LIGHTSTREAMS

MLS3-M PoE SERIES



Suspended or Surface Mount

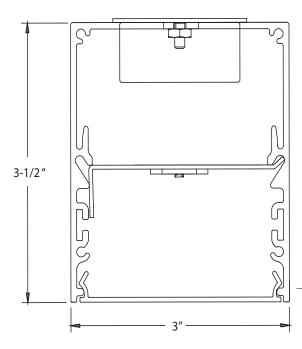
Architectural Linear LED Illuminating System | LIGHTSTREAMS 3



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.
- 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.





Performance-HTA

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

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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	

Multiplier for other Color Temp (K) 3000K 97% 3500K 100% 4000K 102% 5000K 103%



Actual performance may differ by +/- 5% when operating between 12V-42VDC.

Performance-ASO

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	1
500	2000	21.8	92	:
625	2500	27.8	90	1
890	3560	41.7	85	

Multiplier for other Color Temp (K)

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



Actual performance may differ by +/- 5% when operating between 12V-42VDC







Fixture Type: Job Information:

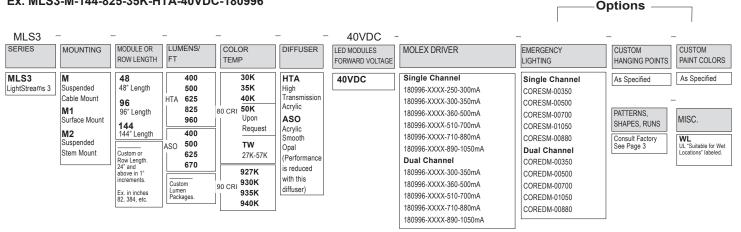


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Architectural Linear LED Illuminating System | Suspended or Surface Mount

Ex. MLS3-M-144-825-35K-HTA-40VDC-180996





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.

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 smooth opal acrylic material. Specify when a more esthetically white appearance is desired.

Smooth finish on both diffusers compliments the architectural elements.

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.

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 5700K. 80CRI.

ARCHITECTURAL LIGHTING

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%

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 camaras, shades, occupancy, traffic patterns and DLH.

CoreSync Emergency Lighting Bypass

UL 924 Compliant, Indoor Rated.

Ambient operating temperature 0-40C (32-104F)

Electrical- ELB

EM input: 110-277 VAC.

Output: 12-42 VDC up to 1050MA.

Standby Power: 1W.

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.

Integral Lighting Controls

Various lighting controls and sensors are optional. Consult factory.

Corners and Patterns

Standard 90-degree corners.

Custom angled corners, crosses and T-sections. Consult factory.

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. Lengths of 12-ft. and less to use 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 control options, or wireless control options.

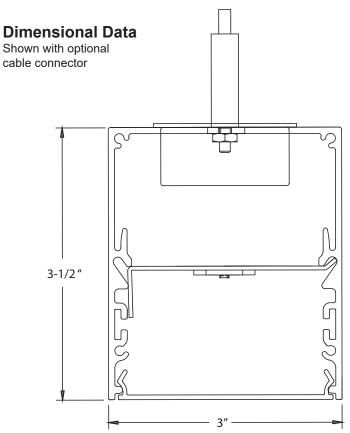
Consult factory.

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

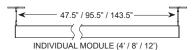


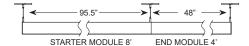
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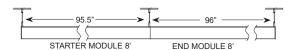


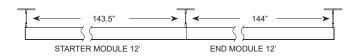


Mounting Information



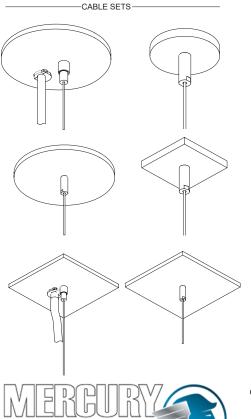


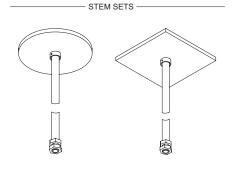




Consult factory for additional row length information

Hanging Accessories





Part #	Description
R5PF-100	Round 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.
S5PF-100	Square 5" power feed 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.

Patterns, Shapes, Runs



90 Degree Corner



T-Section



Cross

