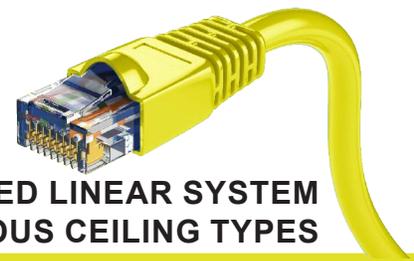


LIGHTSTREAMS



MLS3-WMR POE SERIES

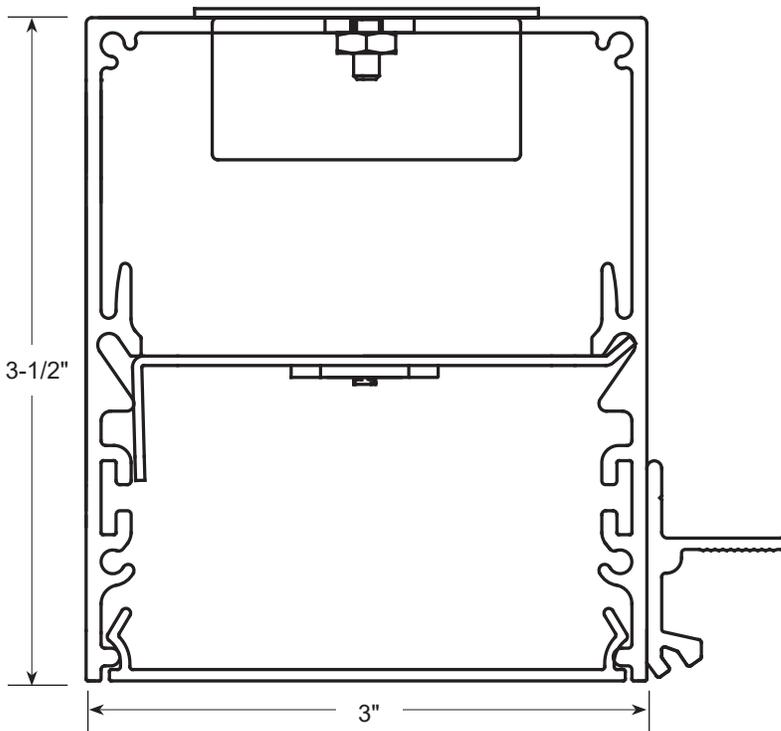
WALL MOUNTED RECESSED LINEAR SYSTEM MOUNTS FLUSH WITH VARIOUS CEILING TYPES

Architectural Linear LED Illuminating System | LIGHTSTREAMS 3



Features:

- Power over Ethernet (PoE) enabled as Molex CoreSync.
- Tunable white feature for PoE system.
- Wall mounted/recessed direct illumination.
- Mounts flush with various ceiling types.
- Enhances and defines the perimeter of the ceiling.
- Direct downlighting for wall grazing and general room illumination.
- 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.
- Custom formulated high diffusion extruded acrylic lens.
- Non-glare matte-white polyester powder coating finish.
- Cataloged standard or custom set lumens-per-foot performances.
- 80 CRI standard. 90 CRI available.
- Standard and custom corners
- American Made.



Performance

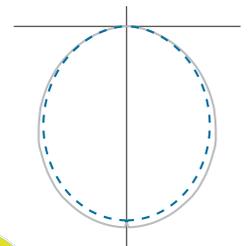
Based on 4Ft. Module, 3500K, 80 CRI, HTA diffuser

Lumens per Foot (LF)	Delivered Lumens (L)	System Watts (W)	Lumens per Watt (LPW)
400	1600	13.5	118
500	2000	17.2	116
625	2500	22.0	113
825	3300	30.3	108
950	3800	35.8	106
1043	4175	40.0	104

Multiplier for other Color Temp (K)

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

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



Fixture Type:

Job Information:



MLS3-WMR PoE Series | LIGHTSTREAMS 3



Architectural Linear LED Illuminating System | Wall Mounted Recessed Linear System Mounts Flush with Various Ceiling Types

Ex: MLS3-WMR-N5-96-825-35K-HTA-40VDC-180996

Options

40VDC									
SERIES	MOUNTING	MODULE LENGTH	LUMENS/ FT	COLOR TEMP	DIFFUSER	LED MODULES FORWARD VOLTAGE	MOLEX DRIVER	EMERGENCY LIGHTING*	MISC.
MLS3-WMR LightStreams	N5 Trimless Plaster-In for 5/8" Drywall N1 Trimless Plaster-In for 1/2" Drywall G Grid 9/16" or 15/16" S Screw Slot or Interlude Grid 9/16"	48 48" Length 96 96" Length 144 144" Length	400 500 625 825 950 1043	30K 35K 40K 50K Upon Request TW 27K-57K 927K 930K 935K 940K	HTA High Transmission Acrylic ASO Acrylic Smooth Opal	40VDC	Single Channel 180996-XXXX-250-300mA 180996-XXXX-300-350mA 180996-XXXX-360-500mA 180996-XXXX-510-700mA 180996-XXXX-710-880mA 180996-XXXX-890-1050mA Dual Channel 180996-XXXX-300-350mA 180996-XXXX-360-500mA 180996-XXXX-510-700mA 180996-XXXX-710-880mA 180996-XXXX-890-1050mA	Single Channel CORESM-00350 CORESM-00500 CORESM-00700 CORESM-01050 CORESM-00880 Dual Channel COREDM-00350 COREDM-00500 COREDM-00700 COREDM-01050 COREDM-00880	WL UL "Suitable for Wet Locations" labeled.

*Available in modules of 4-ft. and longer. / Maximum 625 Lumens per foot packages.

Housings

Extruded aluminum profile in a 0.080-inch wall thickness.

Maximum length of each linear component is 12-ft. 18GA steel 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.

Housing intended for recessing at the perimeter of various types of ceiling systems.

Wall side of housing mounts directly to the wall.

With drywall trimless fit ceiling types, housing opposite wall side requires plaster-in by ceiling contractor.

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

Diffusers

Seamless fit diffusers. Flawless and consistent end-to-end fit.

Extruded from custom formulated high transmission white acrylic material.

Allows maximum light transmission while eliminating pixilation and hot spots.

Smooth finish 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.

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 5700K.

80CRI.

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 cameras, 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.

Corners

Standard 90-degree corners for inside or outside turns.

Custom angled corners.

Contact factory.

Installations

Designed for recessing at the perimeter of various type of ceiling systems.

Wall side of housing mounts directly to the wall.

Trimless housing opposite wall side requires plaster-in by ceiling contractor.

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.

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).

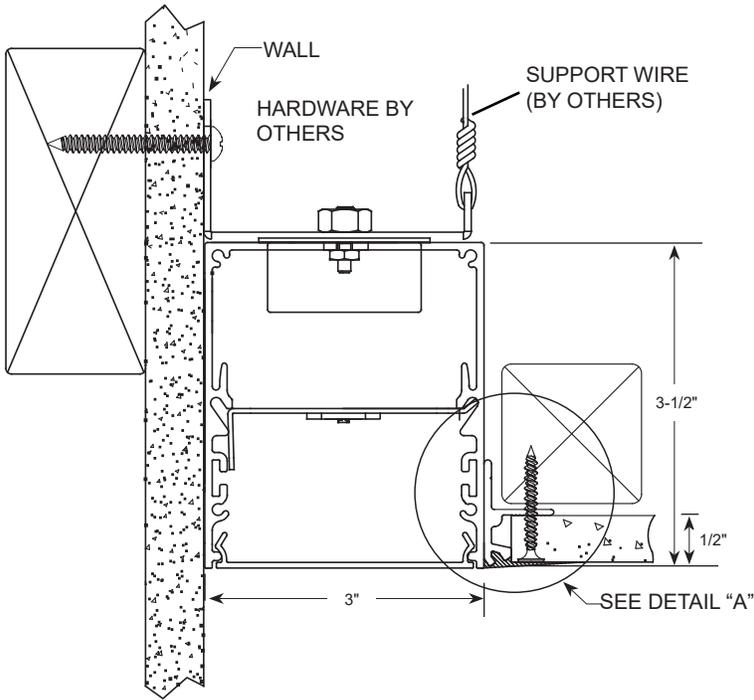
The following exclusions apply: Luminaires with optional standby lighting option, integral lighting controls options, or wireless control options. Consult factory.

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

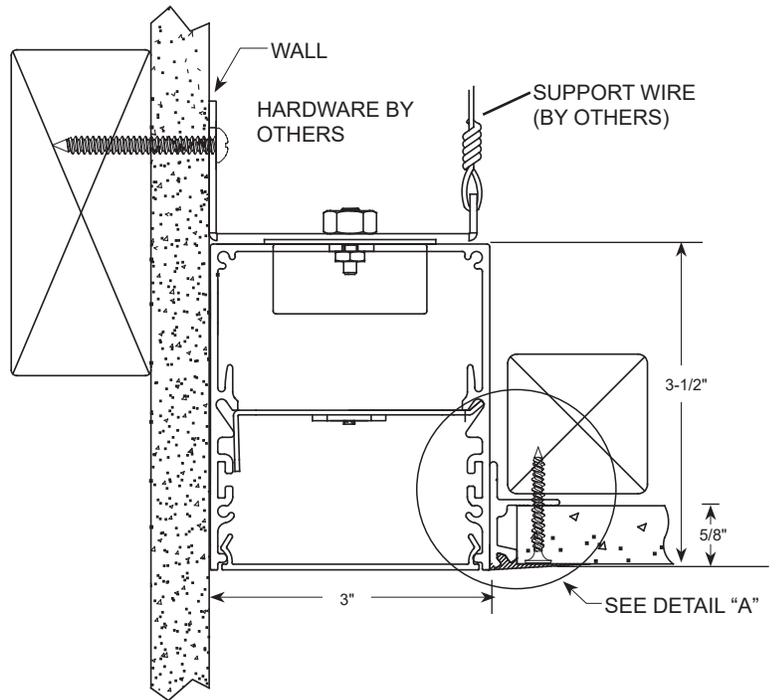




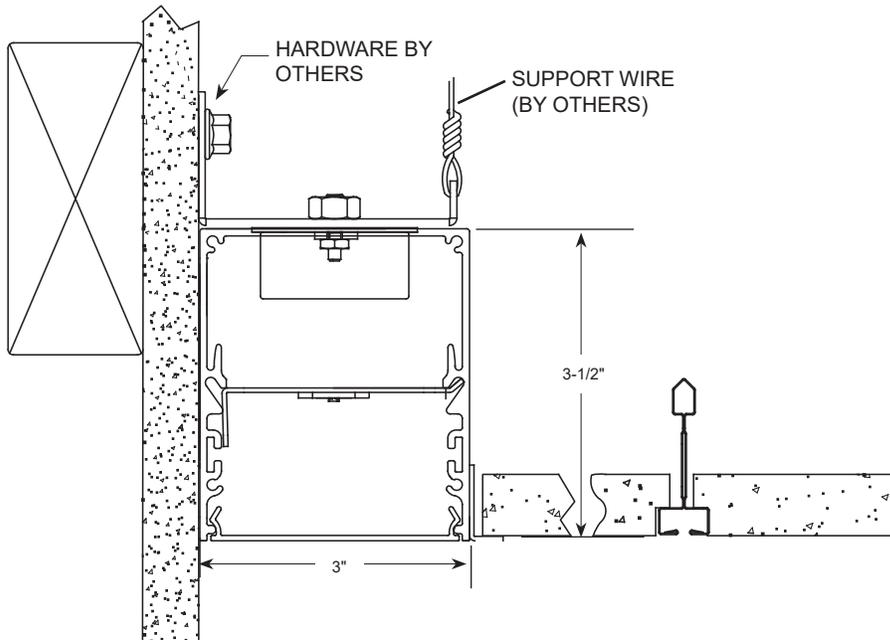
Dimensional Data



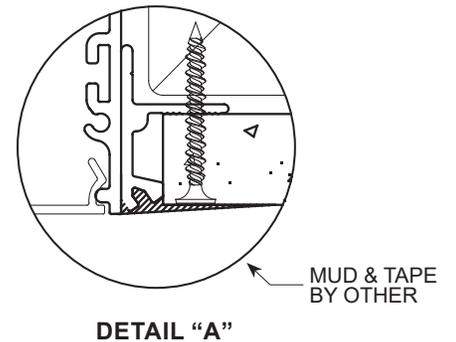
TRIMLESS FIT FOR 1/2" DRYWALL



TRIMLESS FIT FOR 5/8" DRYWALL



9/16 SCREW-SLOT



DETAIL "A"

