LIGHTSTREAMS

MLS3-DI SERIES

SUSPENDED DIRECT/INDIRECT

Architectural Linear LED Illuminating System | LIGHTSTREAMS 3
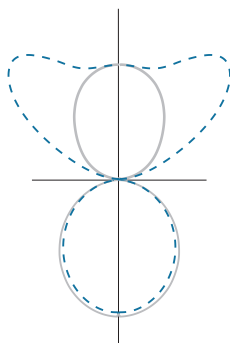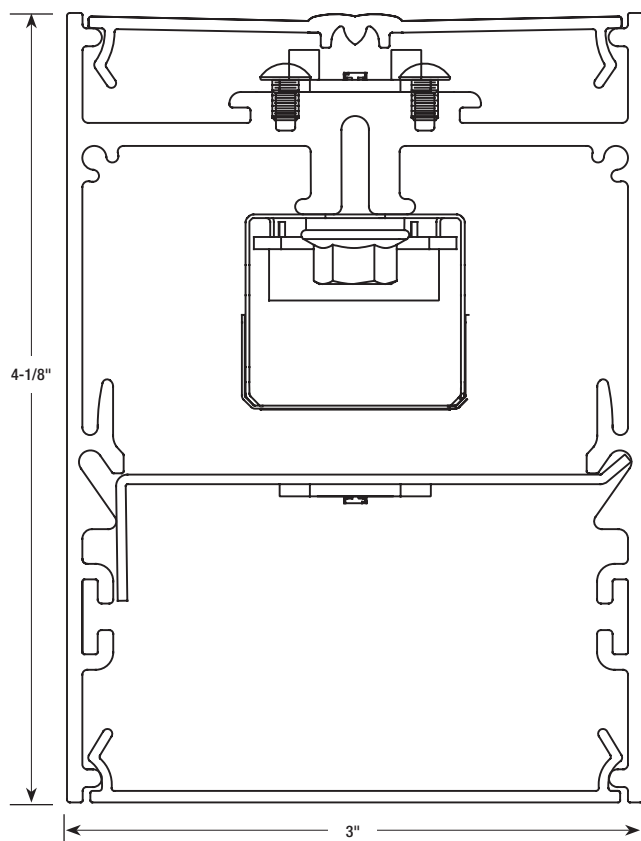
New Gen-3 Features:

- A new extrusion with a shallower overall height of just 4-1/8".
- 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 the results are a very consistent and wide spread of indirect illumination.
- New additional drop-down or pop-up diffuser options.

Standard Features:

- Dual directional illumination. Direct downlighting and indirect uplighting.
- 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.
- Custom colors available.
- Cable mount from ceiling.
- Cataloged standard or custom set lumens-per-foot performances.
- 80 CRI standard. 90 CRI available.
- Dimming down to 1% on 0-10V controls.
- Fixture lumens per watt ratios up to 124.
- Lighting controls and sensors.
- Standard and custom corners
- American Made.

Made in USA

Cross Section (actual size)

4-1/8"

3"

DELIVERING UP TO **124** LUMENS PER WATT

Performance

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

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

Direct Lumens Per FT	Indirect Lumens Per FT	Direct/ Indirect %	Delivered Lumens	System Watts (W)	Lumens Per Watt (LPW)
400	400	50/50	3200	27	119
	500	45/55	3600	30	120
	625	40/60	4100	33	124
	825	35/65	4900	40	123
	950	30/70	5400	44	123
	1215	25/75	6460	54	120
500	400	55/45	3600	31	116
	500	50/50	4000	34	118
	625	45/55	4500	37	122
	825	40/60	5300	44	120
	950	35/65	5800	48	121
	1215	30/70	6860	58	118
625	400	60/40	4100	36	114
	500	55/45	4500	39	115
	625	50/50	5000	42	119
	825	45/55	5800	49	118
	950	40/60	6300	53	119
	1215	35/65	7360	63	117
825	400	70/30	4900	44	111
	500	60/40	5300	47	113
	625	55/45	5800	50	116
	825	50/50	6600	57	116
	950	45/55	7100	61	116
	1215	40/60	8160	71	115
950	400	70/30	5400	49	110
	500	65/35	5800	52	112
	625	60/40	6300	55	115
	825	55/45	7100	62	115
	950	50/50	7600	66	115
	1215	45/55	8660	76	114
1043	400	70/30	5775	53	109
	500	65/35	6175	56	110
	625	60/40	6675	59	113
	825	55/45	7475	66	113
	950	50/50	7975	70	114
	1215	45/55	9035	80	113

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

MERCURY ARCHITECTURAL LIGHTING

fixture type:

job information:

Ex: MLS3-DI-144-825-950-35K-HTA-BW-1%-2C-U-EM12-S5

Options

MLS3	-	DI	-	-	-	-	-	-	-	-	-	-	-	-	-
Series		**Mounting**	**Module or Row Length**	**Lumens/Ft Direct**	**Lumens/Ft Indirect**	**Color Temp**	**Diffuser/Direct**	**Diffuser/Indirect**	**Driver**	**Circuiting**	**Voltage**	**Standby Modules***	**Lighting Controls**	**Custom Paint Colors**

Series	Mounting	Module or Row Length	Lumens/Ft Direct	Lumens/Ft Indirect	Color Temp	Diffuser/Direct	Diffuser/Indirect	Driver	Circuiting	Voltage	Standby Modules*	Lighting Controls	Custom Paint Colors
MLS3 LightStreams 3	**DI** Direct/Indirect Suspended	**48** 48" Length **96** 96" Length **144** 144" Length ___ Custom or Row Length. 24" and above in 1" Increments. Ex. in inches: 82, 384, etc.	**400** **500** **625** HTA **825** **950** **1043** ___ Custom Lumen Packages. Lumen Packages with ASO diffuser. Contact Factory.	**400** **500** **625** HTA **825** **950** **1215** ___ Custom Lumen Packages. Lumen Packages with ASO diffuser. Contact Factory.	**30K** **35K** **40K** **50K** Upon Request _(80 CRI)_ **927K** **930K** **935K** **940K** _(90 CRI)_	**HTA** High Transmission Acrylic **ASO** Flat **A05** 1/2" Drop **A10** 1" Drop **A15** 1-1/2" Drop	**BW** Batwing Indirect **A05** 1/2" Pop-Up **A10** 1" Pop-Up **A15** 1-1/2" Pop-Up	**1%** 0-10V 1% Dimming **SR** Sensor Ready (Required for Certain Controls, Contact Factory) **LDE1** Lutron Hi-Lume **LDE5** Lutron 5-Series ___ As Specified	**1C** Single Circuit **2C** Dual Circuit Direct/ Indirect	**U** Uni 120V-277V **1** 120V **7** 277V **X** As Specified	**EM7** **EM10** **EM12** ___ No Option	**S1** Philips EasySense **S2** Magnum M9 (Dali) **S5** Enlighted (C2-D2) ___ No Option	**As Specified**

*Available in modules of 4-ft. and longer.

Housings

Extruded aluminum profile in a 0.080-inch wall thickness.

Maximum length of each linear component is 12-ft.

14GA 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.

Inconspicuous cable hanging brackets at the ends.

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.

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 acrylic smooth opal 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 of 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.

LED Drivers

Factory programmable constant current LED power supply.

Multiple standard drive current outputs (factory set by Mercury) are cataloged with their corresponding lumens-per-foot offering. Upon request, custom drive current outputs and lumens-per-foot options are available.

Note: Certain cataloged lumens-per-foot offerings may be provided with a non-programmable constant current LED power supply at Mercury's discretion. Contact factory if critical.

Universal voltage input, 120V-277V, 50HZ-60HZ.

Specification grade dimming down to 1% on 0-10V dimming controls.

Sensor ready (SR) drivers compatible with most lighting controls are optional. Consult factory.

Lutron drivers available: LDE1 and LDE5 series.

Standby Lighting Options

Self contained module, 7W, 10W or 12W as specified. Battery backup upon loss of power. Available in modules of 4-ft. and longer.

Integral Lighting Controls

Various lighting controls and sensors are optional. Consult factory.

Corners

Standard 90-degree corners.

Custom angled corners.

Installations

Designed to be suspended on cables.

Easy-connect cable hangers make installations easy.

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.

Certificate of Safety Compliance and Listings

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

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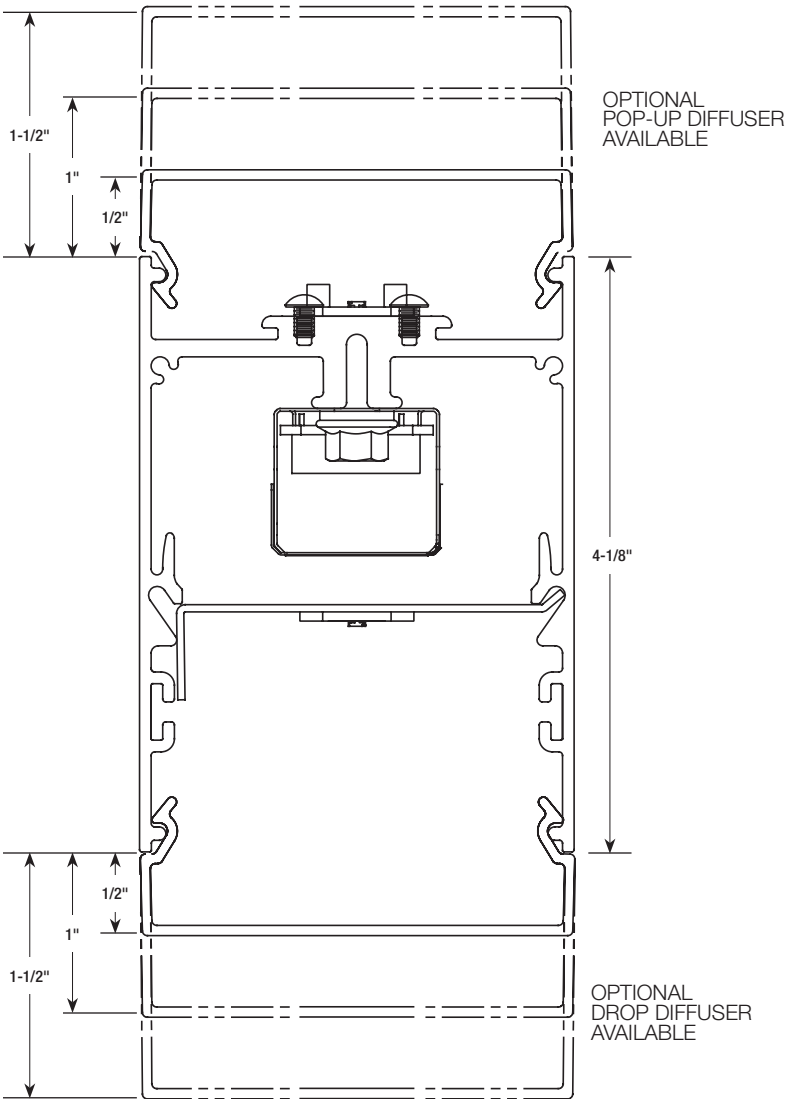
LM-79 testing was measured under a controlled 25C (77F) ambient operating temperature.
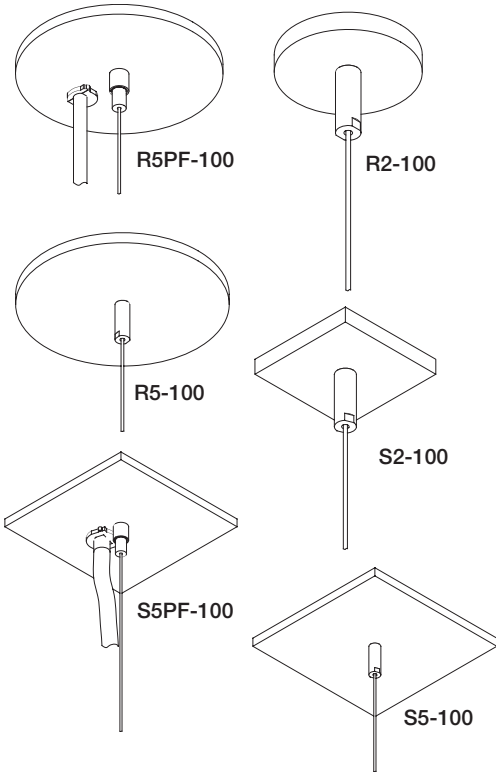
Hanging Accessories

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.

Other cable lengths available.

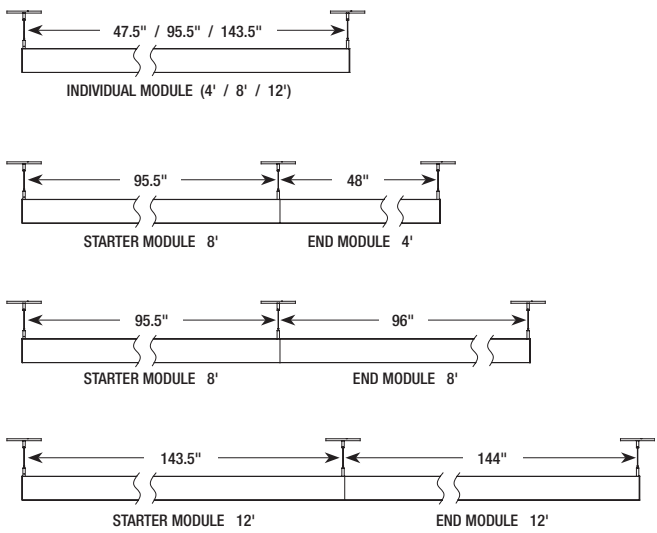**MERCURY ARCHITECTURAL LIGHTING**

Mercury Lighting Products Co., Inc. | 20 Audrey Place | Fairfield, NJ 07004 | Tel: 800.637.2584 | Fax: 973.244.9522 | mercltg.com

Specifications subject to change, consult factory when critical.

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Dimensional Data

1-1/2"
1"
1/2"
OPTIONAL
POP-UP DIFFUSER
AVAILABLE

4-1/8"

1/2"
1"
1-1/2"
OPTIONAL
DROP DIFFUSER
AVAILABLE

Hanging Accessories

R5PF-100

R2-100

R5-100

S2-100

S5PF-100

S5-100

Mounting Information

47.5" / 95.5" / 143.5"
INDIVIDUAL MODULE (4' / 8' / 12')

95.5" 48"
STARTER MODULE 8' END MODULE 4'

95.5" 96"
STARTER MODULE 8' END MODULE 8'

143.5" 144"
STARTER MODULE 12' END MODULE 12'

Consult factory for additional row length information

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