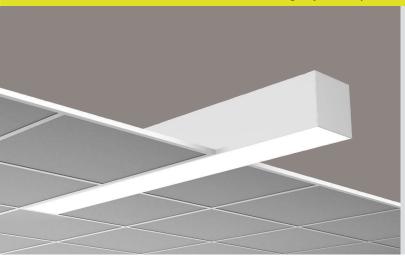
# <u>LIGHTSTRE</u>AMS



## MLS4-G PoE SERIES

# **Recessed Mount for 4"- OC Grid Ceilings**

# Architectural Linear LED Illuminating System | LIGHTSTREAMS 4

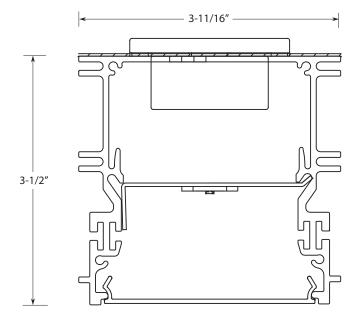


## Features

- 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 profile fits 4-inch on-center grid ceilings.
- Linear lengths; 2-ft. and above in increments of one-inch.
- Custom formulated high diffusion extruded acrylic lens.
- Non-glare matte-white polyester powder coating finish.

- Compatible with various grid ceiling types.
- Cataloged standard or custom set lumens-per-foot performances.
- 80 CRI standard. 90 CRI available.IC Rated.
- CCEA option 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

	Lumens per Watt (LPW)	System Watts (W)	Delivered Lumens (L)	Lumens per Foot (LF)
	118	13.6	1600	400
Multipli	117	17.1	2000	500
Color T	116	21.6	2500	625
3000K	113	29.3	3300	825
3500K 4000K	110	34.5	3800	950
5000K	107	41.7	4480	1120



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

## **Performance-ASO**

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

Lumens Foot (l	Delivered Lumens (L)	System Watts (W)	Lumens per Watt (LPW)		er for other	SELIVERING UP TO
400	1600	16.9	95	Color Te	emp (K)	
500	2000	21.3	94	3000K	97%	95
625	2500	27.3	92	3500K 4000K	100% 102%	
900	3600	41.4	87	5000K	103%	MENS PER WAT

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



Fixture Type:

Job Information:



Mercury Lighting Products Co, Inc. | 20 Audrey Place STE 2 | Fairfield, NJ 07004-3416 | Tel: 800.637.2584 | Fax: 973.244.9522 | mercltg.com Specifications subject to change, consult factory when critical.

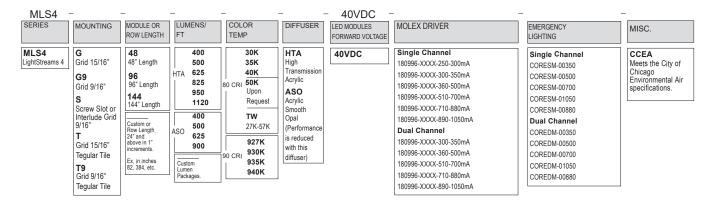


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# MLS4-G PoE Series | LIGHTSTREAMS 4

Architectural Linear LED Illuminating System | Recessed Mount for Grid Ceilings

## Ex. MLS4-G-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.

A custom formulated non-glare matte-white polyester powder coating provides an extremely durable and long lasting finish.

Easy-use grid pry outs provided.

Housing intended for recessing grid type ceiling system.

#### 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.

#### 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%

#### 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.

#### Installations

Designed for recessed installation into acoustical grid ceiling systems, including Armstrong  $^{\mbox{\scriptsize end}}$  4" TechZone  $^{\mbox{\scriptsize m}}.$ 

See ceiling types section. Availability for various types; 15/16" grid, 9/16" grid, 9/16" screw-slot, 9/16" interlude, 15/16" tegular, 9/16" tegular.

Grid pry outs lock over top of gridwork. Auxiliary suspension required to building structure.

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 preinstalled at each row end.

Lengths over 12-ft. will include appropriate job required quick-connect plug-thru wire harnesses and housing joiners.

Wiring access plate provided on top. End plates have 7/8" KO.

#### Certificate of Safety Compliance and Listings

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

IC Rated.

CCEA option meets the City of Chicago Environmental Air specifications.

#### Warranty

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

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.



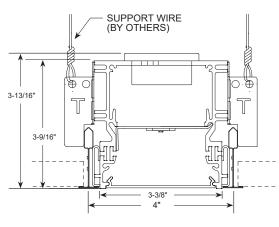


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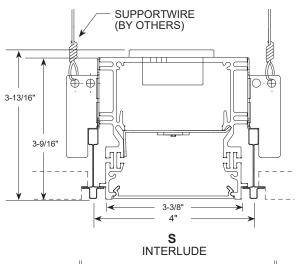


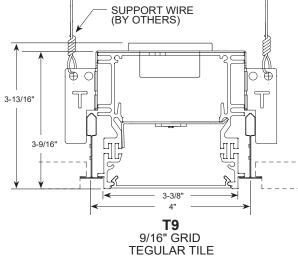


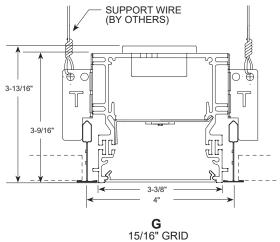
# **Grid Ceiling Types and Dimensions**



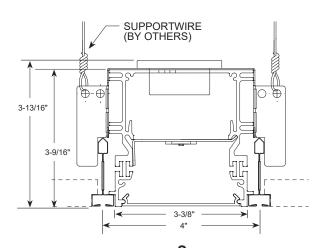


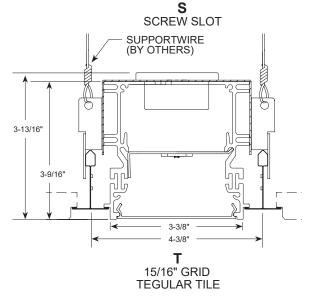












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