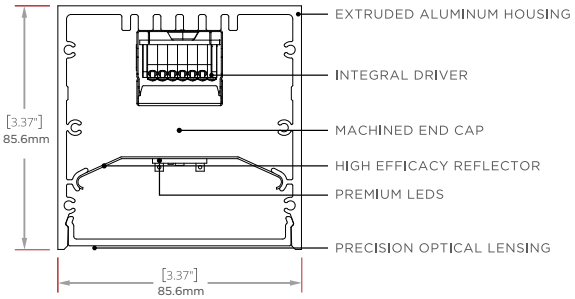
NITROGEN 3

OVERVIEW • SPECIFICATIONS • ORDERING

CABLE SUSPENDED CS

DATE	PROJECT	FIRM	TYPE



PERFORMANCE

STATIC WHITE | FLOOD DIRECT

POWER LEVELS	LIGHT DIRECT LM/4FT	TOTAL LIGHT LM/4FT	ENERGY WATTS/4FT	EFFICACY LPW	CCT/CRI
VL	1944	1944	16	121	4000/80
L	2725	2725	24	114	4000/80
S	3608	3608	32	113	4000/80
H	4341	4341	40	109	4000/80
VH	5236	5236	48	109	4000/80

CCT MULTIPLIERS STATIC WHITE

CCT	2700K		3000K		3500K		4000K		5000K	
CRI	80	90	80	90	80	90	80	90	80	90
MULTIPLIER	0.93	0.79	0.96	0.82	0.97	0.85	1	0.89	1.01	0.89

FEATURES:

- PRECISION OPTICAL LENSING OPTIONS OR HIGH TRANSMISSION FROSTED LENSING
- 1% DIMMING DRIVERS STANDARD
- ADJUSTABLE AIRCRAFT CABLE SUSPENSION SYSTEM
- EXTRUDED ALUMINUM HOUSING WITH NO VISIBLE FASTENERS
- MACHINED ALUMINUM END CAPS WITH EASY ACCESS REMOVAL
- 360 DEGREE ROTATION OPTION WITH MECHANICAL LOCKING

NOTE: ALL ITALICIZED OPTIONS MAY INCREASE LEAD TIME. PLEASE CONSULT FACTORY WITH QUESTIONS.

FIXTURE MODEL

N3
Nitrogen 3

MOUNTING

- **CSD** Cable Suspended Direct Only
- **CSI** Cable Suspended Indirect
- **CSR** Cable Suspended Rotational

NOMINAL LENGTH (FT)

- **2**
- **3**
- **4**
- **5**
- **6**
- **7**
- **8**
- **CR**[1,2] Continuous Run (Specify Length in Nominal Feet)

1. Power Feed is always at the first section in a continuous run
2. Rotational mounting w/CR will have a power feed for every section

CCT/CRI

- **827**
- **830**
- **835**
- **840**
- **850**
- **927**
- **930**
- **935**
- **940**
- **950**
- ***TW2765***
- ***WD1827***
- ***RGBW***[1]

1. Pair only w/ power level(s) = S, beams = F

DIRECT POWER LEVEL[1]

- **VL** Very low
- **L** Low
- **S** Standard
- **H** High
- **VH** Very High

DIRECT BEAM DISTRIBUTION[1]

- **G** Graze
- **N** Narrow Flood
- **F** Flood
- **W** Wall Wash
- **A** Aisle

1. Select only 'Direct' attributes for CSR & CSD mountings

INDIRECT POWER LEVEL[1]

- **VL** Very low
- **L** Low
- **S** Standard
- **H** High
- **VH** Very High

INDIRECT BEAM DISTRIBUTION[1]

- **F** Flood

1. Select only 'Indirect' attributes for CSI mounting

DRIVER

- **1D** 0-10V EldoLED 1%
- ***01D*** *0-10V EldoLED 0.1%*
- ***LDE1*** *Lutron Ecosystem 1%*
- ***LDE5*** *Lutron Ecosystem 5%*
- ***1DT*** *(TW)*[2]
- ***1DW*** *(WD)*[2]
- ***DMX8*** *Standard 8 bit (RGBW)*[1]
- ***DMX16*** *Optional 16 bit (RGBW)*[1]
- ***DALI*** *(INTL)*
- ***1WS*** *(Sensor Fixtures)*[3]

1. Driver must reside in remote housing
2. 0-10V input – CHOOSE DALI instead for INTL versions
3. Integrated Sensor options pair with 1WS driver only

HOUSING FINISH

- **SC** Satin Clear Anodize
- **SW** Satin White Powder Coat
- **MB** Matte Black Powder Coat
- ***CF*** *Custom Finish (Consult Factory)*

END CAPS FINISH[1]

- **MF** Machined Finish
- **SW** Satin White
- **MB** Matte Black
- **CF** Custom Finish (Consult Factory)

1. CSR rotational hardware finish matches end cap finish selection

CANOPY SIZE

- **44** 4" Power feed canopy 4" Non-power feed canopy
- ***44E*** 4" Power feed canopy 4" Non-power feed canopy - International
- **40** 4" Power feed canopy Canopy only at power feed
- ***40E*** 4" Power feed canopy Canopy only at power feed
- ***41*** *4" Power feed canopy 1" Non-power feed canopy*
- ***41E*** *4" Power feed canopy 1" Non-power feed canopy - International*

CANOPY FINSH

- **MF** Machine Finish
- **SW** Satin White
- **MB** Matte Black
- **CF** Custom Finish (Consult Factory)

POWER CORD

- **W** White
- **B** Black
- **G** Gray[1]

1. Not available for INTL

CABLE LENGTH

- **4** 4'
- **8** 8'

OPTIONS[6]

- **EMB7**[1,3,4,5,6] 7 Watt battery back-up (Approximately 600 lumens)
- **EMB12**[1,3,4,5,6] 12 Watt battery back-up (Approximately 1000 lumens)
- **EMW**[1,2] Emergency Circuit Wiring
- ***WSN***[6] *WSN nLight sensor*
- ***WSE***[6] *WSE Englighted Sensor*
- ***WSW***[6] *WSW Wavelinx Sensor*
- ***WSL***[6] *WSL Lutron Vive Sensor*

1. EMB/EMW only linked to first section of continuous run
2. EMW not available for 2ft/3ft lengths
3. EMB7 & EMB12 - 5ft lengths and up
4. CSI mounting not compatible with EMB
5. EMB not available for combined 8FT length & VH power
6. Factory EMB and Sensor (WS*) options not avail for INTL

GENERAL NOTES:

All fixtures are UL listed for dry and damp locations. Fixtures with International (E) option designation are CE and ROHS compliant.
INTEGRAL DRIVER for all options.
Please contact the factory with any specification questions.

c UL us LISTED

RoHS COMPLIANT

CE

FIXTURE ORIENTATION

Direct (CSD) for downlight applications
Indirect (CSI) for up light applications
Rotational (CSR) for adjustable applications: 360 degree rotational capacity with locking mechanism.

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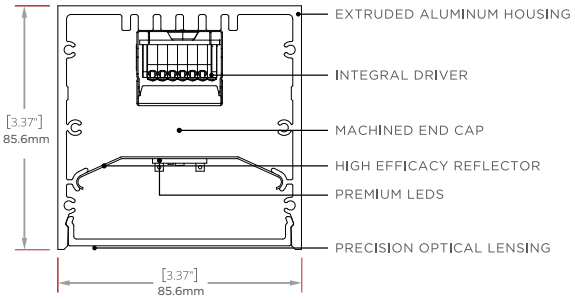
NITROGEN 3

OVERVIEW • SPECIFICATIONS • ORDERING

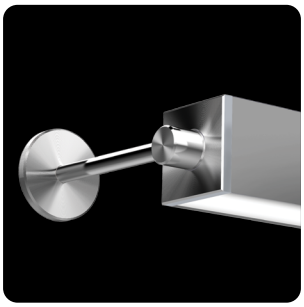
ROTATIONAL ARM MOUNT

DATE	PROJECT	FIRM	TYPE



FEATURES:

- 3/4" DIAMETER RIGID TUBE MOUNTING SYSTEM
- PRECISION OPTICAL LENSING OPTIONS OR HIGH TRANSMISSION FROSTED LENSING
- 1% DIMMING DRIVERS STANDARD
- EXTRUDED ALUMINUM HOUSING WITH NO VISIBLE FASTENERS
- MACHINED ALUMINUM END CAPS WITH EASY ACCESS REMOVAL
- 360 DEGREE ROTATION OPTION WITH MECHANICAL LOCKING



NOTE: ALL ITALICIZED OPTIONS MAY INCREASE LEAD TIME. PLEASE CONSULT FACTORY WITH QUESTIONS.

FIXTURE MODEL	MOUNTING	NOMINAL LENGTH (FT)	CCT/CRI	DIRECT POWER LEVEL	DIRECT BEAM DISTRIBUTION	DRIVER	HOUSING FINISH
N3 Nitrogen 3	**RAM** Rotational Arm Mount *RAME Rotational Arm Mount - International*	**2** **3** **4** **5** **6** **7** **8** **CR**[1,2] Continuous Run (Specify Length in Nominal Feet)	**827** **830** **835** **840** **850** **927** **930** **935** **940** **950** *TW2765* *WD1827* *RGBW*[1]	**VL** Very low **L** Low **S** Standard **H** High **VH** Very High	**G** Graze **N** Narrow Flood **F** Flood **W** Wall Wash **A** Aisle	**1D** 0-10V EldoLED 1% *01D 0-10V EldoLED 0.1%* *LDE1 Lutron Ecosystem 1%* *LDE5 Lutron Ecosystem 5%* *1DT (TW)*[2] *1DW (WD)*[2] *DMX8 Standard 8 bit (RGBW)*[1] *DMX16 Optional 16 bit (RGBW)*[1] *DALI (INTL)* *1WS (Sensor Fixtures)*[3]	**SC** Satin Clear Anodize **SW** Satin White Powder Coat **MB** Matte Black Powder Coat **CF** Custom Finish (Consult Factory)

1. Power feed is always at the first section in a continuous run
2. Rotational mounting w/ CR will have a power feed for every section

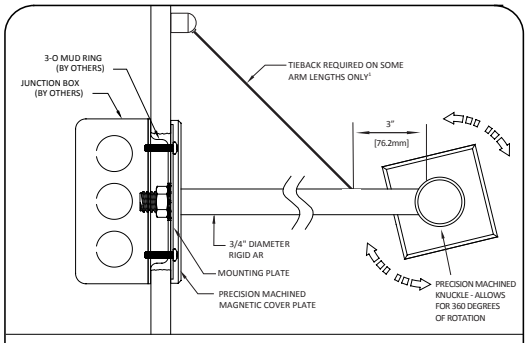
1. Pair only w/ power level(s) = S, beams = F

1. Driver must reside in remote housing
2. 0-10V input – CHOOSE DALI instead for INTL versions
3. Integrated Sensor options pair with 1WS driver only

END CAPS & RAM HARDWARE FINISH	ARM LENGTH NOM (IN)	MOUNTING PLATE	OPTIONS[6]
MF Machined Finish **SW** Satin White **MB** Matte Black *CF Custom Finish (Consult Factory)*	**3** **6**[1] **9**[1] **12**[1]	**4CPF**	**EMB7**[1,3,5,6] 7 Watt battery back-up (Approximately 600 lumens) **EMB12**[1,3,5,6] 12 Watt battery back-up (Approximately 1000 lumens) **EMW**[1,2] Emergency Circuit Wiring *WSN*[6] *WSN nLight sensor* *WSE*[6] *WSE Englighted Sensor* *WSW*[6] *WSW Wavelength Sensor* *WSL*[6] *WSL Lutron Vive Sensor*

1. Includes Mounting Tieback

1. EMB/EMW only linked to first section of continuous run
2. EMW not available for 2ft/3ft lengths
3. EMB7 & EMB12 - 5ft lengths and up
5. EMB not available for combined 8FT length & VH power
6. Factory EMB and Sensor (WS*) options not avail for INTL



ROTATIONAL ARM MOUNT INFORMATION

GENERAL NOTES:
All fixtures are UL listed for dry and damp locations.Fixtures with International (E) option designation are CE and ROHS compliant.
INTEGRAL DRIVER for all options.
Please contact the factory with any specification questions.

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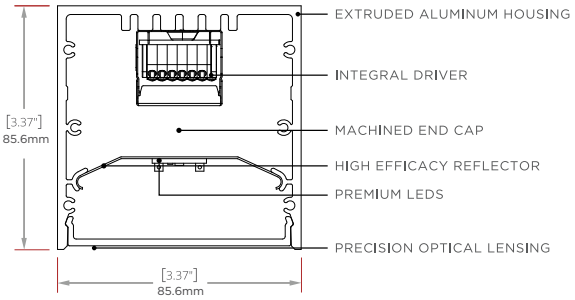
NITROGEN 3

OVERVIEW • SPECIFICATIONS • ORDERING

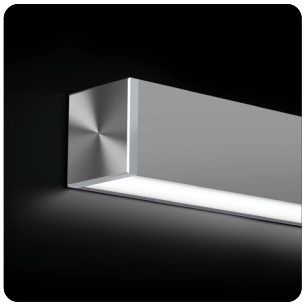
SURFACE MOUNT (SM)

DATE	PROJECT	FIRM	TYPE



FEATURES:

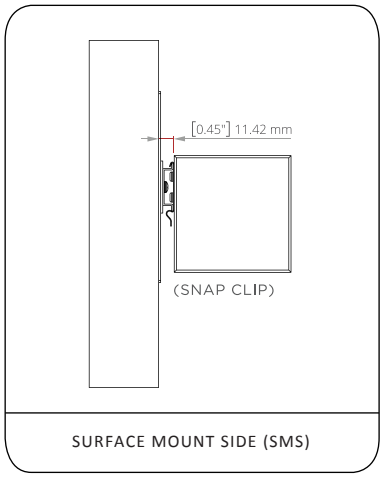
- WALL MOUNTING SYSTEM
- PRECISION OPTICAL LENSING OPTIONS OR HIGH TRANSMISSION FROSTED LENSING
- 1% DIMMING DRIVERS STANDARD
- PRE LOCATED FIXTURE HARDWARE FOR EASY SURFACE INSTALL
- EXTRUDED ALUMINUM HOUSING WITH NO VISIBLE FASTENERS
- MACHINED ALUMINUM END CAPS WITH EASY ACCESS REMOVAL



NOTE: ALL ITALICIZED OPTIONS MAY INCREASE LEAD TIME. PLEASE CONSULT FACTORY WITH QUESTIONS.

FIXTURE MODEL	MOUNTING	NOMINAL LENGTH (FT)	CCT/CRI	DIRECT POWER LEVEL	DIRECT BEAM DISTRIBUTION	DRIVER	HOUSING FINISH
N3 Nitrogen 3	**SMS** Surface Mount Side *SMSE Surface Mount Side - International*	**2** **3** **4** **5** **6** **7** **8** **CR**[1] Continuous Run (Specify Length in Nominal Feet) 1. Power feed is always first section of a continuous run	**827** **830** **835** **840** **850** **927** **930** **935** **940** **950** *TW2765* *WD1827* *RGBW*[1] 1. Pair only w/ power level(s) = S, beams = F	**VL** Very low **L** Low **S** Standard **H** High **VH** Very High	**G** Graze **N** Narrow Flood **F** Flood **W** Wall Wash **A** Aisle	**1D** 0-10V EldoLED 1% *01D 0-10V EldoLED 0.1%* *LDE1 Lutron Ecosystem 1%* *LDE5 Lutron Ecosystem 5%* *1DT (TW)*[2] *1DW (WD)*[2] *DMX8 Standard 8 bit (RGBW)*[1] *DMX16 Optional 16 bit (RGBW)*[1] *DALI (INTL)* *1WS (Sensor Fixtures)*[3] 1. Driver must reside in remote housing 2. 0-10V input – CHOOSE DALI instead for INTL versions 3. Integrated Sensor options pair with 1WS driver only	**SC** Satin Clear Anodize **SW** Satin White Powder Coat **MB** Matte Black Powder Coat **CF** Custom Finish (Consult Factory)

END CAPS FINISH	OPTIONS[6]
MF Machined Finish **SW** Satin White **MB** Matte Black *CF Custom Finish (Consult Factory)*	**EMB7**[1,3,5,6] 7 Watt battery back-up (Approximately 600 lumens) **EMB12**[1,3,5,6] 12 Watt battery back-up (Approximately 1000 lumens) **EMW**[1,2] Emergency Circuit Wiring *WSN*[6] *WSN nLight sensor* *WSE*[6] *WSE Englighted Sensor* *WSW*[6] *WSW Wavelinx Sensor* *WSL*[6] *WSL Lutron Vive Sensor* 1. EMB/EMW only linked to first section of continuous run 2. EMW not available for 2ft/3ft lengths 3. EMB7 & EMB12 - 5ft lengths and up 5. EMB not available for combined 8FT length & VH power 6. Factory EMB and Sensor (WS*) options not avail for INTL



SURFACE MOUNT SIDE (SMS)

GENERAL NOTES:

All fixtures are UL listed for dry and damp locations. Fixtures with International (E) option designation are CE and ROHS compliant.
INTEGRAL DRIVER for all options.
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DATE	PROJECT	FIRM	TYPE

DIRECT

STATIC WHITE | FLOOD DIRECT

POWER LEVELS	LIGHT DIRECT LM/4FT	TOTAL LIGHT LM/4FT	ENERGY WATTS/4FT	EFFICACY LPW	CCT/CRI
VL	1944	1944	16	121	4000/80
L	2725	2725	24	114	4000/80
S	3608	3608	32	113	4000/80
H	4341	4341	40	109	4000/80
VH	5236	5236	48	109	4000/80

CCT MULTIPLIERS, STATIC WH

CCT	80CRI	90CRI
2700K	0.93	0.79
3000K	0.96	0.82
3500K	0.97	0.85
4000K	1.00	0.89
5000K	1.01	0.89

DYNAMIC WHITE | FLOOD DIRECT

POWER LEVELS	LIGHT DIRECT LM/4FT	TOTAL LIGHT LM/4FT	ENERGY WATTS/4FT	EFFICACY LPW	CCT/CRI
VL	1364	1364	24	57	4000/90
L	1913	1913	32	60	4000/90
S	2532	2532	36	70	4000/90
H	3047	3047	44	69	4000/90
VH	3675	3675	48	77	4000/90

CCT MULTIPLIERS, DYNAMIC WH

CCT	90CRI
2700K	1.09
3000K	1.08
3500K	1.03
4000K	1.00
5000K	0.99
6500K	0.98

WARM DIM | FLOOD DIRECT

POWER LEVELS	LIGHT DIRECT LM/4FT	TOTAL LIGHT LM/4FT	ENERGY WATTS/4FT	EFFICACY LPW	CCT/CRI
VL	1432	1432	24	60	2700/90
L	2008	2008	32	63	2700/90
S	2658	2658	36	74	2700/90
H	3199	3199	44	73	2700/90
VH	3858	3858	48	80	2700/90

CCT MULTIPLIERS, WARM DIM

CCT	90CRI
1800K	0.02
2250K	0.17
2700K	1.00

RGBW | FLOOD DIRECT

POWER LEVELS	CHANNEL (S)	LIGHT DIRECT LM/4FT	TOTAL LIGHT LM/4FT	ENERGY WATTS/4FT	EFFICACY LPW	CCT
S	White	351.3	351	10	35	4000
S	All	811.9	812	20	41	N/A

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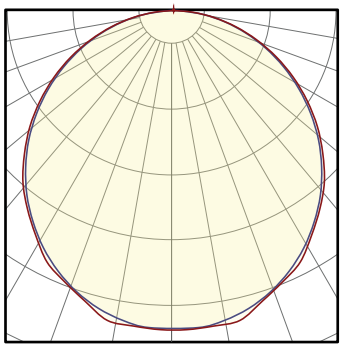
DATE	PROJECT	FIRM	TYPE

DIRECT

DIRECT OPTICS: LUMEN OUTPUT (PER 4FT)

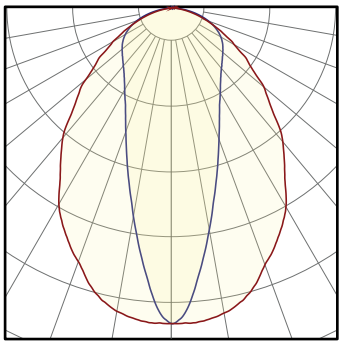
TYPE	CCT/CRI	ENERGY WATTS/ 4FT	FLOOD LM/4FT	FLOOD LPW	NARROW FLOOD LM/4FT	NARROW FLOOD LPW	AISLE LIGHTER LM/4FT	AISLE LIGHTER LPW	GRAZE LM/4FT	GRAZE LPW	WALL WASH LM/4FT	WALL WASH LPW
STATIC WHITE	4000K/80	S (32W)	3608	113	4049	127	4203	131	4393	137	3958	124
DYNAMIC WHITE	4000K/90	S (36W)	2532	70	2865	80	2965	82	3098	86	2799	78
WARM DIM	2700K/90	S (36W)	2658	74	3008	84	3113	86	3253	90	2938	82
RGBW	ALL CHANNELS UP	S (20W)	812	41	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

FLOOD*



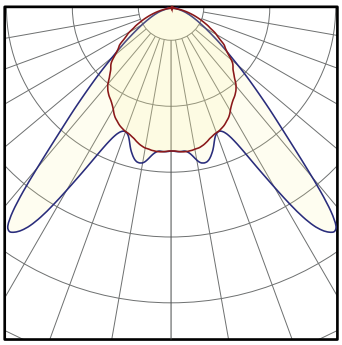
MAX CANDELA: 1244
DELIVERED LUMENS: 3608
WATTS: 32
LPW: 113

NARROW FLOOD*



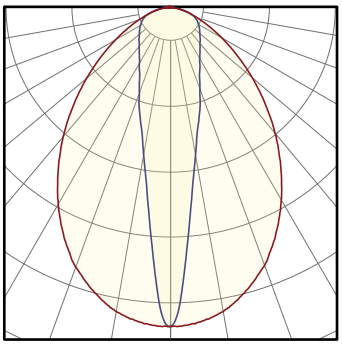
MAX CANDELA: 2851
DELIVERED LUMENS: 4049
WATTS: 32
LPW: 127

AISLE LIGHTER*



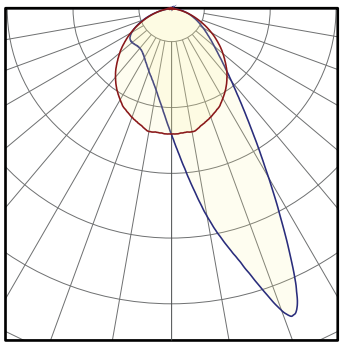
MAX CANDELA: 2565
DELIVERED LUMENS: 4203
WATTS: 32
LPW: 131

WALL GRAZE*



MAX CANDELA: 4185
DELIVERED LUMENS: 4393
WATTS: 32
LPW: 137

WALL WASH*



MAX CANDELA: 3729
DELIVERED LUMENS: 3958
WATTS: 32
LPW: 124

*Fixture Properties: 4ft Nominal Length, Standard Output, Static White 4000K/80CRI

CCT MULTIPLIERS STATIC WHITE

CCT	2700K		3000K		3500K		4000K		5000K	
CRI	80	90	80	90	80	90	80	90	80	90
MULTIPLIER	0.93	0.79	0.96	0.82	0.97	0.85	1	0.89	1.01	0.89

CCT MULTIPLIERS DYNAMIC WHITE

CCT	2700K	3000K	3500K	4000K	5000K	6000K
CRI	90	90	90	90	90	90
MULTIPLIER	1.09	1.08	1.03	1	0.99	0.98

CCT MULTIPLIERS WARM DIM

CCT	1800K	2250K	2700K
CRI	90	90	90
MULTIPLIER	0.02	0.17	1

POWER LEVEL MULTIPLIERS

POWER	VL	L	S	H	VH
STATIC WHITE	0.53	0.75	1	1.2	1.45
DYNAIMIC WHITE	0.53	0.75	1	1.2	1.45
WARM DIM	0.53	0.75	1	1.2	1.45

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DATE	PROJECT	FIRM	TYPE

MOUNTING

CABLE SUSPENDED DIRECT (CSD)
CABLE SUSPENDED INDIRECT (CSI)

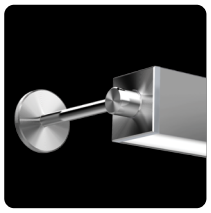
This fixture can be a static down-light: Direct (CSD) or static up-light: Indirect (CSI). Aircraft cables come in 4ft and 8ft lengths and are field adjustable.

SURFACE MOUNT SIDE (SMS)

Surface Mount Side (SMS): the fixture is mounted on the wall & gives a static down-light.

CABLE SUSPENDED - ROTATIONAL (CSR)

Using a similar setup to the Cable Suspended system above, the Cable Suspended - Rotational system has 360 degree rotational capacity with mechanical fasteners to lock fixtures in place if desired. This system offers incredible flexibility, light direction control, and a dynamic aesthetic.



ROTATIONAL ARM MOUNT (RAM)

This system uses 5/8" diameter aluminum arms and subtle details in combination with a 360 degree rotational capacity to create some of the most versatile linear fixtures in the architectural market. Standard mounting uses 3/O mud rings (supplied by others). Engineered with no visible fasteners, smooth rotation, and mechanical locking, the RAM system reveals an impressive aesthetic with exceptional versatility.

CONTINUOUS RUN (CR)

This fixture has two continuous run connection options. Our single seam continuous run option offers smooth transitions from one section to the next. The joiner bracket and alignment pin system in this option, offers easy to use, confident, single seam connections with a tight fit.

Alternatively, our 360 degree rotational option enables individual sections to rotate independently of each other, which offers adjustable asymmetric light distribution capacity along with striking appearances such as alternating up/down fixtures or spiral transitions. The flexibility within the rotational option makes for infinite design and functional possibilities.

FIXTURE WITH SINGLE SEAM CONTINUOUS RUN

CONTINUOUS RUN ROTATIONAL

CONTINUOUS RUN ROTATIONAL (SPIRAL EFFECT)

CONTINUOUS RUN SINGLE SEAM

FIXTURE WITH CONTINUOUS RUN ROTATIONAL

CANOPIES

44

4" diameter power feed and 4" diameter non-power feed canopy.

40

4" diameter machined power feed canopy and no canopy on the non-power feed side. Minimal aesthetic. Requires a 1/4-20 stud securely attached to the ceiling.

41

4" diameter machined power feed and 1-1/4" diameter machined non-power feed canopy. Offers minimal ceiling treatment while maintaining the ability to cover mistakes. Requires a 1/4-20 stud securely fastened to the ceiling.

44E, 41E, 40E
(E) International Canopy**

INTL POWERFEED CANOPY FOR INTEGRAL DRIVER FIXTURES

This canopy replaces the flat style canopy from the North American mounting style (44, 41, & 40) versions pictured)

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DATE	PROJECT	FIRM	TYPE

COLOR AND FINISH

Standard luminaire housing finishes are Satin Clear anodized, Matte Black powder coat , and Satin White powder coat. Standard hardware (end caps, knuckles, cover plates, etc.) finishes are Machined Finish, Matte Black powder coat, & Satin White powder coat. Custom anodizing and powder coated finishes are available as well. If you have a particular color/finish treatment in mind, please contact the factory and we will do our best to accommodate your project needs.

STANDARD

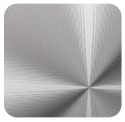
LUMINAIRE

SATIN CLEAR ANODIZING

MATTE BLACK

SATIN WHITE

HARDWARE



MACHINED COMPONENTS

MATTE BLACK

SATIN WHITE

CUSTOM

BRONZE

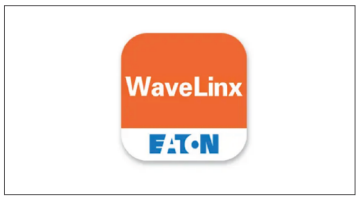
COLOR ANODIZE

SPECULAR

RAL COLORS

SENSORS

Optional fixture integrated sensors and controls offer wireless control system compatibility directly from the factory. Lumium luminaries are now available with integrated control gear from 4 major partners.



NOTE: Information on this Spec Sheet is subject to change, please visit www. ecosenselighting.com for the most updated information.

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