONIC DRIVER

= POWER FACTOR >0.9

= FIELD REPLACEABLE

- THD <20%

DMX

.

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0-10V DIMMING 1% DM1

- 0-10V DIMMING PROTOCOL
- = 1% MINIMUM DIM LEVEL
- ELECTRONIC DRIVER
- POWER FACTOR > 0.9
- THD <20%
- MINIMUM AMBIENT OPERATING TEMPERATURE -31°F
- LINEAR DIMMING CURVE
- = FIELD REPLACEABLE

DALI DALI CONTROL SYSTEM, DIMMABLE 0.1%

- DALI-2 DEVICE TYPE 6 CONTROL PROTOCOL
- 0.1% MINIMUM DIM LEVEL
- ELECTRONIC DRIVER
- POWER FACTOR >0.9
- THD <20%
- MINIMUM AMBIENT OPERATING TEMPERATURE -4°F
- LOGARITHMIC DIMMING CURVE [DEFAULT]
- FIELD REPLACEABLE

DAMP LABEL LUMINAIRE ULD

OPTIONS

- MAY BE USED IN AN OUTDOOR AREA THAT IS PROTECTED FROM DIRECT CONTACT WITH WIND, RAIN, SNOW OR EXCESSIVE MOISTURE

MODIFIED LUMINAIRE MOD LUMINAIRE IS MODIFIED FROM STANDARD OPTIONS;

CONTACT LOCAL REP FOR MORE INFORMATION

DM8 DUAL 0-10V DIMMING 0.1%

- 0-10V DIMMING PROTOCOL
- = 0.1% MINIMUM DIM LEVEL
- ELECTRONIC DRIVER
- POWER FACTOR >0.9
- THD <20%
- MINIMUM AMBIENT OPERATING TEMPERATURE -4°F
- LOGARITHMIC DIMMING CURVE [DEFAULT]
- FIELD REPLACEABLE

_	Dynamic Lighting Showcase	-	Type 53
sixteen5hundred			00
	Submitted By	Notes	
	16500, INC		

SPECIFICATIONS

CONSTRUCTION

- HOUSING IS DIE-CAST ALUMINUM
- DIFFUSER IS FROSTED SILICONE
- CANOPY IS SPUN ALUMINUM
- HARDWARE IS ZINC PLATED OR STAINLESS STEEL
- MOUNTING
- P1CF, P1HA AND P1JA MOUNT TO 4X4" OCTAGON OR 4" ROUND J-BOX (BY OTHER)
- **PIFE** MOUNTS TO OCL PROPRIETARY RECESSED J-BOX WITH INTERGRAL DRIVER (PROVIDED BY OCL)

ELECTRICAL

.

- DIMMING ELECTRONIC DRIVER(S), COMES STANDARD
 - WITH 0-10V DOWN TO 1% [STATIC WHITE]
- BRIDGELUX VERO 10 GEN 6 COB
- 80+ CRI = 80 RA, R9 > 0 (10-15 TYP.)
- 90+ CRI = 90 RA, R9 > 50
 - FOR INTEGRAL DRIVERS: LUMINAIRE CONNECTS TO BUILDING SUPPLY (120V-277V 50/60HZ)
- FOR REMOTE DRIVERS: LUMINAIRE WIRE LEADS ARE LOW-VOLTAGE. THE WIRES SHOULD BE CONNECTED TO OCL PROVIDED REMOTE DRIVER ENCLOSURE ONLY!

LISTING

 ETL LISTED TO UL 1598 FOR DRY LOCATIONS; DAMP LOCATION LISTED IS OPTION

WARRANTY

 5 YEAR; ALL ELECTRICAL COMPONENTS RETAIN THE MANUFACTURER'S WARRANTY

SUSTAINABILITY

 THIS PRODUCT MEETS THE MATERIAL RESTRICTIONS OF ARTICLE 4 OF THE ROHS DIRECTIVE (2011/65/ EU), INCLUDING COMMISSION DELEGATED DIRECTIVE 2015/863

The drawings and specifications and ideas, designs and arrangements represented on these drawings are and shall remain the property of The Original Cast Lighting (OCL Architectural Lighting) and no part thereof shall be copied, disclosed, to others or used in conjunction with any work or project other than the specified project for which they have been prepared and developed, without written consent of OCL. Visual contact with these plans or specifications shall constitute conclusive evidence of acceptance of these restrictions. All specifications and information subject to change without notice.

sixteen5hundred	Dynamic Lighting Showcase	Catalog Number BPRO3-LIN FLSH CH SO 2' TMW TMW BTW TGADC UNV X1 EPDA Notes	^{Type} 56
	16500, INC	NOUS	

Chroma Hue BionicPro3 | Linear



LM/W

но

1200

1100

1225

1225

10.5

но

775

10.5

so

950

885

975

975

8

so

825 1075 1375

625

8

1170 1450

1000 1200

МО

685

640

700

700

6

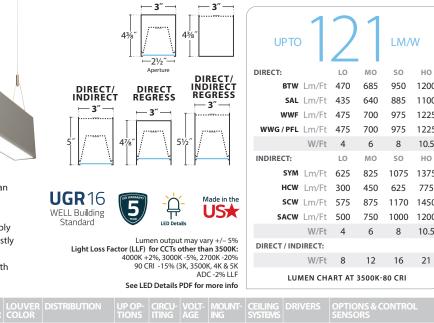
мо

450

875

750

6



DIRECT

INDIRECT



What distinguishes BionicPro?

 $2^{''}$ - $3^{''}$ - $4^{''}$ - $5^{''}$ luminaires with a seamless lens for clean lines of light and no light leaks, anywhere. Fantastic optical performance via our TruBeam[™] technology delivering the industry's best batwing with remarkably soft, even illumination and low glare (UGR <19), a vastly improved Ceiling Wash, two wall washes to fit your design intent, our Perimeter Fill to wash corridors with light from one side, all with just a lens change.

SERIES	LENS POS.	LED COLOR	OUTPUT	NOM. LENGTH			DISTRIBL	JTION	UP OP- TIONS	CIRCU- ITING	VOLT- AGE	MOUNT- ING	CEILING SYSTEMS	DRIVERS	OPTIONS & CONTROL SENSORS
BPro3- Lin			_				_	_							
Bionic Pro3 Linear	FLSH Flush Lens Wi Re- gress With Lou- ver	CH Chro- ma- Hue, RGBW	LO Low MO Medium SO Standard HO High PROG Program- mable Light Output (Specify desired Im/ft or w/ft) SPECIFY DOWN THEN UP IF DIFFERENT OUTPUT DESIRED	2' 3' 4' 5' 6' 7' 8' R (Row Length, 1' incre- ments) SRL Sym- metric Row Length, (See 7) NOTE: Intelled for row mounting	TMW Tex- tured Matte White (Stan- dard) YGW White Y Pre- mium Color CC Cus- tom Color	YBK Black Matte (Standard) TMW Tex- tured Matte White YGW Gloss White Y_ Pre- mium Color CC Custom Color	CHO DOWN: U DOWN: NW No Down- light SAL Satin Lens BTW Batwing WWF Flat Wall Wash PFL WWG Focal Glow Wall Wash PFL Perim- eter Fill (wall mounted	-AND- P UP: NU No Up- light HCW Hard Ceiling Wash SYM Sym- metric (Frosted ADC standard) SCW Soft Ceiling Wash Soft Ceiling Wash	TG Top Glow ACrylic Cover (Clear) Standard for SYM (Frosted) TGADC Top Glow with Acrylic Dust Cover UP Op- TIONS AVAIL- ABLE WITH ANY UP DISTRI- BUTION	SC Single Circuit (Down & Up will dim to- gether) Dual Circuit (Needed fidim- ming Down sepa- rately from Up)	277) 347 (Emer- gency battery requires remote driver	CA48", 96" or 144" Aircraft Cable (Adjust- able) SUR SUR SUR SUR SUR SUR Table (Direct only) WM WS Direct to Wall Spacer WS2 2" Wall Spacer WS2 2" Wall Spacer WBracket (2"-6" in 5" increments, 3" standard if not specified)	X1 T-Bar X3 Hard Ceiling X6 Slot Grid	EPDA EldoLED Power- Drive RGBW, DMX	EMHE CA T20 Emergency Battery (1250 Delivered lumens; CA Title 20 compliant) ETS-DR lota ETS-DR Emer- gency Transfer Switch EMC Emergency Circuiting EBCP1G /2G Single / Dual Gang (Electrical Box Cover Plate/Mud Ring) PIF Pre-installed Indi- vidual Fixture (Saves time on individual fixture installs, see page 4) SENSORS: 205 WattStopper PIR Occupancy 205-ON/OFF 205-STEP: Dim to 50% ENL Enlighted SU-5E-IOT LUX Phillips DL LVOC Lutron Vive (Occ & RF) LVRF Lutron Vive (Occ & RF) NXSMP Hubbell (Occ) NLT Acuity N-Light
							SAL SYM	Wash BTW HCV		/WF GCW	wwg	PFL SACW			CORNERS: C4T Lit C2-60 Lit 60° 90° C2-90 Lit 90° -4-Way: + C2-120 Lit 45°-135° -4-Way: + 120° -4-Way: X C2-135 C3T Lit 90° 2-Plane 3-Way: Y C80 Lit G3T Lit 90° 2-Plane 3-Way: Y C80 Lit Q-Way: Y C80 Lit Q-Way: Y C90 2-Plane LRT Linear to Recessed Transition (Straight rows only)

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BPRO3-LIN FLSH CH SO 2' TMW TMW BTW TGADC UNV



Chroma Hue BionicPro3 | Linear



DISTRIBUTIONS:

SATIN LENS

Medium Output: BPRO3-LIN-FLSH-LED35-MO-SAL								
2566	Delivered Lumens	$X \perp Y$						
23	Watts	X						
113	lm/w	XXX						
3500	CCT							
1.24	Spacing Criteria							
Test #1040	13131LAX-002F							

Zonal Lume 0-90 = 100%			940			
Vertical Angle	0 °	25°	45°	65°	90 °	
0 °	940	940	940	940	940	
5 °	933	934	930	936	938	
15°	890	891	890	897	899	
25°	808	810	812	823	826	
35°	702	704	708	720	724	
45 °	580	581	585	596	602	
55°	448	449	453	460	466	
65 °	310	311	314	319	325	
75°	174	174	177	180	185	
85 °	45	45	48	50	52	
90 °	0	0	0	0	0	

HARD CEILING WASH

Standard Output: BPRO4-LED35-SO-NW-HCW 2504 Delivered Lumens 33 Watts 86 lm/w 3500 CCT Test #104491851LAX-010 Zonal Lumen Summary:

958

90-180 = 100%

Vertical Angle	0 °	22.5°	45 °	67.5°	90 °
90 °	0	0	0	0	0
95°	40	44	57	89	27
105°	557	564	455	243	101
115°	958	846	572	309	178
125°	900	793	558	336	241
135°	718	644	489	346	285
145°	548	507	425	347	314
155°	437	420	382	346	332
165°	376	370	356	346	342
175°	348	347	345	346	348
180°	345	345	345	345	345

BATWING



	~			<	\geq
Zonal Lume 0-90 = 100%		ary:		1096	
Vertical Angle	0 °	25°	45 °	65°	90 °
0 °	690	690	690	690	690
5 °	734	727	705	690	684
15°	971	932	819	688	630
25°	1096	1058	910	667	541
35°	1029	1018	903	609	447
45 °	796	820	787	512	365
55°	540	566	587	393	295
65 °	337	352	371	273	226
75°	178	184	192	162	148
85°	49	50	54	53	53
90 °	0	0	0	0	0

SYMMETRIC

Standard Output:



180 = 100%	

Vertical Angle	0 °	22.5 °	45 °	67.5 °	90°
90 °	0	0	0	0	0
95 °	68	68	69	69	72
105°	245	246	256	258	259
115°	490	490	496	490	495
125°	756	757	762	753	767
135°	1035	1035	1026	1037	1051
145°	1291	1291	1294	1309	1323
155°	1521	1521	1520	1534	1549
165°	1681	1681	1677	1690	1706
175°	1761	1761	1756	1770	1787
180°	1775	1775	1775	1775	1775

UGR16 WELL Building Standard

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1224

Catalog Number BPRO3-LIN FLSH CH SO 2' TMW TMW BTW TGADC UNV X1 EPDA Notes



Chroma Hue BionicPro3 | Linear



DISTRIBUTIONS:

FLAT WALL WASH

Standard Output:

BPRO3-FLSH-LED35-LO-4-WWF								
1923	Delivered Lumens							
15.40	Watts	X						
125	lm/w	$\mathcal{N}\mathcal{X}\mathcal{D}$						
3500	CCT							
Test 10436	1023LAX-003B							
Zonal	Lumen Summary:							

0-90 = 100%

	Vertical Angle	0 °	25°	45°	65°	90 °
	90 °	0	0	0	0	0
	85°	20	20	24	26	26
	75°	69	72	88	92	88
ш	65°	134	141	178	191	174
SIL	55°	227	244	309	363	323
WALL SIDE	45°	371	398	490	613	500
3	35°	577	612	748	862	636
	25°	890	936	1056	994	732
	15°	1224	1221	1154	977	797
	5 °	994	982	934	883	831
	0 °	834	834	834	834	1714
	5 °	742	747	758	788	831
	15°	649	654	666	705	797
	25°	538	551	580	625	732
В	35°	422	432	463	525	636
ROOM SIDE	45°	329	336	353	399	500
NOC	55°	243	245	250	264	323
Å	65°	169	165	159	155	174
	75°	97	95	87	81	88
	85°	24	26	24	24	26
	90°	0	0	0	0	0
	Vertical Angle	180°	202.5°	225°	247.5°	270°

FOCAL GLOW WALL WASH / PERIMETER FILL



0-90 = 100%

	Vertical Angle	0 °	25°	45°	65 °	90 °
	90°	0	0	0	0	0
	85°	22	22	27	29	30
	75°	75	80	103	104	95
Щ.	65 °	155	169	226	211	162
SIDE	55°	284	312	423	374	249
WALL	45°	494	546	678	555	359
≥	35°	827	868	885	691	475
	25°	1059	1039	940	767	584
	15°	992	971	893	788	669
	5 °	818	815	786	754	715
	0 °	720	720	720	720	720
	5 °	626	635	647	677	715
	15°	523	528	540	582	669
	25°	466	470	474	496	584
SIDE	35°	408	409	411	417	475
ISI	45°	351	348	341	335	359
ROOM	55°	285	281	263	244	249
ñ	65°	210	203	180	159	162
	75°	121	120	101	90	95
	85°	33	35	30	28	30
	90°	0	0	0	0	0
	Vertical Angle	180°	202.5°	225°	247.5°	270°

LUMEN MAINTENANCE

1059

LUMEN MAIN	IENANCE
	L70 — 200,000+ Hours L90 — 100,000+ Hours (LO, MO & SO) L90 — 60,000+ Hours (HO)
LED SYSTEM	LED modules and drivers are field replaceable.
PROG (OPTIONAL)	Programmable light output. Specify desired lumens or watts per linear foot.
BINNING	Standard binning (all Prudential LED boards) includes testing at the chip level and board integration to provide consistent color temperature within a 3-step MacAdams ellipse, with +/- 5% lumen output range and +/004 Duv.
LABELS	CSA and ETL damp labeled and I.B.E.W. manufactured.
ELECTRICAL	Must specify LED dimming controls. LED fixtures have constant current driver(s) with less than 20% THD when loaded to a minimum of 60%. Drivers sink a maximum of 6mA per driver. DM01 LED drivers are 0-10V dimmable and are compatible with most 0-10V wall slide dimmers and direct 0-10V analog signal dimmers. Max driver size 1.65" w x 1.25" h.
CONSTRUCTIO	NC
Housing	Extruded aluminum housing >25% PC recycled, 100% recyclable.
Lens	Polymer, 100% recyclable.
Weight	3.0 lbs/ft
MOUNTING	Surface mounted to walls or ceilings, wall spacer, wall bracket to wall, suspended by cable.

ARRANTY Single-source, 5 year limited warranty covers standard components and construction.



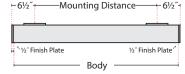
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07-16-2021

sixteen5hundred	Project 21-12877-5 Date Dynamic Lighting Showca ^{Submitted By} 16500, INC	7/26/2021 se	Catalog Number BPRO3-LIN FLSH CH S X1 EPDA Notes	50 2' TMV	V TMW BTW TO	GADC UNV	^{Type} 56
Chroma Hue Bionic	Pro3 Linear			PRUL	P R U D E N ITE.COM 213.		ð.
LOUVER DETAIL							
CORNERS	52 00		<i>c</i> . <i>c</i> .		~ ~ ~ ~		
C2-60:	C2-90:		C2-120:		C2-135:	135°	
		120°			13!	24"	
C8I:	С80:						
		H LENS	BODY TYPE Direct Flush Direct Regress Direct/Indirect Flush Direct/Indirect Regress	DIM "H" 4 ¾" 4 ⅔" 5 ″ 5 ½″	DIM "L" (I) 16 %" 17 % 17"	DIM "L" (0) 12" 12 ½" 12" 12 ½"	

07-16-2021

sixteen5hundred	Project 21-12877-5 Date 7/26/2021 Dynamic Lighting Showcase Submitted By 16500, INC	Catalog Number BPRO3-LIN FLSH (X1 EPDA Notes	CH SO 2' TMW TMW BTW TGADC UN	√ 56
Chroma Hue Bionici	Pro3 Linear		PRUDENTIAL L PRULITE.COM 213.746.0360	.т G .
۲ 1″ • o ^ ½⁻ Finish Plate	<u><u> </u></u>	TE unting Distance //2"	END Mounting Distance 1 ¹ /2 ["] 1 ["] 0 • 1 ² Finish Plate ["] Body	
INDIVIDUAL Mount 1″ • o • `½° Finish Plate	ing Distance		MOUNTING BODY* 2' 23" 24" 3' 35" 36" 4' 47" 48" 5' 59" 60" 6' 71" 72" 7' 83" 84" 8' 95" 96" dimensions add finish plate(s) where required 30" 30"	
WALL MOUNT	INTERMEDIA ting Distance—————6″–, ————————————————————————————————————		END - 6 [™]	
میں		- Body	^{1/2} Finish Plate ² Body	
INDIVIDUAL ⊢6½″Mount	ting Distance 6½".		MOUNTING BODY* 2´ 12″ 24″ 3´ 24″ 36″ 4´ 22″ 42″	



4 5 6 7 8 84″ 96″ * For overall dimensions add finish plate(s) where required

36″

48″

60″

72″

48″

60″

72″

84″

Submitted By	Catalog Number BPRO3-LIN FLSH CH SO 2' TMV X1 EPDA Notes	W TMW BTW TGADC UNV	^{тур} •
Pro3 Linear	PRU	PRUDENTIAL LTG LITE.COM 213.746.0360	
Ι	6′	<u> </u>	
	Project 21-12877-5 Date 7/26/2021 Dynamic Lighting Showcase Submitted By 16500, INC Pro3 Linear W LENGTH:	Dynamic Lighting Showcase Submitted By 16500, INC BPRO3-LIN FLSH CH SO 2' TMI X1 EPDA Notes Pro3 Linear W LENGTH:	Dynamic Lighting Showcase Submitted By 16500, INC BPRÖ3-LIN FLSH CH SO 2' TMW TMW BTW TGADC UNV X1 EPDA Notes PrO3 Linear PrU D E N TIAL LTG PRULITE.COM 213.746.0360 W LENGTH:

18 SYMMETRIC ROW LENGTH (SRL):

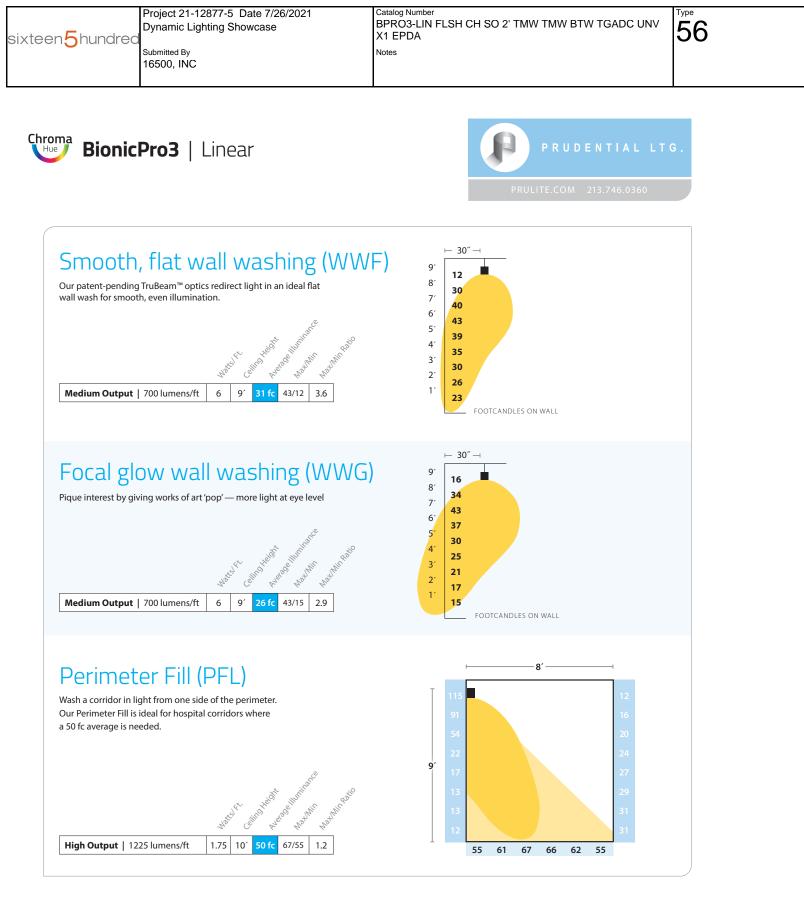
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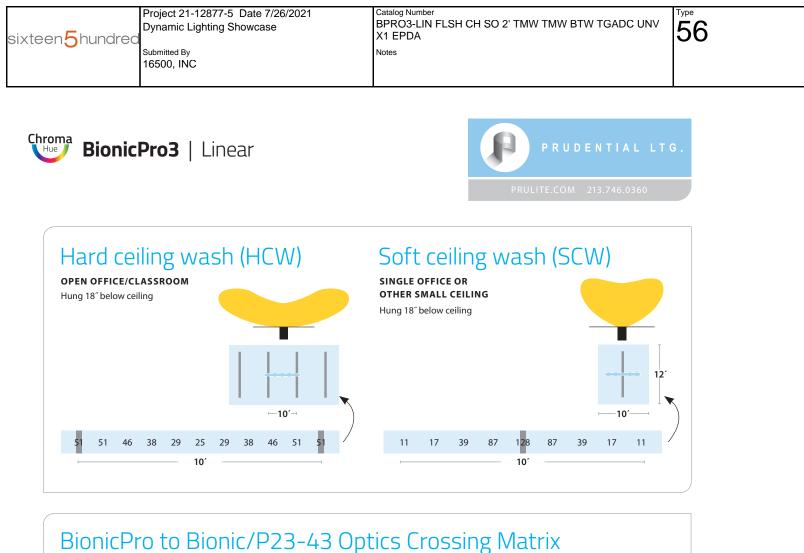
					· · · · · · · · · · · · · · · · · · ·
ROW LENGTH	STANDARD ROW LENGTH	SYMMETRIC ROW LENGTH (SRL)	ROW LENGTH	STANDARD ROW LENGTH	SYMMETRIC ROW LENGTH (SRL)
9′	5+4	3+3+3	30′	8+8+8+6	8+7+7+8
10′	6+4	5+5	31′	8+8+8+7	8+5+5+5+8
11′	7+4	4+3+4	32′	8+8+8+8	8+8+8
12′	8+4	6+6	33′	8+8+8+5+4	8+6+5+6+8
13′	8+5	4+5+4	34′	8+8+8+6+4	8+6+6+6+8
14′	8+6	7+7	35′	8+8+8+7+4	8+6+7+6+8
15′	8+7	5+5+5	36′	8+8+8+8+4	8+8+4+8+8
16′	8+8	8+8	37′	8+8+8+8+5	8+8+5+8+8
17′	8+5+4	6+5+6	38′	8+8+8+8+6	8+8+6+8+8
18′	8+6+4	6+6+6	39′	8+8+8+8+7	8+8+7+8+8
19′	8+7+4	6+7+6	40′	8+8+8+8+8	8+8+8+8
20′	8+8+4	8+4+8	41′	8+8+8+5+4	8+6+4+5+4+6+8
21′	8+8+5	8+5+8	42′	8+8+8+8+6+4	8+8+5+5+8+8
22′	8+8+6	8+6+8	43′	8+8+8+8+7+4	8+6+5+5+5+6+8
23′	8+8+7	8+7+8	44′	8+8+8+8+8+4	8+8+6+6+8+8
24′	8+8+8	8+8+8	45´	8+8+8+8+5	8+8+4+5+4+8+8
25′	8+8+5+4	6+4+5+4+6	46´	8+8+8+8+6	8+8+7+7+8+8
26′	8+8+6+4	8+5+5+8	47′	8+8+8+8+8+7	8+8+5+5+5+8+8
27′	8+8+7+4	6+5+5+5+6	48	8+8+8+8+8+8	8+8+8+8+8+8
28′	8+8+8+4	8+6+6+8	49′	8+8+8+8+5+4	8+8+6+5+6+8+8
29′	8+8+8+5	8+4+5+4+8	50´	8+8+8+8+6+4	8+8+6+6+6+8+8

NOTE: SRL will effect pricing – please consult factory.

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		21 Catalog Number BPRO3-LIN FL X1 EPDA Notes	.SH CH SO 2' TMW	TMW BTW TGADC UNV	^{Type} 56
Chroma Hue BionicPro	3 Linear			PRUDENTIAL L TE.COM 213.746.0360	T G .
BionicPro	3 Batwing Vs.	Top 3" Compe	titor (Satii	n Lens)	
SINGLE OFFIC BionicPro3		Top Compe	etitor	<u> </u>	
36 43 46 44	39 39 44 47 43 37	22 28 36	44 52 52 44	36 28 22	
	LPW SPACING CRIT MAX/MIN W/SQ.FT. FC AVERAGE	BionicPro3 121 ERIA 1.8 1.8 .38 26	Compe 111 1.3 2.6 .43 30 es at 30° working plane		
OPEN OFFICE BionicPro3 39 43 47 47 44	39 36 35 36 40 44 47 47 	Top Compet	itor 8 32 28 27 28 32	38 47 58 68 74	
⊢ 14' → ⊢ 70'	30'	LPW SPACING CRITERIA MAX/MIN MAX/MIN BETWEEN ROWS W/SQ. FT. FC AVERAGE		Competitor 111 1.3 4.4 2.8 .41 37	
		9' ceiling .85 llf BionicPro3— 5.7w/ft	Competitor—6.5w/ft Footcar	ndles at 30" working plane	







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Dynamic Eignnig Onowcase	Catalog Number BPRO3-LIN FLSH CH SO 2' TMW TMW BTW TGADC UNV X1 EPDA	^{Type} 56
Submitted By 16500, INC	Notes	

BionicPro3 | Linear



LM79 & TM30 DATA:

LIN 79 &	MEASURED CCT	MEASURED LUMENS	CRI	R9	DuV	SPD	TM30 — COLOR VECTOR	TM30 — COLOR DISTORTION
LED27	2680	80%	93	58	0.001		89 Rf	97 Rg
LED3	3042	95%	82	6	0.001		81 Rf	92 Rg
LED3-90	3016	85%	93	61	0.000		88 Rf	96 Rg
LED35	3482	100%	82	3	0.002		81 Rf	92 Rg
LED35-90	3417	85%	93	67	0.000		88 Rf	96 Rg
LED4	3952	102%	82	4	0.003		81 Rf	92 Rg
LED4-90	3882	85%	92	67	0.003		87 Rf	96 Rg
LED5-90	4889	85%	94	84	0.002		86 Rf	95 Rg

Prudential Ltg. reserves the right to change design specifications or materials without notice. Please visit prulite.com for most current data. © 2014 All rights reserved – All products manufactured at: Prudential Ltg. 1774 E. 21st Street, Los Angeles, CA 90058 Sixteen5hundred Submitted By 16500, INC Catalog Number CLIR 630W RGB

Notes

^{Type} 56A





CLIR 630w RGB



-SYSTEM WATTS: 630W -EPA: 1.4 -WEIGHT: 32 lbs -CLIR Module: DMX512 -BEAM ANGLE: 30°, 60° -POWER FACTOR: 0.90 -THD: <15% -CCT: RGB -COLOR: RAL9006 -INPUT VOLTAGE: 200v-480v -INPUT VOLTAGE: 200v-480v -INPUT PROTECTION: 10KA Current Surge -IP RATING: IP66, IP68 -OPERATING TEMP RANGE: -30°C to +50°C

-HOUSING MATERIAL: Aluminum Powder Coated











FLOPPy FLex®

24V Professional Grade, Flexible IP67 and IP68 LED Neon





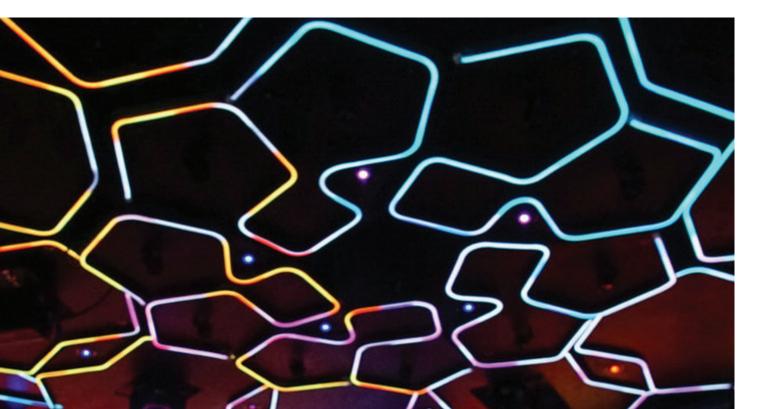
- The ideal neon replacement, easy to install and control
- Bright, beautiful colors and whites
- Professional grade quality Reliable and durable
- Four sizes. IP67 and IP68 versions available.







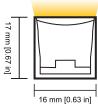
- Side-to-Side (STS) and Front-to-Back (FTB) bend options
- Various clean White options (2100K to 5700K), plus rich, bold Red, Green, Blue, Yellow, Orange, Amber, Pink, Purple versions. Custom colors available by special order.
- DMX-controlled RGB and RGBW versions, Also digital RGB and RGBW with multi-pixel control
- Wide range of stock accessories for joining, terminating, mounting, powering, controlling. Easy to use and install.



Dynamic Lighting Showcase	-	^{Type} 49A
	Notes	



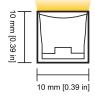




- Digital multi-pixel control in 83.34 mm "pixel" sections
- Super bright, pixel package with homogenous lighting surface
- 116.2° beam angle (PVC), 113.5° beam angle (Silicone)
- Seamless color mixing, beautiful dimming via FloppyDrive Digital
- Auto-addressing allows for quick setup and patching
- Wide range of accessories for joining, terminating, mounting, powering
- Easy to use and install
- 300 mm minimum front-to-back bend diameter
- Unlimited and unprecedented possibilities

			^{Type} 49A
-	Submitted By 16500, INC	Notes	

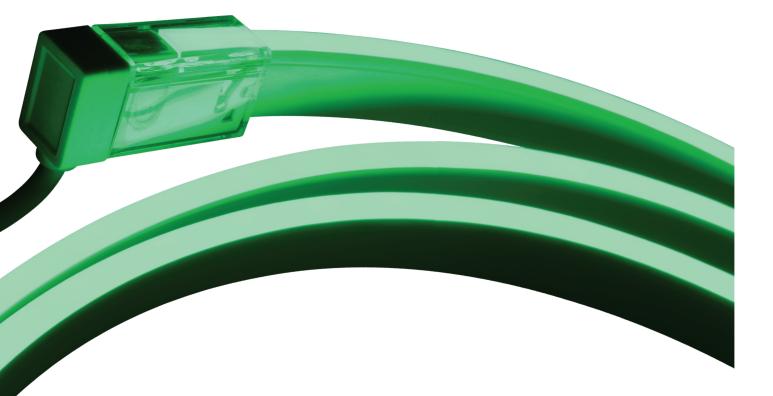




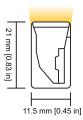
MINI

- Super bright with homogenous lighting surface
- Smooth, beautiful dimming, DMX control via FloppyDrive
- Wide beam angle
- Wide range of accessories for joining, terminating, mounting, powering
- Easy to use and install
- Tight 100 mm side-to-side or front-to-back bend
- Unlimited and unprecedented possibilities
- Smallest profile in the FloppyFlex family

sixteen <mark>5</mark> hundrec	Dynamic Lighting Showcase		^{Type} 49A
	Submitted By 16500, INC	Notes	

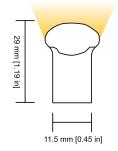






- RGB and RGBW in 100 mm cuttable units, Dynamic White in 83.34 mm cuttable units
- Super bright with homogenous lighting surface
- Seamless color mixing, beautiful dimming via FloppyDrive
- RGB has 111.9° beam angle (PVC), 109.4° (Silicone)
 RGBW has 113.9° beam angle (PVC), 111.4° (Silicone)
 Dynamic White has 113.7° beam angle (PVC), 112.2° (Silicone)
- Wide range of accessories for joining, terminating, mounting, powering
- Easy to use and install
- Tight 120 mm side-to-side bend
- Unlimited and unprecedented possibilities

bynamic Lighting Showcase	Catalog Number FLOPPY FLEX Notes	^{туре} 49A
---------------------------	--	------------------------



LARGE

- Digital RGB and RGBW with multi-pixel control in 125 mm sections with PVC Housing, 166.7 mm sections with silicone housing
- Super bright, pixel package with homogenous lighting surface
- 170.5° beam angle (PVC), 145.9° beam angle (Silicone)
- Tight 120 mm side-to-side bend
- Seamless color mixing, beautiful dimming via FloppyDrive Digital
- Auto-addressing allows for quick setup and patching
- Largest viewable beam spread in the FloppyFlex family
- Wide range of accessories for joining, terminating, mounting, powering
- Easy to use and install
- Unlimited and unprecedented possibilities



COLOR OPTIONS

Four sizes. PVC or Silicone housing options.

Side-to-Side (STS) and Front-to-Back (FTB) bend options.

		DIGITAL PIXEL NTROL			RIABLE COLOR		
	RGBW	RGB	RGBW	RGB	DYNAMIC WHITE	COLOR	WHITE
LARGE STS-PVC						RED, GREEN, BLUE, YELLOW, ORANGE, PINK, PURPLE	2100K, 2500K, 2700K, 3000K, 3500K, 4000K, 4500K, 5000K, 5700K
LARGE STS—SILICONE						RED, GREEN, BLUE, AMBER	2100K, 2700K, 3000K, 3500K, 4000K, 5700K
SMALL STS—PVC						RED, GREEN, BLUE, YELLOW, ORANGE	2100K, 2500K, 2700K, 3000K, 3500K, 4000K, 4500K, 5000K, 5700K
SMALL STS—SILICONE						RED, GREEN, BLUE, AMBER	2100K, 2700K, 3000K, 3500K, 4000K, 5700K
FLAT FTB-PVC						RED, GREEN, BLUE, AMBER	2100K, 2500K, 2700K, 3000K, 3500K, 4000K, 4500K, 5000K, 5700K
FLAT FTB—SILICONE						RED, GREEN, BLUE, AMBER	2100K, 2500K, 2700K, 2800K, 3000K, 3200K, 3500K, 3650K, 4000K, 4200K, 4500K, 5000K, 5700K
FLAT STS-PVC						RED, GREEN, BLUE, AMBER	2100K, 2500K, 2700K, 3000K, 3500K, 4000K, 4500K, 5000K, 5700K
FLAT STS—SILICONE						RED, GREEN, BLUE, AMBER	2100K, 2500K, 2700K, 2800K, 3000K, 3200K, 3500K, 3650K, 4000K, 4200K, 4500K, 5000K, 5700K
MINI FTB-PVC						RED, GREEN, BLUE, AMBER	2200K, 2700K, 3000K,, 3500K, 4000K, 5700K
MINI FTB-SILICONE						RED, GREEN, BLUE, AMBER	2200K, 2700K, 3000K, 3500K, 4000K, 5700K
MINI STS-PVC						RED, GREEN, BLUE, AMBER	2200K, 2700K, 3000K, 3500K, 4000K, 5700K
MINI STS-SILICONE						RED, GREEN, BLUE, AMBER	2200K, 2700K, 3000K, 3500K, 4000K, 5700K
							8 / 12

Project 21-12877-5 Date 7/26/2021
Dynamic Lighting Showcase
Submitted By
16500, INC

Туре **49A**

FIELD

INSTALLED

CONNECTORS/

JECTORS AND END CAPS $\left| \right|$

Factory molded and field-installable options rated up to IP68. End, bottom, and side cable feed options. End caps to seal and protect non-powered end. Side-to-Side (STS) and Front-to-Back (FTB) bend options.

LARGE

SMALL



		END CAPS		END CAPS
	MOLDED	DOUBLE MOLDED	EZ-CONNECT	SWIVEL
	ET-		10 5	Sale
LARGE STS-PVC	IP67	IP68	IP67 NOT AVAILABLE FOR VARIABLE COLOR RGBW	
ARGE STS—SILICONE	IP68		IP67 NOT AVAILABLE FOR VARIABLE COLOR RGBW	
SMALL STS-PVC	IP67	IP68	IP67 NOT AVAILABLE FOR VARIABLE COLOR RGBW	
MALL STS-SILICONE	IP68		IP67 NOT AVAILABLE FOR VARIABLE COLOR RGBW	
FLAT FTB-PVC	IP67	IP68		
FLAT FTB-SILICONE	IP68			
FLAT STS-PVC	IP67	IP68	IP67	
FLAT STS-SILICONE	IP68		IP67	
MINI FTB-PVC	IP65	IP65		IP20
MINI FTB-SILICONE	IP67			IP20
MINI STS-PVC	IP65	IP65		IP20
MINI STS-SILICONE	IP67			IP20



MOUNTING CHANNELS

Self-locking design can be mounted in any orientation. Available in multiple standard lengths. Can be cut to any custom length. Side-to-Side (STS) and Front-to-Back (FTB) bend options

			ALUMINUM PROFILES
	SELF-LOCKING	RECESSED SELF-LOCKING	FLEXIBLE SELF-LOCKING
LARGE STS	20mm, 500mm, 1m, 2m	20mm, 500mm, 1m, 2m	500mm, 1m
SMALL STS	20mm, 500mm, 1m, 2m	20mm, 500mm, 1m, 2m	500mm, 1m
FLAT FTB	20mm, 500mm, 1m, 2m	20mm, 500mm, 1m, 2m	
FLAT STS	20mm, 500mm, 1m, 2m	20mm, 500mm, 1m, 2m	500mm, 1m
MINI FTB	20mm, 500mm, 1m, 2m	20mm, 500mm, 1m, 2m	
MINI STS	20mm, 500mm, 1m, 2m	20mm, 500mm, 1m, 2m	500mm, 1m

Sixteen5hundred Submitted By 16500, INC Catalog Number FLOPPY FLEX

Notes

^{Type} 49A

FLOPPYFLEX DRIVES





FloppyDrive DIN Rail Mount

DMX dimming for fixed color or variable color FloppyFlex. Two 2-, 3-, 4-, or 5-wire outputs. Addressing, monitoring and reporting of all functions, via RDM. Requires separate 24V power supply.

FloppyDrive 4x2 24V PortableMount

DMX dimming for fixed color or variable color FloppyFlex. Two 24 VDC 4-wire outputs. Color LCD Display with easyfunction control buttons for easy setup and configuration. RDM functionality for complete system monitoring and addressing via RDM.



Mean Well 24 VDC LED Drivers

High efficiency 24VDC LED drivers in DIN Rail and standalone with multiple wattage configurations. Fixed or dimmable output available via 1-10VDC, 10V PWM signal, resistance, or built-in potentiometer. IP-rated units also available.

FLOPPYFLEX DIGITAL DRIVES





FloppyDrive Digital DIN Rail Mount

DMX multi-pixel dimming for FloppyFlex Digital RGB or RGBW. Addressing, monitoring and reporting of all functions, via RDM. Requires separate 24 VDC power supply.

FloppyDrive Digital PortableMount

DMX multi-pixel dimming for FloppyFlex Digital RGB or RGBW. Color LCD Display with easy-function control buttons for easy setup and configuration. RDM functionality for complete system monitoring and addressing via RDM.

	Dynamic Lighting Showcase		^{Type} 49A
-		Notes	



24V Professional Grade, Flexible IP67 and IP68 LED Neon

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Beijing Toronto +86 10.8492.1587 +1 519.538.0888

2888

sixteen5hundred Submitted By 16500, INC Catalog Number IMS MK2

Notes



^{Type} 49C



IMS MK2

The BEST of IMS with NEW features and options!

Individually DMX Controlled Marquee / Festoon Lighting Systems





- Redesigned! Improved! Brighter!!
- RGBWW, Dynamic White, and "Filament" versions
- Shatterproof! Indoor/outdoor!
- 2-wire system Power and data share the same two wires
- Classic "Retro" look. Standard Edison base, retrofits in existing systems



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sixteen <mark>5</mark> hundred		Catalog Number IMS MK2	^{Type} 49C
	Submitted By 16500, INC	Notes	

Lamp Specifications					
		RGBWW	Dynamic White	V12 "Filament"	
LEDs		4 x Cre	e LEDs	12 x LEDs	
Lumen Output (LM)		Red - 15.19 lm Green - 31.89 lm Blue - 5.53 lm Warm White - 18.76 lm RGBWW at Full - 66.24 lm	Cool: 64.49 lumens Warm: 40.35 lumens C/W at Full: 103.28 lumens	53.3	
CCT		n/a	2200-6500K	2200K	
Power Cons	umption	1.8W		1.6W	
Screw Base		E26			
Power Input		24 VDC			
Data Input		DMX			
Dimensione	Lamp Only (dia, height)	1.78 in., 1.57 in. (45, 40 mm)			
Dimensions	Lamp + Socket (width, height)	1.78 in., 2.64 in. (45, 67 mm)			
Field Addres	sable	Option	nal remote Hand Held Programmer	(HHP)	
DMX Channe	els ¹	4	2	1	
Material		Frosted Polycarbonate, UV Resistant, Shatterproof. E26 metal screw base ²		Transparent Polycarbonate, UV Resistant, Shatterproof. E26 metal screw base ²	
Lamp Shape		G-type lamp			
Exterior Color		White		Clear	
Operating Temp		-4 °F to +104 °F (-20 °C to +40 °C)			

¹ RGBWW Lamps: 4 DMX channels per lamp. Maximum possible uniquely addressed lamps per DMX universe – 128 Dynamic White Lamps: 2 DMX channels per lamp. Maximum possible uniquely addressed lamps per DMX universe – 256 V12 "Filament" Lamps: 1 DMX channel per lamp. Maximum possible uniquely addressed lamps per DMX universe – 512
 ² For outdoor use application of a thin coat of silicone grease to bulb's metal screw base before inserting in socket is recommended.

	ProPlex IMS Universe Drive Specifications					
	Multiple Universe Drive (2U)	Simple Universe Drive (2U)	Universe Drive (PortableMount)	Universe Drive IP65 (IP Rated)	Universe Drive (DIN Rail)	
Part Number	PPMK2MUD	PPMK2SUD	PPMK2UD	IMSMK2IPUD	IMSMK2DINUDA	
Operating Voltages			90-260 VAC		24 VDC	
Frequency Tolerance			50-60 Hz			
Power Consumption	1200 W	1200 W	300 W	300 W	External 250 W PSU required	
Number of Outputs	8	8		2	•	
Output Voltage			24 VDC			
Number of Universes	4		1			
Power Input		Neutrik PowerCON	N NAC3MPA-1	Phoenix MSTB 2+2-terminal ³	Phoenix MSTB 2-terminal ³	
Power Thru	No	Neutrik PowerCON NAC3MPB-1		None		
DMX512 Input	Neutrik XLR-5		Neutrik XLR-5		Phoenix MSTB 3-terminal ³	
DMX512 Thru		Neutrik X	LR-5	Phoenix MSTB 3-terminal ³		
Ethernet Input	Neutrik EtherCON		Nor	ne		
Power/Data Outputs	8x Neutrik Speal	ON NL2 2-pole	2x Neutrik SpeakON NL2 2-pole	2x Phoenix I	MSTB 2-terminal ³	
Max. Cable Length	240	6 ft. (75m) to last lar	mp, max. 64 lamps, using 14 AWG /	2.5 mm ² 2-conductor fes	toon cable⁴	
Operating Temp			-4 °F to +104 °F (-20 °C to +4	40 °C)		
Dimensions (HxWxD)	3.5 x 19 [90 x 483 x		With yoke: 4.75 x 8 x 10.69 in. [120.6 x 203.2 x 271.5 mm] W/O yoke: 3.44 x 7.75 x 10.69 in. [87.4 x 196.8 x 271.5 mm]	4.53 x 10.75 x 10 in. [115 x 273 x 254 mm]	1.55 x 4.1 x 3.63 in. [39.5 x 104 x 92.3 mm]	
Shipping Dimensions (HxWxD)	8 x 21 x [203 x 533		7.3 x 10.25 x 13.5 in. [186 x 261 x 343 mm]	TBD	4 x 6.625 x 6.625 in. [101.6 x 168.3 x 168.3 mm]	
Weight	15 lb [6.8 kg]	16.3 lb [7.4 kg]	8.7 lb [3.9 kg]	TBD	0.38 lb [174 g]	
Shipping Weight	17 lb [7.7 kg]	18.3 lb [8.3 kg]	9.5 lb [4.3 kg]	TBD	0.65 lb [0.28 kg]	
Color		Blue		Silver	Blue / Silver	

⁴ See page 3 for Cable Length / Lamp Spacing Tables

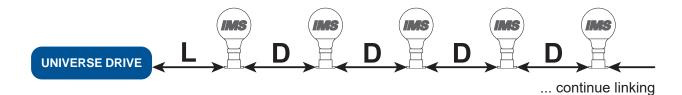
	Dynamic Lighting Showcase	Catalog Number IMS MK2	^{Type} 49C
-		Notes	

Hand Held Programmer Specifications		
Part Number IMSMK2HHP		
Power Input 5V micro USB		
Battery Internal lithium-ion rechargeable battery		
Dimensions (HxWxD) 7.25 x 3.25 x 1.375 in. (184 x 83 x 35 mm)		
Weight 0.8 lbs. (0.36 kg)		
Connector E27 threadless socket		



- Upload latest firmware to lamps
- E27 threadless socket to quickly test, color check, and update individual lamps
- · Test lamp systems w/various color & intensity presets
- DMX address lamps
- Connect to Universe Drive via onboard 5-pin connector. Output test patterns to fully-loaded lamp strings without a console!

Cable Length / Lamp Spacing Tables*



if D = 15 cm			
Cable setting	L	Max.	
Short	1 m	64	
Medium	5 m	64	
Long	20 m	64	
Short with transcoding	5 m	64	
Medium with transcoding	25 m	64	
Long with transcoding	55 m	64	

if D = 30 cm			
Cable setting	L	Max.	
Short	1 m	51	
Medium	5 m	64	
Long	10 m	64	
Short with transcoding	5 m	64	
Medium with transcoding	20 m	64	
Long with transcoding	50 m	64	

	LEGEND
	IMS Lamp
Max.	Max. amount of working lamps
L	Length of cable between Universe Drive and first lamp
D	Distance between lamps (cm)

if D = 50 cm			
Cable setting	L	Max.	
Short	1 m	41	
Medium	1 m	64	
Long	10 m	64	
Short with transcoding	1 m	62	
Medium with transcoding	15 m	64	
Long with transcoding	45 m	64	

<i>if D</i> = 100 <i>cm</i>			
Cable setting	L	Max.	
Short	1 m	30	
Medium	1 m	46	
Long	1 m	64	
Short with transcoding	1 m	45	
Medium with transcoding	1 m	64	
Long with transcoding	40 m	64	

* The above settings are recommended using IMS122CL3 cable. Settings may vary depending on cable type, IMS control data transfer rate, and other conditions. The settings are examples of different scenarios and their tested results.





BeveLED® 2.2 Infinite Color+® - B4SW-FC1 4.5″ Square Wall Wash

USAI[®] Lighting

Field Convertible from Trimless or Millwork to Trimmed

Notes

Trimmed - B4SWF-FC1



Trimless - B4SWL-FC1

Millwork - B4SWM-FC1



usailighting.com/infinitecolor

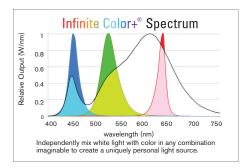
BeveLED 2.2 Infinite Color+ - Access to a wide variety of perfect architectural whites, saturated colors, neutrals, and pastels are possible with DMX controls. Infinite opportunities abound for residential, hospitality and retail lighting applications, and any project requiring full color and white light flexibility.

FEATURES

- Full color and white light flexibility
- Dry/damp/wet location rated for showers
- Field convertible from trimless or millwork to trimmed

DOWNLIGHT PERFORMANCE DATA

DELIVERED	Infinite Color +			
PERFORMANCE:	White Light Channel Only	Multi Channel Output		
Wattage	23W	32W		
Source Lumens:	1675	2100		
Lumens Per Watt:	57	50		
Delivered Lumens:	1275	1600		



USAI LIGHTING COLLABORATORY 13 Crosby Street New York, NY 10013 845-234-4090 showroom@usailighting.com USAI LIGHTING HEADQUARTERS 1126 River Road New Windsor, NY 12553 845–565–8500 info@usailighting.com Page 1

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Dynamic Eighting Chowcase	Catalog Number B4SWF 32FC1 W1 D1 WH WH NC UNV D23X2 RJ CB27	^{туре} 58
Submitted By 16500, INC	Notes	

HOW TO SPECIFY

BeveLED[®] 2.2 Infinite Color+[®] - B4SW-FC1 4.5" Square Wall Wash with Integral Driver Specify fixture part number

B4SW_	32FC1	W1	D1				UNV			
BeveLED Trim Style	Wattage Options	Beam Spread	Lens	Bevel Trim Finish Options	*Flange/ Millwork Collar Finish	Housing Options	Universal Voltage Option	Dimming Driver Options	Cabling Options Select one	Acessories (Optional)
F Trimmed	32FC1 32W LED	W1 Tilted	D1 Wall Wash	WH White	WH White	NC New	UNV 120V-277V	D23X1 EldoLED DMX 0.1%	RJ RJ45 Jacks	CB27 27" C-Channel Bar
with Flange (use with all materials)		Wall Wash Optic	Lens	SC Conduit Silver	SC Conduit Silver	Construction All-in-One		dimming, manual addressing using RDM protocol, 8 bit	WR Manual Wire	CB52 52" C-Channel Bar
L Trimless				GR Grey	GR Grey	NCCP Chicago Plenum		D23X2 EldoLED DMX 0.1%	Splice Connection	EM Emergency battery
Spackle-in (use with				BL Black	BL Black	NCIC Insulation		dimming, manual addressing using		(available with NC housing only)
sheetrock and plaster only)				BZ Bronze	BZ Bronze	Contact Rated /		RDM protocol, 16 bit		
M Millwork				PR Primer Finish	PR Primer Finish	Airtight				
Knife-Edge (use with wood and				AC Clear Matte Anodized	AC Clear Matte Anodized	-				
stone)					WH White					
					GR Grey					
					BL Black					
				AB Piano Gloss Black	AB Piano Gloss Black	_				
TRIM FII	NISH OP	TIONS			WH White					
~					GR Grey					
White		Bla			BL Black					
	Grey		CK	RAL Custom Color Specify RAL #	RAL Custom Color Specify RAL #	-				
Bronze	Custom R	AL Cu	ustom RAL		*Leave blank					

USAI LIGHTING HEADQUARTERS 1126 River Road New Windsor, NY 12553 845-565-8500 info@usailighting.com

sixteen5hundred	Dynamic Lighting Showcase	Catalog Number B4SWF 32FC1 W1 D1 WH WH NC UNV D23X2 RJ CB27	^{туре} 58
	Submitted By 16500, INC	Notes	

HOW TO SPECIFY

BeveLED® 2.2 Infinite Color+® - B4SW-FC1 4.5″ Square Wall Wash with Remote Driver

1. Specify fixture part number

B4SW_	32FC1	W1	D1				RM		USAI
BeveLED Trim Style	Wattage Options	Beam Spread	Lens	Bevel Trim Finish Options	*Flange/ Millwork Collar Finish	Housing Options	Remote Dimming Driver	Acessories (Optional)	Power Supply Must Be Specified
F Trimmed	32FC1 32W LED	W1 Tilted	D1 Wall Wash	WH White	WH White	NC New	RM Remote Dimming	CB27 27" C-Channel	Supply
with Flange (use with all materials)		Wall Wash Optic	Lens	SC Conduit Silver	SC Conduit Silver	Construction All-in-One	Driver, specify remote power supply in table	Bars CB52	Must Be
L Trimless				GR Grey	GR Grey	NCCP Chicago Plenum	below	52" C-Channel Bars	Specified
Spackle-in (use with				BL Black	BL Black	NCIC Insulation			
sheetrock and plaster only)				BZ Bronze	BZ Bronze	Contact Rated /			
M Millwork				PR Primer Finish	PR Primer Finish	Airtight			
Knife-Edge (use with wood and				AC Clear Matte Anodized	AC Clear Matte Anodized				
stone)					WH White				
					GR Grey				
					BL Black				
				AB Piano Gloss Black	AB Piano Gloss Black				
TRIM FI	NISH OP	TIONS			WH White				
					GR Grey				
White	Grey	Blac			BL Black				
vvnite				RAL Custom Color Specify RAL #	RAL Custom Color Specify RAL #				
		AL Cu	istom RAL	1					

2. Specify Remote Power Supply -

RPC-01 Remote Power Supply	32FC1 Fixture Wattage	UNV Voltage	Remo	te Dimming Driver Type*	Cabling Options Select one	
RPC-01 BeveLED 2.2 Infinite Color+	32FC1 32W LED	UNV 120V - 277V	D23X1 D23X2	EldoLED DMX 0.1% dimming, manual addressing using RDM protocol, 8 bit EldoLED DMX 0.1% dimming, manual	RJ RJ45 Jacks WR	
Remote Power Supply				addressing using RDM protocol, 16 bit es remote enclosure by others, n size 9 "L x 4"W x 2"H	Manual Wire Splice Connection	NOTE: Remote Power Supplies Require Enclosures by Others. See Page 7 for Details.

USAI LIGHTING COLLABORATORY 13 Crosby Street New York, NY 10013 845-234-4090 showroom@usailighting.com USAI LIGHTING HEADQUARTERS 1126 River Road New Windsor, NY 12553 845–565–8500 info@usailighting.com © 2018. USAI, LLC. All rights reserved. All designs protected by copyright. Covered by US Patents: 4,778,453, 9,671,091 and 7,832,889. Patents pending. USAI, BeveLED and Infinite Color+ are registered trademarks of USAI, LLC Revised 05/04/2020

Page 3

Lighting

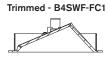
Dynamic Lighting Showcase	Catalog Number B4SWF 32FC1 W1 D1 WH WH NC UNV D23X2 RJ CB27	^{Type} 58
Submitted By 16500, INC	Notes	

Trimmed - B4SWF-FC1

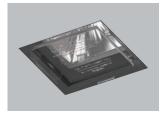
BeveLED® 2.2 Infinite Color+® - B4SW-FC1 4.5″ Square Wall Wash

USAI[®] Lighting

TRIM DETAILS



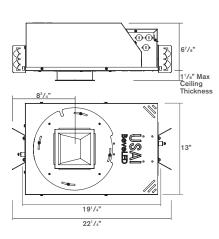
Bevel Trim Finish Flange Finish Glass Lens 4¹/₂" SQ 5¹/₂" SQ



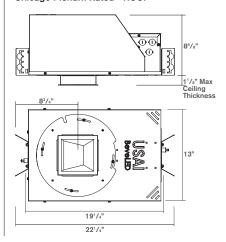
Clear acrylic overspray protector provided standard with every housing to keep out dust and contaminants during construction. Allows for use as work light.

HOUSING OPTIONS

New Construction - NC



Insulation-Contact Rated - NCIC Chicago Plenum Rated - NCCP



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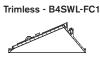
Dynamic Lighting Onowcase	Catalog Number B4SWF 32FC1 W1 D1 WH WH NC UNV D23X2 RJ CB27	^{туре} 58
Submitted By 16500, INC	Notes	

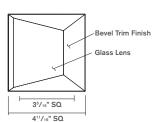
Trimless - B4SWL-FC1

BeveLED® 2.2 Infinite Color+® - B4SW-FC1 4.5″ Square Wall Wash

USAI[®] Lighting

TRIM DETAILS

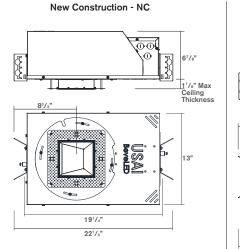






Clear acrylic overspray protector provided standard with every housing to keep out dust and contaminants during construction. Allows for use as work light.

HOUSING OPTIONS



Chicago Plenum Rated - NCCP

19¹/₄"

Insulation-Contact Rated - NCIC

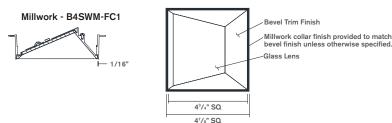
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	Dynamic Lighting Showcase	Catalog Number B4SWF 32FC1 W1 D1 WH WH NC UNV D23X2 RJ CB27	^{Type} 58
•	Submitted By 16500, INC	Notes	

BeveLED® 2.2 Infinite Color+® - B4SW-FC1 4.5″ Square Wall Wash

USAI[®] Lighting

TRIM DETAILS

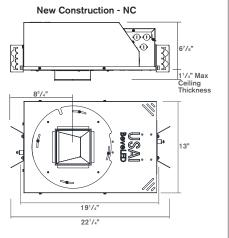


Millwork - B4SWM-FC1



Clear acrylic overspray protector provided standard with every housing to keep out dust and contaminants during construction. Allows for use as work light.

HOUSING OPTIONS



Chicago Plenum Rated - NCCP

Insulation-Contact Rated - NCIC

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^{Type} 58

Notes

BeveLED® 2.2 Infinite Color+® - B4SW-FC1 4.5″ Square Wall Wash



BEVELED 2.2 INFINITE COLOR+ SPECIFICATIONS

FIELD REPLACEABLE LED LIGHT ENGINE

is serviceable through the aperture without tools or with a Philips screwdriver. All USAI Lighting light engines feature industry-leading color consistency.

FIELD REPLACEABLE INTEGRAL DRIVER

Solid state electronic constant current DMX512 driver with a high power factor provided standard. Works with universal voltages 120V-277V. All integral dimming drivers are located within the fixture housing and are serviceable from below the ceiling through the aperture. Driver complies with IEEE C62.41 surge protection. Specify D23X1 for 8-bit communication controls; specify D23X2 for 16-bit communication controls. All driver options require remote device management (RDM) communication protocol for addressing.

INTEGRAL EMERGENCY BATTERY

An integral emergency battery pack is available as an option with the NC housing and integral driver/power supply only. IOTA emergency battery provides backup power for 90 minutes. NC EM fixtures are provided with an integral emergency battery with remote test switch which comes with a 24" lead length for location of the test switch. EM battery is located inside NC housing and can be serviced through the aperture from below the ceiling plane. In emergency mode Infinite Color+ uses the white channel only at ~25% power.



Remote Emergency Test Switch included with NC housing and integral driver only.

REMOTE LOCATION DRIVER

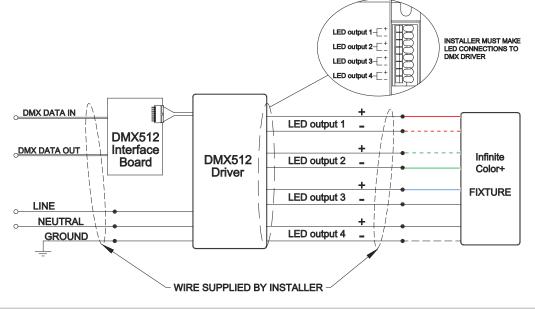
BeveLED 2.2 Infinite Color+ is available for use with remotely located driver. Driver is provided separately for remote location on site, enclosure to be provided by others. Remote dimming driver power supply option must be clearly specified in the "RP" table. below Remote power supplies require enclosures by others that meet local codes and must be located in an accessible service panel within 100ft of the light fixture; see remote driver table below for coordination of enclosure sizes and wire gauges required. All dimming drivers comply with IEEE C62.41 surge protection.

Remote Power Supply Requirements and Wiring Diagrams Note: Must be wired in homeruns per wiring diagram below.

1	Fixture	Maximum	Per	Power	Sup	nlı	v

		Wire Gauge	Minimum Enclosure
Remote Power Suppl	y Dimming Option	Required*	Size Required (by others)
RPC-01-32FC1	UNV-D23X1 EldoLED, 8 bit, DMX, 0.1%	18/16	9" W x 4" x 2" H
	UNV-D23X2 EldoLED, 16 bit DMX, 0.1%	16/10	9 W X 4 L X 2 H

* Wire gauge 18/16 = Maximum distance from light fixture to remote power supply is 100' using 16 gauge wire, 50' using 18 gauge wire.



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BeveLED® 2.2 Infinite Color+® - B4SW-FC1

Notes

CABLING: Data cables must be run in series between fixtures. Choose your preferred method of connection when specifying. To avoid signal transmission problems, the DMX link terminator dip switch should be used in the last fixture in a series on a given DMX bus. NOTE: Data communication cables and AC power

• RJ Cabling Option: If the RJ cabling option is specified, the remote power supply is provided with a DMX interface board that has RJ45 jacks for data connection with CAT5 cable terminated with RJ45 connectors. A link termination dip switch is provided at the connector board; no separate link termination device is required.

• WR Cabling Option: If the WR cabling option is specified, the remote power supply is provided with a DMX interface board with terminal blocks for wires to be manually spliced for data connection. A link termination dip switch is provided at the connector board; no separate link termination device is required. The

data cable used must meet the following requirements: • type: shielded, 2-conductor twisted pair

4.5" Square Wall Wash

- maximum capacitance between conductors: 30 pF/ft
- maximum capacitance between conductor and shield: 55 pF/ft
- maximum resistance: 0.02 ohms/ft

lines must not be run in the same conduit.

- normal impedance: 100-140 ohms
- conductive core: 24 AWG is recommended

If 3-wire data cables are preferred, we suggest a Belden 9841 or equivalent cable which meets the specifications for EIA RS-485 applications. Do not use standard microphone cables: they cannot transmit DMX512 data reliably over long distances.

HOUSING

All BeveLED 2.2 fixtures are field-flexible which allows for field changes from trimless or millwork to trimmed with a simple components change with parts from USAI. All-Ways Square (up to 20° rotation) after housing installation and prior to finish ceiling installation. Integral driver housings are fabricated of 20 ga. steel construction with thru wire J-box, 4 in 4 out at min. 90°C, #12 AWG thru branch circuit wiring. Remote driver housings are supplied with quick connects and wire connections for use with remotely located driver.

MOUNTING

B4SWF overlap flange fixtures are designed for use in sheetrock, acoustical ceiling tile, and many other ceiling materials. B4SWL trimless fixtures are provided with a spackle collar and are designed for use in sheetrock/mud-in ceiling applications. B4SWM millwork fixtures are provided with a millwork collar and are designed for use in wood/millwork and stone construction applications. Butterfly brackets and adjustable nailer bars extendible from 14" to 24" centers with integral nails are provided for attachment to building structure. C-channel bars are optionally available for acoustical ceiling applications.

FIXTURE WEIGHT

NC, NCIC, and NCCP housings weigh 16 lbs. NC housing with EM weighs 24.5 lbs.

WARRANTY

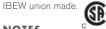
Based on IESNA LM80-2008, BeveLED has a 50,000 hour rated life at 70% lumen maintenance (L70). USAI Lighting Warranty covers replacement parts for 5 years from date of shipment. Ambient temperatures at fixture location should not exceed 40°C during normal operation.

CEILING CUT OUT

B4SWF Trimmed with Overlap Flange: 5-1/16" x 5-1/16" B4SWL Trimless Spackle-in: 5-1/2" x 5-1/2" B4SWM Millwork Knife-edge: 4-15/16" x 4-15/16"

LISTINGS

Dry/Damp/Wet location. AC and AB trim finishes are dry/damp only. UL2043 rated for use in air handling plenums. NRTL/CSA-US tested to UL standards.



NOTES

• Not for use in corrosive environment · Use of pressure washer voids warranty

PHOTOMETRICS

Consult factory or website for IES files. Tested in accordance with IESNA LM79.

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Туре **5**8 USAI[®] Lighting Infinite Color+[®]

1. Keep these instructions in a safe place for future reference.

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS

REMOTE POWER SUPPLY

WIRING GUIDE

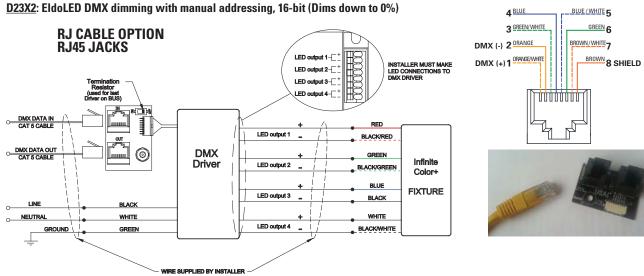
RPB-01-FC1

RPC-01-FC1

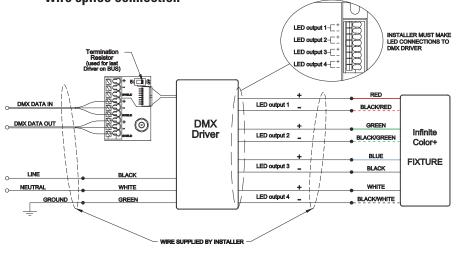
^{Type} 58

Notes

2. Only qualified electricians in accordance to local codes should install these fixtures. 3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing. 4. Make sure all connections are in accordance with the National Electrical Code and any local regulations. D23X1: EldoLED DMX dimming with manual addressing, 8-bit (Dims down to 0%) D23X2: EldoLED DMX dimming with manual addressing, 16-bit (Dims down to 0%)



WR CABLE OPTION wire splice connection



• WR Cabling Option: cables must be spliced connection. The data cable used must meet the following requirements:

- type: shielded, 2-conductor twisted pair
 maximum capacitance between conductors:
- 30 pF/ft • maximum capacitance between conductor
- and shield: 55 pF/ft
- maximum resistance: 0.02 ohms/ft
- normal impedance: 100-140 ohms
 conductive core: 24 AWG is recommended

If 3-wire data cables are preferred, we suggest a Belden 9841 or equivalent cable which meets the specifications for EIA RS-485 applications. Do not use standard microphone cables: they cannot transmit DMX512 data reliably over long distances.





USAI[•] Lighting Infinite Color+[•]

1. Keep these instructions in a safe place for future reference.

2. Only qualified electricians in accordance to local codes should install these fixtures.

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS

REMOTE POWER SUPPLY

WIRING GUIDE

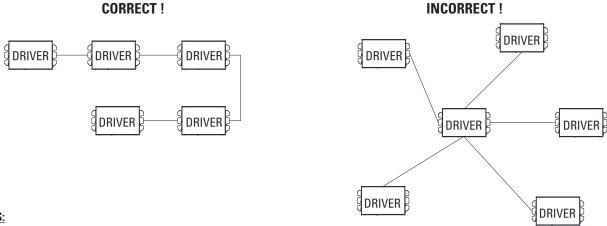
RPB-01-FC1

RPC-01-FC1

^{туре} 58

Notes

 De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
 Make sure all connections are in accordance with the National Electrical Code and any local regulations.
 DMX MUST BE DAISY CHAINED IN SINGLE LINE CORRECT !



NOTES:

1. Maximum distance from light fixture to remote power supply is 100' using 16 gauge wire, 50' using 18 gauge wire.

- 2. Minimum enclosure size required is 9"W x 4"L x 2"H. Enclosure supplied by others.
- 3. Remote Power Supplies can only be used with specific fixture types. Confirm power supply compatibility on light fixture label.
- 4. DMX signal cable must NOT be run in same conduit as high voltage AC power lines.
- 5. Remote Power Supplies must be daisy chained in one serial line using Data in and Data out
- 6. Maximum of 32 DMX devices on single DMX bus
- 7. Maximum of 1600' serial communication link distance
- 8. To avoid signal loss, DMX signal terminator should be used on last Remote Power Supply in line. This is provided through a dip-switch on the DMX512 interface board.





Notes

Lighting



BeveLED Mini® Infinite Color+® - B3RA-FC1 3" Round Adjustable

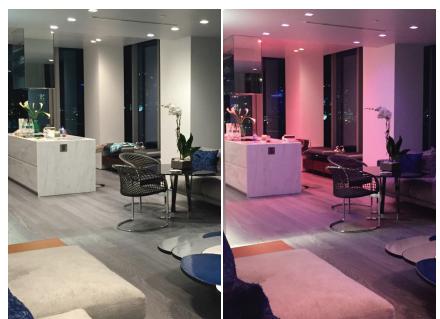
Field Convertible from Trimless or Millwork to Trimmed

Trimmed - B3RAF-FC1



Trimless - B3RAL-FC1





Millwork - B3RAM-FC1



usailighting.com/infinitecolormini

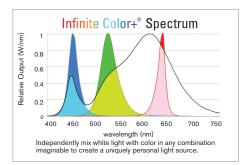
BeveLED Mini Infinite Color+ - the smallest member of our iconic BeveLED family to offer full color + tunable white light flexibility. Access to a wide variety of perfect architectural whites, saturated colors, neutrals, and pastels are possible with DMX controls. Infinite opportunities abound for residential, hospitality and retail lighting applications, and any project requiring full color and white light flexibility.

FEATURES

- Full color and white light flexibility
- Dry/damp/wet location rated for showers
- · Field convertible from trimless or millwork to trimmed

ADJUSTABLE PERFORMANCE DATA

DELIVERED*	Infinite Color +			
PERFORMANCE:	White Light Channel Only	Multi Channel Output		
Wattage	17W	18W		
Source Lumens:	1100	1200		
Lumens Per Watt:	32	34		
Delivered Lumens:	550	625		



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	Dynamic Lighting Showcase	Catalog Number B3RAF 18FC1 35 S WH WH NC1 RM CB27	^{Type} 59
-		Notes	

HOW TO SPECIFY

BeveLED Mini® Infinite Color+® - B3RA-FC1 3″ Round Adjustable

1. Specify fixture part number and options.

B3RA	18FC1	35	S				RM		Γ	USAI
BeveLED Trim Style	Wattage Options	Beam Options	Lens Options	Bevel Trim Finish Options	*Flange/ Millwork Collar Finish	Housing Options	Remote Dimming Driver	Accessories (Optional)		Power Supply Must Be Specified
F Trimmed	18FC1 18W LED	35 35° beam	S Solite	WH White	WH White	FTA Flat	RM Remote	CB27 27" C-Channel Bars	-	Supply
with Flange (use with all materials)				SC Conduit Silver	SC Conduit Silver	Adjustable Housing	Dimming Driver, specify remote power	CB52 52" C-Channel Bars		Must Be
L Trimless				GR Grey	GR Grey	New Construction	supply in table below		S	Specified
Spackle-in (use with sheetrock				BL Black	BL Black	All-in-One			L	·
and plaster only)				BZ Bronze	BZ Bronze	Chicago Plenum				
M Millwork				PR Primer Finish	PR Primer Finish	NCIC Insulation Contact				
Knife-Edge (use with wood and				AC Clear Matte Anodized	AC Clear Matte Anodized	Rated / Airtight				
stone)					WH White					
					GR Grey					
					BL Black					
					BZ Bronze	-				
TRIM FII	NISH OP	TIONS		AB Piano Gloss Black	AB Piano Gloss Black					
-					WH White					
White	Grey	Black			GR Grey BL					
					BL Black BZ Bronze					
Bronze Custom colo	Custom Ra (example)	AL Custo (exam		RAL Custom Color Specify RAL #	RAL Custom Color Specify RAL #					
		are			*Leave blank for Trimless					

2. Specify Remote Power Supply -

RPB-01	18FC1	UNV				
Remote Power Supply	Fixture Wattage	Voltage	Remo	te Dimming Driver Type*	Cabling Option Select one	
RPB-01 BeveLED Mini Infinite Color+ Remote Power Supply	18FC1 18W LED	UNV 120V - 277V		EldoLED DMX 0.1% dimming, manual addressing using RDM protocol, 8 bit EldoLED DMX 0.1% dimming, manual addressing using RDM protocol, 16 bit es remote enclosure by others, n size 91 x 4*W x 2*H	RJ RJ45 Jacks WR Manual Wire Splice Connection	NOTE: Remote Power Supplies Require Enclosures by Others. See Page 6 for Details.

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Page 2

Lighting

Dynamic Lighting Showcase	Catalog Number B3RAF 18FC1 35 S WH WH NC1 RM CB27
	Notes

BeveLED Mini[®] Infinite Color+[®] - B3RA-FC1 3" Round Adjustable

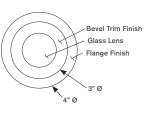
USAI[®] Lighting

^{Туре} 59

TRIM DETAILS

Trimmed - B3RAF-FC1



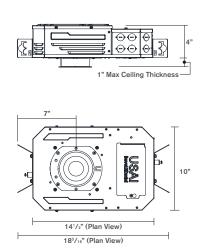




Clear acrylic overspray protector provided standard with every housing to keep out dust and contaminants during construction. Allows for use as work light.

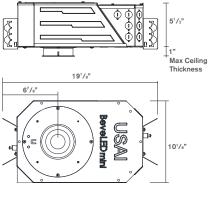
HOUSING OPTIONS

Flat Adjustable Housing - FTA



New Construction Housing - NC1 Insulation-Contact Rated - NCIC Chicago Plenum Rated - NCCP

Trimmed - B3RAF-FC1



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Dynamic Lighting Showcase	Catalog Number B3RAF 18FC1 35 S WH WH NC1 RM CB27	^{Type} 59
Submitted By 16500, INC	Notes	

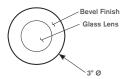
BeveLED Mini[®] Infinite Color+[®] - B3RA-FC1 3″ Round Adjustable

Trimless - B3RAL-FC1

TRIM DETAILS

Trimless - B3RAL-FC1





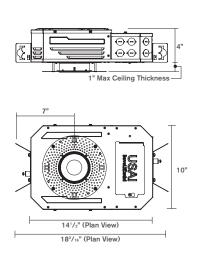


Lighting

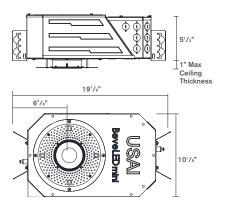
Clear acrylic overspray protector provided standard with every housing to keep out dust and contaminants during construction. Allows for use as work light.

HOUSING OPTIONS

Flat Adjustable Housing - FTA



New Construction Housing - NC1 Insulation-Contact Rated - NCIC Chicago Plenum Rated - NCCP



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_	Dynamic Lighting Showcase	Catalog Number B3RAF 18FC1 35 S WH WH NC1 RM CB27
sixteen5hundred		
	Submitted By	Notes
	16500, INC	



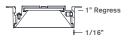
Lighting

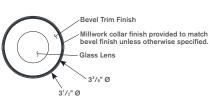
BeveLED Mini® Infinite Color+® - B3RA-FC1 3" Round Adjustable

Millwork - B3RAM-FC1

TRIM DETAILS

Millwork - B3RAM-FC1



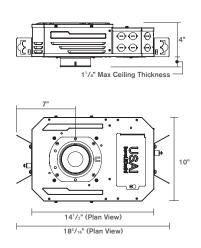




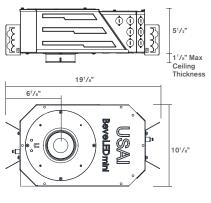
Clear acrylic overspray protector provided standard with every housing to keep out dust and contaminants during construction. Allows for use as work light.

HOUSING OPTIONS

Flat Adjustable Housing - FTA



New Construction Housing - NC1 Insulation-Contact Rated - NCIC Chicago Plenum Rated - NCCP



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Notes

BeveLED Mini[®] Infinite Color+[®] - B3RA-FC1 3" Round Adjustable



BEVELED MINI INFINITE COLOR+ SPECIFICATIONS

FIELD REPLACEABLE LED LIGHT ENGINE

is serviceable through the aperture with a Philips screwdriver. All USAI Lighting light engines feature industry-leading color consistency.

REMOTE LOCATION DRIVER

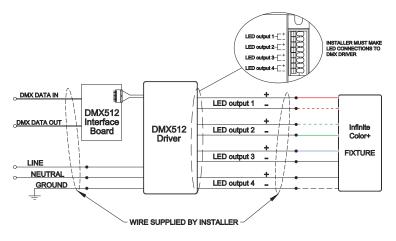
BeveLED Mini Infinite Color+ is supplied with quick connects for use with remotely located driver. Driver is provided separately for remote location on site, enclosure to be provided by others. Remote dimming driver power supply option must be clearly specified in the "RP" table. Remote power supplies require enclosures by others that meet local codes and must be located in an accessible service panel within 100ft of the light fixture; see remote driver table below for coordination of enclosure sizes and wire gauges required. All dimming drivers comply with IEEE C62.41 surge protection.

Remote Power Supply Requirements and Wiring Diagrams Note: Must be wired in homeruns per wiring diagram below.

1 Fixture Maximum Per Power Supply.

		Wire Gauge	Minimum Enclosure
Remote Power Suppl	y Dimming Option	Required*	Size Required (by others)
	UNV-D23X1 EldoLED, 8 bit, DMX, 0.1% UNV-D23X2 EldoLED, 16 bit DMX, 0.1%		9" W x 4" L x 2" H

* Wire gauge 18/16 = Maximum distance from light fixture to remote power supply is 100' using 16 gauge wire, 50' using 18 gauge wire.



CABLING: Data cables must be run in series between fixtures. Choose your preferred method of connection when specifying. To avoid signal transmission problems, a DMX link terminator should be used in the last fixture in a series on a given DMX bus. NOTE: Data communication cables and AC power lines must not be run in the same conduit.

• **RJ Cabling Option:** If the RJ cabling option is specified, the remote power supply is provided with a DMX interface board that has RJ45 jacks for data connection with CAT5 cable terminated with RJ45 connectors. A link termination dip switch is provided at the connector board; no separate link termination device is required.

• WR Cabling Option: If the WR cabling option is specified, the remote power supply is provided with a DMX interface board with terminal blocks for wires to be manually spliced for data connection. A link termination dip switch is provided at the connector board; no separate link termination device is required. The data cable used must meet the following requirements:

- type: shielded, 2-conductor twisted pair
- maximum capacitance between conductors: 30 pF/ft
- maximum capacitance between conductor and shield: 55 pF/ft
- maximum resistance: 0.02 ohms/ft
- normal impedance: 100-140 ohms
- conductive core: 24 AWG is recommended

NOTE: If 3-wire data cables are preferred, we suggest a Belden 9841 or equivalent cable which meets the specifications for EIA RS-485 applications. Do not use standard microphone cables: they cannot transmit DMX512 data reliably over long distances.



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Notes

BEVELED MINI INFINITE COLOR+ SPECIFICATIONS

3" Round Adjustable

HOUSING

All BeveLED Mini fixtures are field-flexible which allows for field changes from trimless or millwork to trimmed with a simple components change with parts from USAI. Housings are fabricated of 20 ga. steel construction and are supplied with quick connects and wire connections for use with remotely located driver. Driver is provided separately for remote location on site, enclosure to be provided by others.

MOUNTING

B3RAF overlap flange fixtures are designed for use in sheetrock, acoustical ceiling tile, and many other ceiling materials. B3RAL trimless fixtures are provided with a spackle collar and are designed for use in sheetrock/mud-in ceiling applications. B3RAM millwork fixtures are provided with a millwork collar and are designed for use in wood/millwork and stone construction applications. Butterfly brackets and adjustable nailer bars extendible from 14" to 24" centers with integral nails are provided for attachment to building structure. C-channel bars are optionally available for acoustical ceiling applications.

FIXTURE WEIGHT

FTA housing weighs 10 lbs. NC1, NCIC, and NCCP housings weigh 11 lbs.

WARRANTY

Based on IESNA LM80-2008, BeveLED has a 50,000 hour rated life at 70% lumen maintenance (L70). USAI Lighting Warranty covers replacement parts for 5 years from date of shipment. Ambient temperatures at fixture location should not exceed 40°C during normal operation.

CEILING CUT OUT

B3RAF Trimmed with Overlap Flange: 3-5/8"Ø B3RAL Trimless Spackle-in: 4-3/16"Ø B3RAM Millwork Knife-edge: 3-9/16"Ø

LISTINGS

Dry/Damp/Wet location. AC and AB trim finishes are dry/damp only. . UL2043 rated for use in air handling plenums. NRTL/CSA-US tested to UL standards. IBEW union made.

NOTES

- Not for use in corrosive environment
- Use of pressure washer voids warranty

PHOTOMETRICS

Consult factory or website for IES files. Tested in accordance with IESNA LM79.

Page 7



Туре

Lighting

59

REMOTE POWER SUPPLY

WIRING GUIDE

RPB-01-FC1

RPC-01-FC1

Notes

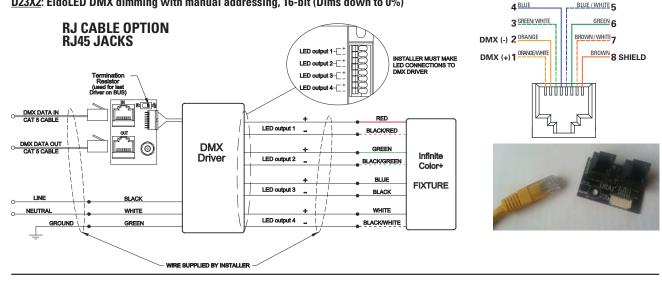
USAI[®] Lighting Infinite Color+[®]

IMPORTANT SAFETY INSTRUCTIONS

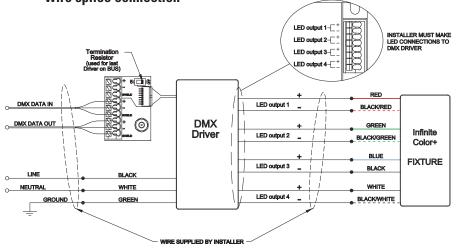
SAVE THESE INSTRUCTIONS

- 1. Keep these instructions in a safe place for future reference.
- 2. Only qualified electricians in accordance to local codes should install these fixtures.
- 3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
- 4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.

<u>D23X1</u>: EldoLED DMX dimming with manual addressing, 8-bit (Dims down to 0%) <u>D23X2</u>: EldoLED DMX dimming with manual addressing, 16-bit (Dims down to 0%)



WR CABLE OPTION wire splice connection



• WR Cabling Option: cables must be spliced connection. The data cable used must meet the following requirements:

- type: shielded, 2-conductor twisted pair
 maximum capacitance between conductors:
- 30 pF/ft • maximum capacitance between conductor
- and shield: 55 pF/ft
- maximum resistance: 0.02 ohms/ft
 normal impedance: 100-140 ohms
- conductive core: 24 AWG is recommended

If 3-wire data cables are preferred, we suggest a Belden 9841 or equivalent cable which meets the specifications for EIA RS-485 applications. Do not use standard microphone cables: they cannot transmit DMX512 data reliably over long distances.





REMOTE POWER SUPPLY

WIRING GUIDE

RPB-01-FC1

RPC-01-FC1

Notes

USAI[®] Lighting Infinite Color+[®]

SAVE THESE INSTRUCTIONS

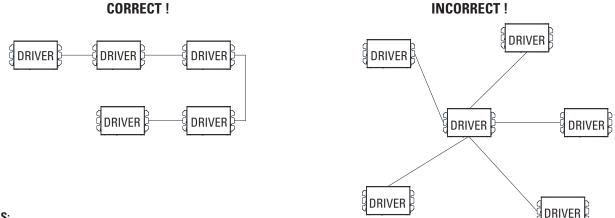
1. Keep these instructions in a safe place for future reference.

2. Only qualified electricians in accordance to local codes should install these fixtures.

3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.

4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.

DMX MUST BE DAISY CHAINED IN SINGLE LINE



NOTES:

1. Maximum distance from light fixture to remote power supply is 100' using 16 gauge wire, 50' using 18 gauge wire.

- 2. Minimum enclosure size required is 9"W x 4"L x 2"H. Enclosure supplied by others.
- 3. Remote Power Supplies can only be used with specific fixture types. Confirm power supply compatibility on light fixture label.
- 4. DMX signal cable must NOT be run in same conduit as high voltage AC power lines.
- 5. Remote Power Supplies must be daisy chained in one serial line using Data in and Data out

6. Maximum of 32 DMX devices on single DMX bus

- 7. Maximum of 1600' serial communication link distance
- 8. To avoid signal loss, DMX signal terminator should be used on last Remote Power Supply in line. This is provided through a dip-switch on the DMX512 interface board.



_	Dynamic Lighting Showcase	Catalog Number CBRD10 32FC1 70 SF WH PJ1 UNV D23X2 DW
sixteen5hundred		Notes

BeveLED[®] 2.2 Infinite Color+[®] Cylinder - CBRD10-FC1 Round Downlight

PENDANT WITH FLAT CANOPY



PENDANT WITH CONDUIT CUTOUT





SURFACE MOUNT

Lighting

^{Туре} 60

usailighting.com/cylinders

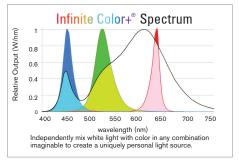
Power and beauty are both in play with our sleek architectural cylinders. The BeveLED Cylinder provides industry-leading performance for any ceiling type, with more lumen packages and dimming options than ever before. Now available with Infinite Color+, providing access to a wide variety of perfect architectural whites, saturated colors, neutrals, and pastels are possible with DMX controls. Infinite opportunities abound for residential, hospitality and retail lighting applications, and any project requiring full color and white light flexibility.

FEATURES

- · Full color and white light flexibility in a variety of standard or custom colors
- · Surface mount design conceals mounting hardware and provides seamless finish to ceiling plane
- Rigid pendant stem with 30° hang straight feature and aircraft cable mount options
- · Convenient conduit cutout canopy mounting option for attachment to surface-mounted junction boxes and conduit

DOWNLIGHT PERFORMANCE DATA

DELIVERED	Infinite Color +				
PERFORMANCE:	White Light Channel Only	Multi Channel Output			
Wattage	23W	32W			
Source Lumens:	1675	2100			
Lumens Per Watt:	62	55			
Delivered Lumens:	1400	1750			



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_	Dynamic Lighting Showcase	Catalog Number CBRD10 32FC1 70 SF WH PJ1 UNV D23X2 DW
sixteen5hundred		
		Notes
	16500, INC	

HOW TO SPECIFY

BeveLED® 2.2 Infinite Color+® Cylinder - CBRD10-FC1 Round Downlight with Integral Driver

USAI® Lighting

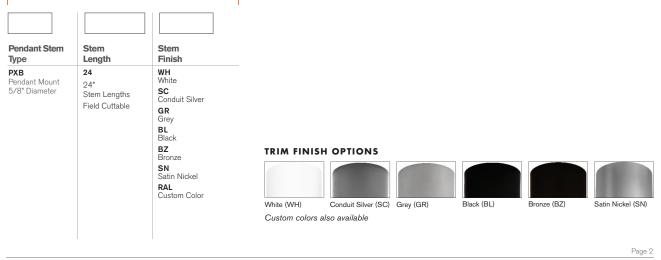
^{Туре} 60

Specify fixture part number. All boxes must be filled in to correctly order.

INTEGRAL DRIVER ORDERING INFORMATION

CBRD10	32FC1		SF			UNV		DW
BeveLED Cylinder	Wattage Options	Beam Options	Lens Options	Finish Options	Mounting Options	Voltage Options	Dimming Driver Options	Cabling Options
CBRD10 BeveLED Cylinder	32FC1 32W LED	70 70° beam 90	SF Solite Frosted	WH White SC	SM Surface Mount	UNV 120V -	D23X1 EldoLED DMX 0.1% dimming, manual	DW Wire leads provided for integral driver
Round Downlight 10" Length		90° beam		Conduit Silver GR Grey BL Black BZ Bronze SN Satin Nickel	Rigid Stem Mount + Recessed JBox Canopy Style PR1 24" field cuttable	277V	addressing using RDM protocol, 8 bit D23X2 EldoLED DMX 0.1%	
			BZ Bronze SN		BZ Bronze SN	Rigid Stem Mount + Conduit Cutout Canopy Style PJ1 24" field cuttable	-	dimming, manual addressing using RDM protocol, 16 bit
				RAL Custom Color				

PENDANT STEM ACCESSORY (required for PJ and PR mount only)



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_	Project 21-12877-5 Date 7/26/2021 Dynamic Lighting Showcase	Catalog Number CBRD10 32FC1 70 SF WH PJ1 UNV I
sixteen5hundred	Submitted By	Notes
	16500, INC	INDIES



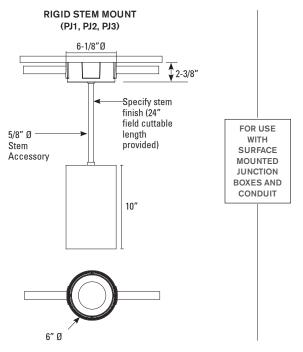
BeveLED® 2.2 Infinite Color+® Cylinder - CBRD10-FC1 Round Downlight



D23X2 DW

RECESSED J-BOX CANOPY SURFACE MOUNT **RIGID STEM MOUNT** (PR1, PR2, PR3) (SM) 6" Ø 5" Ø <u>]</u> 3/8″ Specify stem FOR USE 10-3/4" finish (24" WITH field cuttable RECESSED length JUNCTION 5/8" Ø provided) BOXES Stem Accessory 10" 6" Ø 6" Ø

CONDUIT CUTOUT CANOPY FOR SURFACE MOUNTED J-BOX



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New Windsor, NY 12553

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DIMENSIONS

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Notes

^{Type} 60

BeveLED[®] 2.2 Infinite Color+[®] Cylinder - CBRD10-FC1 Round Downlight



BEVELED 2.2 CYLINDER INFINITE COLOR+ SPECIFICATIONS

FIELD REPLACEABLE LED LIGHT ENGINE

Light engine is serviceable without tools. All USAI Lighting light engines feature industry-leading color consistency.

FIELD REPLACEABLE INTEGRAL DRIVER

Solid state electronic constant current DMX512 driver with a high power factor provided standard. Works with universal voltages 120V-277V. All integral dimming drivers are located within the cylinder body and are serviceable from below the ceiling. Driver complies with IEEE C62.41 surge protection. Specify D23X1 for 8-bit communication controls. All driver options require remote device management (RDM) communication protocol for addressing.

CABLING: Data cables must be run in series between fixtures. Integral driver fixtures require manual wire splices for data cables. To avoid signal transmission problems, a DMX link terminator device should be used in the last fixture in a series on a given DMX bus. NOTE: Data communication cables and AC power lines must not be run in the same conduit.

• Integral Driver and Remote Power Supply DW Cabling Option: The fixture is provided with DMX lead wires to be manually spliced for data connection. NOTE: DMX link termination device (by others) should be used on the last fixture in line on a circuit to avoid signal loss. The data cable used must meet the following requirements:

- type: shielded, 2-conductor twisted pair
- maximum capacitance between conductors: 30 pF/ft
- maximum capacitance between conductor and shield: 55 pF/ft
- maximum resistance: 0.02 ohms/ft
- normal impedance: 100-140 ohms
- conductive core: 24 AWG is recommended

If 3-wire data cables are preferred, we suggest a Belden 9841 or equivalent cable which meets the specifications for EIA RS-485 applications. Do not use standard microphone cables: they cannot transmit DMX512 data reliably over long distances. NOTE: DMX link termination device (by others) should be used on the last fixture in line on a circuit to avoid signal loss.

BODY

6"Ø extruded aluminum body available in a variety of powder coated paint finishes or an anodized satin nickel finish. Custom colors also available (provide RAL #).

FRONT CAP

Standard cylinder is provided with snap in diecast 1" regressed bevel assembly in finish specified. Standard front cap retains a solite frosted glass lens.

MOUNTING OPTIONS

In all cases hardware included for mounting to 4" octagonal junction box.

SURFACE MOUNT

If the "SM" mounting option is specified, cylinder is provided with a 6" Ø x 1/2" deep round canopy that allows for completely tool-less mounting to a recessed junction box with no visible hardware.

FIELD CUTTABLE RIGID PENDANT STEM MOUNT

5/8" Ø (3/8" IPS) steel stem is provided in a 24" length with 30° hang straight. Specify stem finish in accessories table when ordering; stem is field cuttable to a minimum length of 6".

RECESSED JBOX CANOPY:

If recessed J-box canopy style (PR1) canopy is specified, 5" Ø x 3/8" deep canopy is provided for mounting to recessed mounted junction box. Recessed jbox canopy is provided in matching finish per fixture body finish specification.

CONDUIT CUTOUT CANOPY:

If surface mounted j-box canopy style (PJ1) is specified, 5-13/16" Ø round x 2-3/8" deep canopy is provided for mounting to standard 4" x 1-1/2" octagonal surface mounted junction box. Conduit cutout canopy has 4 keyslots, one in each side, and ships with three conduit cutout keys and three solid cover keys which are field interchangeable and can be configured to accommodate any ceiling layout using ½" or 3/4" conduit. Conduit cutout canopy is provided in matching finish per fixture body finish specification.

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_		Catalog Number CBRD10 32FC1 70 SF WH PJ1 UNV D23X2 I
sixteen5hundred		
	Submitted By	Notes
	16500, INC	

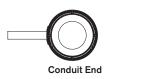


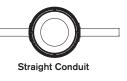
BeveLED® 2.2 Infinite Color+® Cylinder - CBRD10-FC1 Round Downlight

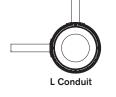


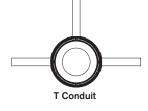
BEVELED 2.2 CYLINDER INFINITE COLOR+ SPECIFICATIONS (continued)

CONDUIT CUTOUT MOUNTING EXAMPLE



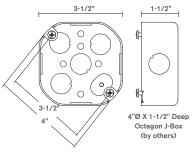






DW

4"OCTAGONAL JUNCTION BOX DETAIL



KEY COVER DETAIL

SOLID COVER KEY



3 provided

with each

Conduit Cutout Canopy



CONDUIT CUTOUT KEY

3 provided with each Conduit Cutout Canopy

FIXTURE WEIGHT

Cylinder weighs 8 lbs (not including rigid pendant stem accessory).

WARRANTY

Based on IESNA LM80-2008, BeveLED Cylinder has a 50,000 hour rated life at 70% lumen maintenance (L70). USAI Lighting Warranty covers replacement parts for 5 years from date of shipment.

LISTINGS

Dry/Damp/Wet for SM and PR1 mounting only. RJ1 is Dry/Damp only. NRTL/CSA-US tested to UL standards. IBEW union made. 🚯 only

NÓTES

• Ambient temperatures at fixture location should not exceed 40°C during normal operation.

- For interior use only
- · Consult factory for video capture applications.

PHOTOMETRICS

Consult factory or website for IES files. Tested in accordance with IESNA LM79-2008.

DIMMING DRIVER COMPATIBILITY

SELECTION GUIDE

D23X1, D23X2

Notes

BeveLED[•]Infinite Color+^{**}

DIMMING DRIVER WIRING SCHEMES:

IMPORTANT SAFETY INSTRUCTIONS SAVE THESE INSTRUCTIONS

1. Keep these instructions in a safe place for future reference.

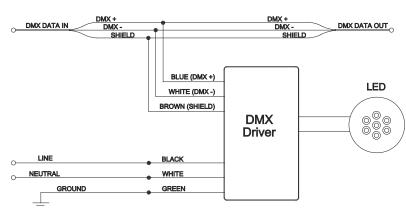
2. Only qualified electricians in accordance to local codes should install these fixtures.

3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.

4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.

<u>D23X1</u>: EldoLED DMX dimming with manual addressing, 8-bit (Dims down to 0%) <u>D23X2</u>: EldoLED DMX dimming with manual addressing, 16-bit (Dims down to 0%)

DW CABLING OPTION - DMX SIGNAL WIRE LEADS



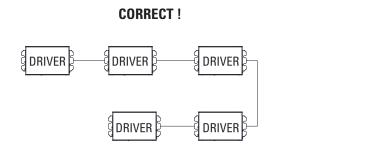
•DW Cabling Option: no interface board is supplied; cables must be specified inside the junction box for connection. The data cable used must meet the following requirements:

- type: shielded 2-conductor twisted pair
- maximum capacitance between conductors: 30 µF/ft
- maximum capacitance between conductor and shield: 55 $\mu\text{F/ft}$
- maximum resistance: 0.02 ohms/ft
- normal impedance: 100-140 ohms
- conductive core: 24 AWG is recommended

If 3-wire data cables are preferred, we suggest a Belden 9841 or equivalent cable which meets the specifications for EIA RS-485 applications. Do not use standard microphone cables as they cannot transmit DMX512 data reliably over long distances. NOTE: DMX link termination device (by others) should be used on the last fixture in line on a circuit to avoid signal loss.

INCORRECT !

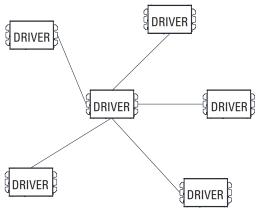
DMX MUST BE DAISY CHAINED IN SINGLE LINE



NOTES FOR DRIVERS:

- 1. DMX signal cable must NOT be run in same conduit as high voltage AC power lines.
- 2. Fixtures must be daisy chained in one serial line
- 3. Maximum of 32 DMX devices on a single DMX bus
- 4. Maximum of 1600 ft serial communication link distance
- 5. To avoid signal loss, DMX signal terminator should be used on last fixture in line. For DW cabling options, this device (120 ohm resistor) is provided by others.
- 6. For best results use communication data splices.





	Project 21-12877-5 Date 7/26/2021 Dynamic Lighting Showcase
sixteen5hundred	Submitted By
	16500, INC

Notes

BeveLED[®] 2.2 Incline Infinite Color+ - B4RG-FC1 4.5" Round Downlight for Sloped Ceilings

USAI[®] Lighting

Field Convertible from Trimless or Millwork to Trimmed

Trimmed - B4RGF



Trimless - B4RGL



Millwork - B4RGM





usailighting.com/slopedceiling-infinitecolor

Introducing Beautiful, Precise Recessed Lighting for Sloped Ceiling Installations Up to 45 Degrees. Now available in full color plus white light flexibility

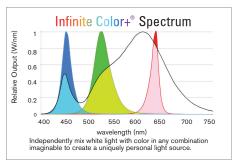
FEATURES

- Solutions for angles from 15° (3/12 pitch) to 45° (12/12 pitch)
- Perfect round and square roomside appearance
- · Installations are always aligned with integral leveler
- · Works with sheetrock, stone, plaster, and millwork ceilings
- · Easily change from trimless or millwork to trimmed in the field

DOWNLIGHT PERFORMANCE DATA

DELIVERED*	Infinite Color +				
PERFORMANCE:	White Light Channel Only	Multi Channel Output			
Wattage	20W	32W			
Source Lumens:	1675	2100			
Lumens Per Watt:	50	38			
Delivered Lumens:	950	1200			

*Based on 55° optic. Performance varies for each specific beamspread and color point; see ies files for exact values at usailighting.com



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Dynamic Eignning Onowcase		^{Type}
Submitted By 16500, INC	Notes	•

HOW TO SPECIFY

BeveLED[®] 2.2 Incline Infinite Color+ - B4RG-FC1

4.5" Round Downlight for Sloped Ceilings Specify fixture part number. (All boxes must be filled in to correctly order)

B4RG_		32FC1		SF				UNV			
BeveLED Trim Style	Ceiling Slope	Wattage Options	Beam Options	Lens Options	Bevel Trim Finish Options	*Flange/ Millwork Collar Finish	Housing Options	Voltage Options Select one	Dimming Driver Options	Cabling Options Select one	Accessories (Optional)*
F Trimmed	30 Angled trim	ingled trim 32W LED ccomodates elling slopes rom 15° 3/12 pitch) aximum 5 ngled trim ccomodates eiling slopes rom 30°		Frosted	WH White	WH White	NC New Construction NCCP Chicago Plenum	UNV 120V-277V	D23X1 EldoLED DMX 0.1% dimming, manual addressing using RDM protocol, 8 bit D23X2 EldoLED DMX 0.1% dimming, manual addressing using RDM protocol, 16 bit	RJ RJ45 Jacks WR Manual Wire Splice Connection (provided standard)	EM Emergency Battery (available with NC housing only) EMW Emergency Battery Wet Location (available with NC housing only)
with Flange	accomodates ceiling slopes from 15°				SC Conduit Silver	SC Conduit Silver					
Trimless Spackle-in	illwork (3/12 pitch) to 30° (7/12 pitch) in maximum				GR Grey	GR Grey					
M Millwork Knife-edge					BL Black	BL Black					
Angled trim accomodates	Angled trim				BZ Bronze	BZ Bronze					
	ceiling slopes from 30°				PR Primer Finish	PR Primer Finish					
	pitch)			RAL Custom Color Specify RAL#	RAL Custom Color Specify RAL#						
						* Leave blank for trimless					

TRIM FINISH OPTIONS



Custom colors and primer finish also available

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Page 2

Lighting

sixteen <mark>5</mark> hundrec	Dynamic Lighting Showcase	Catalog Number B4RGF 30 32FC1 55 SF WH WH NC UNV D23X2 RJ	
		Notes	

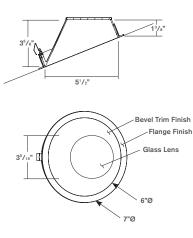
Trimmed - B4RGF

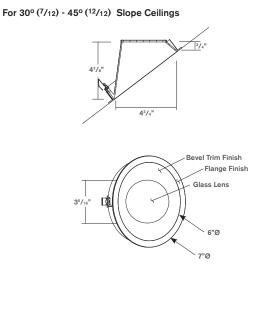
BeveLED[®] 2.2 Incline Infinite Color+ - B4RG-FC1 4.5" Round Downlight for Sloped Ceilings

USAI[®] Lighting

TRIM DETAILS

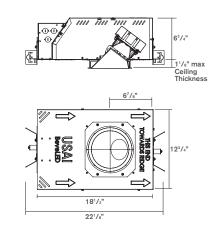
For 15° (3/12) - 30° (7/12) Slope Ceilings





For 30° (7/12) - 45° (12/12) Slope Ceilings

New Construction - NC Chicago Plenum - NCCP



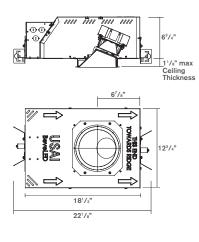
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HOUSING OPTIONS

For 15° (3/12) - 30° (7/12) Slope Ceilings

New Construction - NC Chicago Plenum - NCCP



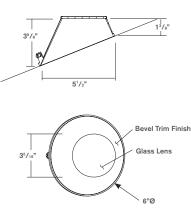
sixteen <mark>5</mark> hundrec	Dynamic Lighting Showcase		^{Type} 61
	Submitted By 16500, INC	Notes	

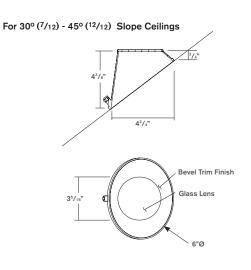
BeveLED[®] 2.2 Incline Infinite Color+ - B4RG-FC1 4.5" Round Downlight for Sloped Ceilings

Trimless - B4RGL

TRIM DETAILS

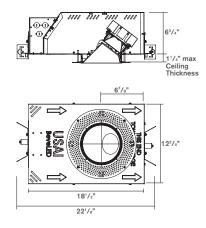
For 15° (3/12) - 30° (7/12) Slope Ceilings





For 30° (7/12) - 45° (12/12) Slope Ceilings

New Construction - NC Chicago Plenum - NCCP

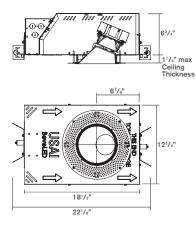


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HOUSING OPTIONS

For 15° (3/12) - 30° (7/12) Slope Ceilings

New Construction - NC Chicago Plenum - NCCP



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Lighting

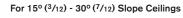
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	Submitted By 16500, INC	Notes	•

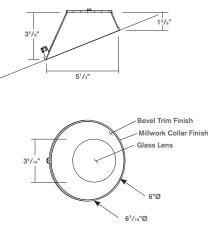
Millwork - B4RGM

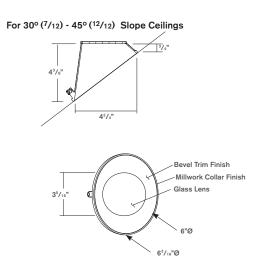
BeveLED[®] 2.2 Incline Infinite Color+ - B4RG-FC1 4.5" Round Downlight for Sloped Ceilings

USAI® Lighting

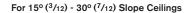
TRIM DETAILS



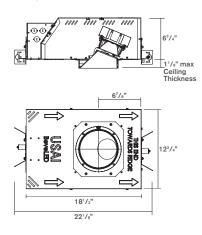




HOUSING OPTIONS

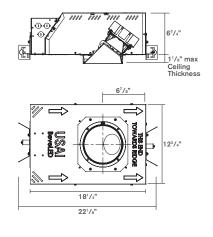


New Construction - NC Chicago Plenum - NCCP



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New Construction - NC Chicago Plenum - NCCP



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BeveLED® 2.2 Incline Infinite Color+ - B4RG-FC1

BEVELED 2.2 INCLINE INFINITE COLOR+ SPECIFICATIONS

4.5" Round Downlight for Sloped Ceilings

FIELD REPLACEABLE LED LIGHT ENGINE

is serviceable through the aperture without tools or with a Philips screwdriver. All USAI Lighting light engines feature industry-leading color consistency.

FIELD REPLACEABLE INTEGRAL DRIVER

Solid state electronic constant current DMX512 driver with a high power factor provided standard. Works with universal voltages 120V-277V. All integral dimming drivers are located within the fixture housing and are serviceable from below the ceiling through the aperture. Driver complies with IEEE C62.41 surge protection. Specify D23X1 for 8-bit communication controls; specify D23X2 for 16-bit communication controls. All driver options require remote device management (RDM) communication protocol for addressing.

INTEGRAL EMERGENCY BATTERY

IOTA emergency battery provides backup power for 90 minutes. NC EM fixtures are provided with an integral emergency battery which can be serviced through the aperture from below the ceiling plane, and a remote test switch, which comes with a 24" lead length for location of the test switch. Remote EM test switch is dry/damp only; select EMW emergency option for a wet location-rated EM test switch. In emergency mode Infinite Color+ uses the white channel only at ~25% power. Fixtures that have no USAI EM option may be connected to an inverter (by others) for emergency lighting.



CABLING: Data cables must be run in series between fixtures. Choose your preferred method of connection when specifying. To avoid signal transmission problems, the DMX link terminator dip switch should be used in the last fixture in a series on a given DMX bus. NOTE: Data communication cables and AC power lines must not be run in the same conduit.

• RJ Cabling Option: If the RJ cabling option is specified, the remote power supply is provided with a DMX interface board that has RJ45 jacks for data connection with CAT5 cable terminated with RJ45 connectors. A link termination dip switch is provided at the connector board; no separate link termination device is required.



• WR Cabling Option: If the WR cabling option is specified, the remote power supply is provided with a DMX interface board with terminal blocks for wires to be manually spliced for data connection. A link termination dip switch is provided at the connector board; no separate link termination device is required. The data cable used must meet the following requirements:

- · type: shielded, 2-conductor twisted pair
- maximum capacitance between conductors: 30 pF/ft
- maximum capacitance between conductor and shield: 55 pF/ft
- maximum resistance: 0.02 ohms/ft
- normal impedance: 100-140 ohms
- conductive core: 24 AWG is recommended

If 3-wire data cables are preferred, we suggest a Belden 9841 or equivalent cable which meets the specifications for EIA RS-485 applications. Do not use standard microphone cables: they cannot transmit DMX512 data reliably over long distances.

ADJUSTMENT

Sloped ceiling housings are fitted with an integral bubble leveling device to ensure perfectly level installations and optical alignment. Optical assembly can be tilted and locked in position for ceiling slopes from 3/12 pitch to 12/12 pitch, which are visually indicated on tilt mechanism. Butterfly brackets are imprinted with ceiling thickness indexing allow installers to easily preset housing prior to installation: choose from ceiling thicknesses of ½", 5/8", 34", 7/8", 1", or 1-1/8".

HOUSING

All BeveLED 2.2 fixtures are field-flexible which allows for field changes from trimless or millwork to trimmed with a simple components change with parts from USAI. Housings are fabricated of 20 ga. steel construction with thru wire J-box, 4 in 4 out at min. 90°C, #12 AWG thru branch circuit wiring.

MOUNTING

B4RGF overlap flange fixtures are designed for use in sheetrock, acoustical ceiling tile, and many other ceiling materials. B4RGL trimless fixtures are provided with a spackle collar and are designed for use in sheetrock/mud-in ceiling applications. B4RGM millwork fixtures are provided with a millwork collar and are designed for use in wood/millwork and stone construction applications. Butterfly brackets and adjustable channel bars extendible from 16" to 24" centers with integral nails are provided for attachment to building structure.

FIXTURE WEIGHT

NC and NCCP housings weigh 16 lbs. NC housing with EM weighs 24.5 lbs.

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Туре

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BeveLED[®] 2.2 Incline Infinite Color+ - B4RG-FC1 4.5" Round Downlight for Sloped Ceilings

USAI[®] Lighting

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BEVELED 2.2 INCLINE INFINITE COLOR+ SPECIFICATIONS

WARRANTY

Based on IESNA LM80-2008, BeveLED has a 50,000 hour rated life at 70% lumen maintenance (L70). USAI Lighting Warranty covers replacement parts for 5 years from date of shipment. Ambient temperatures at fixture location should not exceed 40°C during normal operation.

CEILING CUT OUT

B4RGF Trimmed Overlap Flange: 6-5/8" Ø B4RGL Trimless Spackle Frame: 7-1/8" Ø B4RGM Millwork Knife Edge: 6-7/16" Ø

LISTINGS

Dry/Damp/Wet location. Remote EM test switch is dry/damp only. Select EMW option for wet location remote test switch. UL2043 rated for use in air handling plenums. NRTL/CSA-US tested to UL standards. IBEW union made.

NOTES

• Not for use in corrosive environment

• Use of pressure washer voids warranty

PHOTOMETRICS

Consult factory or website for IES files. Tested in accordance with IESNA LM79.

Page 7



BeveLED Infinite Color+"

DMX DATA IN

info@usailighting.com

DIMMING DRIVER WIRING SCHEMES:

DIMMING DRIVER COMPATIBILITY **SELECTION GUIDE** DMX1M, DMX2M

DMX1M: EldoLED DMX dimming with manual addressing, 8-bit (Dims down to 0%) DMX2M: EldoLED DMX dimming with manual addressing, 16-bit (Dims down to 0%) Choose from WR (splice connection), RJ (RJ45 jacks) and XL (XLR5 connectors) cabling options, and refer to corresponding wiring diagram below:

RJ CABLING OPTION

WR OPTION

OMX+ BLUE

O_DMX-WHITE

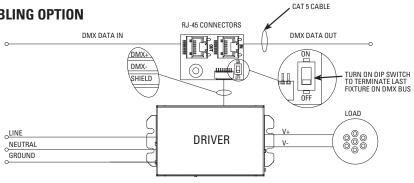
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o_LINE

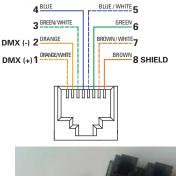
Lighting

o<u>NEUTRAL</u>

GROUND



DRIVER



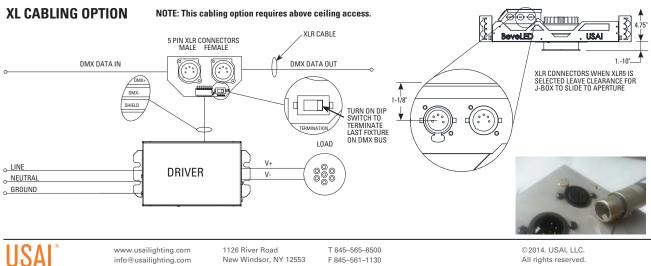
Туре **61**



• WR Cabling Option: no interface board is supplied; cables must be spliced inside the junction box for connection. The data cable used must meet the following requirements:

- type: shielded, 2-conductor twisted pair
- maximum capacitance between conductors: 30 pF/ft maximum capacitance between conductor and shield: 55 pF/ft
- maximum resistance: 0.02 ohms/ft
- normal impedance: 100-140 ohms
- conductive core: 24 AWG is recommended

If 3-wire data cables are preferred, we suggest a Belden 9841 or equivalent cable which meets the specifications for EIA RS-485 applications. Do not use standard microphone cables: they cannot transmit DMX512 data reliably over long distances. NOTE: DMX link termination device (by others) should be used on last fixture in line on a circuit to avoid signal loss.



F 845-561-1130

DMX DATA OUT

DMX-

SHIELD

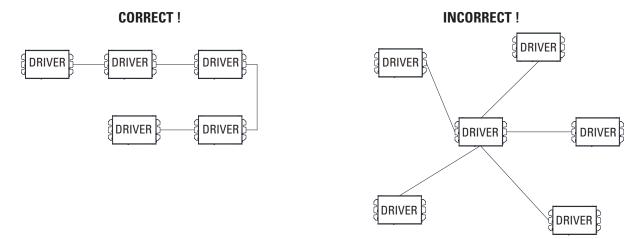
LOAD

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DIMMING DRIVER COMPATIBILITY SELECTION GUIDE DMX1M, DMX2M

DMX MUST BE DAISY CHAINED IN SINGLE LINE



NOTES FOR DRIVERS:

- 1. DMX signal cable must NOT be run in same conduit as high voltage AC power lines.
- 2. Fixtures must be daisy chained in one serial line using Data in and Data out
- 3. Maximum of 32 DMX devices on a single DMX bus
- 4. Maximum of 1600 ft serial communication link distance
- 5. To avoid signal loss, DMX signal terminator should be used on last fixture in line. For RJ and XL cabling options, this is provided through a dip-switch on the connector board. For WR cabling options, this device (120 ohm resistor) is provided by others.
- 6. For best results when using WR cabling option use communication data splices.
- 7. Default state for fixtures off. Luminaire will not light until DMX signal is received.







BeveLED Mini® Incline Infinite Color+ - B3SG-FC1 3" Square Downlight for Sloped Ceilings

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Field Convertible from Trimless or Millwork to Trimmed

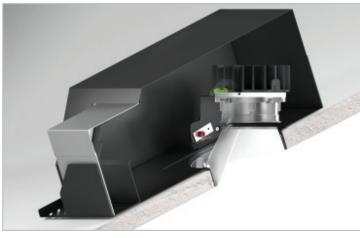
Trimmed - B3SGF



Trimless - B3SGL







usailighting.com/slopedceiling-infinitecolor

Introducing Beautiful, Precise Recessed Lighting for Sloped Ceiling Installations Up to 45 Degrees. Now available in full color plus white light flexibility

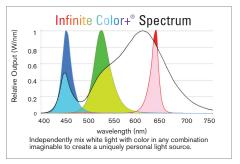
FEATURES

- Solutions for angles from 15° (3/12 pitch) to 45° (12/12 pitch)
- · Perfect round and square roomside appearance
- · Installations are always aligned with integral leveler
- · Works with sheetrock, stone, plaster, and millwork ceilings
- · Easily change from trimless or millwork to trimmed in the field

DOWNLIGHT PERFORMANCE DATA

DELIVERED*	Infinite Color +			
PERFORMANCE:	White Light Channel Only	Multi Channel Output		
Wattage	16W	18W		
Source Lumens:	1000	1200		
Lumens Per Watt:	51	45		
Delivered Lumens:	775	875		

*Based on 40° optic. Performance varies for each specific beamspread and color point; see ies files for exact values at usailighting.com



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Page 1

Dynamic Lighting Showcase	Catalog Number B3SGF 30 18FC1 60 SF WH WH NC1 UNV D23X2 RJ	^{Туре} 62
	Notes	

HOW TO SPECIFY

BeveLED Mini[®] Incline Infinite Color+ - B3SG-FC1 3" Square Downlight for Sloped Ceilings with Integral Dimming Driver Lighting Specify fixture part number. (All boxes must be filled in to correctly order)

B3SG_		18FC1		SF				UNV			
BeveLED Trim Style	Ceiling Slope	Wattage Options	Beam Options	Lens Options	Bevel Trim Finish Options	*Flange/ Millwork Collar Finish	Housing Options	Voltage Options Select one	Dimming Driver Options	Cabling Options Select one	Accessories (Optional)*
F Trimmed	30 Angled trim	18FC1 d trim 18W LED	40 40° beam	40° beam Solite Frosted	WH White	WH White	NC1 New Construction NCCP Chicago Plenum	0	D23X1 EldoLED DMX 0.1% dimming, manual addressing using RDM protocol, 8 bit D23X2 EldoLED DMX 0.1% dimming, manual addressing using RDM protocol, 16 bit	RJ RJ45 Jacks WR Manual Wire Splice Connection	EM Emergency
with Flange	accomodates ceiling slopes from 15°		60 60° beam		SC Conduit Silver	SC Conduit Silver					Battery EMW Emergency Battery Wet Location * EM battery available with NC1 housing only
Trimless Spackle-in	(3/12 pitch) to 30° (7/12 pitch) maximum	(3/12 prich) io 30° (7/12 prich) maximum 45 Angled trim accomodates zeiling slopes rom 30° (7/12 prich) io 45°			GR Grey	GR Grey					
M Millwork Knife-edge					BL Black	BL Black					
rame edge					BZ Bronze	BZ Bronze					
					PR Primer Finish	PR Primer Finish					and requires above ceiling
					RAL Custom Color Specify RAL#	RAL Custom Color Specify RAL#					access for service.
						* Leave blank for trimless					

TRIM FINISH OPTIONS



Custom colors and primer finish also available



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Page 2

	Dynamic Lighting Showcase		^{Туре} 62
SixteenOnunured	Submitted By 16500, INC	Notes	-

HOW TO SPECIFY

BeveLED Mini[®] Incline Infinite Color+ - B3SG-FC1 3" Square Downlight for Sloped Ceilings with Remote Dimming Driver Lighting 1. Specify fixture part number. (All boxes must be filled in to correctly order) B3SG_ 18FC1 SF RM BeveLED Ceiling Wattage Beam Lens Bevel *Flange/ Housing Remote Accessories Trim Style Slope Options Options Options **Trim Finish** Millwork Options Dimming (Optional) Options **Collar Finish** Driver 18FC1 F 30 40 SF WН wн NC1 RM CB27 18W LED Trimmed Angled trim 40° beam Solite White White New Remote 27" C-Channel Bars with Flange accomodates Frosted Construction Dimming SC SC 60 ceiling slopes CB52 Conduit Silver Conduit Silver Driver, specify NCCP L 60° beam from 15° (3/12 pitch) 52" C-Channel Bars Trimless Chicago Plenum remote power GR GR supply in table Spackle-in to 30° Grey Grey **USAI** below (7/12 pitch) NCIC Μ BL BL Millwork maximum New Construction Black Black Knife-edge 45 Power **BZ** Bronze **BZ** Bronze Insulation Angled trim Contact accomodates Rated ceiling slopes from 30° **PR** Primer Finish PR Supply Primer Finish (7/12 pitch) to 45° (12/12 pitch) RAL RAL Custom Color Specify RAL# Custom Color Specify RAL# Must Be maximum Specified * Leave blank for trimless 2. Specify Remote Power Supply RPB-01 18FC1 UNV **Remote Power** Fixture Voltage **Remote Dimming Driver Type* Cabling Option** Supply Wattage Select one RPB-01 18FC1 18W LED **UNV** 120V - 277V D23X1 EldoLED DMX 0.1% dimming, manual addressing using RDM protocol, 8 bit RJ BeveLED Mini RJ45 Jacks NOTE: EldoLED DMX 0.1% dimming, manual addressing using RDM protocol, 16 bit Infinite Color+ D23X2 Remote Power Supplies Require **WR** Manual Enclosures by Others. See Page 7 for Details. Remote Power Supply Wire Splice *Requires remote enclosure by others, minimum size 9"L x 4"W x 2"H Connection **TRIM FINISH OPTIONS**



Custom colors and primer finish also available

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Page 3

Dynamic Lighting Showcase	-	туре 62
Submitted By 16500, INC	Notes	-

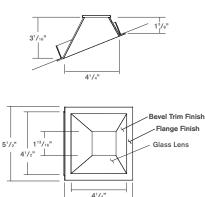
Trimmed - B3SGF

BeveLED Mini[®] Incline Infinite Color+ - B3SG-FC1 3" Square Downlight for Sloped Ceilings



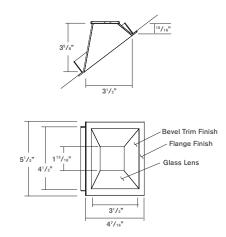
TRIM DETAILS

For 15° (3/12) - 30° (7/12) Slope Ceilings



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For 30° (7/12) - 45° (12/12) Slope Ceilings

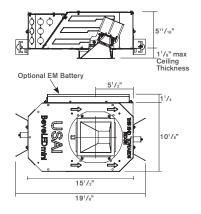


HOUSING OPTIONS

For 15° (3/12) - 30° (7/12) Slope Ceilings

New Construction - NC1 Chicago Plenum - NCCP Insulation Contact - NCIC (remote driver only)

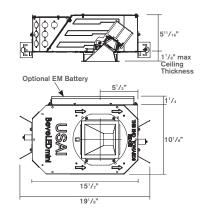
Optional EM battery for NC1 housing shown in drawing below



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New Construction - NC1 Chicago Plenum - NCCP Insulation Contact - NCIC (remote driver only)

Optional EM battery for NC1 housing shown in drawing below



Page 4

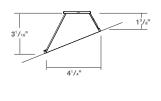
_	Dynamic Lighting Showcase	Catalog Number B3SGF 30 18FC1 60 SF WH WH NC1 UNV D23X2 RJ	^{Туре} 62
sixteen5hundrec	Submitted By 16500, INC	Notes	02

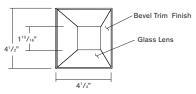
BeveLED Mini[®] Incline Infinite Color+ - B3SG-FC1 3" Square Downlight for Sloped Ceilings



TRIM DETAILS

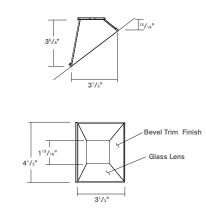
For 15° (3/12) - 30° (7/12) Slope Ceilings





Trimless - B3SGL

For 30° (7/12) - 45° (12/12) Slope Ceilings

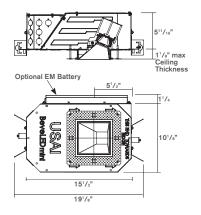


HOUSING OPTIONS

For 15° (3/12) - 30° (7/12) Slope Ceilings

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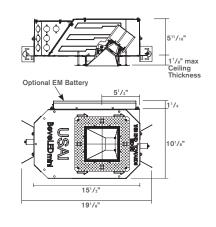
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New Construction - NC1 Chicago Plenum - NCCP Insulation Contact - NCIC (remote driver only)

Optional EM battery for NC1 housing shown in drawing below



Page 5

	Dynamic Lighting Showcase	-	туре 62
<u> </u>		Notes	

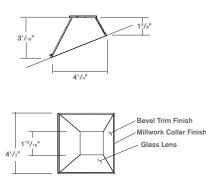
Millwork - B3SGM

BeveLED Mini[®] Incline Infinite Color+ - B3SG-FC1 3" Square Downlight for Sloped Ceilings



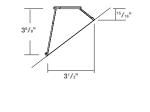
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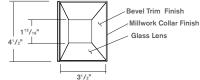
For 15° (3/12) - 30° (7/12) Slope Ceilings



41/4

For 30° (7/12) - 45° (12/12) Slope Ceilings



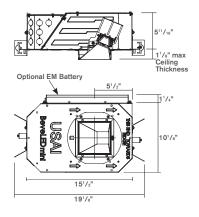


HOUSING OPTIONS

For 15° (3/12) - 30° (7/12) Slope Ceilings

New Construction - NC1 Chicago Plenum - NCCP Insulation Contact - NCIC (remote driver only)

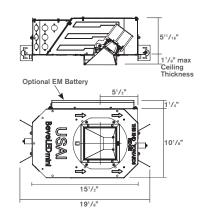
Optional EM battery for NC1 housing shown in drawing below



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New Construction - NC1 Chicago Plenum - NCCP Insulation Contact - NCIC (remote driver only)

Optional EM battery for NC1 housing shown in drawing below



Page 6



BeveLED Mini[®] Incline Infinite Color+ - B3SG-FC1 3" Square Downlight for Sloped Ceilings



BEVELED MINI INCLINE INFINITE COLOR+ SPECIFICATIONS

FIELD REPLACEABLE LED LIGHT ENGINE

is serviceable through the aperture with a Philips screwdriver. All USAI Lighting light engines feature industry-leading color consistency.

FIELD REPLACEABLE INTEGRAL DRIVER

Solid state electronic constant current DMX512 driver with a high power factor provided standard. Works with universal voltages 120V-277V. All integral dimming drivers are located within the fixture housing and are serviceable from below the ceiling through the aperture. Driver complies with IEEE C62.41 surge protection. Specify D23X1 for 8-bit communication controls; specify D23X2 for 16-bit communication controls. All driver options require remote device management (RDM) communication protocol for addressing.

Notes

INTEGRAL EMERGENCY BATTERY

An integral IOTA emergency battery is available as an option with the NC1 housing only and provides backup power for 90 minutes. NC1 EM fixtures are provided with an integral emergency battery that requires above ceiling access for service, and a remote test switch, which comes with a 24" lead length for location of the test switch. Remote EM test switch is dry/damp only; select EMW emergency option for a wet location-rated EM test switch. In emergency mode Infinite Color+ uses the white channel only at ~25% power. Fixtures that have no USAI EM option may be connected to an inverter (by others) for emergency lighting.



REMOTE LOCATION DRIVER

BeveLED Mini Infinite Color+ is supplied with quick connects for use with remotely located driver. Driver is provided separately for remote location on site, enclosure to be provided by others. Remote dimming driver power supply option must be clearly specified in the "RP" table. Remote power supplies require enclosures by others that meet local codes and must be located in an accessible service panel within 100ft of the light fixture; see remote driver table below for coordination of enclosure sizes and wire gauges required. All dimming drivers comply with IEEE C62.41 surge protection.

- -

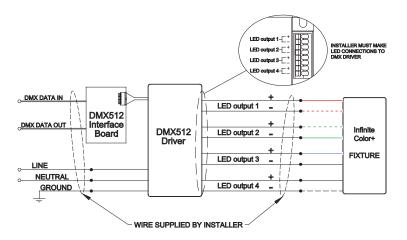
Remote Power Supply Requirements and Wiring Diagrams Note: Must be wired in homeruns per wiring diagram "A" below.

. . . .

1 Fixture Maximum Per Power Supply.

		Wire Gauge	Minimum Enclosure	
Remote Power Suppl	y Dimming Option	Required*	Size Required (by others)	
	UNV-D23X1 EldoLED, 8 bit, DMX, 0.1%	18/16	9" W x 4" L x 2" H	
	UNV-D23X2 EldoLED, 16 bit DMX, 0.1%	16/10	9 W X 4 L X 2 H	

* Wire gauge 18/16 = Maximum distance from light fixture to remote power supply is 100' using 16 gauge wire, 50' using 18 gauge wire.



USAI LIGHTING COLLABORATORY 13 Crosby Street New York, NY 10013 845-234-4090 showroom@usailighting.com USAI LIGHTING HEADQUARTERS 1126 River Road New Windsor, NY 12553 T: 845-565-8500 info@usailighting.com © 2020. USAI, LLC. All rights reserved. All designs protected by copyright. Patents pending. USAI, BeveLED Mini and Infinite Color+

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• maximum capacitance between conductor and shield: 55 pF/ft

• normal impedance: 100-140 ohms · conductive core: 24 AWG is recommended

maximum resistance: 0.02 ohms/ft

data cable used must meet the following requirements: · type: shielded, 2-conductor twisted pair

• maximum capacitance between conductors: 30 pF/ft

lines must not be run in the same conduit.

If 3-wire data cables are preferred, we suggest a Belden 9841 or equivalent cable which meets the specifications for EIA RS-485 applications. Do not use standard microphone cables: they cannot transmit DMX512 data reliably over long distances.

CABLING: Data cables must be run in series between fixtures. Choose your preferred method of connection when specifying. To avoid signal transmission problems, the DMX link terminator dip switch should be used in the last fixture in a series on a given DMX bus. NOTE: Data communication cables and AC power

• WR Cabling Option: If the WR cabling option is specified, the remote power supply is provided with a DMX interface board with terminal blocks for wires to be manually spliced for data connection. A link termination dip switch is provided at the connector board; no separate link termination device is required. The

ADJUSTMENT

Sloped ceiling housings are fitted with an integral bubble leveling device to ensure perfectly level installations and optical alignment. Optical assembly can be tilted and locked in position for ceiling slopes from 3/12 pitch to 12/12 pitch, which are visually indicated on tilt mechanism. Butterfly brackets are imprinted with ceiling thickness indexing allow installers to easily preset housing prior to installation: choose from ceiling thicknesses of 1/2", 5/8", 3/4", 7/8", 1", or 1-1/8".

HOUSING

All BeveLED Mini fixtures are field-flexible which allows for field changes from trimless or millwork to trimmed with a simple components change with parts from USAI. Housings are fabricated of 20 ga. steel construction with thru wire J-box, 4 in 4 out at min. 90°C, #12 AWG thru branch circuit wiring.

MOUNTING

B3RGF overlap flange fixtures are designed for use in sheetrock, acoustical ceiling tile, and many other ceiling materials. B3RGL trimless fixtures are provided with a spackle collar and are designed for use in sheetrock/mud-in ceiling applications. B3RGM millwork fixtures are provided with a millwork collar and are designed for use in wood/millwork and stone construction applications. Butterfly brackets and adjustable channel bars extendible from 16" to 24" centers with integral nails are provided for attachment to building structure.

FIXTURE WEIGHT

NC1, NCCP and NCIC housings weigh 11 lbs. NC1 housing with EM weighs 14 lbs.

WARRANTY

Based on IESNA LM80-2008, BeveLED has a 50,000 hour rated life at 70% lumen maintenance (L70). USAI Lighting Warranty covers replacement parts for 5 years from date of shipment. Ambient temperatures at fixture location should not exceed 40°C during normal operation.

CEILING CUT OUT

B3SGF Trimmed Overlap Flange: 5-1/16" X 5-1/16" B3SGL Trimless Spackle Frame: 5-1/16" X 5-1/16" B3SGM Millwork Knife Edge: 4-15/16" 4-15/16"

LISTINGS

Dry/Damp/Wet location. Remote EM test switch is dry/damp only. Select EMW option for wet location remote test switch. UL2043 rated for use in air handling plenums. NRTL/CSA-US tested to UL standards. IBEW union made.

NOTES

· Not for use in corrosive environment

· Use of pressure washer voids warranty

PHOTOMETRICS

Consult factory or website for IES files. Tested in accordance with IESNA LM79.

USAI LIGHTING COLLABORATORY 13 Crosby Street New York, NY 10013 845-234-4090 showroom@usailighting.com

USAI LIGHTING HEADQUARTERS 1126 River Road New Windsor, NY 12553 T: 845-565-8500 info@usailighting.com

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BeveLED Mini[®] Incline Infinite Color+ - B3SG-FC1

• RJ Cabling Option: If the RJ cabling option is specified, the remote power supply is provided with a DMX interface board that has RJ45 jacks for data connection with CAT5 cable terminated with RJ45 connectors. A link termination dip

3" Square Downlight for Sloped Ceilings

BEVELED MINI INCLINE INFINITE COLOR+ SPECIFICATIONS

switch is provided at the connector board; no separate link termination device is required.

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DIMMING DRIVER COMPATIBILITY SELECTION GUIDE D3 / DIML3

DIMMING DRIVER WIRING SCHEMES:

NOTES:

Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.

IMPORTANT SAFETY INSTRUCTIONS

- SAVE THESE INSTRUCTIONS

- 1. Keep these instructions in a safe place for future reference.
- 2. Only qualified electricians in accordance to local codes should install these fixtures.
- 3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
- 4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.

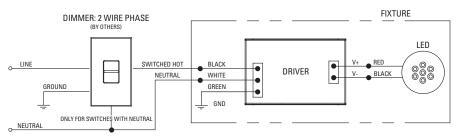
5. Cap any wires not used separately (not together).

D3 / DIML3 LED: Lutron Hi-Lume A-Series 2 Wire Fwd Phase (with neutral) / LED Dimming Driver Wiring (Dims down to 1%) 120V

	D3 / DIML3 Dimmer Compatibility Chart						
			Dimmed Light	Oty Fixtures F			
Manufacturer	Product	Part Number	Output Range		Wattage		
120V Only		Γ		39W and Less	40W - 80W		
ETC	Sensor+ Cabinet	ELV10	100% - 1%	1 - 26	1 – 13		
ETC	Unison DRd Cabinet	ELV10	100% - 1%	1 – 26	1 – 13		
Lutron	Maestro Wireless® 600W dimmer	MRF2-6ND-120-	100% - 1%	1-8	1-4		
Lutron	Maestro Wireless® 1000W dimmer	MRF2-10ND-120-	100% - 1%	1 – 13	1-6		
Lutron	HomeWorks® QS adaptive dimmer	HQRD-6NA-	100% - 1%	1-8	1 – 4		
Lutron	HomeWorks® QS 600W dimmer	HQRD-6ND-	100% - 1%	1-8	1 – 4		
Lutron	HomeWorks® QS 1000 W dimmer	HQRD-10ND-	100% - 1%	1 – 13	1-6		
Lutron	Caseta Wireless® Pro 1000W dimmer	PD-10NXD-	100% - 1%	1 – 13	1-6		
Lutron	Stanza® dimmer	SZ-6ND-	100% - 1%	1-8	1-4		
Lutron	RadioRA® 2 adaptive dimmer	RRD-6NA-	100% - 1%	1-8	1-4		
Lutron	RadioRA® 2 1000 W dimmer	RRD-10ND-	100% - 1%	1-6	1-3		
Lutron	myRoom DIN power module	MQSE-4A1-D	100% - 1%	1-6	1 – 3		
Lutron	HomeWorks® QS wallbox power module	HQRJ-WPM-6D-120-	100% - 1%	1 - 26	1 – 13		
Lutron	Homeworks® DIN power module	LQSE-4A1-D	100% - 1%	1-6	1 – 3		
Lutron	HomeWorks® wallbox power module	HWI-WPM-6D-120	100% - 1%	1 – 26	1 – 13		
Lutron	GRAFIK Eye® QS control unit	QSGR-, QSGRJ-	100% - 1%	1 – 26	1 – 13		
Lutron	GRAFIK Eye® 3000 control unit	GRX-3100-, GRX-3500-	100% - 1%	1 – 26	1 – 13		
Lutron	RPM-4U module	HW-RPM-4U-120, LP-RPM-4U-120	100% - 1%	1 - 26	1 – 13		
Lutron	RPM-4A module	HW-RPM-4A-120, LP-RPM-4A-120	100% - 1%	1 - 26	1 – 13		
Lutron	GP dimming panels	Various	100% - 1%	1 – 26	1 – 13		
Lutron	Ariadni CL 250W dimmer	AYCL-253P-	100%-1%	1-8	1 – 4		
Lutron	Diva CL 250W dimmer	DVCL-253P-, DVSCCL-253P-	100%-1%	1-8	1 – 4		
Lutron	Grafik T CL or RF CL dimmer	GT-250M-, GTJ-250M-	100%-1%	1-8	1 – 4		
Lutron	Nova T CL 250W dimmer	NTCL-250-	100%-1%	1 – 10	1 – 5		

* NOTE: Refer to dimmer manufacturer's documentation for installation instructions and circuit details.

D3 / DIML3 2 WIRE PHASE DIMMING







USAI Lighting

DIMMING DRIVER COMPATIBILITY **SELECTION GUIDE** D4A / DIML4A and D4P / DIML4P

DIMMING DRIVER WIRING SCHEMES:

NOTES

Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.

IMPORTANT SAFETY INSTRUCTIONS

- SAVE THESE INSTRUCTIONS

- 1. Keep these instructions in a safe place for future reference.
- 2. Only qualified electricians in accordance to local codes should install these fixtures.
- 3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
- 4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.

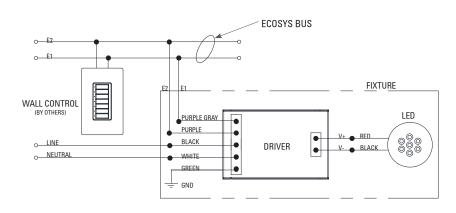
5. Cap any wires not used separately (not together).

D4A / DIML4A LED: Lutron Hi-Lume Premier EcoSystem LED Driver (Dims down to 0.1%) D4P / DIML4P LED: Lutron Hi-Lume Premier EcoSystem LED Driver (Dims down to 1%)

D4A / D4P EcoSystem Controls Dimmer Compatibility Chart						
Manufacturer	Product	Part Number	Maximum Quantity Light Fixtures Per Control			
120V / 277V						
Lutron	PowPak dimming module	RMJ-EC032-DV-B	32			
Lution		FCJ/FCJS-ECO	3			
120V ONLY	120V ONLY					
	Energi Sour Node	QSN-1ECO-S	64			
	Energi Savr Node	QSN-2ECO-S	128			
	GRAFIK Eye QS/					
	Homeworks QS control unit	QSGRJE, QSGRE	64			
Lutron		QP22C	128			
		QP24C	256			
	Quantum Hub	QP26C	384			
		QP28C	512			
	HomeWorks QS / myRoom					
	Plus power module	LQSE-2ECO-D	128			

* NOTE: Number of fixtures may be higher if wattage is less than maximum values shown. Refer to dimmer manufacturer's documentation for installation instructions and circuit details.

D4A / DIML4A and D4P / DIML4P **EcoSystem CONTROLS**





_	Dynamic Lighting Showcase		туре 62
sixteen5hundrec		Notes	02

USAI[®] Lighting

DIMMING DRIVER COMPATIBILITY SELECTION GUIDE D4H /DIML4H

DIMMING DRIVER WIRING SCHEMES:

NOTES:

Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.

IMPORTANT SAFETY INSTRUCTIONS

- SAVE THESE INSTRUCTIONS

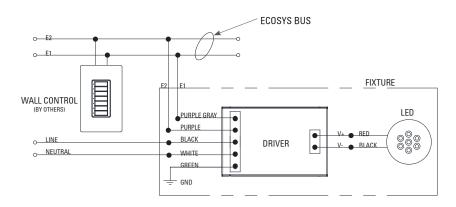
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- 2. Only qualified electricians in accordance to local codes should install these fixtures.
- 3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
- 4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.
- 5. Cap any wires not used separately (not together).

D4H / DIML4H LED: Lutron H Series EcoSystem LED Driver with Fade to Black (dims down to 1%)

	D4H / DIML4H EcoSystem Dimmer Compatibility Chart							
	Dimmed Light Uty Fixtures Per Control*							
Manufacturer	Product	Part Number	Output Range	Fixture	Wattage			
120V / 277V	1			39W and Less	40W - 80W			
Lutron	PowPak dimming module	RMJ-EC032-DV-B	100%-1%	1–32	1-16			
Lutron	Energi Savr Node	QSN-1ECO-S, QSN-2ECO-S	100%-1%	1–64	1-32			
Lutron	GRAFIK Eye QS (120V ONLY)	QSGRJE, QSGRE	100%-1%	1–64	1-32			
Lutron	Quantum	Various	100%–1%	1–64	1-32			

* NOTE: Number of fixtures may be higher if wattage is less than maximum values shown. Refer to dimmer manufacturer's documentation for installation instructions and circuit details.









USAI Lighting

IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS

1. Keep these instructions in a safe place for future reference.

2. Only qualified electricians in accordance to local codes should install these fixtures.

3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.

4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.

5. Cap any wires not used separately (not together).

D6A / DIML6A and D6E / DIML6E LED Dimming Compatibility Table

D6A / DIML6A and D6E / DIML6E are linearly programmed dimming drivers for use with the dimming controls listed in the table below. D6A / DIML6A = EldoLED SOLOdrive 0-10V control dims from 100% to 0.1% D6E / DIML6E = EldoLED ECOdrive 0-10V control dims from 100% to 1%

D6A / DIML6A and D6E / DIML6E Dimmer Compatibility Chart Dimmed Light Otv Fixtures Manufacturer Part Number Per Dimmer* Product Output Range DIML6A 6E 120V & 277V Refer to manufacturer's DVTV/NFTV with PP-20 dimmer load rating for 99% - 0.1% 1% Lutron Diva NTFTV with PP-20 99% 0.1% 1% maximum and minimum Lutron Nova T Energi Savr Node **QSN-4T16-S** 100% - 0.1% 1% fixture quantities per Lutron 99% - 0.1% 1% dimmer. **GP** Dimming Panels TVM2 Module Lutron Interfaces GRX-TVI w/ GRX3503 100% - 0.1% 1% Enlighted compatible. Lutron Sensor Switch nIO nIO EZ 100% - 0.1% 1% **Control Unit** CU-3E-1R 100% - 0.1% 1% enlighted

D6B / DIML6B and D6F / DIML6F LED Dimming Compatibility Table

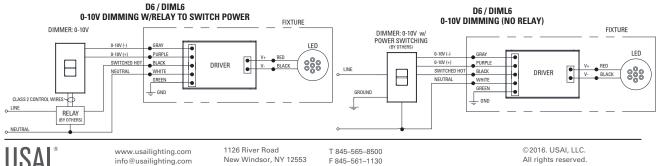
D6B / DIML6B and D6F / DIML6F are logarithmic-programmed dimming drivers for use with the dimming controls listed in the table below. D6B / DIML6B = EldoLED SOLOdrive 0-10V control dims from 100% to 0.1% D6F / DIML6F = EldoLED ECOdrive 0-10V control dims from 100% to 1%

	D6B / DIML6B and D6F / DIML6F Dimmer Compatibility Chart					
NA	Duradurat	Dent Number	Dimmed Light	Qty Fixtures		
Manufacturer	Product	Part Number	Output Range	Per Dimmer*		
120V & 277V			DIML6B 6F			
Bush-Jaeger	Electronic potentiometer	2112U-101	100% - 0.1% 1%	Refer to		
Jung	Electronic potentiometer	240-10	100% - 0.1% 1%	manufacturer's		
Leviton	lluma Tech dimmer	IP710-DLX	100% - 0.1% 1%	dimmer load		
Lightolier (Philips)	Momentum (120V ONLY)	ZP600FAM120	100% - 0.1% 1%	rating for		
Merten	Electronic potentiometer	5729	100% - 0.1% 1%	maximum and		
Pass & Seymour	Titan	CD4FB-W	100% - 0.1% 1%	minimum fixture		
Watt Stopper	Miro	DCLV1	100% - 0.1% 1%	quantities per		
Synergy	Wallbox Dimmers	ISD BC	100% - 0.1% 1%	dimmer.		
ABB	i-bus	SD/S 2.16.1	100% - 0.1% 1%	Enlighted		
Crestron	Modules	GLX-DIMFLV8, GLXP-DIMFLV8	100% - 0.1% 1%	compatible.		
Crestron	Green Light	GLPAC-DIMFLV4-, GLPAC-DIMFLV8-	100% - 0.1% 1%	oompatibio.		
Crestron	Green Light Power Pack	GLPP-DIMFLVEX-PM, GLPP-1DIMFLV2EX-PM, GLPP-1DIMFLV3EX-PM	100% - 0.1% 1%			
Crestron	DIN Rail Analog Output Module	DIN-A08	100% - 0.1% 1%			
Crestron	DIN Rail 0-10V Fluorescent Dimmer	DIN-4DIMFLV4	100% - 0.1% 1%			
Crestron	iLux 0-10V Dimmer Expansion Module	CLS-EXP-DIMFLV	100% - 0.1% 1%			
enlighted	Control Unit	CU-3E-1R	100% - 0.1% 1%			

DIMMING DRIVER WIRING SCHEMES:

Lighting

NOTES: Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.



DIMMING DRIVER COMPATIBILITY **SELECTION GUIDE** D6A / DIML6A and D6E / DIML6E D6B / DIML6B and D6F / DIML6F

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DIMMING DRIVER COMPATIBILITY SELECTION GUIDE D7 / DIML7 and D7E

DIMMING DRIVER WIRING SCHEMES:

NOTES:

Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.

IMPORTANT SAFETY INSTRUCTIONS

- SAVE THESE INSTRUCTIONS

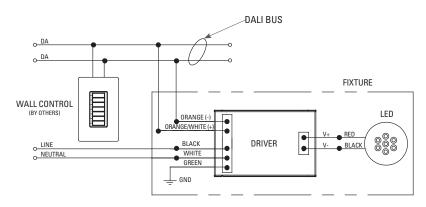
- 1. Keep these instructions in a safe place for future reference.
- 2. Only qualified electricians in accordance to local codes should install these fixtures.
- 3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
- 4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.

5. Cap any wires not used separately (not together).

D7 / DIML7 and D7E Dimming Driver Wiring

D7 / DIML7 and D7E are linearly programmed dimming drivers. D7 / DIML7 = EldoLED SOLOdrive DALI control dims from 100% to 0.1% D7E = EldoLED ECOdrive DALI control dims from 100% to 1%

D7 / DIML7 / D7E DALI CONTROLS



-	Dynamic Eignnig Onowcase	Catalog Number B3SGF 30 18FC1 60 SF WH WH NC1 UNV D23X2 RJ	^{Туре} 62
sixteen5hundred	Submitted By 16500, INC	Notes	02



DIMMING DRIVER COMPATIBILITY SELECTION GUIDE D15 / DIML15

DIMMING DRIVER WIRING SCHEMES:

NOTES:

Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.

IMPORTANT SAFETY INSTRUCTIONS

- SAVE THESE INSTRUCTIONS

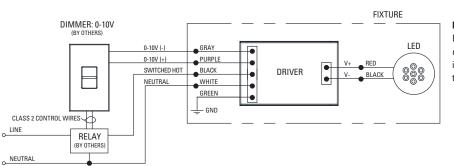
- 1. Keep these instructions in a safe place for future reference.
- 2. Only qualified electricians in accordance to local codes should install these fixtures.
- 3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
- 4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.

5. Cap any wires not used separately (not together).

D15 / DIML15 LED: 0-10V, 347V Dimming Driver Wiring (Dims down to 1%) 347V Only

D15 / DIML15 Dimmer Compatibility Chart					
			Qty Fixtures		
Manufacturer	Product	Output Range	Per Dimmer*		
347			Use source current per		
Acuity	Synergy ISD-BC	100% - 1%	fixture specification		
Douglas Lighting	WPN-5721, WPN-5822	100% - 1%	sheet to determine		
Hubbell	Light Hawk2 LHD-IRS3-N347-xx	100% - 1%	number of fixtures per		
Leviton	Illumatech IP710-DLZ with 347V relay	100% - 1%	dimmer. Max number		
Leviton	Centura Fluorescent Control System	100% - 1%	of fixtures is limited by		
Lutron	Nova NFTV-* dimmer plus 347V relay	100% - 1%	dimmer load rating.		
Lutron	Diva DVTV-* dimmer plus 347V relay	100% - 1%			

* NOTE: Refer to dimmer manufacturer's documentation for installation instructions and circuit details.



D15 / DIML15 0-10V DIMMING W/RELAY TO SWITCH POWER

NOTE:

If switched, non-dimming operation is desired, cap off purple and gray wires individually at installation. Do NOT cap purple and gray wires together.



sixteen5hundred	Dynamic Lighting Showcase		^{Туре} 62
		Notes	-

USAI[®] Lighting

DIMMING DRIVER COMPATIBILITY SELECTION GUIDE D19 / DIML19

DIMMING DRIVER WIRING SCHEMES:

NOTES:

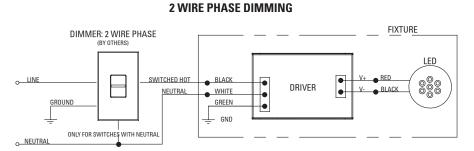
Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.

IMPORTANT SAFETY INSTRUCTIONS

- SAVE THESE INSTRUCTIONS

- 1. Keep these instructions in a safe place for future reference.
- 2. Only qualified electricians in accordance to local codes should install these fixtures.
- 3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
- 4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.
- 5. Cap any wires not used separately (not together).

<u>D19 / DIML19 LED</u>: Hatch XTC series or equivalent - Forward and Reverse Phase Dimming Driver. Dims down to 1% contingent upon dimmer specification and load. 120V only.



D19 / DIML19

	D1	9 / DIML19 Dimmer Compatibility Chart	
120V ONL	Y	• •	
		TRIA 0.0: :	

Forward Phase	Forward Phase / TRIAC Dimming				
Manufacturer	Product	Qty Fixtures Per Dimmer			
Leviton	IPL06-10Z	Use fixture wattage per			
	6613-xxx	fixture specification			
Lutron	S-600P	sheet to determine			
	S-603P	number of fixtures			
	DVSC-603P	per dimmer. Max number			
	CT-600P	of fixtures is limited by			
	CT-603P	dimmer load rating.			

120V ONLY					
Reverse Phase /	ELV Dimming				
Manufacturer	Product	Qty Fixtures Per Dimmer			
Leviton	6615	Use fixture wattage per			
	IPE04-xxx	fixture specification			
Lutron	NTELV-300	sheet to determine			
	NTELV-600	number of fixtures			
	SELV-300P	per dimmer. Max number			
	SELV-303P	of fixtures is limited by			
	DVELV-300P	dimmer load rating.			
	DVELV-303P				



Dynamic Lighting Showcase	Catalog Number B3SGF 30 18FC1 60 SF WH WH NC1 UNV D23X2 RJ	^{Туре} 62
	Notes	-



INTENSITY DIMMING DRIVER COMPATIBILITY SELECTION GUIDE DIML3

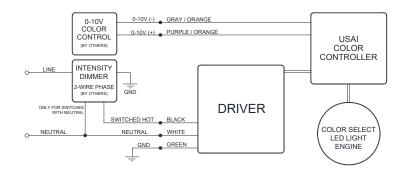
COLOR SELECT®

Covered By US Patents 8,581,520 and 8,456,109

INTENSITY DIMMING DRIVER WIRING SCHEMES:

Note: Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.

DIML3 LED: Lutron Hi-Lume A-Series 2 Wire Fwd Phase (with neutral) / LED Dimming Driver Wiring (Dims down to 1%) 120V only.



	D3 / DIML3 Dimmer Compatibility Chart					
		Dimmed Light	Qty Fixtures Per Dimmer*			
Manufacturer	Product	Part Number	Output Range		Wattage	
120V Only			1	39W and Less	40W - 80W	
ETC	Sensor+ Cabinet	ELV10	100% - 1%	1 – 26	1 – 13	
ETC	Unison DRd Cabinet	ELV10	100% - 1%	1 - 26	1 – 13	
Lutron	Maestro Wireless® 600W dimmer	MRF2-6ND-120-	100% - 1%	1-8	1-4	
Lutron	Maestro Wireless® 1000W dimmer	MRF2-10ND-120-	100% - 1%	1 – 13	1-6	
Lutron	HomeWorks® QS adaptive dimmer	HQRD-6NA-	100% - 1%	1-8	1-4	
Lutron	HomeWorks® QS 600W dimmer	HQRD-6ND-	100% - 1%	1-8	1-4	
Lutron	HomeWorks® QS 1000 W dimmer	HQRD-10ND-	100% - 1%	1 – 13	1-6	
Lutron	Caseta Wireless® Pro 1000W dimmer	PD-10NXD-	100% - 1%	1 – 13	1-6	
Lutron	Stanza® dimmer	SZ-6ND-	100% - 1%	1-8	1-4	
Lutron	RadioRA® 2 adaptive dimmer	RRD-6NA-	100% - 1%	1-8	1-4	
Lutron	RadioRA® 2 1000 W dimmer	RRD-10ND-	100% - 1%	1-6	1 – 3	
Lutron	myRoom DIN power module	MQSE-4A1-D	100% - 1%	1-6	1 – 3	
Lutron	HomeWorks® QS wallbox power module	HQRJ-WPM-6D-120-	100% - 1%	1 – 26	1 – 13	
Lutron	Homeworks® DIN power module	LQSE-4A1-D	100% - 1%	1-6	1 – 3	
Lutron	HomeWorks® wallbox power module	HWI-WPM-6D-120	100% - 1%	1 – 26	1 – 13	
Lutron	GRAFIK Eye® QS control unit	QSGR-, QSGRJ-	100% - 1%	1 – 26	1 – 13	
Lutron	GRAFIK Eye® 3000 control unit	GRX-3100-, GRX-3500-	100% - 1%	1 – 26	1 – 13	
Lutron	RPM-4U module	HW-RPM-4U-120, LP-RPM-4U-120	100% - 1%	1 – 26	1 – 13	
Lutron	RPM-4A module	HW-RPM-4A-120, LP-RPM-4A-120	100% - 1%	1 – 26	1 – 13	
Lutron	GP dimming panels	Various	100% - 1%	1 – 26	1 – 13	
Lutron	Ariadni CL 250W dimmer	AYCL-253P-	100%-1%	1-8	1 – 4	
Lutron	Diva CL 250W dimmer	DVCL-253P-, DVSCCL-253P-	100%-1%	1-8	1-4	
Lutron	Grafik T CL or RF CL dimmer	GT-250M-, GTJ-250M-	100%-1%	1-8	1-4	
Lutron	Nova T CL 250W dimmer	NTCL-250-	100%-1%	1 – 10	1 – 5	

* NOTE: Refer to dimmer manufacturer's documentation for installation instructions and circuit details.

USAI Lighting

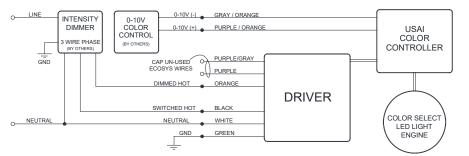
INTENSITY DIMMING DRIVER COMPATIBILITY SELECTION GUIDE DIML4

COLOR SELECT® Covered By US Patents 8,581,520 and 8,456,109

INTENSITY DIMMING DRIVER WIRING SCHEMES:

Note: Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.

DIML4 LED: Lutron Hi-Lume A-Series LED Driver with Eco System Control / LED Dimming Driver Wiring (Dims down to 1%)



D4 / DIML4 LED: Lutron Hi-Lume A-Series LED Driver with 3-Wire FL Control / LED Dimming Driver Wiring (Dims down to 1%)

			Dimmed Light	Qty Fixtures Per Control*	
Manufacturer	Product	Part Number	Output Range		Wattage
120V Only				39W and Less	40W - 80V
ETC	Sensor+Cabinet	D20 Dimming module	100% - 1%	1–53	1–26
ETC	Unison DRd Cabinet	D20F Dimming module	100% - 1%	153	1–26
Lutron	Nova T	NTF-10-	100%-1%	1-41	1-20
Lutron	Nova T	NTF-103P-	100%-1%	1–20	1 – 10
Lutron	Nova	NF-10-	100%-1%	1–41	1-20
Lutron	Nova	NF-103P-	100%-1%	1–20	1-10
Lutron	Vareo	VF-10-	100%-1%	1–20	1-10
Lutron	Skylark	SF-10P-, SF-103P-	100%-1%	1–20	1-10
Lutron	Diva	DVF-103P-, DVSCF-103P-	100%-1%	1–20	1-10
Lutron	Ariadni	AYF-103P-	100%-1%	1–20	1-10
Lutron	Vierti	VTF-6A-	100%-1%	1–15	1-7
Lutron	Maestro	MAF-6AM-, MSCF-6AM-	100%1%	1–15	1-7
Lutron	Maestro Wireless	MRF2-F6AN-DV-	100%1%	1–15	1-7
Lutron	RadioRA 2	RRD-F6AN-DV-	100%1%	1–15	1-7
Lutron	HomeWorks QS	HQRD-F6AN-DV	100%–1%	1–15	1-7
Lutron	Interfaces	PHPM-3F-120, PHPM-3F-DV	100%-1%	1-41	1-20
Lutron	GP Dimming Panels	Various	100%-1%	1-41	1-20
277V Only	1			40W and Less	41W - 80\
ETC	Sensor+Cabinet	D20 Dimming module	100% - 1%	153	1–26
ETC	Unison DRd Cabinet	D20F Dimming module	100% - 1%	153	1–26
Lutron	Nova T	NTF-10-277-	100%-1%	1-44	1-22
Lutron	Nova T	NTF-103P-277-	100%-1%	1–33	1-16
Lutron	Nova	NF-10-277-	100%-1%	1-44	1-22
Lutron	Nova	NF-103P-277-	100%-1%	1–33	1 – 16
Lutron	Skylark	SF-12P-277-, SF-12P-277-3	100%-1%	1–33	1 – 16
Lutron	Diva	DVF-103P-277-, DVSCF-103P-277-	100%1%	1–33	1-16
Lutron	Ariadni	AYF-103P-277-	100%-1%	1-44	1-22
Lutron	Vierti	VTF-6A-	100%-1%	1–33	1 – 16
Lutron	Maestro	MAF-6AM-277-, MSCF-6AM-277-	100%–1%	1–20	1 – 10
Lutron	Maestro Wireless	MRF2-F6AN-DV-	100%-1%	1–33	1-16
Lutron	RadioRA 2	RRD-F6AN-DV-	100%-1%	1–33	1-16
Lutron	HomeWorks QS	HQRD-F6AN-DV	100%-1%	1–33	1-16
Lutron	Interfaces	PHPM-3F-DV	100%-1%	188	1-44
Lutron	GP Dimming Panels	Various	100%-1%	188	1-44

* NOTE: Number of fixtures may be higher if wattage is less than maximum values shown. Refer to dimmer manufacturer's documentation for installation instructions and circuit details.

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Dynamic Lighting Showcase	Catalog Number B3SGF 30 18FC1 60 SF WH WH NC1 UNV D23X2 RJ	^{туре}
	Notes	

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INTENSITY DIMMING DRIVER COMPATIBILITY SELECTION GUIDE DIML4 Continued

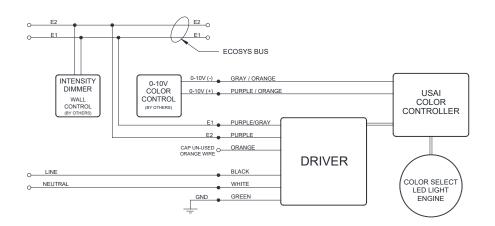
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Covered By US Patents 8,581,520 and 8,456,109

INTENSITY DIMMING DRIVER WIRING SCHEMES:

Note: Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.

DIML4 LED: Lutron Hi-Lume A-Series LED Driver with Eco System Control / LED Dimming Driver Wiring (Dims down to 1%)



D4 / DIML4 LED: Lutron Hi-Lume A-Series LED Driver with EcoSystem Control / LED Dimming Driver Wiring (Dims down to

	D4 / DIML4 EcoSystem Dimmer Compatibility Chart						
	Dimmed Light Qty Fixtures Per Control*						
Manufacturer	Product	Part Number	Output Range	Fixture	Wattage		
120V / 277V				39W and Less	40W - 80W		
Lutron	PowPak dimming module	RMJ-EC032-DV-B	100%–1%	1–32	1-16		
Lutron	Energi Savr Node	QSN-1ECO-S, QSN-2ECO-S	100%–1%	1–64	1-32		
Lutron	GRAFIK Eye QS (120V ONLY)	QSGRJE, QSGRE	100%–1%	1–64	1-32		
Lutron	Quantum	Various	100%–1%	1–64	1-32		

* NOTE: Number of fixtures may be higher if wattage is less than maximum values shown. Refer to dimmer manufacturer's documentation for installation instructions and circuit details.

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INTENSITY DIMMING DRIVER COMPATIBILITY SELECTION GUIDE DIML6A & 6B DIML6E & DIML6F

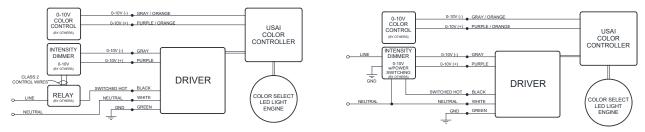
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INTENSITY DIMMING DRIVER WIRING SCHEMES:

Note: Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.

0-10V Dimming w/ Relay Switch to Power





D6A / DIML6A and D6E / DIML6E LED Dimming Compatibility Table D6A / DIML6A and D6E / DIML6E are linearly programmed dimming drivers for use with the dimming controls listed in the table below D6A / DIML6A = EldoLED SOLOdrive 0-10V control dims from 100% to 0.1% D6E / DIML6E = EldoLED ECOdrive 0-10V control dims from 100% to 1%

	D6A / DIML6A and D	06E / DIML6E Dimmer Compatibility	Chart	
			Dimmed Light	Qty Fixtures
Manufacturer	Product	Part Number	Output Range	Per Dimmer*
120V & 277V			DIML6A 6E	Refer to manufacturer's
Lutron	Diva	DVTV/NFTV with PP-20	99% - 0.1% 1%	dimmer load rating for
Lutron	Nova T	NTFTV with PP-20	99% - 0.1% 1%	maximum and minimum
Lutron	Energi Savr Node	QSN-4T16-S	100% - 0.1% 1%	fixture quantities per
Lutron	GP Dimming Panels	TVM2 Module	99% - 0.1% 1%	dimmer.
Lutron	Interfaces	GRX-TVI w/ GRX3503	100% - 0.1% 1%	Enlighted compatible.
Sensor Switch	nIO	nIO EZ	100% - 0.1% 1%	
enlighted	Control Unit	CU-3E-1R	100% - 0.1% 1%	

D6B / DIML6B and D6F / DIML6F LED Dimming Compatibility Table

D6B / DIML6B and D6F / DIML6F are logarithmic-programmed dimming drivers for use with the dimming controls listed in the table below D6B / DIML6B = EldoLED SOLOdrive 0-10V control dims from 100% to 0.1% D6F / DIML6F = EldoLED ECOdrive 0-10V control dims from 100% to 1%

	D6B / DIML6B and D6F / DIML6F	Dimmer Compatibility Chart		
Manufacturer	Product	Part Number	Dimmed Light Output Range	Qty Fixtures Per Dimmer*
120V & 277V			DIML6B 6F	
Bush-Jaeger	Electronic potentiometer	2112U-101	100% - 0.1% 1%	Refer to
Jung	Electronic potentiometer	240-10	100% - 0.1% 1%	manufacturer's
Leviton	lluma Tech dimmer	IP710-DLX	100% - 0.1% 1%	dimmer load
Lightolier (Philips)	Momentum (120V ONLY)	ZP600FAM120	100% - 0.1% 1%	rating for
Merten	Electronic potentiometer	5729	100% - 0.1% 1%	maximum and
Pass & Seymour	Titan	CD4FB-W	100% - 0.1% 1%	minimum fixture
Watt Stopper	Miro	DCLV1	100% - 0.1% 1%	quantities per
Synergy	Wallbox Dimmers	ISD BC	100% - 0.1% 1%	dimmer.
ABB	i-bus	SD/S 2.16.1	100% - 0.1% 1%	Enlighted
Crestron	Modules	GLX-DIMFLV8, GLXP-DIMFLV8	100% - 0.1% 1%	compatible.
Crestron	Green Light	GLPAC-DIMFLV4-, GLPAC-DIMFLV8-	100% - 0.1% 1%	compatible.
Crestron	Green Light Power Pack	GLPP-DIMFLVEX-PM, GLPP-1DIMFLV2EX-PM, GLPP-1DIMFLV3EX-PM	100% - 0.1% 1%	
Crestron	DIN Rail Analog Output Module	DIN-A08	100% - 0.1% 1%	
Crestron	DIN Rail 0-10V Fluorescent Dimmer	DIN-4DIMFLV4	100% - 0.1% 1%	
Crestron	iLux 0-10V Dimmer Expansion Module	CLS-EXP-DIMFLV	100% - 0.1% 1%	
enlighted	Control Unit	CU-3E-1R	100% - 0.1% 1%	



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	Dynamic Lighting Showcase	Catalog Number B3SGF 30 18FC1 60 SF WH WH NC1 UNV D23X2 RJ	^{туре}
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USAI Lighting

INTENSITY DIMMING DRIVER COMPATIBILITY SELECTION GUIDE DIML7

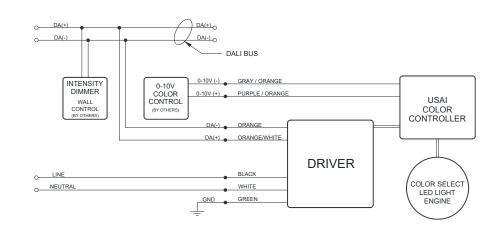
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INTENSITY DIMMING DRIVER WIRING SCHEMES:

Note: Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.

DIML7 LED: eldoLED DALI dimming driver (dims down to 0.1%)



NOTE: Refer to dimmer manufacturer's documentation for installation instructions and circuit details.

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BeveLED Infinite Color+" DIMMING DRIVER WIRING SCHEMES:

DMX DATA IN

DIMMING DRIVER COMPATIBILITY **SELECTION GUIDE** DMX1M, DMX2M

DMX1M: EldoLED DMX dimming with manual addressing, 8-bit (Dims down to 0%) DMX2M: EldoLED DMX dimming with manual addressing, 16-bit (Dims down to 0%) Choose from WR (splice connection), RJ (RJ45 jacks) and XL (XLR5 connectors) cabling options, and refer to corresponding wiring diagram below:

RJ CABLING OPTION

WR OPTION

OMX+ BLUE

O_DMX-WHITE

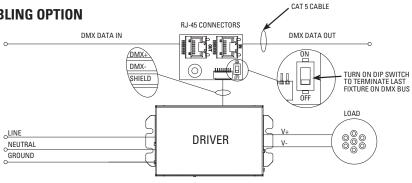
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o_LINE

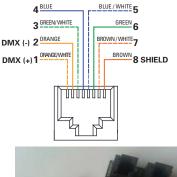
Lighting

o<u>NEUTRAL</u>

GROUND



DRIVER



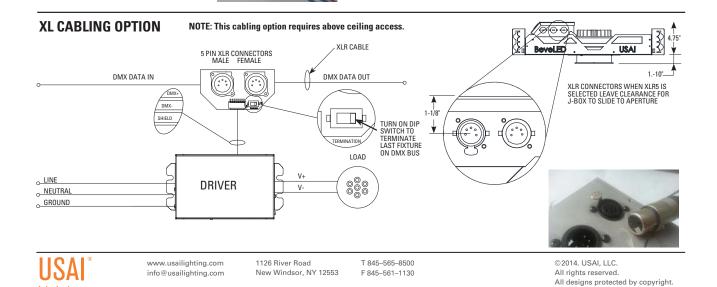


• WR Cabling Option: no interface board is supplied; cables must be spliced inside the junction box for connection. The data cable used must meet the following requirements:

- type: shielded, 2-conductor twisted pair
- maximum capacitance between conductors: 30 pF/ft maximum capacitance between conductor and shield: 55 pF/ft
- maximum resistance: 0.02 ohms/ft
- normal impedance: 100-140 ohms
- conductive core: 24 AWG is recommended

If 3-wire data cables are preferred, we suggest a Belden 9841 or equivalent cable which meets the specifications for EIA RS-485 applications. Do not use standard microphone cables: they cannot transmit DMX512 data reliably over long distances. NOTE: DMX link termination device (by others) should be used on last fixture in line on a circuit to avoid signal loss.

12-265



DMX DATA OUT

DMX-

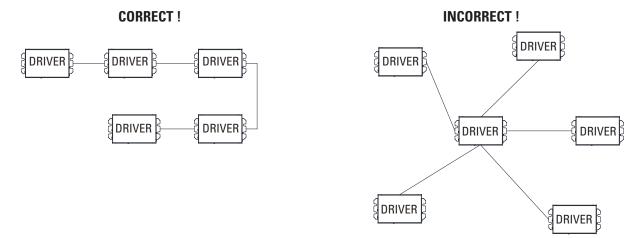
SHIELD

LOAD



DIMMING DRIVER COMPATIBILITY SELECTION GUIDE DMX1M, DMX2M

DMX MUST BE DAISY CHAINED IN SINGLE LINE



NOTES FOR DRIVERS:

- 1. DMX signal cable must NOT be run in same conduit as high voltage AC power lines.
- 2. Fixtures must be daisy chained in one serial line using Data in and Data out
- 3. Maximum of 32 DMX devices on a single DMX bus
- 4. Maximum of 1600 ft serial communication link distance
- 5. To avoid signal loss, DMX signal terminator should be used on last fixture in line. For RJ and XL cabling options, this is provided through a dip-switch on the connector board. For WR cabling options, this device (120 ohm resistor) is provided by others.
- 6. For best results when using WR cabling option use communication data splices.
- 7. Default state for fixtures off. Luminaire will not light until DMX signal is received.



	Project 21-12877-5 Date 7/26/2021 Dynamic Lighting Showcase
sixteen5hundred	
	Submitted By
	16500, INC

Catalog Number ART500 Type 3

Notes



ART 500

The **Art 500** is a touch panel DMX Controller with 1,024 DMX channels and 500 preset scenes, designed to be the most effective control solution for architectural control. Included is the ART 500 software package, which offers an easy to navigate interface, combined with powerful control features.

ORDER CODE

ART500

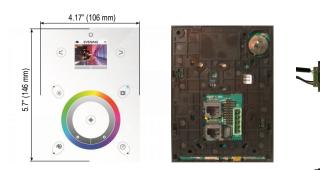
SPECIFICATIONS

Power Input	6V DC (Transformer Included) or POE
DMX Output	1024 DMX Channels, 2 Universes
Software OS Compatibility	Windows XP, Vista, 7 or 8 (ESA Pro), Mac OS X (ESA2)
Trigger Protocols	8 x Dry Contact Trigger, Calendar Trigger, RS-232, IR
Mounting	Single Gang Electrical Box (Not Included)
Housing	Glass Planel, Polycarbonate Body
Operating Temp	14°F to 113°F (-10°C to 45°C)
Connectors	Screw Terminal Blocks and RJ45, USB for PC / Mac Software
Storage	Micro SD Card
Warranty	2 Years
Weight & Rating	8.71 oz. (247g), Dry Location
Dimensions	W 5.7" x H 4.17" x D 0.4" (146 mm x 106 mm x 11 mm)

Certifications



DIMENSIONS







pharos

Overview

The Pharos TPC (Touch Panel Controller) is an elegant lighting controller with a customisable, 4.3" capacitive touch screen, 512 channels of eDMX output and vast interfacing potential, all over a single Power-over-Ethernet (PoE) network connection. TPCs are available in a range of different coloured bezels and overlays.

Touch Panel Controller



Features



Touch Interface

Touch screen user interface is fully customisable using the free Pharos Designer software. Create multiple pages of controls including buttons, sliders, keypads and colour pickers, and configure their appearance and visual feedback. Make it eye-catching by importing your own graphics or picking from one of our attractive themes.



Pharos Engine

The intelligent Pharos Engine gives you complete control of your installation. Based on individually controllable and independently running timelines and scenes, it lets you build dynamic, precise, fully customisable pre-programmed lighting displays, all while giving you the freedom of real-time manual overrides, flexible multi-zone control, prioritisation and more.



Pharos Trigger

Timing is everything. Whatever the stimulus, Pharos Trigger can handle it. You can control your lighting with responsive, reactive programming. Pharos Trigger is a rules engine that uses conditional logic and a broad range of interfaces and protocols. Send and receive any command, to and from any system. Conditional logic is supported, along with a powerful built-in scripting language for unlimited flexibility.

Pharos Mapping

Design the big picture; control every pixel. Create a 2D map of your fixtures within the Designer software, then use Pharos Mapping to create visually striking effects or play video across the entire array. Powerful controls allow you to build maps fast with pixel precise adjustment.

Scalable

The right fit for every installation. Multiple Pharos Controllers can be seamlessly linked together to work as one via a standard Ethernet network giving impressive scalability. For additional integration options simply add Remote Devices to further extend the network. Whether one Controller or many, it's all easily programmed using our Designer software.

Remote Management

The control you need in your browser - from anywhere. Pharos Controllers can be connected to Pharos Cloud, a secure remote management service from SixEye. This allows direct control of your Controllers from anywhere in the world, letting you check all of your Controllers' statuses, inputs and outputs, firing triggers, scheduling events, uploading new projects and much more. All Pharos controllers also have their own Web Interface that can be accessed on a local area network that provides real-time statuses, access to the full log and the ability to fire triggers on the controller.

Flexible

Be limited by your design brief, not your control system. Our products support a vast range of different fixture types and can output multiple DMX-over-Ethernet (eDMX) lighting protocols at the same time. No other system gives you this level of flexibility and control over your project.

Pharos Designer

Programmed and configured using the free Pharos Designer software – available for Windows or Mac OS X – with upload over Ethernet.

Reliable

Hardware and firmware are self-sufficient, so no PC needs to be left on site. Rugged, compact unit designed for 24/7 operation and reliability.

EXT

DIN rail mounting companion product provides PoE power, DMX and DALI outputs, RS232 serial and 8 digital/analog inputs for triggering and integration.

5 Year Warranty

Designed and manufactured in the UK, with quality and reliability our top priority.

Certifications

CE compliant, $\ensuremath{\mathsf{ETL/cETL}}$ listed, and California Title 20/24 compliant.



pharoscontrols.com 1/2



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Туре

4



Supported Fixtures

LEDs	LEDs in any colour configuration (RGB, RGBW, 8-bit, 16-bit, tuneable white)
Automated	Moving heads, yokes or scanners
Generic	Downlights, spotlights, uplights, etc. via controllable dimmers, relays or ballasts
Fountain Jets	Fountain jets for fountain animation or other animatronics
Fixture Library	Pharos offers a cloud library with over 13,000 fixture profiles, for easy download of your luminaires

Output

sACN Art-Net	USITT E1.31 (with per fixture priority) ArtNet, ArtNet II and ArtNet III (configurable broadcast override)
KINET	KiNET V1 (DMX out) and V2 (Port out); PDS/Data Enabler discovery
Pathport	Pathway Connectivity protocol
DMX512	Via EXT or second port on LPC 1
RDM	Via EXT or EDN, supports discovery and addressing via Designer software
DALI	Via EXT or RIO D (supplied separately)
Scalable	Synchronises with up to 40 Pharos Controllers over network
Simultaneous	Multiple protocols can be in operation simultaneously. Limited by patched channels, not universes used
EDN	Can natively integrate with and output DMX through the ports of the EDN (Ethernet Data Node, supplied separately)

Triggering & Integration

Startup	Commences playback automatically on receiving power
Touchscreen	Buttons, sliders, colour picker, etc
Clock	Battery-backed real-time clock for calendar and time-based triggers
Astronomical	Sunrise/Sunset/Twilight and Lunar phases
Temperature	Trigger on changes or entering a range
Ethernet	UDP, TCP, Multicast; send/receive any Ethernet message
eDMX	sACN or Art-Net
DALI	Trigger on any message, via EXT or RIO D
Serial Data	RS232 via EXT; RS232 or RS485 via RIO; send/receive free
	syntax in ASCII, HEX or decimal
MIDI	MIDI Notes, SysEx or Timecode
Timecode	Linear Timecode via RIO A (SMPTE, Film, EBU, NTSC)
Audio Level	Stereo 30-band spectrum analysis via RIO A
Inputs	Contact closure, active low, active high or 0-24V analog level via
	EXT or RIOs
Outputs	Isolated relay outputs (48V 250mA) via RIOs
Web Interface	Built-in or custom designed
Wall Stations	Integrate with BPS, TPS or TPC
Conditions	Full conditional logic support
Scripting	Lua scripting for total flexibility
Scalable	Supports Pharos Remote Devices
IO Modules	Supports our extensive IO Module library for easy integration

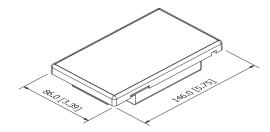
Interfaces

Ethernet Touchscreen	RJ45 socket for 10/100Base-TX Ethernet with Link/Data LEDs; Static IP or DHCP; Dual IP address for eDMX 4.3" capacitive touch; 480×272 24bpp; 340 cd/m2; magnetic
rouchscreen	overlay
IR Sensor	Learning IR sensor for remote control
Temperature	Built-in ambient temperature sensor

Specifications

туре

Certifications Power Data Storage	CE compliant, ETL/cETL listed PoE (IEEE802.3af, Class 2) 4W typical Removable SD Card (supplied)
Temperature	0°C to 50°C (32°F to 122°F)
Humidity	10-50% relative, non-condensing
Ingress	IP40
Physical	Wall mounted, partly recessed in UK 2- gang 35mm or custom US 2.5" backbox (supplied separately) 0.25 kg (0.55 lbs)
Shipping	20 x 15 x 12 cm (8" x 6" x 5")
	0.6 kg (1.3 lbs)
Recovery	Hardware watchdog and recessed reset button
Warranty	5 years



Ord	er Code & Variants
TPC BB	Touch Panel Controller Black-on-Black (512 channels eDMX)*
TPC CC	Touch Panel Controller Cream-on-Cream (512 channels eDMX)
TPC WW	Touch Panel Controller White-on-White
	(512 channels eDMX)
TPC FBB	Flush back box
TPC SBB	Surface back box
EXT	Extension for TPC connectivity (DMX,
	DALI, IO, serial, mains-powered)
	* TPC BB is default colour and shipped as
	standard
	Colour Information
Cream	Bayblend T45 (UL94 HB) RAL 9001 cream
Signal White	Bayblend T45 (UL94 HB) RAL 9003 signal white
Jet Black	Bayblend T45 (UL94 HB) RAL 9005 jet black







Туре

5

TPC Extension

Overview

The Pharos EXT is an extension for the Pharos TPC and together they form a standalone, mainspowered lighting controller with versatile output and show control options. The TPC is a powerful lighting controller with Ethernet-based output and integration options. However, many DMX and DALI installations don't need the added complexity of network infrastructure. The EXT provides local DMX and DALI output for the TPC, as well as power and other hardware interfaces.

$\begin{array}{c c} \bullet & \bullet & \bullet & \bullet \\ \hline \bullet & 8 & \bullet & 7 \end{array}$			▲ ▲	3 🕹	▲ ▲ ▲ 2 ÷ 1	R		Lnk 00TX PoE
 TPC active Ethernet Serial 	_	_	_	_			 	
 Inputs DALI power DALI data DMX 								
								•
Output	וסר							Reset EXT

Features



Extend

The EXT is an optional extension for a single Pharos TPC. Together they can function as a standalone control system, or scale with other Pharos devices over a network. The EXT supplies power and data to the TPC via a single cable, and provides physical interfaces including both DMX and DALI.



Pharos Trigger

Timing is everything. Whatever the stimulus, Pharos Trigger can handle it. You can control your lighting with responsive, reactive programming. Pharos Trigger is a rules engine that uses conditional logic and a broad range of interfaces and protocols. Send and receive any command, to and from any system. Conditional logic is supported, along with a powerful built-in scripting language for unlimited flexibility.



DALI Control

Control up to 64 DALI devices from the EXT, with support for commissioning with DALI discovery and configuration commands. Pharos Designer includes a convenient drag-and-drop interface for DALI patching and timeline programming. DALI emergency ballasts are also supported with the ability to schedule automatic Function and Duration tests, automatic querying for battery level and lamp hours, and a full test result and error reporting web page.

Flexible Inputs

Each input is individually configurable in one of three modes. As a Contact Closure an external volt-free switch may be connected across the input. As a Digital Input an external voltage source (up to 24V) can be connected across the input and thresholds for 'high' and 'low' triggering can be set. As an Analog Input a variable external voltage can be measured within a configurable range.

Serial Data

The EXT has an RS232 serial port, whose data rate and format settings (baud, parity, stop bits, etc.) are configurable in software.

Pharos Designer

Programmed and configured using the free Pharos Designer software – available for Windows or Mac OS X – with upload over Ethernet or USB.

Installer Friendly

Made for permanent installation, with installer-friendly 0.200" (5.08mm) plug-in rising clamp terminals, a rugged, compact enclosure, and easy DIN rail mounting.

Firmware

Microprocessor-based system supports firmware updates via the network from Designer software or the web interface.

5 Year Warranty

Designed and manufactured in the UK, with quality and reliability our top priority.

Certifications

CE compliant, $\mathsf{ETL}/\mathsf{cETL}$ listed, and California Title 20/24 compliant.







Capabilities

Contact Closure	Connect an external volt-free switch between input and ground (internal 2.2k pull-up to 5V)	
Digital In	Connect an external voltage source between input and ground (24V maximum; internal 2MOhm pull-down to 0V); software- configurable low/high threshold	
Analog In	Connect an external voltage source between input and ground (24V maximum); software-configurable range	
Serial Data	RS232; configurable port; send/receive free syntax in ASCII, HEX or decimal	
DALI Master	Control for up to 64 DALI devices; DALI discovery and configuration commands	
DALI Slave	Use DALI messages from other systems or wall panels as triggers in Pharos	
Emergency Lighting		
	Emergency Lighting Schedule automatic Function and Duration tests; automatic querying for battery level and lamp hours; test result and error reporting web page	

Bus Power Detection

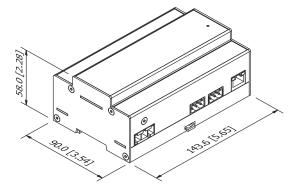
A separate DALI bus power supply is required – but the EXT can detect and report bus power errors

Interfaces

TPC PoE	RJ45 socket with Link/Data LEDs for direct connection to TPC only (100m max distance)
Ethernet	RJ45 socket for 10/100Base-TX Ethernet with Link/Data LEDs; Fixed IP or DHCP; Power-over-Ethernet (PoE)
DMX512	Isolated DMX port, RDM compatible *
DALI	Master (up to 64 devices) or Slave *
Serial	RS232 *
Inputs	Individually selectable operating mode for contact closure, digital or analog input (24V maximum) * * Install-friendly 0.200" (5.08mm) plug in rising clamp connectors (included)

Specifications

Certifications Power	CE compliant, ETL/cETL listed Mains-powered; 100-240VAC / 50-60Hz / 0.1A (10W typical)
Required	Pharos TPC
Temperature	0°C to 50°C (32°F to 122°F)
Humidity	10-50% relative, non-condensing
Ingress	IP40
Physical	8 unit wide DIN rail mounting enclosure (DIN43880 / EN60715 (35/7.5 rail)) 0.5 kg (1.1 lbs)
Shipping	20 x 15 x 12 cm (8" x 6" x 5") 0.7 kg (1.6 lbs)
Recovery	Hardware watchdog and recessed reset button
Warranty	5 years



Order Code & Variants

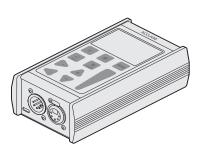
EXT

Extension for TPC connectivity (DMX, DALI, IO, serial, mains-powered)

Pharos TPC required

	Project 21-12877-5 Date 7/26/2021	Catalog Number	Туре
	Dynamic Lighting Showcase	XMT-350	6
sixteen5hundred			U
	Submitted By	Notes	
	16500, INC		





XMT-350[™]

Powered by +SWISSON

The **XMT-350** is a powerful DMX / RDM measurement and test tool. It allows for RDM addressing and monitoring of Acclaim Lighting (and 3rd party) products that have RDM capability, and can test all elements of the DMX data signal to ensure proper system operation. It includes a 9V battery for portable operation, micro-USB option, and hardwire cable adapter for non-XLR applications.

SPECIE	ICAT	IONS
--------	-------------	------

Received DMX Channels	512
Transmitted DMX Channels	512
Refresh Rates	5, 10, 15, 20, 25, 30, 35, 44 frames per second
Display	LCD, 128 x 64 pixels
DMX In Port	Neutrik 5-pin male connector
DMX Out Port	Neutrik 5-pin female connector
Included DMX Adapters	5 pin to 3 pin turnarounds, Hardwire adapter to 5 pin male
DMX Ports Electrical Standard	ANSI E1.11 / ANSI E1.20
USB Port	Micro USB, Type B, Used for direct power or firmware updated, cable not included
On-board SSD Memory	16MB
On-board SSD Memory Included Battery	16MB 9V, Included in the box
Included Battery	9V, Included in the box
Included Battery Cable Tester	9V, Included in the box 5 pin, open circuit, wrong wiring
Included Battery Cable Tester Ambient Operating Temperature	9V, Included in the box 5 pin, open circuit, wrong wiring 32° F to 113° F (0° C to 45° C)
Included Battery Cable Tester Ambient Operating Temperature Re-charge Options	9V, Included in the box 5 pin, open circuit, wrong wiring 32° F to 113° F (0° C to 45° C) Rechargeable 9V batteries are allowed, but not provided or charged by the XMT-350
Included Battery Cable Tester Ambient Operating Temperature Re-charge Options Warranty	9V, Included in the box 5 pin, open circuit, wrong wiring 32° F to 113° F (0° C to 45° C) Rechargeable 9V batteries are allowed, but not provided or charged by the XMT-350 2 Years, Limited

sixteen5hundred	Project 21-12877-5 Date 7/26/2021 Dynamic Lighting Showcase	Catalog Number XMT-350	Type 6
	Submitted By 16500, INC	Notes	U

XMT-350[™] Powered by **+SWISSON**

ACCLAIM

ORDER CODE



Addressing / RDM Compatible with:

AL Cove DMX AL Driver 800 AL Driver 400 Pixel Graze AL Graze DC DMX AL Graze AC Dyna Graze HO EXT DMX Dyna Accent Quad Eye AL Dot





Туре

7



The **Aria Wireless DMX system** is a compact, local, outdoor rated wireless DMX system. The Aria transceiver can act as either the sending or receiving point, and you can select up to 15 channels on the 2.4 GHz band. The internal wireless radio features both automatic networking and signal routing optimization to ensure the best possible reception of DMX data. A 5dB, omni-directional antenna is included, which provides transmission up to 2600' line of sight and 300' between obstructions and walls.

SPECIFICATIONS

Wireless Protocol	2.4 GHz, IEEE 802.15.4, 15 selectable channels
Estimated Transmission Distance	2600' (792m) line of sight, 300' (91m) between obstructions and walls
Data Encryption	AES 128-bit
DMX Universes	One per transceiver, maximum of 8 simultaneously
Max number of transceivers	Up to 250 (limited to ensure optimum data transmission)
Included Antenna	5dB, includes direct attachment adapter and 9' extension cable
Mounting	Wall mountable via screw holes on both the transceiver and antenna mount
Power Consumption	3W
Operating Voltage	100-240VAC, 277VAC - 50/60Hz
Display Features	Auto lockout and display blackout
Finish	Gray
Housing Material	Die cast aluminum
Ambient Operating Temperature	-40°F to 122°F (-40°C to 50°C)
IP Rating	IP66, Wet Location (does not include feed ends - install in an enclosure)
Wiring	3.28' (1m) Attached AC power feed cable and DMX in /out cable included
Warranty	5 Years Limited
Weight	3.96 lbs (1.8 kg)
Dimensions	W 9.1″ x H 6.2″ x L 2.2′ (231.6 x 157.7 x 55mm)
Certifications	CE ROHS

Catalog Number ARIA WIRELESS

Notes



Туре

7

ORDER CODES

*Indicates Special Order



ARIA WDS

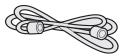
Direct connection with: Dyna Drum HO

Dyna Drum SO Dyna Drum EO Dyna Accent Dyna Accent Mini UDM-W

INCLUDED COMPONENTS



Type N Male to Male Adapter Connects antenna directly to Aria without using the extension cable

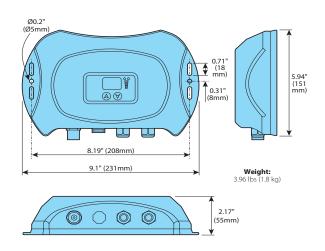


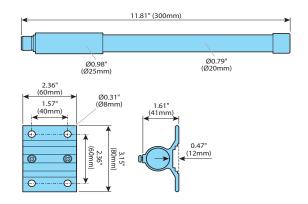
Type N Female Connector

5 dB antenna

9' (2.74m) Antenna Extension Cable & Bracket To remotely mount the antenna

DIMENSIONS







ACCLAIM

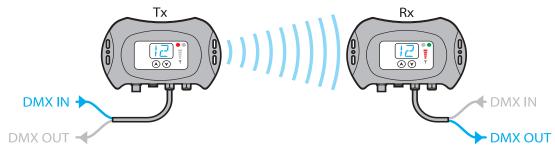
Туре

7

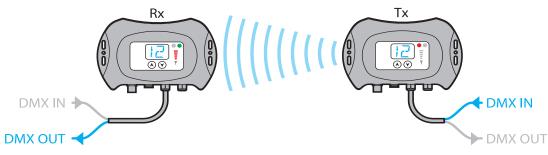
SYSTEM LAYOUT

Consult user guide for additional details

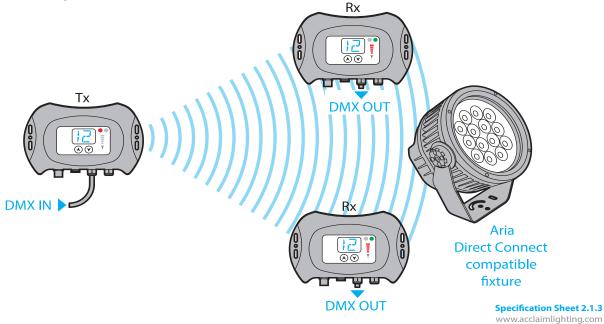
Aria units can operate either as a transmitter or as a receiver - although not at the same time:



No configuration changes are required to change between operation as a transmitter or receiver; the detection of a valid DMX input will automatically prompt an Aria unit to become a transmitter.



Up to 250 Aria units (or Aria Direct Connect compatible lighting fixtures) can act as receivers from a single Aria transmitter:



sixteen <mark>5</mark> hundred	Dynamic Lighting Showcase	Catalog Number RDS 6	^{Туре}
	Submitted By 16500, INC	Notes	

RDS 6

ACCLAIM



The **RDS 6** is a RDM/DMX splitter and optimizer. It features one RDM/DMX input and six outputs, allowing for flexible configuration of your RDM/DMX signal. Each port is electrically isolated to ensure you get the maximum total run of 3,900' for each signal line.

specifications	
Operating Voltage	100-240VAC, 50/60Hz
RDM / DMX Inputs	1
RDM / DMX Outputs	6
RDM / DMX Thru Link	1
Protocols	RDM & DMX-512
Power Consumption	0.12A, 14.4W at 120VAC
Finish	Black
Housing Material	Sheet metal
IP Rating	IP20, Dry location
Operating Temperature	14°F to 122°F (-10°C to 50°C)
Fixture Connectors	3 pin terminal blocks for RDM / DMX, Bare wire 3 conductor for AC input
Warranty	3 Years
Weight	1.25 lbs (0.57 kg)
Dimensions	W 4.92″ x H 1.57″ x L 5.27″ (125 x 40 x 134mm)
Certifications	

Specifications

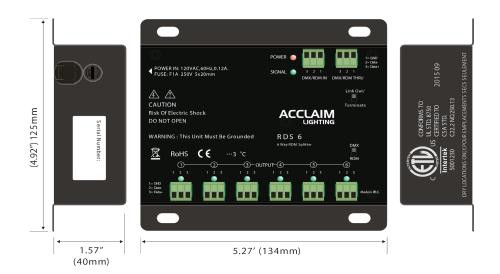
Order Code

sixteen5hundred	Dynamic Lighting Showcase	Catalog Number RDS 6 Notes	Туре 8
	Submitted By	Notes	
	16500, INC		

RDS 6

ACCLAIM

Dimensions



OVERVIEW

Fresco is an integrated touchscreen lighting control solution for dynamic spaces such as hotel ballrooms, conference rooms, museums, retail stores, houses of worship and restaurants. Fresco's thin profile and clean design enhances many commercial settings. Its glass-to-the-edge refinement and aluminum frame are a robust and modern improvement to architectural lighting control. Fresco delivers seamless control of traditional line-voltage dimming, switching, 0-10 V, DALI, nLight® and DMX for RGB and tunable white fixtures.

FEATURES

- On screen lighting design and setup, no computer required
- Lighting Control: forward and reverse phase dimming, 0-10 V, DMX (RGB/Tunable White), nLight[®] enabled luminaires, nLight power packs, and DALI
- 36 individual channels and scenes to control lighting intensity, color and color temperature
- 65,000 zones per Fresco network
- Integral astronomic timeclock and on screen scheduling
- Direct DMX512 fixture control for single universe (optional)
- Automatic wake-up with proximity sensor
- Ethernet connection for remote configuration and control
- Integral Bluetooth[®] radio for wireless App control
- Partition status control for up to 24 rooms (Roomlink)
- Digital motion sensor, daylight harvesting, RS-232, contact dosure and wallstation input from nLight devices
- Compatible with Fresco LMP dimming and switching cabinets
- Shade control integration capable (Lutron QS and MechoShade IQ)
- All device settings are stored on-board in non-volatile memory

SecurityControls.



FCS Architectural Lighting Control



Fresco Greeting Screen (7" diagonal viewing area)



Fresco Homescreen

Warranty

Two-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

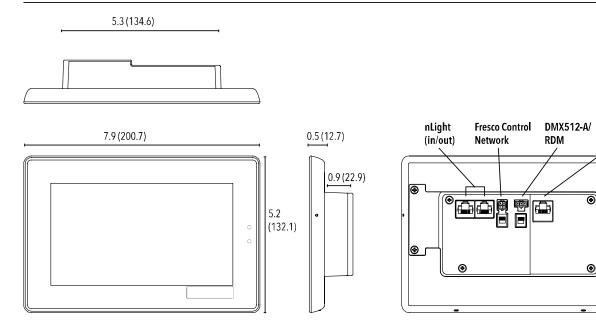
Note: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

ORDERING INFORMATION

FCS	FCS Example: FCS 7TSN X DBL						
FCS		7TSN					
Series		Model		Options		Finish	
FCS	Fresco Control System	7TSN	7" touchscreen with nLight port	[blank] X	nLight only DMX/RDM control	DBL DWH DNA	Black White Natural Aluminum

	Project 21-12877-5 Date 7/26/2021	Catalog Number	Туре
_		FCS 7TSN X DBL	15
sixteen5hundred			13
	Submitted By	Notes	
	16500, INC		

DIMENSIONS



Dimensions: in (mm)

SPECIFICATIONS

Electrical

Power: 6W max @ 24 VDC Class 2 Input (Class 2 power supply provided with Fresco station)

Mechanical

- Width: 7.9 in (200 mm)
- Height: 5.3 in (135 mm)
- Depth: 0.5 in (13 mm)
- Viewable Area: 7.0 in (178 mm) diagonal
- Weight: 2.5 lbs (1.1 kg)

Installation

- Enclosure: 3 gang back box
- Fresco steel mounting ring provided with all required hardware
- Remote power supply included

Environment

- Ambient: 15 to 105 °F (-10 to 40 C)
- Storage: -10 to 145 °F (-20 to 65 C)
- Relative Humidity: 90% non-condensing
- Designed for permanent interior installation

Standards

- FCC Part 15
- IEC61000-4-2, +/-16kV air discharge
- ANSI E1.11-2008 DMX, ANSI E1.20-2006 RDM
- IEEE 802.15 Bluetooth
- IEEE 802.3 Ethernet
- RoHS compliant

Performance

- Capacitive LCD backlit touchscreen
- Multi-touch control
- Proximity sensor wake-up
- 10 year battery backup for astronomic clock
- nLight link for 128 nLight devices
- One universe of DMX-512A/RDM (512 channels)
- Screen lockout pass code
- Adjustable backlight settings
- Full alpha-numeric scene and zone naming

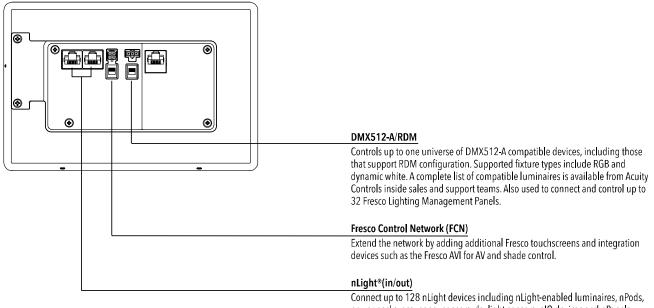
Legal

- US Patent Nos. 6,118,230, D729,793, D729,797
- Canada CA 154120

Ethernet

	Dynamic Lighting Showcase	Catalog Number FCS 7TSN X DBL	^{Type} 15
-		Notes	

SYSTEM CAPABILITY



Connect up to 128 nLight devices including nLight-enabled luminaires, nPods, power packs, occupancy sensors, daylight sensors, nIO devices and nPanels. Two nLight ports each provide 40mA power and communication. Fresco directly configures and manages the nLight devices and does not support nGWY2 (Gateway), nBRG (Bridge), and SensorView™ Software.

SYSTEM NOTES

- Fresco controls 1 universe of DMX/RDM devices
- Fresco controls 1 zone of nLight (128 devices)
- Fresco touchscreens are connected via the Fresco Control Network
- Fresco Lighting Management Panels use the DMX network for communication

DMX512-A/RDM

All DMX wiring must follow the DMX512-A/RDM standard (ANSI E1.1). It must be daisy chained and terminated per the standard.

nLight®

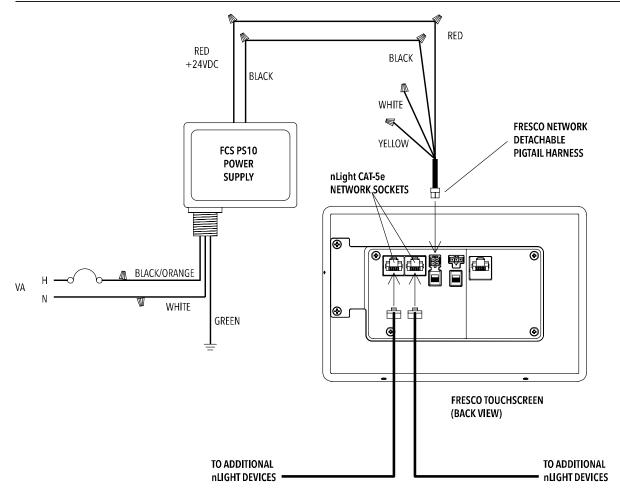
All nLight devices are connected via CAT-5e wiring and must be daisy chained following standard nLight installation methods.

Fresco Control Network (FCN)

RS-485 network with 2 power and a twisted and shielded data pair. Connecting all Fresco touchscreens, dimming and switching cabinets and other network devices, FCN must be daisy chained and terminated

Dynamic Lighting Showcase	Catalog Number FCS 7TSN X DBL	^{Type} 15
	Notes	

WIRING DETAILS - 24VDC and nLight Network

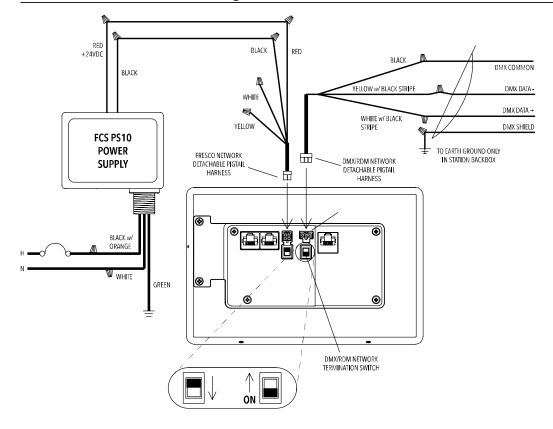


WIRING NOTES

- Fresco Requires +24VDC, 6W max. Use accessory power supply provided with Fresco. Each Fresco touchscreen requires a dedicated power supply.
- 2 nLight ports support daisy chaining, Fresco may be located in any position on the nLight link for proper operation.
- When connecting additional Fresco network devices (touchscreens and Fresco AVI) only the white and yellow wires for communication are used.

Dynamic Lighting Showcase	Catalog Number FCS 7TSN X DBL	^{Type} 15
	Notes	

WIRING DETAILS - 24VDC and nLight Network



WIRING NOTES

- Fresco Requires +24VDC, 6W max. Use accessory power supply provided with Fresco. Each Fresco touchscreen requires a dedicated power supply.
- 2 nLight ports support daisy chaining, Fresco may be located in any position on the nLight link for proper operation.

DMX512-A/RDM WIRING

- Connects to the provided plug in 3-position harness.
- When connecting additional Fresco network devices (touchscreens and Fresco AVI) only the white and yellow wires for communication are used.
- Color & signals:

Black: Common Yellow with black stripe: DMX Data -White with black stripe: DMX Data +

DMX/RDM PIN OUT WITH CAT-5/6

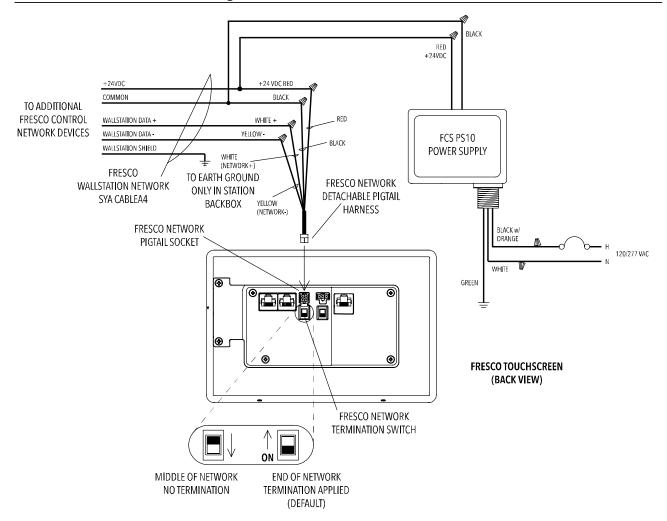
Pin#	Wire Color	Purpose
1	white/orange	Data +
2	orange	Data -
3	white/green	Data + (pair 2)
4	blue	Not assigned
5	white/blue	Not assigned
6	green	Data - (pair 2)
7	white/brown	Common
8	brown	Common (pair 2)

DMX/RDM PIN OUT WITH XLR

XLR Pin#	Purpose
1	Common
2	Data -
3	Data +
4	Data - (pair 2)
5	Data + (pair 2)

	Catalog Number FCS 7TSN X DBL	^{Type} 15
Submitted By 16500, INC	Notes	

WIRING DETAILS - 24VDC and nLight Network



WIRING NOTES

- Fresco Requires + 24VDC, 6W max. Use accessory power supply provided with Fresco. Each Fresco touchscreen requires a dedicated power supply.
- 2 nLight ports support daisy chaining, Fresco may be located in any position on the nLight link for proper operation.
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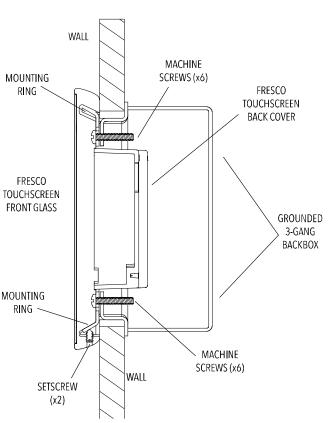
Fresco Control Network (FCN) WIRING

- Connects to the provided plug in 4-position harness.
- Color & signals:
 - Red: +24 VDC Black: Common Yellow: Data -White: Data +

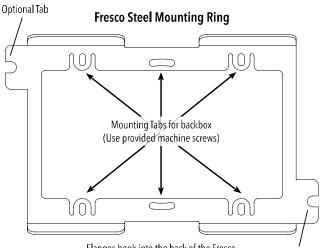
Dynamic Lighting Showcase	Catalog Number FCS 7TSN X DBL	^{Type} 15
	Notes	

FRESCO INSTALLATION

- 1. Complete all electrical installations and finish installing a 3-gang backbox
- 2. Install the Fresco galvanized steel mounting ring on the 3-gang backbox using hardware provided (6 machine screws). Mounting ring is provided with the Fresco Touchscreen
- 3. Optional: if the box is not flush to the finished wall surface use two drywall screws (not provided) on tabs to pull backbox forward
- 4. Connect all wiring harness(es) and CAT-5e cables to the back of Fresco Touchscreen
- 5. Align and hang Fresco station on the top of the mounting ring
- 6. Slightly rotate the Fresco station upwards, then rotate the station towards the wall and into the backbox.
- 7. The Fresco station will be properly located when it is flush to the wall
- 8. Tighten the 2 threaded set screws on the bottom of the Fresco station using a $1/16^{\prime\prime}$ allen key (provided)



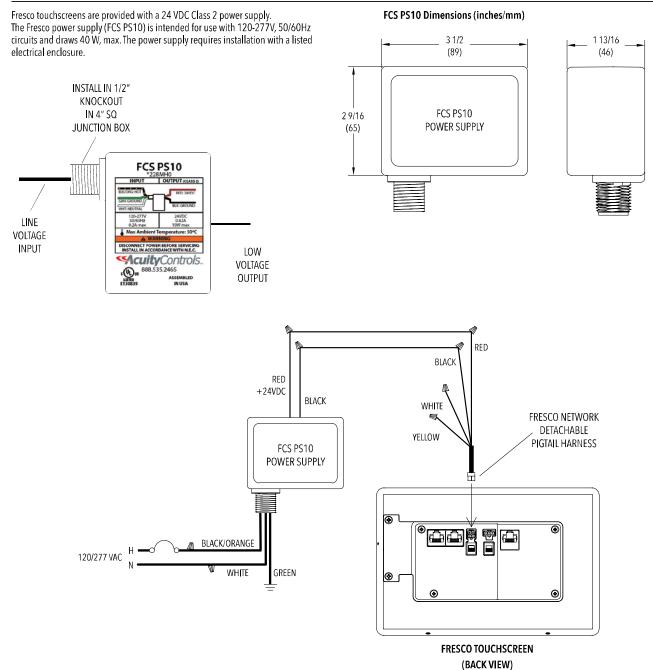
Cross section view of a properly installed Fresco Station



Flanges hook into the back of the Fresco Touchscreen (2 on top, 2 on bottom) Optional Tab

	Dynamic Lighting Showcase	Catalog Number FCS 7TSN X DBL	^{Type} 15
<u> </u>	Submitted By 16500, INC	Notes	

FRESCO INSTALLATION



WIRING NOTES

- 1. Mount through $\frac{1}{2}$ " KO in a 4" square junction box. Secure with lock nut.
- 2. Connect line voltage wires within junction box (120 or 277VAC only).
- 3. Connect the Class 2 low voltage 24VDC wires to the Fresco station's pigtail harness red and black wires.

sixteen <mark>5</mark> hundrec	Dynamic Lighting Showcase	Catalog Number DUALDRIVE - TW Notes	^{Type} 16
eldoLED your product our drive		Specification Sub DUALdrive 56	

DUALdrive

DUALdrive is perfect for dynamic white lighting applications or for luminaires that combine task and ambient lighting. DUALdrive excels in configurability and low dimming - giving you every shade of white! Symbiosis ensures the LED driver works seamlessly together with LED modules, controls and intelligent luminaire elements.

Product offering



DUALdrive 561/S

DUALdrive 561/S	
Part number P/N	DL0561S1
Product description	DUALdrive AC, 50W, 0-10V, 2 control channels, constant current, 2x 55V outputs, square metal, side feed
Features & benefits	
Natural dimming	Dim to dark, smooth brightness changes, excellent flicker performance, adaptable dimming curves, configurable minimum dimming level
LightShape	Tunable White: colour temperature and intensity control
Symbiosis	Seamless interoperability with LED modules, controls and in-luminaire intelligent devices
LEDcode	Configurable design to work with most constant current LED modules and arrays, while providing a connection point to integrated peripheral controls
Programmable	Fine-tune your driver for any application
Performance	Universal input voltage range, low inrush current and total harmonic distortion (THD), high power factor and efficiency
Camera compatibility	Hybrid HydraDrive technology is proven to work in TV studios and security camera environments

Project name:	Contact details:
Project number:	
LED driver order number:	



	sixteen5hundred	Dynamic Lighting Showcase	Catalog Number DUALDRIVE - TW Notes	^{Type} 16
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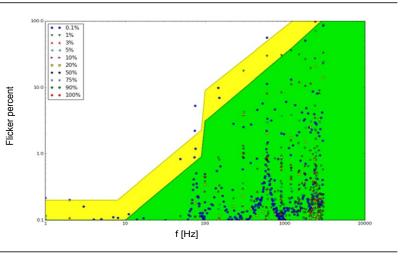
Specification Submittal

DUALdrive 561/S

Typical flicker performance

Typical flicker performance

Typical flicker percent as a function of frequency, measured across the dimming range. The results are overlaid with the low-risk (yellow) and no observable effect (green) levels as defined in IEEE P1789.



Electrical specifications

Driver type	constant current
Number of LED outputs	2 (UL Class 2)
Maximum LED output power	50W
Programmable LED output current range	150 - 1400mA
LED output type	Programmable in 1mA increments within specified current range
LED output voltage range	2 - 55V
Nominal input voltage range AC	120 - 277V (UL), 120 - 250V (CE)
Control protocol	0-10V
	LEDcode
Control channels	2

Certifications



Warranty

Warranty period

General Terms and Conditions

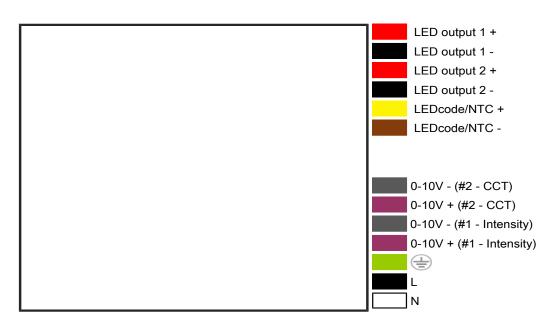
		Catalog Number DUALDRIVE - TW	^{Type} 16
	Submitted By 16500, INC	Notes	

Specification Submittal

DUALdrive 561/S

Dimensions, weight, packaging		
Length (L)	typical: 130.4 mm / 5.13 in	
Width (W)	typical: 76.5 mm / 3.01 in	
Height (H)	typical: 30 mm / 1.18 in	
Weight	305 g	
Products per box	45 pcs	

Connector layout



	Dynamic Lighting Showcase	Catalog Number DUALDRIVE - TW	^{Type} 16
teen <mark>5</mark> hundrec	Submitted By 16500, INC	Notes	
	1		
eldoLl	ED		pecification Submittal
your	product <i>our drive</i>	DOA	
Order number c	onfigurator		
Standard			
		JU.Umin Minimum	
17/1	current curve	dimming level	
LightShape			~~
0000000	<u>) 0000ma TMH (</u>	<u> </u>	<u>00k</u>
P/N	LED output LightShape current control type	Dimming LED output 1 LED output 2 Gamu curve current current	ut CCT
Gamut lumen output	CCT Flux Maximum F control optimization luminous curve method flux		
P/N	CCT Flux Maximum F control optimization luminous curve method flux	ED driver part number.	
P/N LED output current,	CCT Flux Maximum F control optimization luminous curve method flux LE	ED driver part number. nter value in 1mA increments, e.g. "811" for 811mA	
P/N	CCT Flux Maximum F control optimization luminous flux LE Standard Er LightShape Ou 8	ED driver part number.	"LED output 2" blank.
P/N LED output current,	CCT Flux Maximum F control optimization luminous flux LE Standard Er LightShape Ou sp	ED driver part number. hter value in 1mA increments, e.g. "811" for 811mA utput current identical for all outputs? Enter value in 1m, 11" for 811mA and leave the fields "LED output 1" and ' utput current different per output? Enter "MCUR" in LED	"LED output 2" blank.
P/N LED output current, LED output current,	CCT Flux Maximum F control optimization luminous flux LE Standard Er LightShape Ou sp ype "T	ED driver part number. Inter value in 1mA increments, e.g. "811" for 811mA utput current identical for all outputs? Enter value in 1m/ 11" for 811mA and leave the fields "LED output 1" and ' utput current different per output? Enter "MCUR" in LED precify the differing currents in LED output 1/2. WH" stands for Tunable White OG" for logarithmic (default)	"LED output 2" blank.
output P/N LED output current, LED output current, LightShape control t	CCT Flux Maximum F control optimization luminous flux LE Standard Er LightShape Ou sp ype "T	ED driver part number. hter value in 1mA increments, e.g. "811" for 811mA utput current identical for all outputs? Enter value in 1m/ 11" for 811mA and leave the fields "LED output 1" and ' utput current different per output? Enter "MCUR" in LED pecify the differing currents in LED output 1/2. WH" stands for Tunable White	"LED output 2" blank.
output P/N LED output current, LED output current, LightShape control t	CCT Flux Maximum F control optimization luminous flux LE Standard Er LightShape Ou sp ype "T "L "L	ED driver part number. Inter value in 1mA increments, e.g. "811" for 811mA utput current identical for all outputs? Enter value in 1m/ 11" for 811mA and leave the fields "LED output 1" and ' utput current different per output? Enter "MCUR" in LED pecify the differing currents in LED output 1/2. WH" stands for Tunable White OG" for logarithmic (default) IN" for linear	"LED output 2" blank.
output P/N LED output current, LED output current, LightShape control t	VPP TT	ED driver part number. Inter value in 1mA increments, e.g. "811" for 811mA utput current identical for all outputs? Enter value in 1m/ 11" for 811mA and leave the fields "LED output 1" and ' utput current different per output? Enter "MCUR" in LED becify the differing currents in LED output 1/2. WH" stands for Tunable White OG" for logarithmic (default) IN" for linear iLN" for soft-linear	"LED output 2" blank.) output current and
output P/N LED output current, LED output current, LightShape control t Dimming curve	CCT Flux Maximum F control optimization luminous flux LE Standard Er LightShape Ou ype "T "L svel Le ind	ED driver part number. Anter value in 1mA increments, e.g. "811" for 811mA utput current identical for all outputs? Enter value in 1m/ 11" for 811mA and leave the fields "LED output 1" and ' utput current different per output? Enter "MCUR" in LED pecify the differing currents in LED output 1/2. WH" stands for Tunable White OG" for logarithmic (default) IN" for linear CUN" for soft-linear CQU" for square eave blank for default minimum dimming level of 0.1%. S	"LED output 2" blank.) output current and Specify in 0.1%
output P/N LED output current, LED output current, LightShape control t Dimming curve Minimum dimming leg	CCT Flux Maximum F control optimization luminous F LightShape Ou 8 ype "T "L "Sevel Le "S evel Le ind LightShape Ou 27	ED driver part number. Inter value in 1mA increments, e.g. "811" for 811mA utput current identical for all outputs? Enter value in 1m/ 11" for 811mA and leave the fields "LED output 1" and ' utput current different per output? Enter "MCUR" in LED pecify the differing currents in LED output 1/2. WH" stands for Tunable White OG" for logarithmic (default) IN" for linear LN" for soft-linear QU" for square eave blank for default minimum dimming level of 0.1%. S crements, e.g. "10.5" for 10.5%.	"LED output 2" blank.) output current and Specify in 0.1% YY" where XX is LED itput: 18, 20, 22, 25,
output P/N LED output current, LED output current, LightShape control t Dimming curve Minimum dimming leg	CCT Flux Maximum F control optimization luminous F LightShape Ou "8 LightShape Ou sp ype "T "L "svel Le "S evel Le ind E E E Standard E "S grade "T "L system "L "S system Le "S system Le "S evel Le Ind E E E E E E E E E	ED driver part number. Inter value in 1mA increments, e.g. "811" for 811mA utput current identical for all outputs? Enter value in 1m/ 11" for 811mA and leave the fields "LED output 1" and ' utput current different per output? Enter "MCUR" in LED becify the differing currents in LED output 1/2. WH" stands for Tunable White OG" for logarithmic (default) IN" for linear QU" for square eave blank for default minimum dimming level of 0.1%. So crements, e.g. "10.5" for 10.5%. ghtShape-specific option. Enter the LEDs' CCT as "XX- tiput 1 and YY is LED output 2. Available options per ou 7, 30, 35, 40, 50, 57 and 65. E.g. "18-50" for 1800K on L 000K on LED output 2. Ther the lumen output range for LED output 1 and 2 as "2000"	"LED output 2" blank. 0 output current and Specify in 0.1% YY" where XX is LED tput: 18, 20, 22, 25, .ED output 1 and XX-YY" where XX is
output P/N LED output current, LED output current, LightShape control t Dimming curve Minimum dimming leg Gamut CCT	CCT Flux Maximum F control optimization luminous F LightShape Ou % LightShape Ou % ype "T "L "LightShape U % yvel LE "S evel Le "S evel Le ind Er LightShape U TL "S "S evel Le ind Er LightShape Le TL "S "S evel Le Ind Er LightShape Le Er Le Ind Er Ind Ind	ED driver part number. Inter value in 1mA increments, e.g. "811" for 811mA utput current identical for all outputs? Enter value in 1m/ 11" for 811mA and leave the fields "LED output 1" and ' utput current different per output? Enter "MCUR" in LED pecify the differing currents in LED output 1/2. WH" stands for Tunable White OG" for logarithmic (default) IN" for linear CU" for soft-linear CU" for square eave blank for default minimum dimming level of 0.1%. So crements, e.g. "10.5" for 10.5%. ghtShape-specific option. Enter the LEDs' CCT as "XX-" utput 1 and YY is LED output 2. Available options per ou 7, 30, 35, 40, 50, 57 and 65. E.g. "18-50" for 1800K on LED 000K on LED output 2.	"LED output 2" blank. 0 output current and Specify in 0.1% YY" where XX is LED htput: 18, 20, 22, 25, .ED output 1 and XX-YY" where XX is r output: from "01" for

xteen <mark>5</mark> hundre	Project 21-12877-5 Date 7/26/20 Dynamic Lighting Showcase Submitted By 16500, INC	21	Catalog Number DUALDRIVE - TW Notes	^{Type} 16	
	ED product <i>our drive</i>		Specificati DUALdriv	on Submittal	
Flux optimization m	ethod	required (defa	a consistent luminous flux output over the full CCT rault); enter "MAX" if the luminous flux must be limited are for all outputs combined.	0	
Maximum luminous	flux	1	ation method is set to "MAX", specify the required lur 200lm. If left blank it is constant (default).	nen output,	
Path CCT		the Path CCT output 2. Avai	Path CCT requires the same values as Gamut CCT. values as "XXYY" where XX is LED output 1 and YY lable options per output: 18, 20, 22, 25, 27, 30, 35, 40 or 1800K on LED output 1 and 5000K on LED output	is LED), 50, 57, 65.	

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			Туре
_		SOLODRIVE - WARM DIM	17
sixteen5hundred	, , , , , , , , , , , , , , , , , , , ,		
J		Notes	I
	16500, INC		I



Datasheet

SOLOdrive 20MA-E1Z0A



20W 0-10V 'Dim to Dark' LED Driver

SOLOdrive

LED dimming made beautiful - SOLOdrive offers industry-best Natural Dimming to dark, with any dimmer, in any application. The SOLOdrive works seamlessly with LED modules, controls and intelligent luminaire elements.

Product offering



SOLOdrive 20MA-E1Z0A

Part number (P/N)	SL20MA-E1Z0A1
Product description SOLOdrive, 20W, 0-10V, 1 control channel, constant current, 1x 40V outpoint side feed, long plastic	
SOLOdrive 20MA-E1Z0A	
Part number (P/N)	SL20MA-E1Z0A1-SP
Product description	SOLOdrive, 20W, 0-10V, 1 control channel, constant current, 1x 40V output, side feed, long plastic, single unit packaging



Notes

eldoLED

Datasheet

SOLOdrive 20MA-E1Z0A

Features & benefits	
Natural dimming	Dim to dark, smooth brightness changes, excellent flicker performance, adaptable dimming curves, configurable minimum dimming level
Ceiling cut-out requirements	LED driver fits through ceiling cut-out diameter of 45mm for recessed downlight luminaires
LEDcode	Configurable design to work with most constant current LED modules and arrays, while providing a connection point to integrated peripheral controls
Programmable	Fine-tune your driver for any application
Performance	Low inrush current and total harmonic distortion (THD), high power factor and efficiency
Camera compatibility	Hybrid HydraDrive technology is proven to work in TV studios and security camera environments

Programming tools

Programming interface	TOOLbox pro (TLU20504)
Programming cable set	TOOLbox pro to LED driver, programming cable, 5pcs (TLC03051)
Programming Hand-held, Touch-and-Go	PJ0035HH1
Programming jig	PJ0200A1
Programming software	FluxTool

Warranty

Warranty period

General Terms and Conditions

Project 21-12877-5 Dynamic Lighting St Submitted By 16500, INC		Catalog Number SOLODRIVE - WARM DIM Notes	^{Type} 17
eldoLED your product our drive		SOLOdrive 2	Datasheet
Order number configurator			
<u>000000-000000</u> (DOODmA LED output current	OO.Omin I Minimum dimming level	
P/N	LED driver pa	rt number	
LED output current	Enter value in	1mA increments, e.g. "811" for 811mA	
Dimming curve	"LOG" for loga "LIN" for linea "SLN" for soft "SQU" for squ	linear	
Minimum dimming level		or default minimum dimming level of 0.1%. Sp .g. "10.5" for 10.5%.	pecify in 0.1%
Input characteristics			
Nominal input voltage range	220 - 240 VA0 176 - 250 VD0		
Absolute input voltage range	198 - 264 VA	C	
Input frequency range	50 - 60 Hz		
Maximum input current	0.15A @ 230	VAC	
Efficiency at full load	80%		
Power factor at full load	> 0.95		
THD at full load	< 20%		
Maximum inrush current	< 200mA²s @	230 VAC	
	< 200mA ² s @ 2kV differentia 2kV common	al mode (DM)	

	Project 21-12877-5 Date 7/26/2021 Dynamic Lighting Showcase	Catalog Number SOLODRIVE - WARM DIM	^{Type} 17
	Submitted By 16500, INC	Notes	

Datasheet

SOLOdrive 20MA-E1Z0A

Maximum LED output power	20W
Number of LED outputs	1
Programmable LED output current range	150 - 1050mA
ED output type	Programmable in 1mA increments within specified current range
ED output current tolerance	+/- 5% at programmed LED output current
ED output voltage range	2 - 40V
Dperating window	(W) the second s

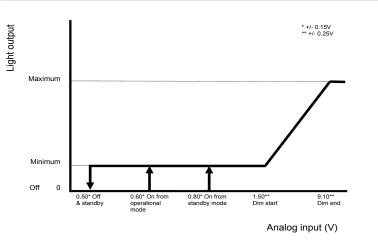
sixteen <mark>5</mark> hundrec	Project 21-12877-5 Date 7/26/2021 Dynamic Lighting Showcase ^{Submitted By} 16500, INC	Catalog Number SOLODRIVE - WARM DIM Notes	^{Type} 17
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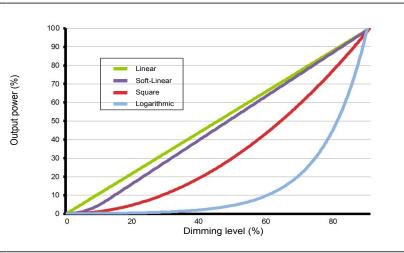
your product | our drive

SOLOdrive 20MA-E1Z0A

Control characteristics		
Control channels	1	
Control protocol	0-10V	
Dimming range	100% - 0.1%	
Dimming curve options	Logarithmic (default) Linear Soft-Linear Square	
Dimming method	Hybrid HydraDrive	
0-10V current draw	0.6mA	
Time delay to standby	<60s	

0-10V dimming chart



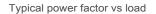




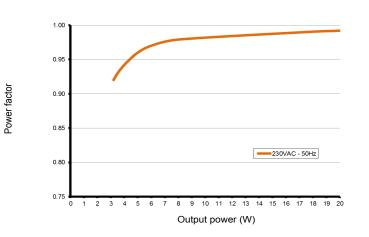
teen5hundred Submitted By 16500, INC	Catalog Number SOLODRIVE - WARM DIM Notes	^{Type}
eldoLED your product our drive	SOLOdrive 20MA	Datasheet
Performance		
Typical efficiency vs load		

10

2 3 4 5 6



Tested with a load of 12 LEDs in series, programmed for 500mA and at 25 °C ambient temperature. The measurements below 20W were performed by dimming the light output.

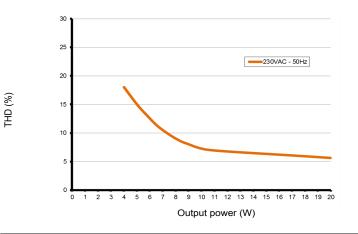


7 8 9 10 11 12 13 14 15 16 17 18 19 20

Output power (W)

Typical THD vs load

Tested with a load of 12 LEDs in series, programmed for 500mA and at 25 °C ambient temperature. The measurements below 20W were performed by dimming the light output.

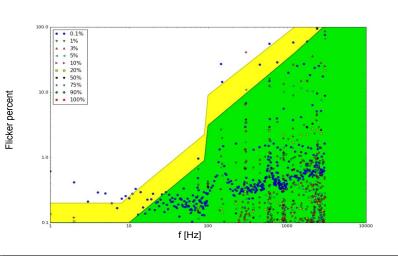


sixteen <mark>5</mark> hundred	Project 21-12877-5 Date 7/26/2021 Dynamic Lighting Showcase Submitted By 16500, INC	Catalog Number SOLODRIVE - WARM DIM Notes	^{Type} 17
eldoL	ED product Lour drive	Datas SOLOdrive 20MA-E1Z	

Typical flicker performance

Typical flicker percent as a function of frequency, measured across the dimming range. The results are overlaid with the low-risk (yellow) and no observable effect (green) levels as defined in IEEE P1789.

your product | our drive



Environmental conditions

Operating ambient temperature (Ta) range	-20 °C to +50 °C	
	for output current ≤ 900mA -20 °C to +43 °C for output current > 900mA	
Maximum operating case temperature (Tc max)	85 °C	
Acoustic noise – steady state	<24dBA (Class A)	
Lifetime	50,000 hours at a maximum case temperature (Tc) of 85 °C	
Tc point location	55,1 Tc point	

Notes

eldoLED

Datasheet

SOLOdrive 20MA-E1Z0A

Thermal	The LED output current is automatically decreased whenever the internal driver temperature exceeds a factory preset temperature. The LED output current is increased once the internal driver temperature drops below the preset temperature threshold. If the internal driver temperature continues to increase,
	despite a decrease in output current, the LED driver will eventually shut down.
LED output short circuit	The LED output current is cut off whenever the LED driver detects a short- circuit. The LED driver will attempt a restart every 400ms after a short-circuit is detected.
LED output open circuit	The LED output is turned off whenever the LED driver detects an open circuit. The LED driver will attempt a restart every 400ms after an open circuit is detected.
LED output overload	The driver monitors the LED output load. Whenever the output load exceeds the maximum output power rating of the LED driver, the output current is sequentially scaled down until the cumulative load drops below the maximum output power rating of the LED driver.
Reverse polarity	The LED driver will not yield any current if the polarity of the load on the LED output is reversed. This situation will not damage the LED driver but may damage the LED load.
LED protection	
Thermal protection LED	An external NTC thermistor, which is placed on a PCB near the LEDs, can be connected to the driver via the LEDcode/NTC terminals. The output current to the LEDs is then decreased by 75% whenever the NTC exceeds a maximum allowable temperature, which is specified by the user in the FluxTool software. The default NTC temperature limit is set to 70 °C.
Thermistor value	47kΩ
Suitable thermistors	Leaded: Vishay, P/N 238164063473 Screw: Vishay, P/N NTCASCWE3473J
	-

sixteen5hundred Submitted By 16500, INC	Catalog Number SOLODRIVE - WARM DIM Notes	^{Type} 17
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Datasheet

SOLOdrive 20MA-E1Z0A

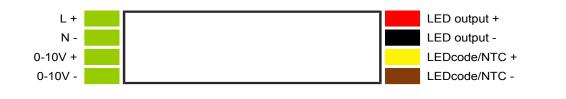
LED driver mechanical details

Height (H) (M) upper view of the second seco	Lenght (L)
Length (L)	typical: 150.5 mm / 5.93 in
	maximum: 151 mm / 5.94 in
Width (W)	typical: 42.1 mm / 1.66 in
	maximum: 42.4 mm / 1.67 in
Height (H)	typical: 27.9 mm / 1.1 in
	maximum: 28.1 mm / 1.11 in
3D files available on product web page	IGS STEP
Weight	100 g

Packaging

Length x Width x Height	579 x 237 x 202 mm / 22.8 x 9.33 x 7.95 in
Weight (including products)	10.5 kg
Products per box	50 pcs

Connector layout



Datasheet

SOLOdrive 20MA-E1Z0A

nput wiring specifications	
Connector type	screw terminals
Connector supplier and series	TE-Connectivity 2-796683
Wire type	solid or stranded copper
Wire core cross section	0.5 - 3mm² / AWG 20 - 12
Wire strip length	9.0mm (11/32in)
Input-cable shape	Round

Output wiring specifications

Connector type	push-in terminals
Connector supplier and series	Wago 250 series
Wire type	solid or stranded copper
Wire core cross section	0.5 - 1.5mm² / AWG 20 – 16
Wire strip length	9.0mm (11/32in)
Output-cable shape	Round
Maximum remote mounting distance of LED load	For independent use: 2 m / 6.5 ft For in-fixture use: AWG 20 (0.52 mm²) - 14 m / 46 ft AWG 19 (0.65 mm²) - 18 m / 59 ft AWG 18 (0.82 mm²) - 22 m / 72 ft AWG 17 (1.04 mm²) - 28 m / 92 ft AWG 16 (1.31 mm²) - 36 m / 118 ft

Automatic circuit breakers (MCB)

Maximum loading	MCB type	B10	B13	B16	C10	C13	C16
	Number of LED drivers	66	86	106	66	86	106

	Dynamic Lighting Showcase	Catalog Number SOLODRIVE - WARM DIM	^{Туре} 17
	Submitted By 16500, INC	Notes	

Datasheet

SOLOdrive 20MA-E1Z0A

ENEC safety	EN 61347-1 EN 61347-2-13 (Emergency lighting)
ENEC performance	EN 62384
Conducted emissions	EN 55015
Radiated emissions	EN 55015
Radio disturbance characteristics	EN 55022
Harmonic current emissions	EN 61000-3-2
Electrostatic discharge	EN 61000-4-2
RFE field susceptibility	EN 61000-4-3
Electrical fast transient	EN 61000-4-4
Surge immunity	EN 61000-4-5
Conducted radio frequency	EN 61000-4-6
Voltage dips	EN 61000-4-11
Electromagnetic immunity	EN 61547
0-10V	IEC/EN 60929 annex E NOTE: From 0.6V to 10V eldoLED LED drivers comply with IEC/EN 60929 annex E. Below 0.6V eldoLED LED drivers comply with ABL 0-10V Design Spec v1.2 enabling standby mode. For detailed dimming characteristics see 0-10V response chart in Control Characteristics.
Restriction of hazardous substances	RoHS3 (Directives 2011/65/EU-2015/863/EU)
SVHC-list substances	REACH Art.33

Certifications



Notes

eldoLED

Datasheet

SOLOdrive 20MA-E1Z0A

Safety	
<u>A</u>	Risk of electrical shock. May result in serious injury or death. Disconnect power before servicing or installing.
<u></u>	The LED driver may only be connected and installed by a qualified electrician. All applicable regulations, legislation, and building codes must be observed. Incorrect installation of the LED driver can cause irreparable damage to the LED driver and the connected LEDs.
	Pay attention when connecting the LEDs: polarity reversal results in no light output and often damages the LEDs.
Ń	LED drivers are designed and intended to operate LED loads only. Powering non-LED loads may push the LED driver outside its specified design limits and is, therefore, not covered by any warranty.
(j)	eldoLED products are designed to meet the performance specifications as outlined at certain operating conditions in the data sheet. It is the responsibility of the fixture manufacturer to test and validate the design and operation of the system under expected and potential use cases, including faults.
(j)	Please observe voltage drop over long cable lengths. Longer cable lengths increase EMI susceptibility.
(j)	Product renderings and dimensional drawings are generic for the housing type. Product label, connector type and quantity may vary.

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sixteen <mark>5</mark> hundrec	Project 21-12877-5 Date 7/26/2021 Dynamic Lighting Showcase ^{Submitted By} 16500, INC	Catalog Number LINEARDRIVE - DMX Notes	^{Type} 18
eldoLED your product our drive		Specification Sub	

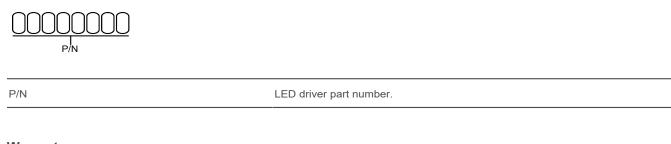
LINEARdrive

LINEARdrive gives you infinite colour control for low-voltage LED applications ranging from single colour for accent and cove lighting all the way up to RGBW for full colour entertainment product solutions. This constant voltage LED driver is DMX/DALI compatible and allows you to create your colour or dynamic show without an external controller. Symbiosis ensures the LED driver works seamlessly together with LED modules, controls and intelligent luminaire elements.

Product offering

I DA Index Viewer Construction Index Viewer Construct	
LINEARdrive 100/M	
Part number (P/N)	LIN100M1
Product description	LINEARdrive AC, 100W, DMX/DALI, UI, 4 control channels, constant voltage, 4x 12/24V outputs, long metal

Order number configurator



Warranty

Warranty period

General Terms and Conditions

Project name:	Contact details:
Project number:	
LED driver order number:	



	Project 21-12877-5 Date 7/26/2021 Dynamic Lighting Showcase	Catalog Number LINEARDRIVE - DMX	^{Туре}
<u> </u>	Submitted By 16500, INC	Notes	

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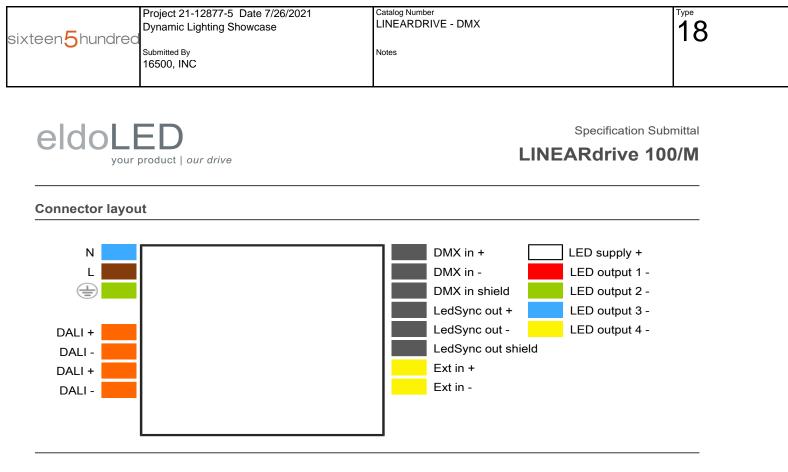
Specification Submittal

LINEARdrive 100/M

Electrical specifications		
Driver type	constant voltage	
Number of LED outputs	4 (UL Class 2)	
Maximum LED output power	100W	
LED output load	RGBW @ 12V: 2.08A	
	RGB @ 12V: 2.76A	
	RGBW @ 24V: 1A	
	RGB @ 24V: 1.33A	
	5A maximum common anode	
	For UL Class 2:	
	RGBW @ 12V: 1.25A per output	
	RGB @ 12V: 1.66A per output	
	RGBW @ 24V: 1A per output	
	RGB @ 24V: 1.33A per output	
LED output voltage	12 - 24V DC	
LED output current	2.8A absolute maximum rating per output	
Nominal input voltage range AC	120 - 250V (ENEC), 120 - 277V (UL)	
Nominal input voltage DC	120 - 275V	
Control protocol	DMX/DALI	
Control channels	4	

Dimensions, weight, packaging

Length (L)	typical: 370 mm / 14.57 in
Width (W)	typical: 41 mm / 1.61 in
Height (H)	typical: 30 mm / 1.18 in
Weight	880 g
Products per box	20 pcs



Certifications



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sixteen5hundrec	Project 21-12877-5 Date 7/26/2021 Dynamic Lighting Showcase ^{Submitted By} 16500, INC	Catalog Number POWERDRIVE - DMX Notes	^{Type} 19
eldoLED your product our drive		Specification POWERdrive 10	

POWERdrive

POWERdrive's dynamic response can be tuned to fit any content - from exceptionally smooth fades in architecture to fast-paced video in entertainment. This constant current LED driver is DMX/RDM compatible, and allows you to create your colour or dynamic show without an external controller. Symbiosis ensures the LED driver works seamlessly together with LED modules, controls and intelligent luminaire elements.

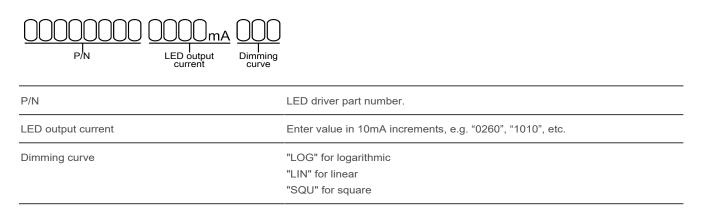
Product offering



POWERdrive 1061/S

Part number P/N	PW1061S1
Product description	POWERdrive AC, 100W, DMX/RDM, 4 control channels, constant current, 4x 57V outputs, square metal

Order number configurator



Warranty

Warranty period	General Terr	ms and Conditions	
Project name:		Contact details:	
Project number:		-	
LED driver order number:		-	

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Notes

eldoLED

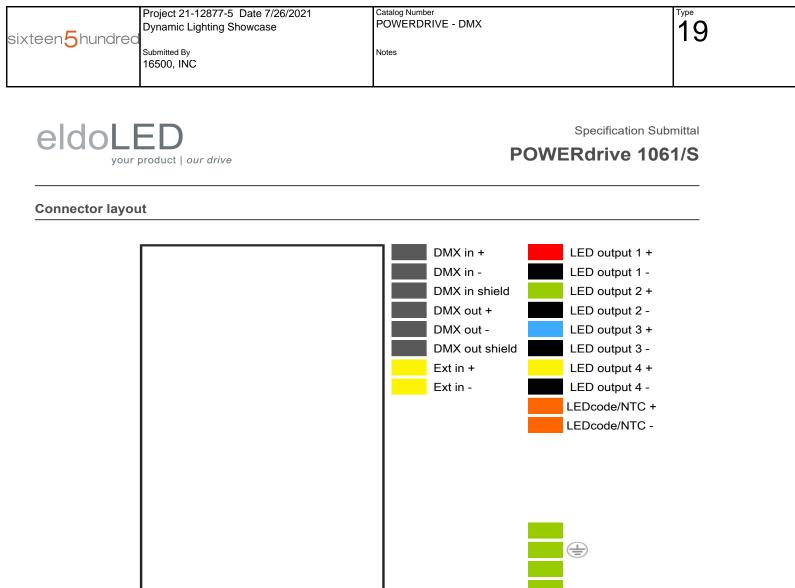
Specification Submittal

POWERdrive 1061/S

Electrical specifications	
Driver type	constant current
Number of LED outputs	4 (UL Class 2)
Maximum LED output power	100W
Programmable LED output current range	200 - 1050mA
LED output type	programmable in 10mA steps via DMX terminal and FluxTool
LED output voltage range	2 - 57V
Nominal input voltage range AC	120 - 250V (ENEC), 120 - 277V (UL)
Nominal input voltage range DC	120 - 275V
Control protocol	DMX/RDM
Control channels	4

Dimensions, weight, packaging

Length (L)	typical: 230 mm / 9.06 in
Width (W)	typical: 80 mm / 3.15 in
Height (H)	typical: 30 mm / 1.18 in
Weight	933.5 g
Products per box	20 pcs



Certifications



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Project 21-12877-5 Date 7/26/2021
Dynamic Lighting Showcase
Submitted By
16500, INC

Notes

35

OVERVIEW

Vignette[™] is a system of modular button and slider wall station inserts that allow you to snapshot four universes of E1.31 sACN or one universe of DMX512. Design wall stations, from single-gang up to six-gang. With both Ethernet or RS485 architectures available, buttons can be Press-and- Hold-To-Record and Press to Play back; sliders can act as a grand master for the Vignette's output or proportionately control user-defined zones with minimum and maximum values for individual channels.

FEATURES

- Attractive decorator-style design in white or black, compatible with DXR or third-party faceplates
- Master/slave inserts available as single or double sliders, or as two or four buttons
- PoE variant works with the DXT Via PoE switches and DXT Ethernet/DMX Gateways
- RS485 variant requires din-rail mounted DXT Vignette Architectural Gateway that includes an Ethernet
 port for configuration and sACN send/receive as well as DMX In and DMX Out. Each Gateway can
 support up to 64 modules divided among four separate daisy-chain buses
- Group stations to mirror each other or work independently
- Works as snapshot record and playback out of the box. Advanced configuration using Pathscape™ on Mac OS or Windows PC
- Buttons have multiple functions including Snapshot replay Non-Dim zones, Record Enable and Take Control
- Sliders can act as Zone control or Grand Master

Warranty

4BT2

4BT4

Two Button Insert

Four Button Insert

Three-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application.

Specifications subject to change without notice.

To test out valid Vignette configurations, try using the Product Configurator: <u>http://productconfigurator.</u> acuitybrandslighting.net/?OpenBehavior=NewWindow&requiresInternetExplorer=false#/productSelection

ORDERING INFORMATION

								Exa	ample (pictured): NSBVN	4GNG 1BT4	2SL2 3SI	2 4SL1 POE WH
Series		Num	per of Ga	angs	Modu	ıle A		Modul	le B	Module	c	
NSBVN	Stand Alone Slider/Button stations	1GN0 2GN0 3GN0 4GN0 5GN0 6GN0	5 Doub 5 Three 6 Four- 6 Five-g	e-gang faceplate le-gang faceplate -gang faceplate gang faceplate ang faceplate ang faceplate	1SL1 1SL2 1BT2 1BT4	Two Two	Slider Master Insert Slider Master Insert Button Master Insert Button Master Insert	2SL1 2SL2 2BT2 2BT4	One Slider Insert Two Slider Insert Two Button Insert Four Button Insert	3SL1 3SL2 3BT2 3BT4	One Slide Two Slide Two Butto Four Butto	n Insert
Module D Module E			Modul	le F	Co	ontrol Interface Type		Color				
4SL1 4SL2	One Slider Insert Two Slider Insert		5SL1 5SL2	One Slider Insert Two Slider Insert		6SL1 6SL2	One Slider Insert Two Slider Insert		OE Power over Ethernet ISB485 NSB RS485 Network		вк WH	Black White

Two Button Insert

Four Button Insert

6BT2

6BT4





Vignette[™] DMX Snapshot and Playback



5BT2

5BT4

Two Button Insert

Four Button Insert

	Dynamic Lighting Showcase	Catalog Number NSBVN 4GNG 1BT4 2SL2 4SL1 POE WH
sixteen5hundred		Notes

ORDERING (continued)

NSBVNM			Example: NSBVNM SL2 POE BK		
Series	Module	Control Interface Type	Color		
NSBVNM Stand Alone Slider/Button stations			BK Black WH White		

NSBI					Example: NSBI SL2 BK	
Series			le	Color		
NSBI	Slider/Button stations to control Fresco Show	SL1 SL2 BT2 BT4	One Slider Insert Two Slider Insert Two Button Insert Four Button Insert	вк WH	Black White	

DXR		Example: DXR FP2 BK
Series	Module	Color
DXR	 FP1 Single-gang faceplate FP2 Double-gang faceplate FP3 Three-gang faceplate FP4 Four-gang faceplate FP5 Five-gang faceplate FP6 Six-gang faceplate 	BK Black WH White

For Fresco DXT modules and assemblies spec sheet please click on the following link: http://www.acuitybrands.com/products/detail/257121/Fresco/Fresco-DXT/Assemblies-for-High-Performance-DMX-Networks/-/media/products/Fresco/257121/document/DXT-Assemblies_pdf.pdf

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	Dynamic Lighting Showcase	Catalog Number NSBVN 4GNG 1BT4 2SL2 4SL1 POE WH	^{Type} 35
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SPECIFICATIONS

- PoE: Class 2 (PoE or 24V DC RS485 over Cat5 or 3 Pair cable)
- 7.5 watts maximum power consumption per station
- Operating Conditions: 32°F-105°F (0°C to 40°C); 10-90% relative humidity, non-condensing

Cabling:

- POE: Standard Cat5/5e/6 Ethernet, 100m max.
- RS485: Cat5/5e/6 Cable, 150m max. or retrofit onto existing 3 Pair Belden 9773 or equivalent, 300m max.

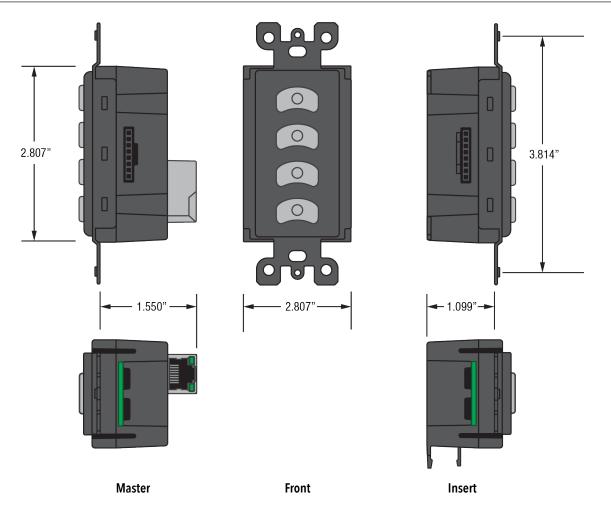
STANDARDS COMPLIANCE

- ANSI E1.11 DMX512-A
- ANSI E1.31 streaming ACN
- IEEE 802.3af Power-over-Ethernet
- RoHS 2002/95/EC

WEIGHTS AND DIMENSIONS

- 0.5 lbs (0.225 kg) [per insert]
- 1.75"W x 1.6"D x 4"H (45mm x 40mm x 102mm) [Master]

DIMENSIONS



sixteen <mark>5</mark> hundred	Dynamic Lighting Showcase	NSBVN 4GNG 1BT4 2SL2 4SL1 POE WH	^{Type} 35
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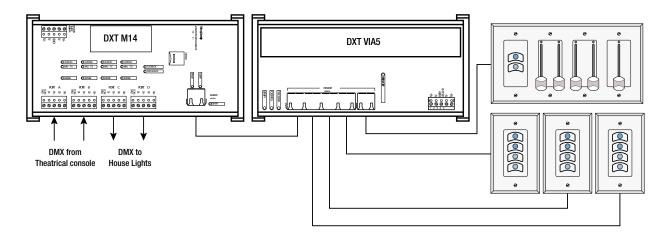
REAR VIEW OF ASSEMBLY



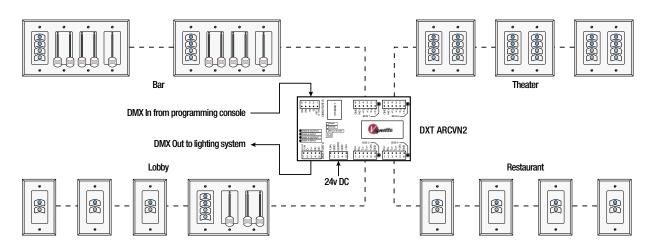
PoE variant shown. Each station must have Cat5 homerun to Ethernet PoE switch.

RS485 variant uses two six- pin headers (compression fit and IDC connectors) to allow multi-drop data buses. RS485 stations must be connected to a DXT NSB Architectural Gateway

PoE APPLICATION RISER



Rs485 APPLICATION RISER



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Notes

N I C O L A U D I E A R C H I T E C T U R A L

STICK-CW4

Smart Touch Sensitive Intelligent Control Keypad



Overview

This DMX controller is aimed at architectural lighting installations requiring an advanced level of programming (color changing effects, specific colors etc). The controller provides a clean and user-friendly panel. Featuring an on/ off button, 6 scene buttons and a color wheel, the controller is ideal for hotels, homes and public environments. With 1024 DMX channels, Wi-Fi for remote network control and scene calendar triggers, the CW4 model features many advanced features. USB programmable from a PC or Mac, up to 36 scenes can be stored within the controller and directly recalled via 6 touch sensitive buttons.

www.nicolaudie.com/stick-cw4.htm

Key Features

- DMX stand alone controller
- Compatible with any DMX fixture or DMX LED driver
- Ready-to-use (pre-loaded with 8 scenes and 170 RGB fixtures)
- Sleek, black glass design which sits 11mm from the wall
- Color palette (can also be used for scene selection)
- 12 touch-sensitive buttons. No mechanical parts
- Touch-sensitive wheel allows for accurate color selection
- Built-in flash memory for storing programs
- Up to 36 dynamic or static scenes
- 1024 DMX channels. Control 340 RGB fixtures
- Clock and calendar with Sunrise/Sunset triggering
- Wi-Fi network communication. Control lighting remotely
- USB connectivity for programming and control
- 8 dry contact trigger ports
- OEM customization of the color palette and logo
- Windows/Mac software to set dynamic colors/effects

Technical Data

5-15V DC 0.6A
DMX512 (x2)
PC, Mac
Black
USB, 8 dry contact ports, open drain ouput (for relay)
In-built flash
-10 °C - 45 °C LIR1220
Single or double-gang wall socket
146x106x11mm
200g
EC, EMC, ROHS

Optional Accessories

RJ2BLOCK RJ45 to connector block converter for POWER+DMX socket

POWER4M 5-10v ACDC power supply

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EASY INSTALLATION

1. Mount an electrical box inside the wall

The controller can be installed in a standard electrical backbox. This box is usually 60mm high and wide, except in Japan and America where it is 83.5mm/3.29 inches high. You can insert the AC/DC adapter inside or outside the backbox.



POWER+DMX

WITH THE

RJ45 CABLE

OUTPUT DMX UNIVERSE #1 & #2

1 DMX +

4 POWER

6 DMX2 -

(7 POWER 8 GROUND

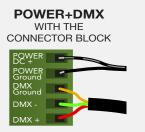
2 DMX -3 DMX2 +

2. Connect the wires

POWER: Connect a 5-10V 0.6A ACDC supply. Be sure to not invert the + and the ground.

DMX: Connect the DMX cable to the lighting receivers (LEDs, Dimmers, Fixtures..) (for XLR: 1=ground 2=dmx- 3=dmx+)

There are 2 ways to connect the power and DMX:



OUTPUT DMX UNIVERSE #1 ONLY

3. Mount the interface on the wall

First, mount the backside of the interface on the wall with 2 or more screws. Secondly, connect the DMX and power (connector block or RJ45).

Take note of the location of the Wi-Fi aerial (see pg3 photo) and install front panel with care. The front panel is mounted by pressing it against the back plate and then sliding down. Two screws should then be attached underneath to hold the controller in place.

Other Connections



DMX CHIPS To replace, solder the DMX chips to the 8 pin connectors.

HE10 EXTENSION socket

NC —	1	2	- GNI	D_DMX
NC —	3	4	— DM	X1-
PORT8	5	6	— DM	X1+
PORT7	7	8	— DM	X2-
PORT6	9	10	— DM	X2+
PORT5	11	12	- Rela	ay
PORT4	13	14	3.3\	/
PORT3	15	16	— NC	
PORT2	17	18	— GNI	D
PORT1	19	20	— VIN	*

* VIN (pin 20) is not protected and should not be used

Compatible header connectors: WURTH ELEKTRONIK ref: 61301021121 MOLEX ref: 10-89-7202 TE Connectivity ref: 1-87227-0 FCI ref: 77313-101-20LF HARWIN ref: M20-9981046 SAMTEC ref: TSW-110-xx-T-D FARNELL ref: 1841232 RS ref: 763-6754 673-7534 251-8165 MOUSER ref: 538-10-89-7202 DIGIKEY ref: WM26820-ND

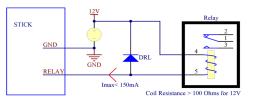


CHECK PIN CONFIGURATIONS. **APPLYING POWER TO THE** DMX INPUT WILL DAMAGE THE CONTROLLER

MAKE SURE THE CONTROLLER **IS MOUNTED FLAT WITHOUT OBSTRUCTIONS FROM BEHIND** AS THIS CAN PUSH APART THE GLASS

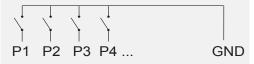
BLACKOUT Relay (energy saving)

A relay can be connected between the RELAY (pin 12) and GND sockets of the 20 pin extension socket. This is an open drain ouput that allows current to flow only when the controller is on. It can be used to turn off other equipment such as lighting drivers to save power.



Dry Contact Port Triggering

It is possible to start scenes using the dry contact input ports available on the HE10 extension socket. To activate a port, a brief contact of at least 1/25 second must be established between the ports (1...8) and a ground (GND) pin. Note: the scene will not be switched off when the switch is released.

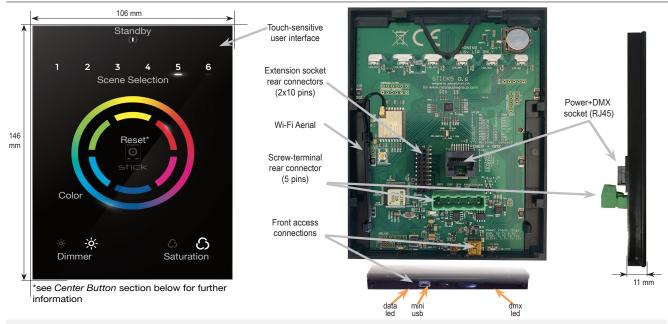


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Connections & Hardware Operation



Center Button

There are several operation modes for the button in the center of the palette. These can be set within Hardware Manager.

Reset color : the color set on the wheel will be cleared and the default scene will be restored.

Play next scene : the currently selected scene will stop and the next scene will play.

Select next bank : If more than 6 scenes are stored, you can select a scene on another scene bank. 1) press the centre button one or more times to select a scene bank number. The selected bank will flash. 2) Quickly, press a scene number to select a scene from the selected bank. If no scene is selected, it will continue playing the original scene.

Toggle wheel color/scene mode : the wheel can be used to select a color or a scene, depending on the mode. Tapping the button will toggle between scene selection and color selection mode. The center LED will blink when the wheel is set to scene mode. Disable button : the button will have no function.

Other Settings

There are several other settings which are available within the Hardware Manager.

Miscellaneous:

Name : a custom name for the controller. Usefull if you have several controllers connected.

Parameters:

Color/Dimmer : determines whether the color/dimmer will be reset when a new scene is recalled and whether color/dimmer changes are stored globally, or per scene.

Re-select scene : determines what happens when a playing scene is re-selected.

- **Reset color :** clear any color changes and reset to the scene's color vlaues. **Reset dimmer :** clear any dimmer changes and reset to the dimmer values of the scene.
 - **Reset saturation**: clear any durinner changes and reset to the saturation values of the scene.

Starting mode (L) : change the language of the text which appears on the screen.

Re-select scene : settings related to the LEDs on the controller.

Scene LED light level : sets the brightness of the LEDs.

RGB LED enable (Live Ch. 1-3) : when enabled, the RGB LED in the center of the wheel will change color depending on the live DMX output of channels 1-3. Only active in live mode (i.e. when connnected to software) **RGB LED enable (Standalone) :** enables and disables the RGB LED in the center of the wheel.

Serviceable Parts

- Battery used to store the clock/calendar
- DMX Chips used to drive the DMX (see p2.)

*To replace the Li-Ion rechargeable battery :

- 1. You need a rechargeable 3.6v LIR 1220 replacement battery
- 2. Remove the back panel by pulling down and sliding it out
- 3. Gently pull the battery release wire and the battery will pop out

Notes



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Setting up the Controller

Programming the Controller

The DMX controller can be programmed from a PC or Mac using the software available on our website. Refer to the corresponding software manual for more information which is also available on our website. The firmware can be updated using the Hardware Manager which is included with the programming software.

ESA2 Software (Windows/Mac)

http://www.nicolaudie.com/esa2.htm

Network Control

The controller can be connected directly from a computer/ smartphone/tablet (Access Point Mode), or can be connected to an existing local network (Station Mode). The controller is set to work in Access Point (AP) Mode by default.

- In AP Mode, the default network name is Smart DMX Interface XXXXXX where X is the serial number. The default password is 00000000 (8 zeros).
- To connect using Station Mode, use HardwareManager to set the Wifi settings to Station or Dual mode. Then connect your controller to your network by selecting your Wifi router from the Network List. The controller is set, by default, to get an IP address from the router via DHCP. If the network is not working with DHCP, a manual IP address and subnet mask can be set on the Ethernet options screen. If the network has a filewall enabled, allow port 2430.

iPhone/iPad/Android Control

Easy Remote Pro (iPad/iPhone. Android coming soon) Create an entirely customized remote control interface for your tablet or smartphone. Easy Remote Pro is a powerful and intuitive app, allowing you to add buttons, faders, color wheels and more. Connect to a Wi-Fi network and the app will find all compatible devices on the local network. Available for iOS and Android.

Lightpad

Designed to work seamlessly with the controller, Lightpad provides an easy way to control your lights over a local Wi-Fi network. Connect and you will see a representation of your controller on the screen. Use the on-screen controls as you would the controller in real life.

Troubleshooting

All 7 LED's on the controller are blinking

The controller is in bootloader mode. This is a special 'startup mode' which is run before the main firmware loads.

- Check that there is nothing metallic touching the back of the controller
- Try re-writing the firmware with the latest Hardware Manager software

Contact us if you see the following errors

Center LED Red, cycling pattern on 6 LEDs - Error1 Center LED Green, cycling pattern on 6 LEDs - Error2 Center LED Blue, cycling pattern on 6 LEDs - Error3

The controller is not detected by the computer

- Be sure the latest software version is installed (use the beta, if available) Connect by USB and open the Hardware Manager (found in the
- software directory). If it is detected, try to update the firmware
- Try another USB cable, port and computer
- Bootloader Mode

Sometimes the firmware update may fail and the device may not be recognised by the computer. Starting the controller in 'Bootloader' mode forces to the controller to start at a lower level and, in some cases, allows the controller to be detected and the firmware to be written. To force a firmware update in Bootloader Mode :

- 1. Power off your interface
- 2. Start HardwareManager on your computer

3. Press and hold the button on the back of the circuit board labelled BootLoader and connect the USB cable at the same time. If successful, your interface will appear in HardwareManager with the suffix BL

4. Update your firmware

The 6 scene LED's are blinking

- No showfile has been detected on the controller.
- Download the latest software
- Update to the latest firmware using the included Hardware Manager Try re-writing the show file

- The lights are not responding
- Check the DMX +, and GND are connected correctly
- Check that the driver or lighting fixture is in DMX mode
- Be sure that the DMX address has been set correctly
- Check there are no more than 32 devices in the chain
- Check that the DMX LED is flickering to the right of the SD card Connect with the computer and open Hardware Manager (found in the software directory). Open the DMX Input/Output tab and move the faders. If your fixtures respond here, it is possibly a problem with the show file

Trouble connecting over a network

- Try disabling any firewalls on your computer (e.g. Windows Firewall)
- Update firmware using the latest HardwareManager from our website
- Allow port 2430 on your network
- Check controller is connected to the same Wi-Fi network
- Close / kill all other dmx software / apps
- Check that you are not connecting to STICK through a VPN. VPNs are not compatible with our network discovery process

Calendar trigger problems

- If scenes are not triggering or are doing so at the incorrect time, check the time stored on the controller using HardwareManager > Clock
- If the controller forgets the time set, replace the battery (see pg2)
- If scenes start triggering 1 hour early/late, check Clock > DST settings
- Sunset / Sunrise triggers not matching the real world? Check the controller is set to the correct location. Default is Montpellier, France.

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	Dynamic Lighting Showcase
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	Submitted By
	16500, INC

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Notes

NICOLAUDIE

ARCHITECTURAL

STICK-KE2

Smart Touch Sensitive Intelligent Control Keypad



Overview

This truly simple controller features an on/off button at the top, 8 buttons to choose from up to 200 lighting scenes (25x8), 2 buttons to cycle between pages and a horizontal fader to instantly adjust dimmer, speed and color. Along with a state of the art design, the product comes with amazing features such as 1024 DMX channels, touch sensitive panel, clock/calendar, Ethernet facilities, and much more

The lighting levels, color and effects can be programmed from a PC, Mac, Android, iPad or iPhone using the included software.

www.nicolaudie.com/stick-ke2.htm

Key Features

- 8 touch sensitive scene buttons
- Color/dimmer/speed fader
- Touch sensitive buttons. No mechanical parts
- Touch sensitive fader allows for accurate color selection
- Multi-zone microSD memory
- Multi-room control with 200 scenes, 5 zones
- 1024 DMX channels. Control 340 RGB fixtures
- USB & Ethernet connectivity for programming and control
- RS232 and Dry Contact Ports
- Clock and calendar with Sunrise/Sunset triggering
- Network communication. Control lighting remotely
- Windows/Mac software to set dynamic colors/effects
- iPhone/iPad/Android remote and programming apps

Technical Data Input Power 6-9V DC 0.6A **Output Protocol** DMX512 (x2) PC, Mac, Tablet, Programmability Smartphone **Available Colors** Black Connections USB, Ethernet, RS232, Clock, 8 dry contact ports, Output Relay microSD card Memory 4GB max, FAT16/32 -10 °C to 50 °C Temperature Mounting Single or double gang wall socket **Dimentions** 146x106x11mm Weight 247g Standards EC, EMC, ROHS, ETL

Optional Accessories POWER4M 6V ACDC power supply

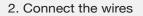
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EASY INSTALLATION

1. Mount an electrical box inside the wall

The controller can be installed in any standard electrical backbox. If you use a double size box, you can insert the power supply inside.



POWER: Connect a 6V to 7V DC 0.6A ACDC supply. Be sure to not invert the + and the ground.

DMX: Connect the DMX cable to the lighting receivers (Leds, Dimmers, Fixtures..) (for XLR: 1=ground 2=dmx- 3=dmx+)

3. Mount the interface on the wall

First, mount the back side of the interface on the wall with 2 or more screws.

Secondly, plug the connectors :

- DMX and power (connector block or RJ45)
- Ethernet cable (allows LAN connection)

The front panel is mounted by pressing it against the back plate and then sliding down. 2 screws can then be attached underneith to hold the prevent removal.









DIGIKEY ref: WM26820-ND



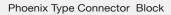


POWER+DMX WITH THE RJ45 CABLE



CHECK PIN CONFIGURATIONS. APPLYING POWER TO THE DMX INPUT WILL DAMAGE THE CONTROLLER **MAKE SURE THE CONTROLLER IS MOUNTED WITHOUT TOO MUCH FORCE BEHIND AS THIS CAN PUSH APART THE GLASS**

I/O CONNECTIONS	POWER+DMX	ETHERNET	
	with RJ45	Network Port	** VIN pin 2 not be used VIN * — GND — IR_RX — 3.3V — Relay — DMX2+ — DMX2+ — DMX1+ — DMX1- —
DMX universe #1			2 4 6 8 10 12 14 16 18 20 og
			1 3 5 7 9 11 13 15 17 19
DMX CHIP replacement Ref: SP485ECN-L MAX485 CSA			1 3 5 7 9 11 13 15 17 19 1 3 5 7 9 11 13 15 17 19 PORT1 PORT2 PORT4 PORT6 PORT8 RS232 RX RS232 RX
			Compatible header connectors: WURTH ELEKTRONIK ref: 61301021121 MOLEX ref: 10-89-7202 TE Connectivity ref: 1-87227-0 FCI ref: 77313-101-20LF
DMX universe #2			HARWIN ref: M20-9981046 SAMTEC ref: TSW-110-xx-T-D FARNELL ref: 1841232 RS ref: 763-6754 673-7534 251-8165 MOUSER ref: 538-10-89-7202



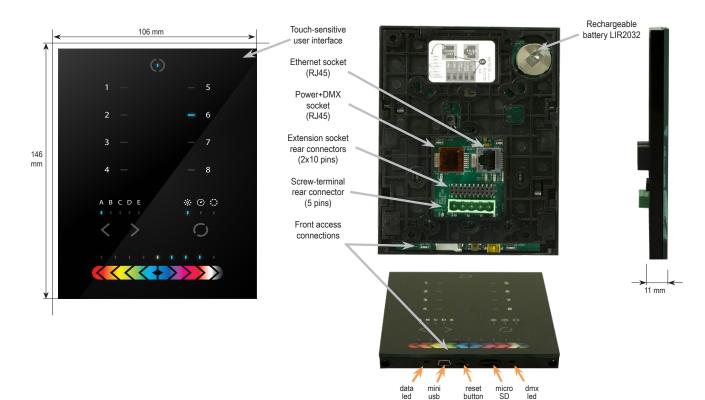
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Connections



SPECIFIC	SPECIFICATIONS / CONNECTIONS		screw-terminal rear connector (5 pins)	extension socket rear connectors (2x10 pins)	front access connections (open cover)
Power Supply	7V DC 0.65A, supplied		•		USB
DMX Output #1	First universe, 512 channels DMX512 output		•	•	
DMX Output #2	Second universe, 512 channels DMX512 output (*)			•	
USB	USB 2.0 communication for PC/software				•
Ethernet Advanced networking features		•			
Ports 1 - 8 Contact closure inputs, connect to GND to trigger				•	
User interface 14 buttons, 1 fader, 28 leds (Touch-sensitive keypad)		•			power/data leds
SDCARD MicroSD card for stand alone memory use (supplied)					•
RESET Push button for reset operation					•
RS232 RS232 Serial communication for external synchronisation				•	
Output relay Automatic Stand by 5V signal				•	
Clock Real time clock and calendar		•			

Service

Servicable parts include:

- Memory card used to store the scenes
- Battery used to store the clock/calendar

. DMX Chips - used to drive the DMX (see p2.) *To replace the Li-Ion rechargeable battery :

1. You need a rechargeable 3.6v LIR 2032 replacement battery

- Remove the back panel by pulling down and sliding it out.
 Using a paper clip push the battery from the bottom so it slides out
- of its cage. 4. Slide the replacement battery in from the top, making sure the positive side is facing up.
- 5. Replace the back panel by pushing it up into place.

sixteen5hundred Project 21-12877-5 Date 7/26/2021 Catalog Number KE2 Quadratic Lighting Showcase Votes Notes Votes	^{Type} 49
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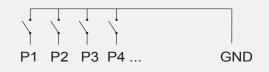


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Setting up the Controller

Dry Contact Port Triggering

It is possible to start scenes using the input ports (contact closure). To activate a port, a brief contact of atleast 1/25 second must be established between the ports (1...8) and the ground (GND). Note: the scene will not be switched off when the switch is released.



Relay

A relay can be connected between the RELAY and GND sockets of the 20 pin extension socket. This is an OPEN COLLECTOR OUTPUT that can drive up to 150mA, 20V. Current flows when the controller is on and is stopped when in standby.

It can be used to turn off other equipment such as lighting drivers to save power (see diagram right).

iPhone/iPad/Android Control

The controller can be used with one of 3 different apps.

Lightpad

Designed to work seamlessly with the controller, Lightpad provides an easy way to control your lights over a local WiFi network from a tablet or smartphone. Use the slider to change the dimmer, color or speed, and the 8 scene buttons to select scenes and effects just like the wall panel.

www.nicolaudie.com/lightpad.htm

Easv Remote

Create an entirely customized remote controller for your tablet or smartphone. Easy Remote is a powerful and intuitive app allowing you to easily add buttons, faders, color wheels and more. Connect to a WiFi network and the app will find all compatible devices. www.nicolaudie.com/easy-remote.htm

Arcolis (Android only)

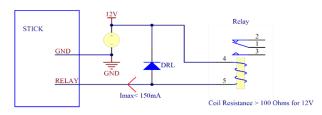
The Arcolis application is a comprehensive tool allowing you to directly control and re-program the controller from your smartphone or tablet. This is a simple application which can be used by just about everyone in any situation. Mobile, easy to use and powerful, Arcolis is the ideal controller for dimming or switching traditional, LED and RGB color mixing DMX lighting fixtures. Program static and dynamic lighting scenes and effects.

RS232 Triggering

Make a cable using the 3 pins : TX, RX and G (GND) Set the RS232 parameters to : 9600bds 8 bits, no Parity, 2 Stop bits

- To play a scene, send 3 bytes : 1 x 255
- To stop a scene, send 3 bytes : 2 х 255 - To pause a scene, send 3 bytes : 3 x
- 255 - To release a pause, send 3 bytes : 4 x 255
- To reset a scene, send 3 bytes : 5 x 255

The scene number (x) can be from 1 to 40. For instance, 11 means Page B Scene #3



Example relay : FINDER Ref. 22.23.9.012.4000

UDP Triggering

The dmx controller can be connected to an existing automation system over a network and triggered via UDP packet on port 2430. Use HardwareManager to find IP address of dmx controller. Refer to the remote protocol document for more information.

Stick 1 Remote Protocol (PDF)

www.nicolaudie.com/download.htm

Network Control

The controller can be connected to a local network, allowing it to be controlled from a smartphone or tablet over WiFi.

- Connect the controller to a router or switch with an RJ45 cable The controller is set by default to get an IP address from the
- router via DHCP. If the network is not working with DHCP, a manual IP address and subnet mask can be set using the Hardware Manager
- If the network has a firewall enabled, allow port 2430

Programming the Controller

The controller be programmed from a PC, Mac, Tablet or Smartphone using the software available on our website. Refer to the corresponding software manual for more information. The firmware can be updated using the Hardware Manager which is included with the programming software.

ESA Pro Software (Windows) - Timeline + Multi-Zone https://www.nicolaudie.com/esapro.htm

ESA2 Software (Windows/Mac) - Single Zone www.nicolaudie.com/esa2.htm

Hardware Manager (Windows/Mac) - Firmware, clock.. www.nicolaudie.com/download.htm

Dynamic Lighting Showcase	Catalog Number KE2	^{Type} 49
	Notes	

stick	Smart Touch-sensitive Intelligent Control Keypad	Ref. STICK-KE2	Page 5
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Some functions are available directly from the controller keypad using the SELECT button.



	Function	Examples
Select + 1	View time	view time 2:45pm = 14:45 = 1445
Select + 2	View date	view date 6 Sep 2018 = 060918
Select + 3	Set time	Set time to 3:30pm = 15:30 = press buttons 1530
Select + 4	Set date	Set 18 DEC 2018 date = 051218 0 5 1 2 1 8
Select + 5	Set fade time	Set 1m32s fade time = 0132 0 1 3 2
Select + 6	Lock function	This function locks the keypad (disabled by default) Use HardwareManager to enable it and set the 4-digit code
Select + 0	Firmware version	0121 = firmware version 1.21



 Smart Touch-sensitive Intelligent Control Keypad
 Ref. STICK-KE2

 Technical datasheet
 Revision date 9 Dec 2019
 www.nicolaudie.com

Troubleshooting

Fixtures / lights not responding

- · Check the DMX +, and GND are connected correctly
- · Check that the driver or lighting fixture is in DMX mode
- · Be sure that the DMX address has been set correctly
- · Check there are no more than 32 devices in the chain
- Check that the DMX LED is flickering to the right of the SD card
- Connect with the computer and open HardwareManager (found in the software directory). Open the DMX Input/Output tab and move the faders. If your fixtures respond here, it is possibly a problem with the show file
- We strongly recommend the use of a DMX Tester with our interfaces
 with any problem solving
- No DMX output? There could be a faulty DMX chip. The has 2 x DMX chips labelled UDMX1 and UDMX2 which are user-replacable (see pg2). Try swapping the chips over to test if one is faulty. Use a flat head screw driver to pry them gently from the socket

8 scene and standby LEDs flashing

There is no SD card detected

- · Check the SD card is properly inserted
- Try formatting the SD card to FAT16/32 in the computer
- Try re-writing the show file
- Try replacing the SD memory card (Max 4Gb)

8 scene LEDs are flashing

There is no show file detected on the SD memory card

- Try formatting the SD card in the computer
- Try re-writing the show file
- Try writing the standalone demo show using HardwareManager
- · Try replacing the SD memory card

8 scene LEDs cycling constantly

The interface is constantly restarting. There could be several causes :

- Corrupt show files. Remove SD card and backup contents. Use the HardwareManager Standalone screen to write the demo show. If this solves problem, rewrite your show using the dmx programming software and .arc or .dlm from your backup.
- Corrupt Firmware. Load HardwareManager and update the firmware. If not detected, try Bootloader Mode.
- Faulty power supply. Use a multimeter to check the power supply. The Stick-KE1 and KE2 require 6-7v. The older Stick-KU1, which used a miniSD card rather than a microSD, requires 9v. Power supplies do lose the ability to supply voltage over time. If below specification, replace power supply.

All LEDs on the controller are flickering

The controller is in Bootloader Mode. This is a special 'startup mode' which is run before the main firmware loads.

Туре

Page 6

V 2.0

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- Check that there is nothing metallic touching the back of the controller
- · Try re-writing the firmware with the latest HardwareManager
- Try slow formatting SD to FAT16/32 or replacing the card

The controller is not detected by the computer

- Be sure that the latest software version is installed
- Make sure you are using Windows 7, 8 & 10 or OS X 10.8+
- Connect by USB and open the HardwareManager (found in the software directory). If it's detected here, try to update the firmware
- If not detected by HardwareManager, the firmware could be corrupted. This can be solved by forcing a firmware update in Bootloader Mode
 - Load HardwareManager
 - Press BootLoader button on the back (see image) and ...
- Plug-in the USB cable at the same time. If successful the interface will appear in HardwareManager with the suffix '_BL'
- Update the firmware



	Dynamic Lighting Showcase		^{Type} 49B
•		Notes	

ProPlex®

0-10V DMX CONVERTER

DIN RAIL MOUNT

The Leader in Touring Technology, Now Coming to a Building Near You!



- Bidirectional! Converts 0-10V to DMX or DMX to 0-10V
- Four operational modes: "Theatre" Out, "Ballast" Out, "Theatre In", "Ballast In"
- 4x 0-10V inputs or outputs
- Assign DMX channels, link with analog ports, select analog modes, via RDM
- Compatible with ANSI E1.3 (Theatre mode / 0-10V) and IEC Standard
- 60929 Annex E (Ballast mode / sink mode / 1-10V)
- Pluggable Terminal Block (PTB) screw terminals for bare-wire, installation flexibility
- Complete range of DIN Rail Devices and Drives to make a complete system!



Operational modes:

- Output Theatre (source 0-10V)
- Output Ballast (sink)
- Input Theatre (hi-Z input)
- Input Ballast (source current 1 mA/10V)

Input/output LEDs indicate signal level or fault conditions:

- Green DMX signal level to 0-10V
- Blue 0-10V signal level to DMX
- Red output overload
- Magenta warning for output sink load not connected (ballast mode)



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Notes

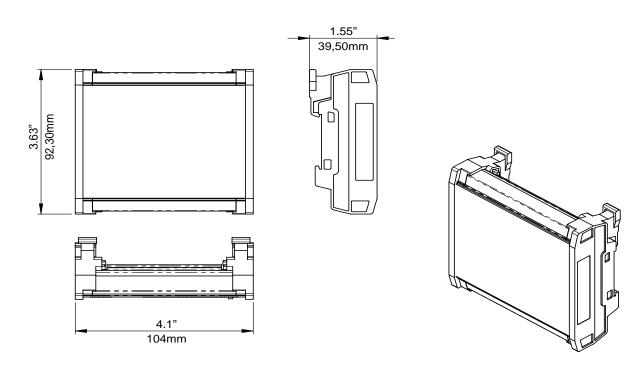
ProPlex®

0-10V DMX CONVERTER

DIN RAIL MOUNT

ProPlex DIN Rail 0-10V DMX Converter Specifications		
Part Number	PP010VCDIN	
Control Channels	4	
RDM support	Yes	
Operating Voltage	9-32 VDC (Requires external power supply)	
Power Consumption	3 W Max.	
Isolation Voltage	3000 V	
Output Current	10 mA per output	
Output Setting Time	5 msec	
Input impedance (Theatre mode)	1 MΩ	
Input sink mode current	1 mA	
Output short circuit current	60 mA	
Output short restoring time	6 sec	
DMX unit	40mV / DMX step	
Power Input	Pluggable Terminal Block (PTB) 2-terminal ¹	
Data Input	Pluggable Terminal Block (PTB) 3-terminal ¹	
Data Thru	Pluggable Terminal Block (PTB) 3-terminal ¹	
Control Input/Outputs	4x Pluggable Terminal Block (PTB) 2-terminal ¹	
Operating Temp.	-22 °F - 104 °F [-30 °C - +40 °C]	
Dimensions (HxWxD)	1.55" x 4.1" x 3.63" [39.5 x 104 x 92.3 mm]	
Weight	5.6 oz [159 g]	

¹ Included





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