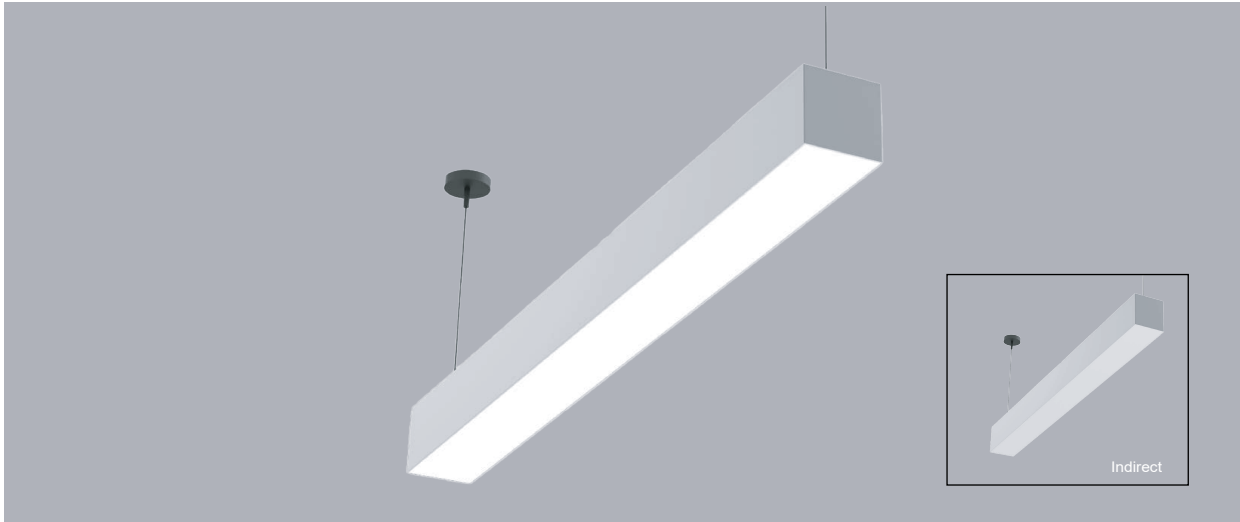


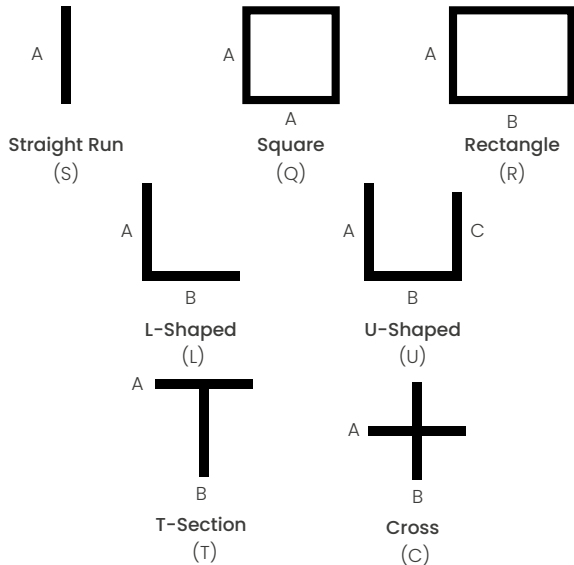
MLS3 PoE SERIES



SURFACE-SUSPENDED, DIRECT/DIRECT-INDIRECT/INDIRECT MOUNTING



SHAPES/PATTERNS

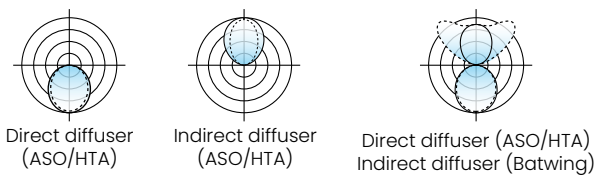


For other shapes/patterns/runs consult the factory.

FEATURES

- Power over Ethernet (PoE) enabled as Molex CoreSync.
- Tunable white feature for standard system or PoE system.
- Extruded aluminum housing for perfectly straight lines of light.
- Narrow 3-inch wide profile.
- Linear lengths; 2-ft. and above in increments of one-inch.
- Standard and custom corners, crosses and T-sections offer the ability to design unlimited patterns, shapes and runs.
- Indirect uplighting while being suspended from a ceiling.
- Dual directional illumination. Direct downlighting and indirect uplighting.
- A new custom designed batwing-type indirect diffuser. Spreads light from the linear LED boards into two distinct side lobes. When projected onto the ceiling results are a very consistent and wide spread of indirect illumination.
- A new extrusion with a shallower overall height of 4-1/8".
- New additional drop-down or pop-up diffuser.
- Custom formulated high diffusion extruded acrylic lens.
- Non-glare matte-white polyester powder coating finish.
- Cable or stem mount from ceiling, or direct surface mount.
- Cataloged standard or custom set lumens-per-foot performances.
- 80 CRI standard. 90 CRI available.
- Fixture lumens per watt ratios up to 118.
- Lighting controls and sensors.
- American Made.

DIFFUSER



molex

Fixture type:	Job information:
<input type="text"/>	<input type="text"/>

MLS3 PoE SERIES



MERCURY
Lighting Progress

SURFACE-SUSPENDED, DIRECT/DIRECT-INDIRECT/INDIRECT MOUNTING

PRODUCT DEFINITION SHEET

Ex: **MLS3-M-144-S18-825-400-35K-HTA-BW-40VDC-180996-XXXX-300-350mA-2C-CORESM-00350-BABA**

1	2	3	4	5	6	7	8	9	10	11	12	13	14
---	---	---	---	---	---	---	---	---	----	----	----	----	----

1	2	3	4
SERIES	MOUNTING	LENGTH	SHAPE (ENTER LENGTH IN PRODUCT CODE ABOVE)
<input type="checkbox"/> MLS3 LightStreams 3	<input type="checkbox"/> DI Direct/ Indirect Suspended <input type="checkbox"/> I Indirect Suspended <input type="checkbox"/> M Direct Suspended Cable Mount <input type="checkbox"/> M1 Direct Surface Mount <input type="checkbox"/> M2 Direct Suspended Stem Mount	<input type="checkbox"/> 48 48" Length <input type="checkbox"/> 96 96" Length <input type="checkbox"/> 144 144" Length Custom or Row Length. 24" and above in 1" Increments. Ex. in inches: 82, 384, etc.	<input type="checkbox"/> S__ Individual/Straight Run Section (enter length, ex. S18) <input type="checkbox"/> Q__ Square Configuration (enter side length A, ex. Q18) <input type="checkbox"/> R__/_ Rectangular Configuration (enter side lengths A and B, ex. R12/24) <input type="checkbox"/> L__/_ L-Shaped Configuration (enter side lengths A and B, ex. L12/24) <input type="checkbox"/> U__/_/_ U-Shaped Configuration (enter side lengths A, B, and C, ex. U12/12/24) <input type="checkbox"/> T__/_ T-Section (enter side lengths A and B, ex. T12/24) <input type="checkbox"/> C__/_ Cross Configuration (enter side lengths A and B, ex. C12/24)

All corners of shape must be 90°, same plane.
Lengths greater than 8' consist of multiple individual housing sections joined together. Lengths are nominal and may vary based on lamping and other specification selections.
Consult Mercury when exact lengths are required.
Consult factory for corners other than 90°

5	6	7	8	9	10
LUMENS/FT DIRECT	LUMENS/FT INDIRECT	COLOR TEMP-CCT	DIFFUSER/DIRECT	DIFFUSER/INDIRECT	LED FORWARD VOLTAGE
HTA <input type="checkbox"/> 400 <input type="checkbox"/> 500 <input type="checkbox"/> 625 <input type="checkbox"/> 825 <input type="checkbox"/> 950 <input type="checkbox"/> 1100* ASO <input type="checkbox"/> 400 <input type="checkbox"/> 500 <input type="checkbox"/> 625 <input type="checkbox"/> 670 *For Direct/Indirect light only Custom Lumen Packages.	BW <input type="checkbox"/> 400 <input type="checkbox"/> 500 <input type="checkbox"/> 625 <input type="checkbox"/> 825 <input type="checkbox"/> 950 <input type="checkbox"/> 1200 HTA For Indirect light only <input type="checkbox"/> 400 <input type="checkbox"/> 500 <input type="checkbox"/> 625 <input type="checkbox"/> 825 <input type="checkbox"/> 950 <input type="checkbox"/> 1100	80 CRI <input type="checkbox"/> 30K 3000K <input type="checkbox"/> 35K 3500K <input type="checkbox"/> 40K 4000K <input type="checkbox"/> 50K 5000K Upon request <input type="checkbox"/> TW Tunable White 2700K-6500K 90 CRI <input type="checkbox"/> 927K 2700K <input type="checkbox"/> 930K 3000K <input type="checkbox"/> 935K 3500K <input type="checkbox"/> 940K 4000K	<input type="checkbox"/> HTA High Transmission Acrylic <input type="checkbox"/> ASO Flat <input type="checkbox"/> A05 1/2" Drop <input type="checkbox"/> A10 1" Drop <input type="checkbox"/> A15 1-1/2" Drop	<input type="checkbox"/> BW Batwing Indirect <input type="checkbox"/> A05 1/2" Pop Up <input type="checkbox"/> A10 1" Pop-Up <input type="checkbox"/> A15 1-1/2" Pop-Up <input type="checkbox"/> HTA High Transmission Acrylic <input type="checkbox"/> ASO Acrylic Smooth Opal	<input type="checkbox"/> 40VDC

11		12	13
MOLEX DRIVER		CIRCUITING	EMERGENCY LIGHTING
SINGLE CHANNEL <input type="checkbox"/> 180996-XXXX-250-300mA <input type="checkbox"/> 180996-XXXX-300-350mA <input type="checkbox"/> 180996-XXXX-360-500mA <input type="checkbox"/> 180996-XXXX-510-700mA <input type="checkbox"/> 180996-XXXX-710-880mA <input type="checkbox"/> 180996-XXXX-890-1050mA	DUAL CHANNEL <input type="checkbox"/> 180996-XXXX-300-350mA <input type="checkbox"/> 180996-XXXX-360-500mA <input type="checkbox"/> 180996-XXXX-510-700mA <input type="checkbox"/> 180996-XXXX-710-880mA <input type="checkbox"/> 180996-XXXX-890-1050mA	<input type="checkbox"/> 1C Direct + Indirect dim together <input type="checkbox"/> 2C Direct and Indirect controlled independently	SINGLE CHANNEL <input type="checkbox"/> CORESM-00350 <input type="checkbox"/> CORESM-00500 <input type="checkbox"/> CORESM-00700 <input type="checkbox"/> CORESM-01050 <input type="checkbox"/> CORESM-00880 DUAL CHANNEL <input type="checkbox"/> COREDM-00350 <input type="checkbox"/> COREDM-00500 <input type="checkbox"/> COREDM-00700 <input type="checkbox"/> COREDM-01050 <input type="checkbox"/> COREDM-00880

14		
MISC.	CUSTOM HANGING POINTS	CUSTOM PAINT COLORS
<input type="checkbox"/> WL UL "Suitable for Wet Locations" labeled. <input type="checkbox"/> BABA Consult factory	<input type="checkbox"/> As Specified	<input type="checkbox"/> As Specified

MLS3 PoE SERIES



MERCURY

Lighting Progress

SURFACE-SUSPENDED, DIRECT/DIRECT-INDIRECT/INDIRECT MOUNTING

PERFORMANCE

PERFORMANCE - HTA (DIRECT)

Based on 4Ft. Module, 3500K, 80 CRI- HTA diffuser

Lumens per Foot (LF)	Delivered Lumens (L)	System Watts (W)	Lumens per Watt (LPW)
400	1600	13.6	118
500	2000	17.1	117
625	2500	21.6	116
825	3300	29.3	113
950	3800	34.5	110
1100	4400	40.8	108

Actual performance may differ by +/- 5% when operating between 120V-277V +/- 10%. Consult Factory for 90 CRI performances.

Multiplier for other Color Temp (K)

3000K	97%
3500K	100%
4000K	102%
5000K	103%



PERFORMANCE - ASO (DIRECT)

Based on 4Ft. Module, 3500K, 80 CRI- ASO diffuser

Lumens per Foot (LF)	Delivered Lumens (L)	System Watts (W)	Lumens per Watt (LPW)
400	1600	17.2	93
500	2000	21.8	92
625	2500	27.8	90
890	3560	41.7	85

Actual performance may differ by +/- 5% when operating between 120V-277V +/- 10%. Consult Factory for 90 CRI performances.

Multiplier for other Color Temp (K)

3000K	97%
3500K	100%
4000K	102%
5000K	103%



PERFORMANCE - HTA (INDIRECT)

Based on 4Ft. Module, 3500K, 80 CRI- HTA diffuser

Lumens per Foot (LF)	Delivered Lumens (L)	System Watts (W)	Lumens per Watt (LPW)
400	1600	13.6	118
500	2000	17.1	117
625	2500	21.6	116
825	3300	29.3	113
950	3800	34.5	110
1100	4400	40.8	106

Actual performance may differ by +/- 5% when operating between 120V-277V +/- 10%. Consult Factory for 90 CRI performances.

Multiplier for other Color Temp (K)

3000K	97%
3500K	100%
4000K	102%
5000K	103%



MLS3 PoE SERIES



MERCURY
Lighting Progress

SURFACE-SUSPENDED, DIRECT/DIRECT-INDIRECT/INDIRECT MOUNTING

PERFORMANCE

PERFORMANCE - HTA (DIRECT) / BW (INDIRECT)

Based on 4Ft. Module, 3500K, 80 CRI, HTA Direct Diffuser, BW Indirect Diffuser

Direct Lumens Per Foot	Indirect Lumens Per FT	Direct/Indirect %	Delivered Lumens Total (L)	System Watts (W)	Lumens Per Watt (LPW)
400	400	50/50	3200	25.8	124
	500	45/55	3600	28.9	125
	625	40/60	4100	32.9	125
	825	35/65	4900	39.7	123
	950	30/70	5400	44.2	122
	1215	25/75	6460	54.2	119
500	400	55/45	3600	29.3	123
	500	50/50	4000	32.4	123
	625	45/55	4500	36.4	124
	825	40/60	5300	43.2	123
	950	35/65	5800	47.7	122
	1215	30/70	6860	57.7	119
625	400	60/40	4100	33.8	121
	500	55/45	4500	36.9	122
	625	50/50	5000	40.9	122
	825	45/55	5800	47.7	122
	950	40/60	6300	52.2	121
	1215	35/65	7360	62.2	118
825	400	70/30	4900	41.5	118
	500	60/40	5300	44.6	119
	625	55/45	5800	48.6	119
	825	50/50	6600	55.4	119
	950	45/55	7100	59.9	119
	1200	40/60	8160	69.9	117
950	400	70/30	5400	46.7	116
	500	65/35	5800	49.8	116
	625	60/40	6300	53.8	117
	825	55/45	7100	60.6	117
	950	50/50	7600	65.1	117
	1215	45/55	8660	75.1	115
1100 MAX	400	70/25	6000	53.0	113
	500	70/30	6400	56.1	114
	625	65/35	6900	60.1	115
	825	60/40	7700	66.9	115
	950	55/45	8200	71.4	115
	1215	50/50	9260	81.4	114

Actual performance may differ by +/- 5% when operating between 120V-277V +/- 10%. Consult Factory for 90 CRI performances.

Multiplier for other Color Temp (K)

3000K 97%
3500K 100%
4000K 102%
5000K 103%



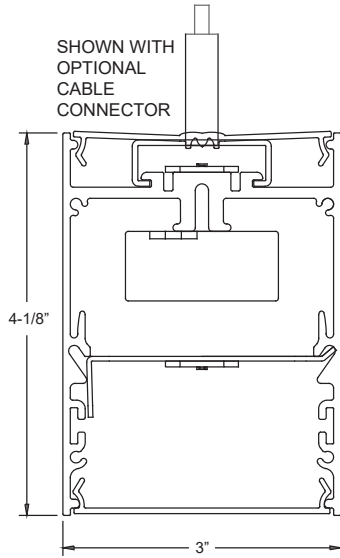
MLS3 PoE SERIES



MERCURY
Lighting Progress

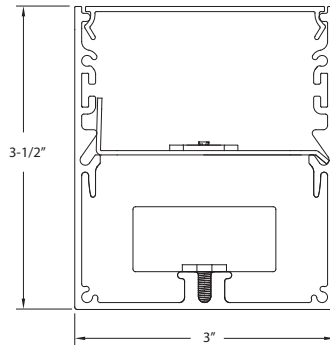
SURFACE-SUSPENDED, DIRECT/DIRECT-INDIRECT/INDIRECT MOUNTING

MOUNTING



DI

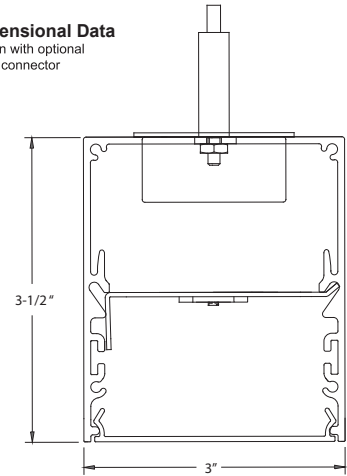
Direct/ Indirect Suspended



I

Indirect Suspended

Dimensional Data
Shown with optional
cable connector

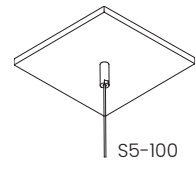
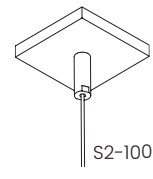
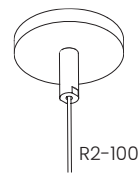
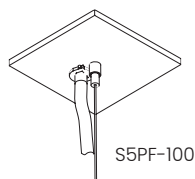
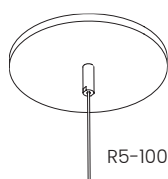
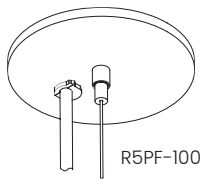


M

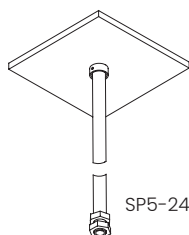
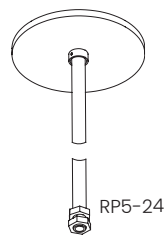
Direct Suspended Cable Mount

HANGING ACCESSORIES

CABLE SETS



STEM SETS

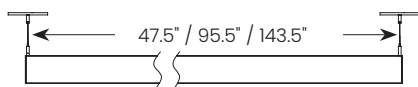
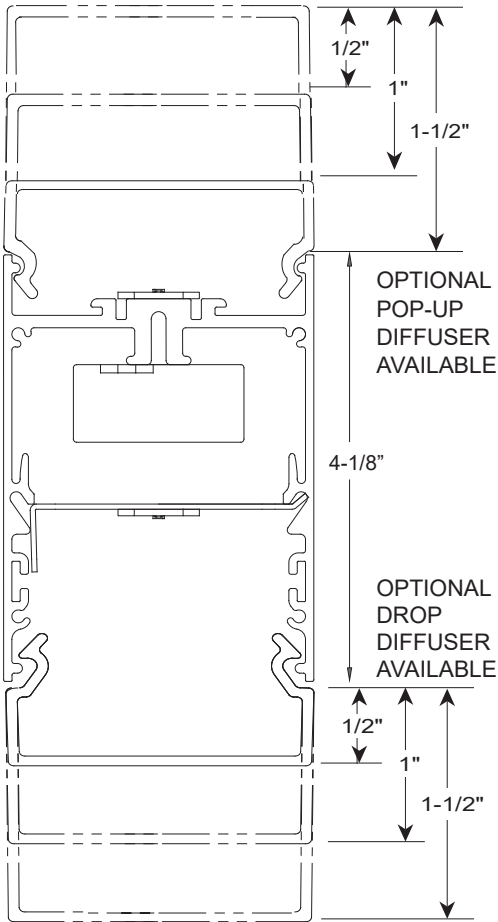


PART #	DESCRIPTION
R5PF-100	Round 5" power feed canopy, Hanging hardware, 100" long 1/16" cable.
S5PF-100	Square 5" power feed canopy, Hanging hardware, 100" long 1/16" cable.
R5-100	Round 5" canopy, Hanging hardware, 100" long 1/16" cable.
R2-100	Round 2" canopy, Hanging hardware, 100" long 1/16" cable.
S5-100	Square 5" canopy, Hanging hardware, 100" long 1/16" cable.
S2-100	Square 2" canopy, Hanging hardware, 100" long 1/16" cable.
RP5-24	Round 5" canopy, Hanging hardware, 24" long 1/2" dia. stem.
SP5-24	Square 5" canopy, Hanging hardware, 24" long 1/2" dia. stem.

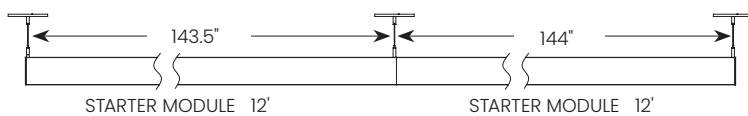
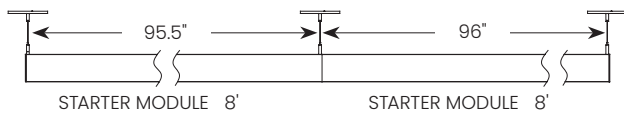
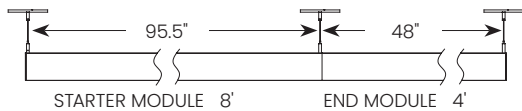
Other cable and stem lengths available. Consult factory.



DIFFUSER



INDIVIDUAL MODULE (4' / 8' / 12')



Consult factory for additional row length information.

MLS3 PoE SERIES



MERCURY
Lighting Progress

SURFACE-SUSPENDED, DIRECT/DIRECT-INDIRECT/INDIRECT MOUNTING

HOUSINGS

Extruded aluminum profile in a 0.080-inch wall thickness. Maximum length of each linear component is 12-ft. .060 aluminum ends are provided where needed at row termini. A one-piece 14GA galvanized steel joiner/aligner bracket is provided for each joint between housings. Internal cold-rolled steel components. Inconspicuous cable hanging brackets at the end. Standard or custom hanging points are provided. A custom formulated non-glare matte-white polyester powder coating provides an extremely durable and long-lasting finish. Custom color finishes on request.

DIFFUSERS

Seamless fit diffusers. Flawless and consistent end-to-end fit.
HTA Diffuser: extruded from custom formulated high transmission white acrylic material. Specify when the highest performance levels are required.
ASO Diffuser: extruded from custom formulated acrylic smooth opal material. Specify when a more esthetically white appearance is desired. Allows maximum light transmission while eliminating pixilation and hot spots. Smooth finish compliments the architectural elements
Standard direct diffuser: extruded from custom formulated high transmission white acrylic material. Allows maximum light transmission while eliminating pixilation and hot spots.
Optional direct diffuser: extruded from custom formulated smooth opal acrylic material. Offers a more esthetically white appearance. Note: reduces performance by up to 25%.
Smooth finish on both diffusers compliments the architectural elements.
Standard indirect diffuser: custom extruded batwing-type that spreads the light in a very consistent and wide beam illumination.
Additional options: 1/2", 3/4", and 1-1/2" drop style diffusers may be added to the direct position. May also be added to the indirect position as a pop-up diffuser.

LED MODULES

High performance linear configured LED module boards. Each board consists of multiple mid-power, high efficacy LEDs in a precise layout eliminating the need for supplemental heat sinking. The boards produce an even and diffuse light which maximizes optical efficiency. Compatible with the dimming performance of the LED driver. Color temperatures available 80 CRI: 3000K, 3500K and 4000K. Upon request: 5000K. Color temperatures available 90 CRI: 2700K, 3000K, 3500K and 4000K.

TUNABLE WHITE OPTION

Field tunable range 2700K through 6500K. 80CRI.

INTEGRAL LIGHTING CONTROLS

Various lighting controls and sensors are optional. Consult factory.

POE DRIVERS

UL 2108 Listed.
Plenum Rated.
LED output voltage range 12-42VDC.
Class 2 rated electrical device.
Available in both single channel and dual channel.
Efficiency: 92% (typical) at 52VDC input, full load.
Constant Current accuracy +/- 3%.
Ambient temperature: 0 to 40°C (32 to 104°F).
Storage temperature: -40 to 85°C (-40 to 185°F).
Max case temperature: 75°C (167°F).
Environmental rating: Indoor.

DIMMING PERFORMANCE - PoE DRIVER

Dimming: PWM
Dimming type: Linear
Dimming frequency: 500Hz
Dimming range: 1-100%

ELECTRICAL - ELB

EM input: 110-277 VAC.
Output: 12-42 VDC up to 1050MA.
Standby Power: 1W.

MOLEX- PoE DRIVER

The Molex CoreSync Programmable Smart LED Driver is a compact low voltage, DC/DC LED driver that can be programmed to specific power outputs, for driving Constant Current LED engines in a wide variety of light fixtures. Controlled, powered and integrated with a Molex CoreSync PoE Gateway.

This DC system provides 71.3 usable watts at the powered device, it operates at 52 VDC and has an amperage allowance 1.73 amps.

Using this product gives the end user the option of making their building a smart building combining IT and OT to one platform, while being able to control but not limited to cameras, shades, occupancy, traffic patterns and DLH.

OPERATION - ELB

In the event of a power failure, PoE power source failure or disconnection of cabling, the module will bypass normal PoE control and activate the emergency power source. The fixture will power to full brightness and return to normal operation once the emergency has been cleared.

CORNERS

Standard 90 degree corners. Custom angled corners.

CORESYNC EMERGENCY LIGHTING BYPASS

UL 924 Compliant, Indoor Rated.
Ambient operating temperature 0-40C (32-104F).

INSTALLATIONS

Designed to be suspended on cables. Specify **M** For direct surface mounting to most ceiling types, specify **M1** and consult factory.

For stem mounting specify **M2** and consult factory. Designed to be suspended on cables.

Easy-connect cable hangers make installations easy. Lengths of 12-ft. and less to make one housing with two ends pre-installed.

Lengths over 12-ft. will be engineered to job requirements using multiple housings with one end pre installed at each row end. Lengths over 12-ft. will include appropriate job required quick-connect plug-thru wire harnesses and housing joiners. All individual modules or multiple module runs to include job required feed wire as specified.

Standard or custom hanging points will be provided per job specifications.

CERTIFICATE OF SAFETY COMPLIANCE AND LISTINGS

Luminaire: UL and CUL listed 1598 and bears their label. Suitable for damp locations.

Optional: Suitable for wet locations marking is available. Some limitations apply. Contact factory for all details.

WARRANTY

5-year limited warranty is standard. Special 10-year warranty available on a job-to-job basis. Complete LED warranty terms available at www.mercltg.com

Actual performance may differ as a result of end-user environment and application.

Most LED luminaires are suitable to operate in ambient temperatures from -20C (-4F) to 25C (77F).

The following exclusions apply: Luminaires with standby lighting option, integral lighting controls options, or wireless control options. Consult factory.

LM-79 testing was measured under a controlled 25C (77F) ambient operating temperature.