MARK ARCHITECTURAL

SPECIFICATIONS

PROJECT:

TYPE:



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	
					CV)			
	RHYR (@46K)							
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	MMING						
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

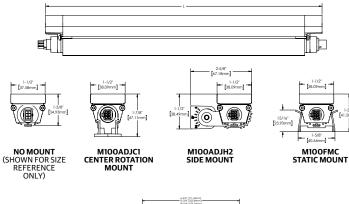


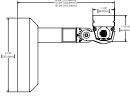




DIMENSIONS

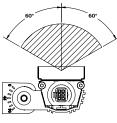
Reference Drawing Detail section for additional information





CANTILEVER MOUNT

DISTRIBUTION

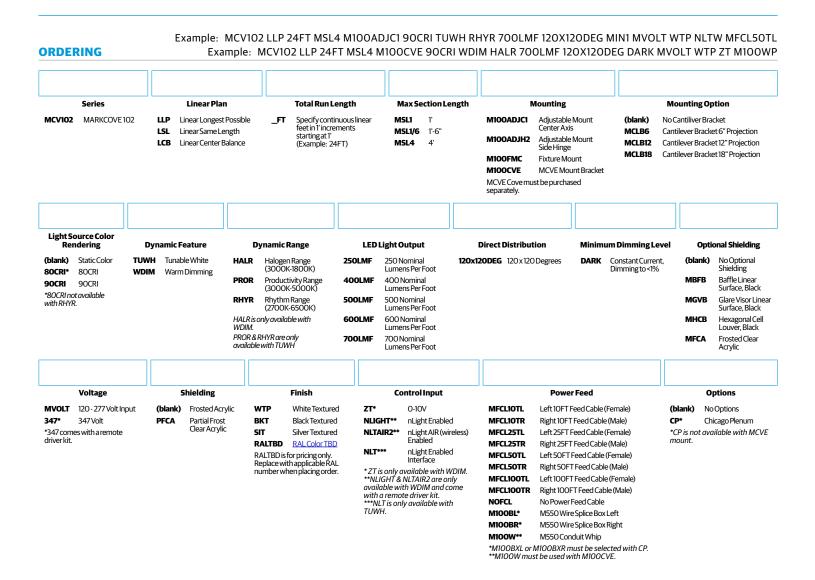


120 °X120 °

ScuityBrands

MCV102_TUWH_WDIM 07/19/21





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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 configuratations not shown here.

Tunable White RHYR Range	
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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.



LUMEN MULTIPLIERS

CRI	сст	Scale factor
80CRI	@27K	1.09
80CRI	@35K	1.16
80CRI	@50K	1.20
90CRI	@27K	0.93
90CRI	@35K	1
90CRI	@50K	1.05

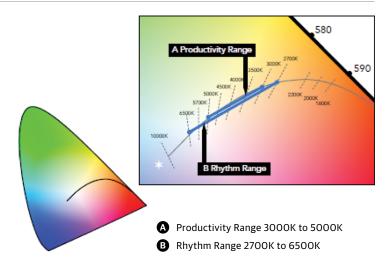
These tables can be used to approximate the lumen values at different Kelvin temperatures and Color Rendering Index. Power consumption would stay the same.

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





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 configurations not shown here.

LUMEN MULTIPLIERS

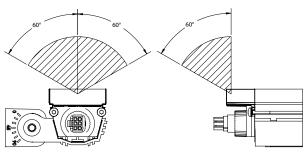
CRI	ССТ	Scale factor
80CRI	@27K	1.09
80CRI	@30K	1.13
90CRI	@27K	0.93
90CRI	@30K	0.95

ShieldingMultiplierPFCA0.98MBFB0.42MFCA0.89MGVB0.70MHCB0.13

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

DISTRIBUTION

Note: Shown with M100ADJH2 mount

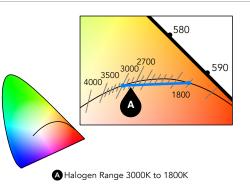


120X120 DEGREE

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®





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:

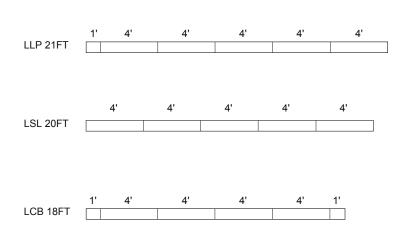
In this plan the longest length available is optimized resulting in the fewest segments and mounting locations. Caution should be used where balanced appearance is a concern. Example: 21FT row would have (5) 4FT segments and (1) 1FT segment located at one end.

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:

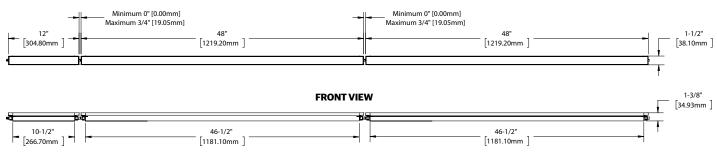
This configuration incorporates the longest center segment(s) along with any additional lengths required to fill located at each end. Example: 18FT row would have (2) 1FT segments (one at each end) and (4) 4FT intermediate segments located in between.



DRAWING DETAILS

MCV102 Series Typical End-To-End Run Configuration

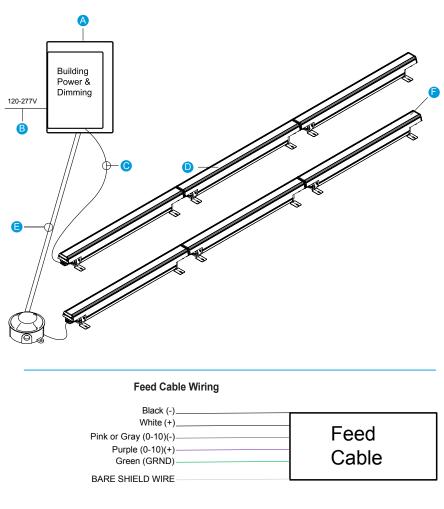






BASIC SYSTEM WIRING INFORMATION WITHOUT DMX

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.



*Notes

Page 7

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.

D 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.



ACCESSORY OPTIONS

Feed Cables

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

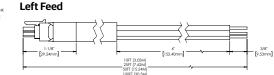
Model		Cord Col	or	DMX	
MFCL10TL MFCL25TL MFCL50TL MFCL100TL MFCL10TR MFCL25TR MFCL50TR MFCL100TR	Left 10FT Feed Cable Left 25FT Feed Cable Left 50FT Feed Cable Left 100FT Feed Cable Right 10FT Feed Cable Right 25FT Feed Cable Right 50FT Feed Cable Right 100FT Feed Cable	WCRD BCRD	White Cord Black Cord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





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.*



Right Feed



Right Feed Dust Cap (Included with NDXP)



Left Feed Dust Cap (Included with NDXP)



Right Feed DMX Terminator Cap (Included with DXP)



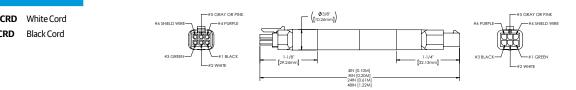
Left Feed DMX Terminator Cap (Included with DXP)



Jumper Cable *Optional*

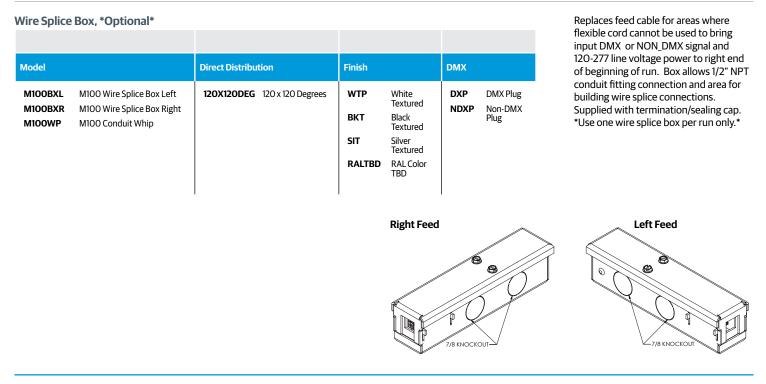
Model		Cord Col	or
MJCLM2	2FT Jumper Cable	WCRD	White Cord
MJCLM4	4FT Jumper Cable	BCRD	Black Cord
MJCLM4IN	4IN Jumper Cable		
MJCLM8IN	8IN Jumper Cable		

Carries DMX or NON-DMX signal and 12O-277 line voltage power between two units in a run when larger spacing between units is required.





ACCESSORY OPTIONS (CONTINUED)

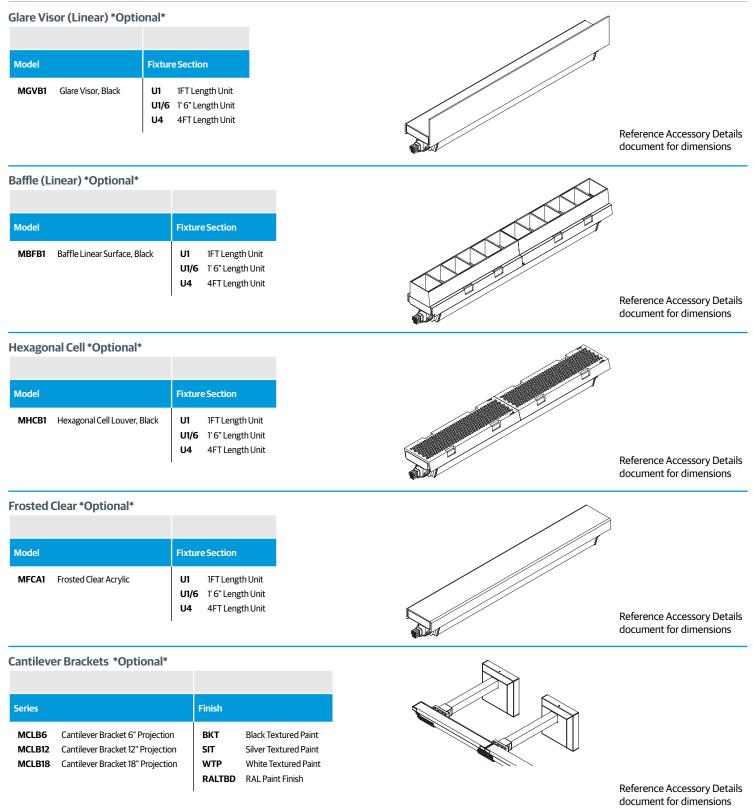




MARKCOVE 102

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.