

# LIGHTSTREAMS

MLS3-M  smartengine | wtec SERIES



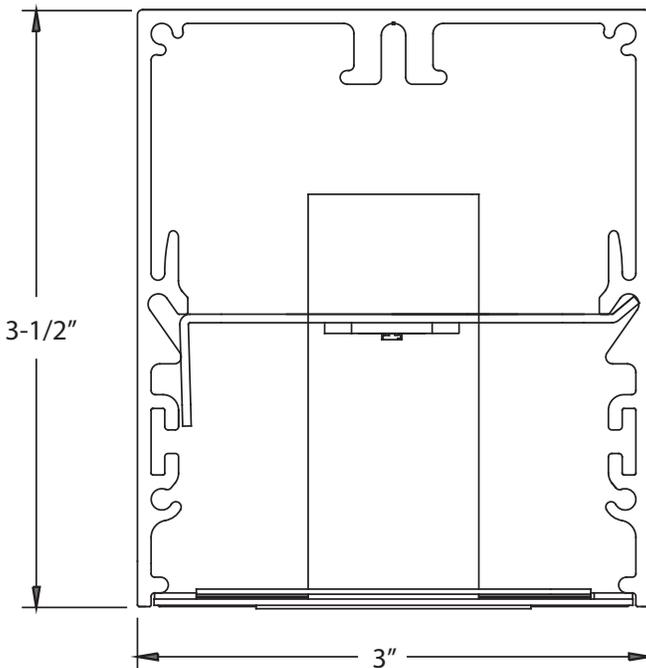
Suspended or Surface Mount

## Architectural Linear LED Illuminating System | LIGHTSTREAMS 3



### Features

- Network Powered Lighting via smartengine by wtec.
- Tunable White feature via smartengine's human centric smart lighting.
- Extruded aluminum housings produce 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 93.
- Lighting controls and sensors.
- American Made.



### Performance- ASO

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

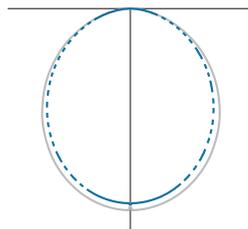
Lumens per Foot (LF)	Delivered Lumens (L)	System Watts (W)	Lumens per Watt (LPW)
400	1600	17.2	93
500	2000	21.8	92
625	2500	27.8	90
890	3560	41.7	85

Multiplier for other Color Temp (K)

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



Actual performance may differ by +/- 5% when operating between 12V-277V +/- 10%. Consult factory for 90 CRI performance.



Fixture Type:

Job Information:



Options

MLS3				ASO				Options			
SERIES	MOUNTING	MODULE OR ROW LENGTH	DRIVE CURRENT	DELIVERED LUMENS	NUMBER OF CHANNELS	COLOR TEMP	DIFFUSER	CUSTOM HANGING POINTS	CUSTOM PAINT COLORS	PATTERNS, SHAPES, RUNS	MISC.
MLS3 LightStreams 3	M Suspended Cable Mount	48 48" Length	350	1470L / 16W	1 CH	30K 35K 40K 50K Upon Request  TW 27K-65K	ASO Acrylic Smooth Opal (Performance is reduced with this diffuser)	As Specified	As Specified	Consult Factory See Page 3	WL UL "Suitable for Wet Locations" labeled.
		48" 500	2070L / 22W	1 CH							
	96 96" Length	700	2850L / 32W	1 CH							
	Custom or Row Length. 24" and above in 1" increments. Ex. in inches 82, 384, etc.	96" 700	2940L / 31W	1 CH							
M1 Surface Mount	M2 Suspended Stem Mount	96" 1000	1400	4140L / 44W	2 CH	2 CH	Custom Lumen Packages.	Custom Lumen Packages.			
		96" 1400	5700L / 64W	2 CH							

**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.

**smartengine**

Network Powered Lighting delivers 18-48V and 150-700mA to power control light fixtures from a central smartengine device.  
 No driver, node or active component at the fixture level.  
 Factory or field programmable for custom drive currents offering desired lumen-per-foot performance.  
 Integrated smartsensor or an RJ45 whip for external smartsensor.  
 Smartsensor provides temperature, motion, light level, energy consumption and optimal BLE.  
 Each channel will require a home run back to the smartengine.

**Emergency Lighting- Optional**

smartengine is UL924 Listed.

**Tunable White Option**

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

**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.

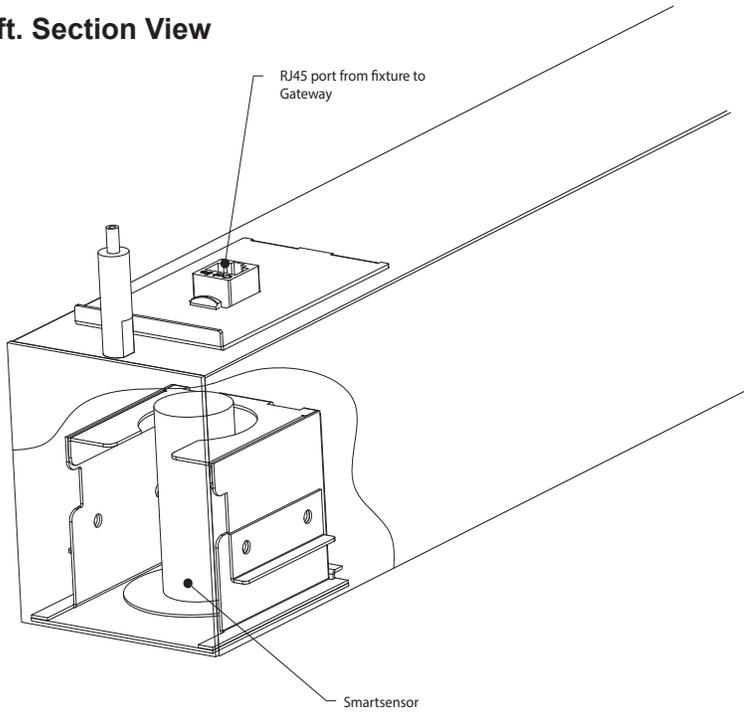
**Warranty**

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](http://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.

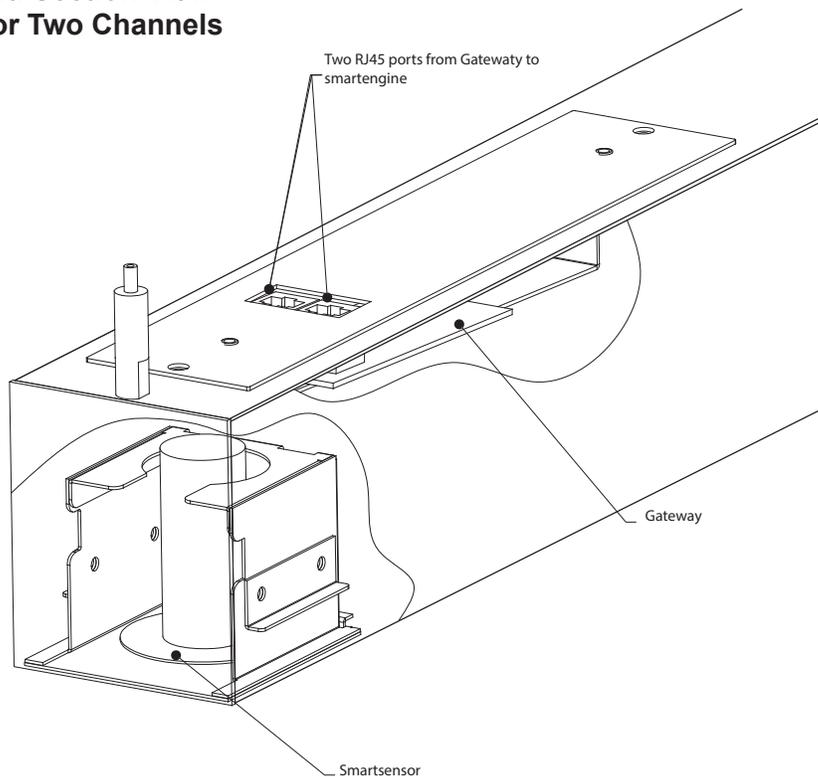




### 4ft. Section View



### 8ft. Section View for Two Channels



### 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

