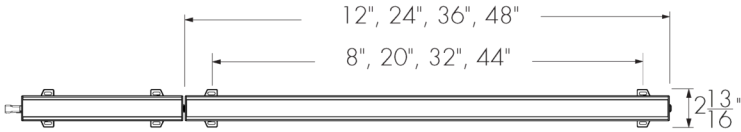
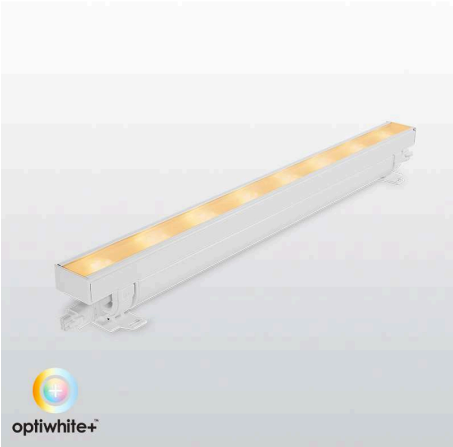


Project Name

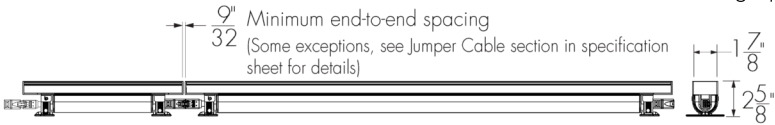
Type

Catalog / Part Number

Qty



Top View  
ST Mounting Option Shown



Front and Side Views

Photometric Summary

	Delivered Output (lm)	Intensity (Peak cd)
10°x10°	3,471	33,594
10°x30°	3,529	16,262
10°x60°	3,468	8,920
30°x10°	3,661	11,707
60°x10°	3,400	7,719
30°x60°	3,407	4,692
30°x30°	3,421	6,174
60°x60°	3,361	2,744
90°x90°	3,280	1,486

1. Based on MPCP/4000K, full output, 48 in.  
2. Photometric performance is measured in compliance with IESNA LM-79-24.  
3.  
Refer to the Lumencore Linear Graze Dynamic White Photometric Guide on Lumenpulse website for information on other color temperatures.

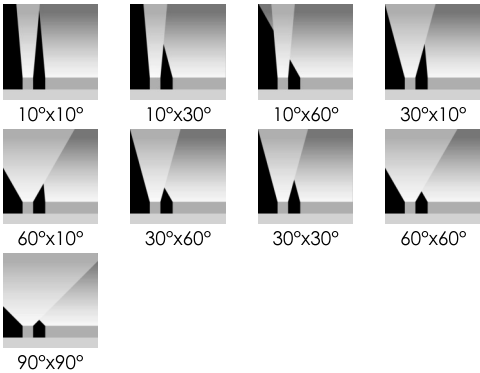
Description

The Lumencore Linear Graze Dynamic White is a versatile lighting solution designed to enhance architectural features with its exceptional quality and adaptability. Featuring advanced Optidrive and Optiwhite+ technologies, this luminaire allows for seamless transitions between color temperatures, from warm to cool, providing customizable illumination that meets the needs of any space. With high CRI and R9 values, it ensures accurate color rendering while reducing glare for optimal visual comfort. Its sleek design and precise optics deliver even light distribution, making it ideal for grazing walls, accentuating textures, and creating inviting atmospheres in both commercial and residential environments. Perfect for projects focused on wellness and aesthetic appeal, the Lumencore Linear Graze Dynamic White transforms interiors into beautifully lit spaces.


Features

Length	12: 12 in, 24: 24 in, 36: 36 in, 48: 48 in
Color and Color Temperature	MCDTW: Custom CCT Range Dim to Warm (6500K to 1800K) MCDWH: Custom CCT Range Dynamic White (1800K to 6500K) MCCFX: Custom Fixed Color Temperature MDTW: Dim to Warm (2700K to 2200K) MDTWP: Dim to Warm Plus (3500K to 1800K) MDWW: Dynamic Warm White (2200K to 3000K) MDWWP: Dynamic Warm White Plus (2200K to 3500K) MDWH: Dynamic White (2700K to 6500K) MPCP: Pastel Red, Green, Blue (Phosphor Converted)


Optic




Color and Color Temperature




**opticolor™**  
Custom  
CCT  
Range  
Dim to  
Warm  
(6500K to  
1800K)




**opticolor™**  
Custom  
CCT  
Range  
Dynamic  
White  
(1800K to  
6500K)




**opticolor™**  
Custom  
Fixed  
Color  
Temperature




**opticolor™**  
Dim to  
Warm  
(2700K to  
2200K)




**opticolor™**  
Dim to  
Warm Plus  
(3500K to  
1800K)




**opticolor™**  
Dynamic  
Warm  
White  
(2200K to  
3000K)



**opticolor™**  
Dynamic  
Warm  
White Plus  
(2200K to  
3500K)



**opticolor™**  
Dynamic  
White  
(2700K to  
6500K)



**opticolor™**  
Pastel  
Red,  
Green,  
Blue  
(Phosphor  
Converted)

Control

0-10V    DALI 2 T6    DALI 2 T8    DMX/RDM

Certifications



Optic	10x10: 10°x10° 10x30: 10°x30° 10x60: 10°x60° 30x10: 30°x10° 60x10: 60°x10° 30x60: 30°x60° 30x30: 30°x30° 60x60: 60°x60° 90x90: 90°x90°
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Compact Mounting Options	ST: Standard Mounting SM: Slim Adjustable Mounting Continuously Adjustable
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Wall Mounting Options	WMC3: Wall Mounting Continuously Adjustable 3 in to Optical Center WMC6: Wall Mounting Continuously Adjustable 6 in to Optical Center WMC18: Wall Mounting Continuously Adjustable 18 in to Optical Center WMC4: Wall Mounting Continuously Adjustable 4 in to Optical Center WMC12: Wall Mounting Continuously Adjustable 12 in to Optical Center WMC24: Wall Mounting Continuously Adjustable 24 in to Optical Center
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Finish	Matte White, Matte Black, Custom Color and Finish (Please Specify RAL Color), Special Color (Choose From Standard Point Source Color Palette)
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Cable Color	WH: White BK: Black
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Optical Accessories	VS: Visor HL: Honeycomb Louver SH: Shield LV: Louver SN: Snoot
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Warranty	5-year limited warranty
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Performance

Maximum Delivered Output	Up to 982 lm (4 W/ft, 4 ft fixture, MPCP/4000K full output, 10° x 10°) Up to 1902 lm (7 W/ft, 4 ft fixture, MPCP/4000K full output, 10° x 10°) Up to 2753 lm (10 W/ft, 4 ft fixture, MPCP/4000K full output, 10° x 10°) Up to 3471 lm (13 W/ft, 4 ft fixture, MPCP/4000K full output, 10° x 10°)
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Maximum Delivered Intensity	Up to 9507 cd (4 W/ft, 4 ft fixture, MPCP/4000K full output, 10° x 10°) Up to 18,410 cd (7 W/ft, 4 ft fixture, MPCP/4000K full output, 10° x 10°) Up to 26,640 cd (10 W/ft, 4 ft fixture, MPCP/4000K full output, 10° x 10°) Up to 33,594 cd (13 W/ft, 4 ft fixture, MPCP/4000K full output, 10° x 10°)
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Illuminance at Distance	Minimum 1 fc at 97 ft (4 W/ft, 4 ft fixture, MPCP/4000K full output, 10° x 10°) Minimum 1 fc at 135 ft (7 W/ft, 4 ft fixture, MPCP/4000K full output, 10° x 10°) Minimum 1 fc at 163 ft (10 W/ft, 4 ft fixture, MPCP/4000K full output, 10° x 10°) Minimum 1 fc at 183 ft ( 13 W/ft, 4 ft fixture, MPCP/4000K full output, 10° x 10°)
Lumen Maintenance	L70>36,000 hrs Ta 77 °F (TM-21 reported) L70>150,000 hrs Ta 77 °F (projected)* L95>36,000 hrs Ta 77 °F (TM-21 reported) *Estimated based on in-situ case temperature and LM-80 report
Color Rendering	CRI 90+ typ. 1800K-220K CRI 95+ typ. 2400K-6500K
Color Consistency	3 SDCM
Physical	
Housing Material	Aluminum
Diffuser Material	Polymethyl methacrylate (PMMA)
TIR Optics Material	Polycarbonate
End Cap Material	Die cast aluminum
Weight	1.5 lbs (12 in fixture) 2.94 lbs (24 in fixture) 3.82 lbs (36 in fixture) 5.69 lbs (48 in fixture)
Electrical and Control	
Voltage	120 Volts to 277 Volts
Wattage	<b>4W:</b> 4 W/ft, <b>7W:</b> 7 W/ft, <b>10W:</b> 10 W/ft, <b>13W:</b> 13 W/ft
Control	<b>PDA1:</b> Professional 0-10V Dimming 0.1% Linear Curve <b>PDA2:</b> Professional 0-10V Dimming 0.1% Logarithmic Curve <b>DALI:</b> DALI 2 T6 Enabled Dimming 0.1% <b>DALIT8:</b> DALI 2 T8 Enabled Dimming 0.1% <b>DMX/RDM:</b> DMX/RDM Enabled Dimming 0.1%
Flicker	Designed to comply with recommended practices of IEEE 1789:2015
Inrush Current (Peak)	Meets NEMA-410 requirements
Accessories - Optional (Order Separately)	
Cables	<b>LCVALC:</b> Lumencore Linear Leader Cable <b>LCVAJC:</b> Lumencore Linear Jumper Cable
Control Boxes	<b>CBX-DMX/RDM:</b> DMX/RDM enabled (Daisy Chain or Star Configuration) <b>CBX-ENET:</b> Ethernet enabled (Daisy Chain or Star Configuration) <b>LDBI:</b> Lumentalk Data Bridge Indoor <b>WC:</b> Wiring Compartment (LCV/A Configuration) <b>SDB2C:</b> 2-Channel Smart Data Bridge

Installation Accessories	LCVAT: Lumencore Linear Alignment Track LCVARC: Lumencore Linear Alignment Track Cover
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Environmental

Storage Temperature	-40 °F to 122 °F
Start-up Temperature	-4 °F to 122 °F
Operating Temperature	-40 °F to 122 °F
Environment	Damp location rating (interior applications only)
Ingress Protection Rating	IP20

Important

Virtual Patent Marking Notice

This website (<https://www.lmpg.com/patents-trademarks>) is provided to satisfy the virtual patent marking provisions of applicable jurisdictions. Some products listed may be covered by additional patents not referenced here.

Photometric Information

4 W/ft (3000K)

	Delivered Output (lm)	Intensity (Peak cd)
10°x10°	885	8,566
10°x30°	900	4,146
10°x60°	884	2,274
30°x10°	934	2,985
60°x10°	867	1,968
30°x60°	869	1,196
30°x30°	872	1,574
60°x60°	857	700
90°x90°	836	379

7 W/ft (3000K)

	Delivered Output (lm)	Intensity (Peak cd)
10°x10°	1,714	16,587
10°x30°	1,742	8,029
10°x60°	1,712	4,404
30°x10°	1,808	5,780
60°x10°	1,679	3,811
30°x60°	1,682	2,317
30°x30°	1,689	3,048
60°x60°	1,659	1,355
90°x90°	1,619	734

10 W/ft (3000K)

	Delivered Output (lm)	Intensity (Peak cd)
10°x10°	2,480	24,003
10°x30°	2,521	11,619
10°x60°	2,478	6,373
30°x10°	2,616	8,365
60°x10°	2,429	5,515
30°x60°	2,434	3,352
30°x30°	2,444	4,411
60°x60°	2,401	1,961
90°x90°	2,343	1,062

13 W/ft (3000K)

	Delivered Output (lm)	Intensity (Peak cd)
10°x10°	3,127	30,268
10°x30°	3,179	14,652
10°x60°	3,125	8,037
30°x10°	3,299	10,548
60°x10°	3,063	6,955
30°x60°	3,070	4,227
30°x30°	3,083	5,563
60°x60°	3,028	2,472
90°x90°	2,955	1,339

Based on 48 in fixture length, full output.

† Consult website for IES files. Delivered output: +/- 10% tolerance.

\*Photometric performance is measured in compliance with IESNA LM-79-24.

Refer to Photometric Guide on Lumenpulse website for information on other color temperatures.

4 W/ft (MPCP/4000K)

	Delivered Output (lm)	Intensity (Peak cd)
10°x10°	982	9,507
10°x30°	999	4,602
10°x60°	982	2,524
30°x10°	1,036	3,313
60°x10°	962	2,184
30°x60°	964	1,328
30°x30°	968	1,747
60°x60°	951	777
90°x90°	928	421

7 W/ft (MPCP/4000K)

	Delivered Output (lm)	Intensity (Peak cd)
10°x10°	1,902	18,410
10°x30°	1,934	8,911
10°x60°	1,901	4,888
30°x10°	2,006	6,415
60°x10°	1,863	4,230
30°x60°	1,867	2,571
30°x30°	1,875	3,383
60°x60°	1,842	1,504
90°x90°	1,797	814

10 W/ft (MPCP/4000K)

	Delivered Output (lm)	Intensity (Peak cd)
10°x10°	2,753	26,640
10°x30°	2,798	12,895
10°x60°	2,750	7,073
30°x10°	2,903	9,284
60°x10°	2,696	6,121
30°x60°	2,702	3,721
30°x30°	2,713	4,896
60°x60°	2,665	2,176
90°x90°	2,601	1,178

13 W/ft (MPCP/4000K)

	Delivered Output (lm)	Intensity (Peak cd)
10°x10°	3,471	33,594
10°x30°	3,529	16,262
10°x60°	3,468	8,920
30°x10°	3,661	11,707
60°x10°	3,400	7,719
30°x60°	3,407	4,692
30°x30°	3,421	6,174
60°x60°	3,361	2,744
90°x90°	3,280	1,486

Based on 48 in fixture length, full output.

† Consult website for IES files. Delivered output: +/- 10% tolerance.

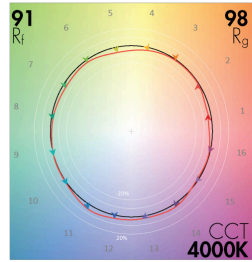
\*Photometric performance is measured in compliance with IESNA LM-79-24.

Refer to Photometric Guide on Lumenpulse website for information on other color temperatures.

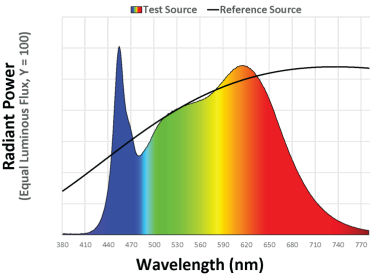
Chromaticity Data

TM-30 - MPCP/4000K

CCT	CIE		TM-30	
4000K	R <sub>a</sub>	96	91	R <sub>f</sub>
	R <sub>9</sub>	77	98	R <sub>g</sub>



Spectral Power Distribution



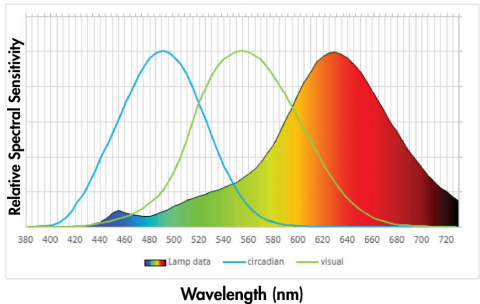
Refer to Spectral Information download on Lumenpulse website for more information.

Spectral Information

	CRI	R9	M/P Ratio	MDER
1800K	89	44	0.285	0.2582
2000K	91	50	0.330	0.2988
2200K	93	53	0.361	0.3271
2400K	94	61	0.433	0.3928
2700K	95	66	0.510	0.4624
3000K	95	70	0.582	0.5272
3200K	95	72	0.626	0.5667
3500K	96	74	0.684	0.6201
4000K	96	77	0.774	0.7014
4500K	96	85	0.875	0.7766
5000K	95	76	0.922	0.8351
5500K	95	74	0.981	0.8887
5700K	95	76	1.003	0.9088
6000K	96	79	1.036	0.9393
6500K	96	81	1.076	0.9763

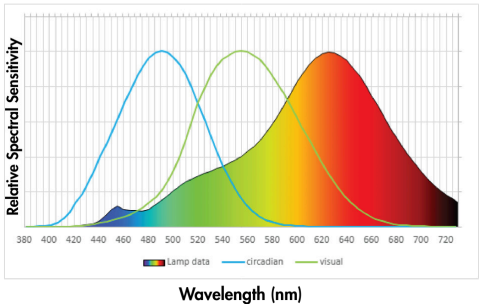
M/P: Melanopic/Photopic Ratio  
MDER: Melanopic Daylight Equivalence Ratio

1800K



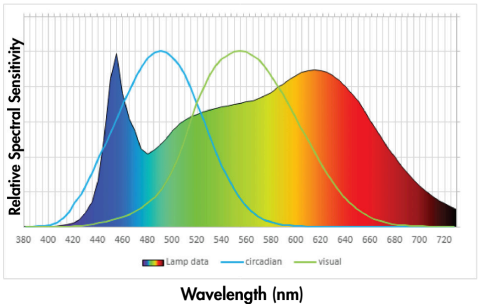
Recommended for Night/Rest

2200K




Recommended for Evening/Calm


4000K





Recommended for Day/Alertness


SP - Special Colours (Palette for Fixture and Shield Finish)


  
MBR - Matte brown


  
MOR - Matte orange


  
MGR - Matte green


  
MBL - Matte blue


  
MSI - Matte silver


  
GWH - Glossy white


  
GBK - Glossy black


  
GYL - Glossy yellow


  
GLR - Glossy red

  
GVI - Glossy violet

  
GGR - Glossy green

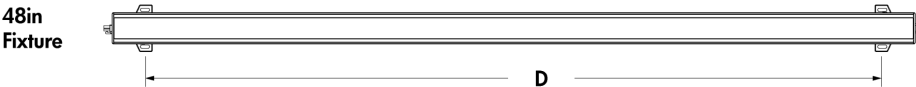
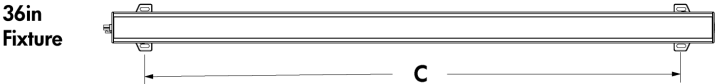
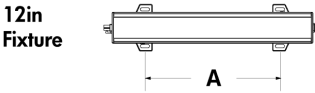
  
GIY - Glossy ivory

  
MLG - Metalized grey

  
IBR - Italian brick red

Mounting Bracket Placement

ST - Standard Mounting



Top view

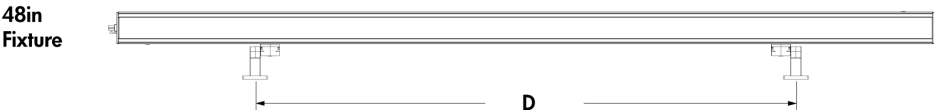
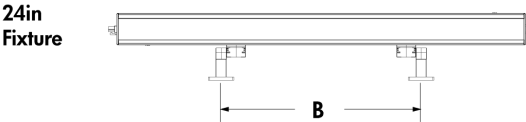
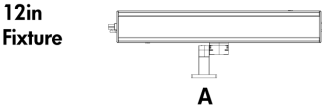
Fixed Dimensions Between Brackets

- A - 8 in
- B - 20 in
- C - 32 in
- D - 44 in

Mounting Bracket Placement (Minimum and Maximum Distances)

SM - Slim Adjustable Mounting

WMC - Wall Mounting Continuously Adjustable

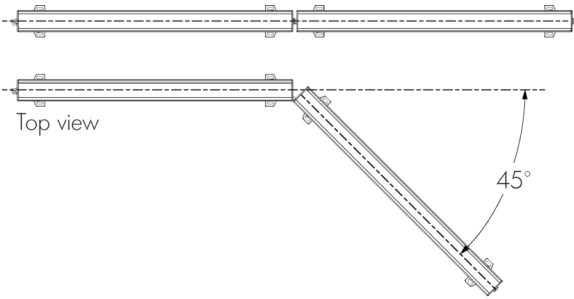


Top view

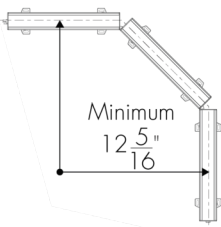
- A - Bracket in the center of the fixture
  - B - Minimum 10 in to maximum 16 in
  - C - Minimum 15 in to maximum 28 in
  - D - Minimum 20 in to maximum 40 in
- WMC3 mounting brackets shown.

Adjustment

Maximum Angle Adjustment

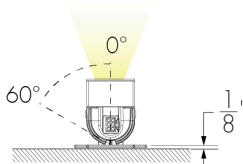


Minimum Radius



Mounting Options

ST - Standard Mounting



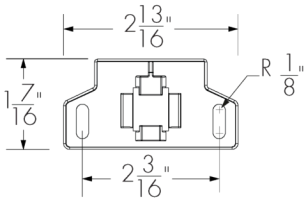
Two mountings brackets provided for all fixture lengths.

Weight of one SM Mounting Bracket: 0.09 lbs.

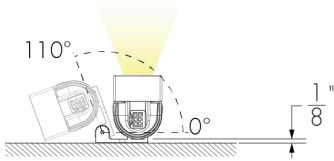
Weight of two SM Mounting Brackets: 0.19 lbs.

The weight of the mounting bracket is in addition to the weight of the fixture.

ST - Mounting Hole Pattern



SM - Slim Adjustable Mounting



The angle range will be impacted if optical accessories is added.

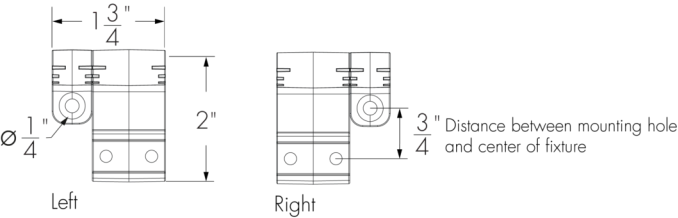
One mounting bracket provided for 12 in fixtures. Two mounting brackets provided for 24 in, 36 in and 48 in fixtures.

Weight of one SM Mounting Bracket: 0.09 lbs.

Weight of two SM Mounting Brackets: 0.19 lbs.

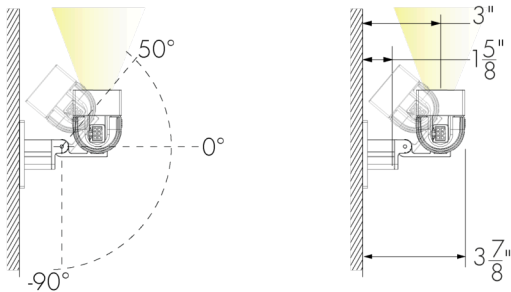
The weight of the mounting bracket is in addition to the weight of the fixture.

SM - Mounting Hole Pattern





WMC3 - Wall Mounting Continuous Adjustable 3 in to Optical Center



The angle range will be impacted if optical accessories is added.

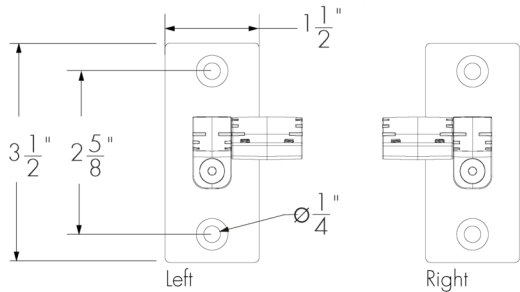
One mounting bracket provided for 12 in fixtures. Two mounting brackets provided for 24 in, 36 in and 48 in fixtures.

Weight of one WMC3 Mounting Bracket: 0.24 lbs.

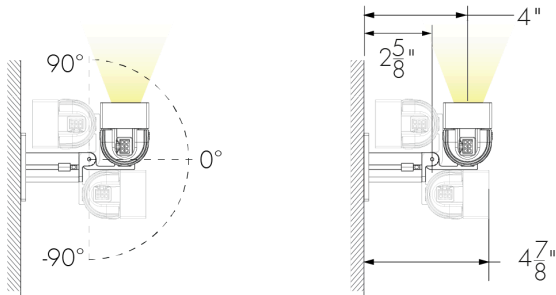
Weight of two WMC3 Mounting Brackets: 0.49 lbs.

The weight of the mounting bracket is in addition to the weight of the fixture.

WMC3 - Mounting Hole Pattern



WMC4 - Wall mounting Continuous adjustable 4 in to Optical Center



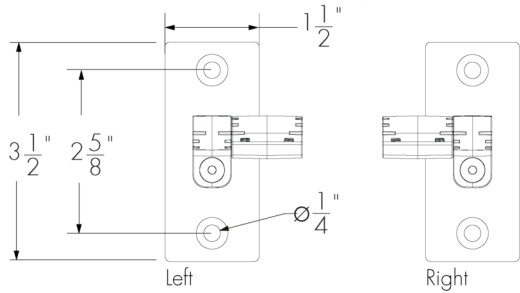
One mounting bracket provided for 12 in fixtures. Two mounting brackets provided for 24 in, 36 in and 48 in fixtures.

Weight of one WMC4 Mounting Bracket: 0.3 lbs.

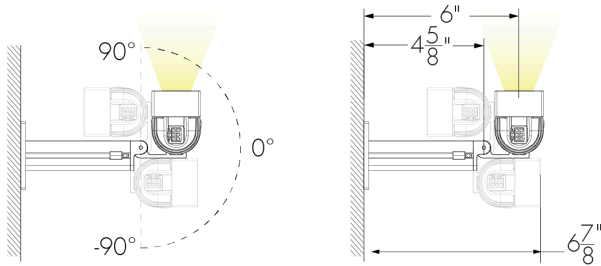
Weight of two WMC4 Mounting Brackets: 0.6 lbs.

The weight of the mounting bracket is in addition to the weight of the fixture.

WMC4 - Mounting Hole Pattern



WMC6 - Wall Mounting Continuous Adjustable 6 in to Optical Center



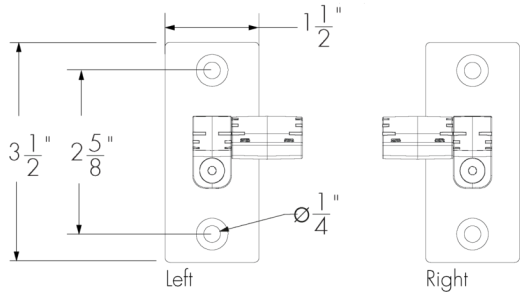
One mounting bracket provided for 12 in fixtures. Two mounting brackets provided for 24 in, 36 in and 48 in fixtures.

Weight of one WMC6 Mounting Bracket: 0.4 lbs.

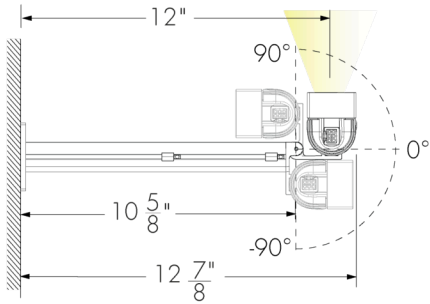
Weight of two WMC6 Mounting Brackets: 0.79 lbs.

The weight of the mounting bracket is in addition to the weight of the fixture.

WMC6 - Mounting Hole Pattern



WMC12 - Wall Mounting Continuous Adjustable 12 in to Optical Center



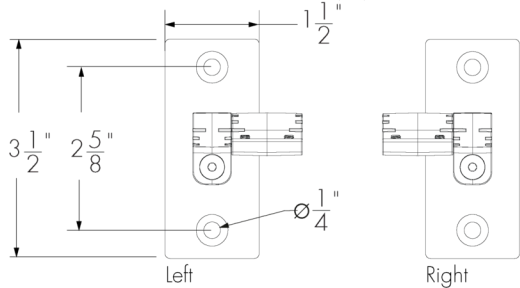
One mounting bracket provided for 12 in fixtures. Two mounting brackets provided for 24 in, 36 in and 48 in fixtures.

Weight of one WMC12 Mounting Bracket: 0.72 lbs.

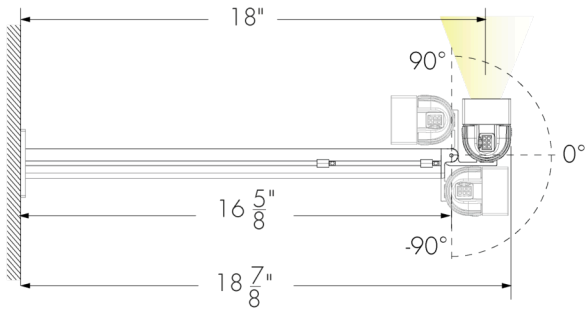
Weight of two WMC12 Mounting Brackets: 1.43 lbs.

The weight of the mounting bracket is in addition to the weight of the fixture.

WMC12 - Mounting Hole Pattern



WMC18 - Wall Mounting Continuous Adjustable 18 in to Optical Center



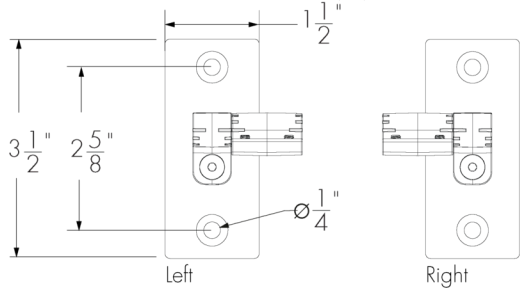
One mounting bracket provided for 12 in fixtures. Two mounting brackets provided for 24 in, 36 in and 48 in fixtures.

Weight of one WMC18 Mounting Bracket: 1.03 lbs.

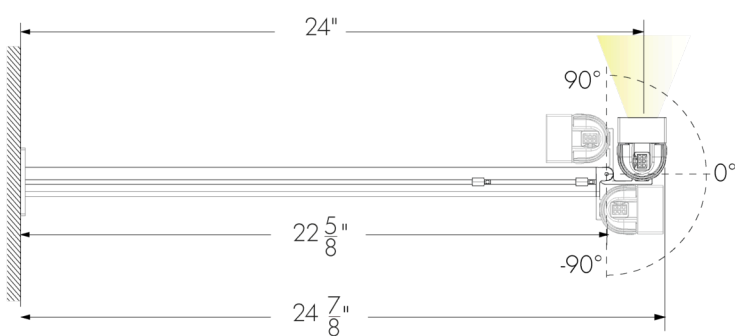
Weight of two WMC18 Mounting Brackets: 2.05 lbs.

The weight of the mounting bracket is in addition to the weight of the fixture.

WMC18 - Mounting Hole Pattern



WMC24 - Wall Mounting Continuous Adjustable 24 in to Optical Center



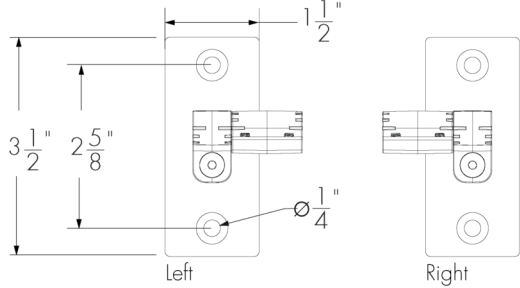
One mounting bracket provided for 12 in fixtures. Two mounting brackets provided for 24 in, 36 in and 48 in fixtures.

Weight of one WMC24 Mounting Bracket: 1.34 lbs.

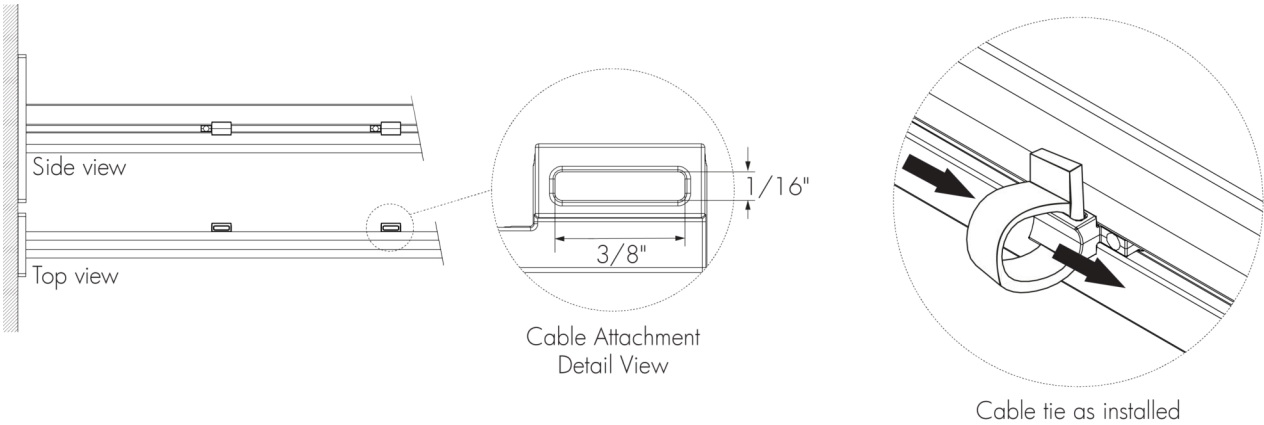
Weight of two WMC24 Mounting Brackets: 2.69 lbs.

The weight of the mounting bracket is in addition to the weight of the fixture.

WMC24 - Mounting Hole Pattern



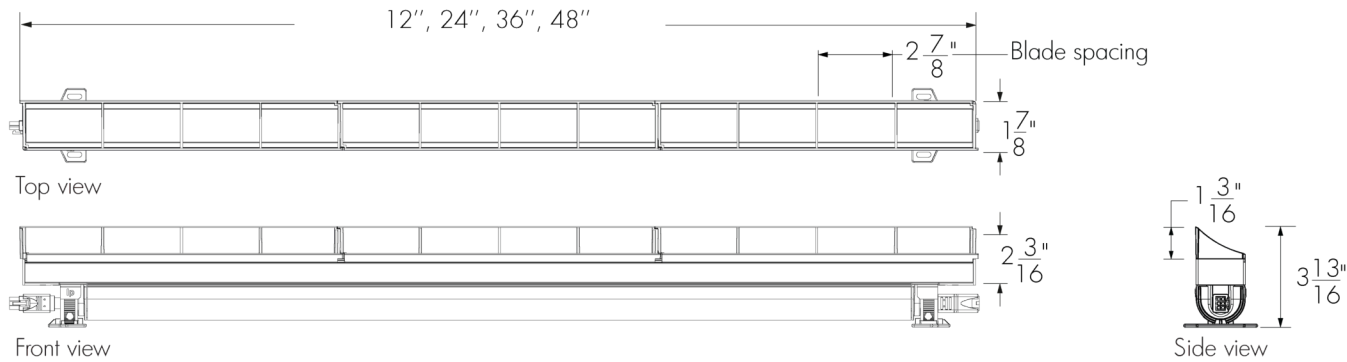
Cable Management System for Wall Mounting Brackets



No cable attachment provided for WMC3.  
One cable attachment provided for WMC4 & WMC6.  
Two cable attachments provided for WMC12 & WMC18.  
Three cable attachments provided for WMC24.  
Maximum cable tie size: 0.35 in width, 0.08 in in thickness.  
Cable ties are recommended, provided by others.

Accessories

VS - Visor



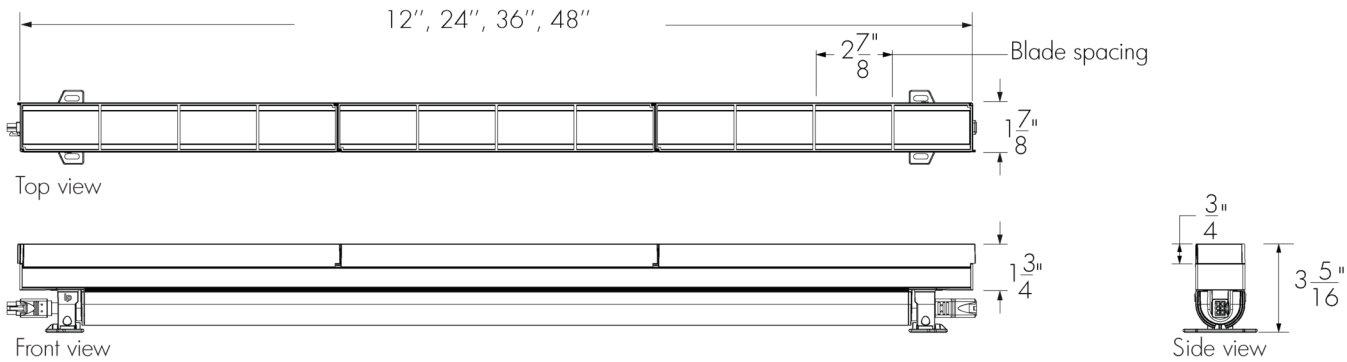
Accessories come in 12 in sections. 12 in Fixture requires 1 accessory, 24 in fixture requires 2 accessories, 36 in fixture requires 3 accessories, 48 in fixture requires 4 accessories.

Weight of 1 accessory: 0.1 lbs, weight of 2 accessories: 0.2 lbs, weight of 3 accessories: 0.3 lbs, weight of 4 accessories: 0.4 lbs.

Note: The weight of the accessory is in addition to the weight of the fixture.

- A Visor will affect beam distribution. Consult factory for application support.
- The Visor is field installable. The Visor can be combined with the Shield accessory; all other combinations are not possible.
- The exterior finish of the accessory will match the finish specified in the fixture order code. Interior surface is matte black.

LV - Louver



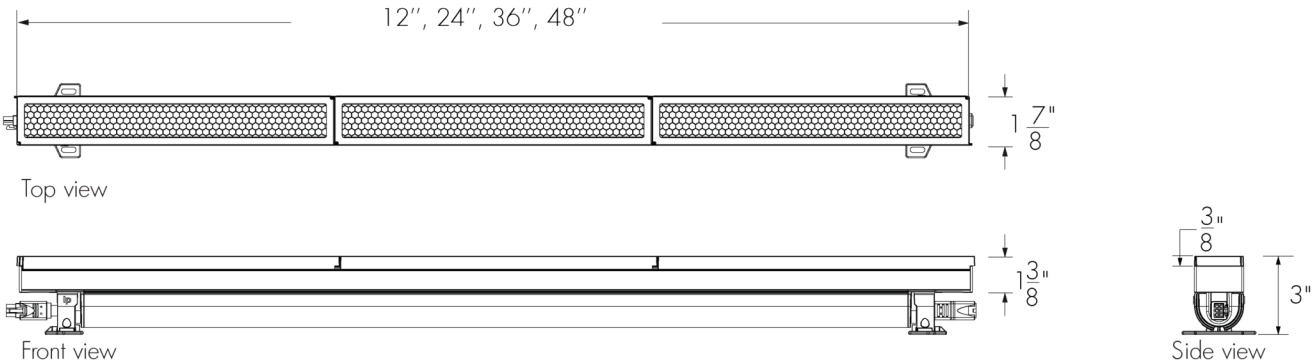
Accessories come in 12 in sections. 12 in Fixture requires 1 accessory, 24 in fixture requires 2 accessories, 36 in fixture requires 3 accessories, 48 in fixture requires 4 accessories.

Weight of 1 accessory: 0.13 lbs, weight of 2 accessories: 0.26 lbs, weight of 3 accessories: 0.4 lbs, weight of 4 accessories: 0.53 lbs.

Note: The weight of the accessory is in addition to the weight of the fixture.

- A Louver will affect beam distribution. Consult factory for application support.
- The Louver is field installable. The Louver can be combined with the Shield accessory; all other combinations are not possible.
- The exterior finish of the accessory will match the finish specified in the fixture order code. Interior surface is matte black.

HL - Honeycomb Louver

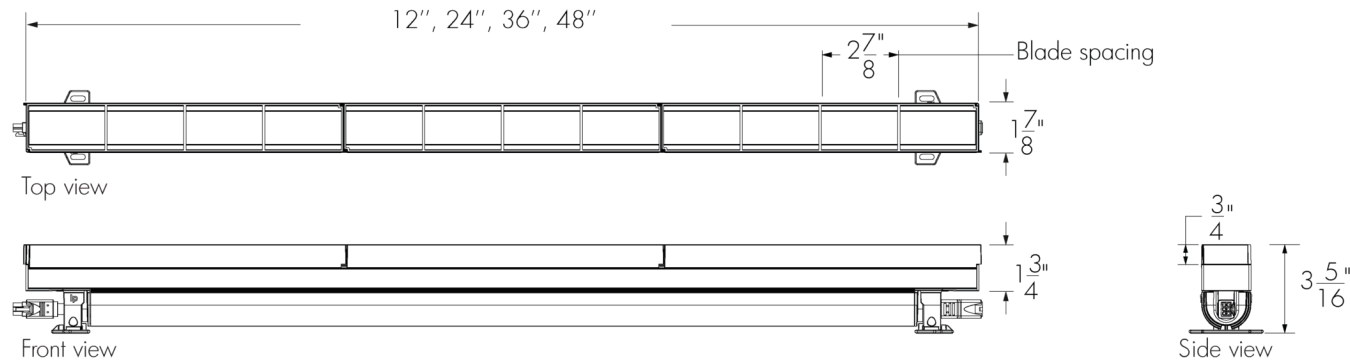


Accessories come in 12 in sections. 12 in Fixture requires 1 accessory, 24 in fixture requires 2 accessories, 36 in fixture requires 3 accessories, 48 in fixture requires 4 accessories.

Weight of 1 accessory: 0.09 lbs, weight of 2 accessories: 0.18 lbs, weight of 3 accessories: 0.26 lbs, weight of 4 accessories: 0.35 lbs.  
Note: The weight of the accessory is in addition to the weight of the fixture.

- A Honeycomb Louver will affect beam distribution. Consult factory for application support.
- The Honeycomb Louver is field installable. The Honeycomb Louver can be combined with the Shield accessory; all other combinations are not possible.
- The exterior finish of the accessory will match the finish specified in the fixture order code. Interior surface is matte black.

SN - Snoot

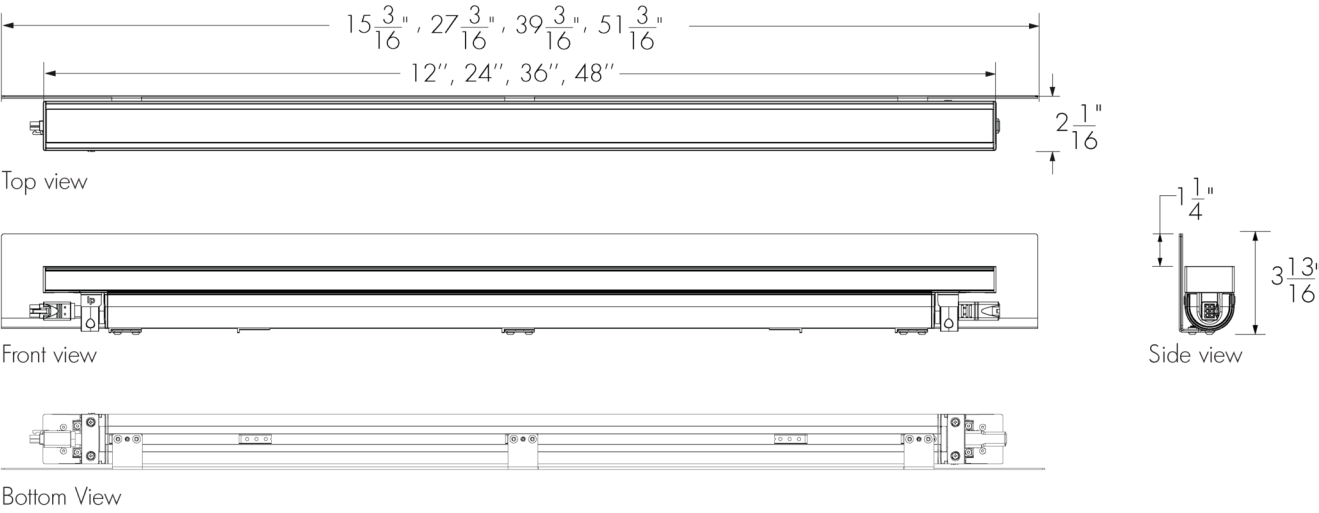


Accessories come in 12 in sections. 12 in Fixture requires 1 accessory, 24 in fixture requires 2 accessories, 36 in fixture requires 3 accessories, 48 in fixture requires 4 accessories.

Weight of 1 accessory: 0.1 lbs, weight of 2 accessories: 0.2 lbs, weight of 3 accessories: 0.3 lbs, weight of 4 accessories: 0.4 lbs.  
Note: The weight of the accessory is in addition to the weight of the fixture.

- A Snoot will affect beam distribution. Consult factory for application support.
- The Snoot is field installable. The Snoot can be combined with the Shield accessory; all other combinations are not possible.
- The exterior finish of the accessory will match the finish specified in the fixture order code. Interior surface is matte black.

SH - Shield



Weight of 12 in accessory: 0.31 lbs, weight of 24 in accessory: 0.55 lbs, weight of 36 in accessory: 0.79 lbs, weight of 48 in accessory: 1.05 lbs.  
Note: The weight of the accessory is in addition to the weight of the fixture.

- The Shield can only be used with WMC or SM mounting options.
- A Shield will affect beam distribution. Consult factory for application support.
- The Shield is field installable. The Shield can be combined with one other accessory.
- The exterior finish of the accessory will match the finish specified in the fixture order code (interior surface painted matte black).

Weight Table

Weight (lbs)						
	Fixture Only	Fixture With Visor	Fixture With Louver	Fixture With Honeycomb Louver	Fixture With Snoot	Fixture With Shield
1ft	1.54	1.64	1.68	1.63	1.64	1.85
2ft	3.09	3.28	3.35	3.26	3.28	3.70
3ft	4.63	4.93	5.03	4.89	4.93	5.56
4ft	6.17	6.57	6.70	6.53	6.57	7.41

Resolution Details

DMX/RDM Control, Resolution Per Segment: Each 12 in Segment is Addressed Independently

Mode						DMX Indexes			
Dim-to-Warm (1-Channel)		Intensity	1	2	3	4			
Dynamic White (2-Channel)		CCT, Intensity	1,2	3,4	5,6	7,8			
Pastel RGB (3-Channel)		R,G,B	1,2,3	4,5,6	7,8,9	10,11,12			
Pastel RGB+CCT (4-Channel)		R,G,B,CCT	1,2,3,4	5,6,7,8	9,10,11,12	13,14,15,16			

DMX Indexes			
5	6	7	8
9,10	11,12	13,14	15,16
13,14,15	16,17,18	19,20,21	22,23,24
17,18,19,20	21,22,23,24	25,26,27,28	29,30,31,32

DMX/RDM Control, Resolution Per Fixture: Each Fixture is Addressed Independently

Mode			DMX Indexes
Dim-to-Warm (1-Channel)			1
Dynamic White (2-Channel)			1,2
Pastel RGB (3-Channel)			1,2,3
Pastel RGB+CCT (4-Channel)			1,2,3,4

DMX Indexes			
2			
3,4			
4,5,6			
5,6,7,8			

Wiring Color Code

PDA1, PDA2, DALI or DALI8		DMX/RDM	
UL Color Code	Use	UL Color Code	Use
Green	Ground	Green	Ground
Black	Line	Black	Line
White	Neutral	White	Neutral
Purple	Data +	Red	Data +
Pink	Data -	Grey	Data Return
		Orange	Data -

Maximum Fixture Run Length Table

Lumencore Linear 4W/ft

	120V	277V
Maximum Run of Fixtures	284ft	664ft

Lumencore Linear 7W/ft

	120V	277V
Maximum Run of Fixtures	172ft	400ft

Lumencore Linear 10W/ft

	120V	277V
Maximum Run of Fixtures	124ft	284ft

Lumencore Linear 13W/ft

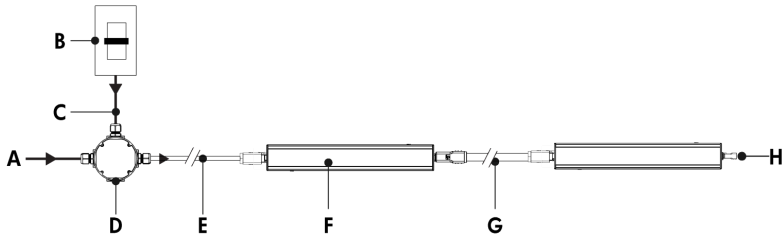
	120V	277V
Maximum Run of Fixtures	96ft	224ft

Based on 48 in fixtures, power limitations only, and a 10 ft Leader Cable for an end-to-end run, with no Jumper Cables between fixtures. Restrictions may apply based on control type.

The current in the Leader Cable shall not exceed 11A, and the voltage on any fixture shall not be lower than 90V during steady-rate operation. Refer to Typical Wiring Diagrams for Control Protocol specific run length rules.

Typical Wiring Diagrams

0-10V Dimming 0.1% Linear (PDA1) or 0.1% Logarithmic (PDA2)

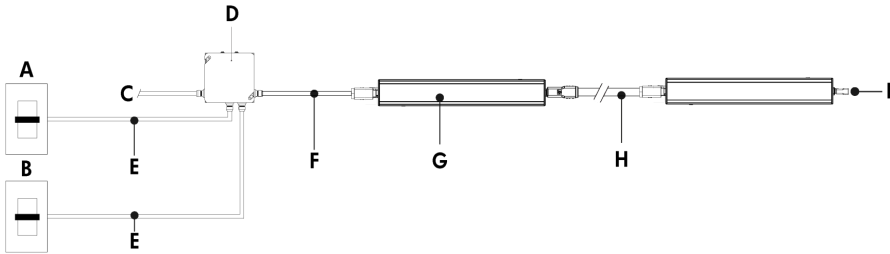


- A - Power input (120 to 277V, wiring by others)
- B - Third-party dimmer
- C - Data wiring (by others)
- D - Junction box (by others)
- E - Leader Cable (LCVALC MDR3P2D)
- F - Lumencore Linear
- G - Jumper Cable (optional, LCVAJC MDR3P2D)
- H - End Cap

0-10V mA ratings: passive dimmer (Current Sink): 1mA per fixture, active dimmer (Current Source): 0.5mA per fixture.

Less than 0.1% minimum dimming value.

0-10V Dimming 0.1% Linear (PDA1) or 0.1% Logarithmic (PDA2) With 2-Channel Smart Data Bridge

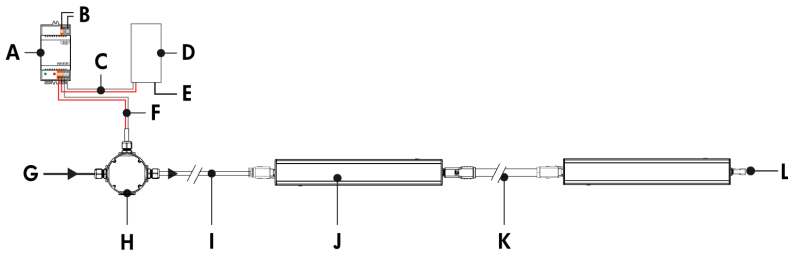


- A - Color temperature: Data input from third-party dimmer #1
- B - Intensity: Data input from third-party dimmer #2
- C - Power input (120 to 277V, wiring by others)
- D - 2-Channel Smart Data Bridge (SDB2C)
- E - Data wiring (by others)
- F - Leader Cable (LCVALC MDR3P2D)
- G - Lumencore Linear with DMX/RDM Control
- H - Jumper Cable (optional, LCVAJC MDR3P2D)
- I - DMX/RDM Terminator

0-10V mA ratings: passive dimmer (Current Sink): 1mA per fixture, active dimmer (Current Source): 0.5mA per fixture.

Less than 0.1% minimum dimming value.

DALI 2 T8 (DALIT8)



- A - DALI bus power supply (by others)
- B - Power input for DALI bus power supply (wiring by others)
- C - Data output to DALI controller (wiring by others)
- D - DALI controller (by others)
- E - Power input for DALI controller (if required, wiring by others)
- F - Data output to fixture (wiring by others)
- G - Power input (120 to 277V, wiring by others)
- H - Junction box (by others)
- I - Leader Cable (LCVALC MDR3P2D)
- J - Lumencore Linear
- K - Jumper Cable (optional, LCVAJC MDR3P2D)
- L - End Cap

64 DALI addressable device limitation (each fixture is an addressable device).

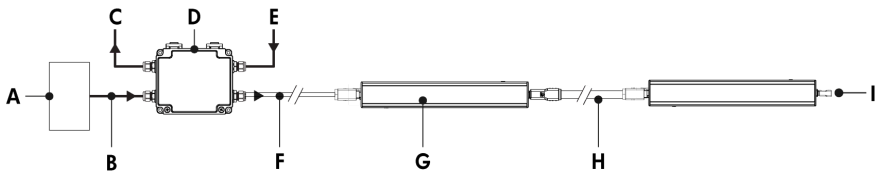
DALI does not allow for control by foot, only by fixture.

Commissioning may be required based on the selection of 3rd party DALI controller. Controller and commissioning provided by others.

Less than 0.1% minimum dimming value.



Daisy Chain Layout (DMX/RDM)



- A - Third-party DMX/RDM controller
- B - Data input (Belden 9841 or equivalent, by others)
- C - Data output to next CBX (optional, not isolated/not boosted)
- D - CBX-DS
- E - Power input (120 to 277V, wiring by others)
- F - Leader Cable (LCVALC MDR3P3D)
- G - Lumencore Linear
- H - Jumper Cable (optional, LCVAJC MDR3P3D)
- I - DMX/RDM Terminator

Consult CBX installation instructions for additional wiring details.

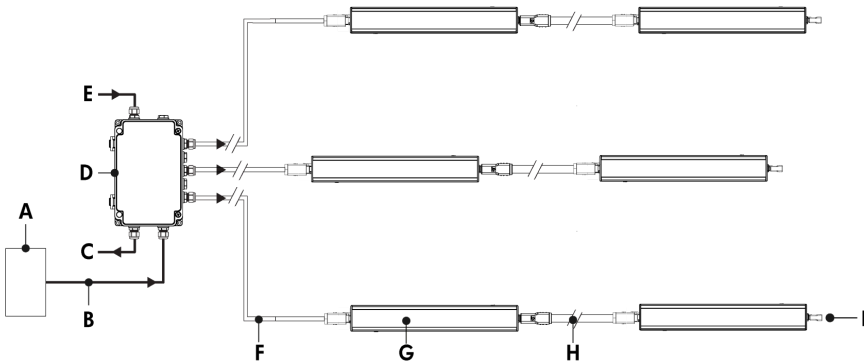
800 ft maximum DMX/RDM "Bus" length.

1 DMX universe = 128 @ 4-channel controllable segments.

Maximum of 4 DMX/RDM repeaters/CBX cascading in line.

Maximum of 6 outputs per CBX-ST; maximum of 1 output per CBX-DS.

Star Layout (DMX/RDM)



- A - Third-party DMX/RDM controller
- B - Data input (Belden 9841 or equivalent, by others)
- C - Data output to next CBX (optional, not isolated/not boosted)
- D - CBX-ST
- E - Power input (120 to 277V, wiring by others)
- F - Leader Cable (LCVALC MDR3P3D)
- G - Lumencore Linear
- H - Jumper Cable (optional, LCVAJC MDR3P3D)
- I - DMX/RDM Terminator

Consult CBX installation instructions for additional wiring details.

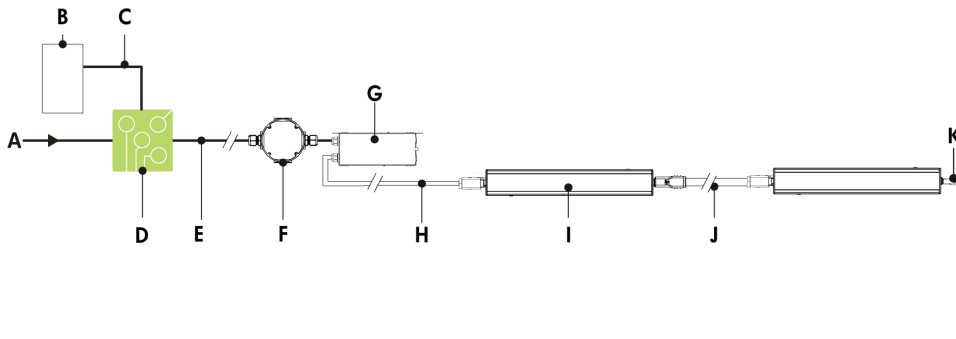
800 ft maximum DMX/RDM "Bus" length.

1 DMX universe = 128 @ 4-channel controllable segments.

Maximum of 4 DMX/RDM repeaters/CBX cascading in line.

Maximum of 6 outputs per CBX-ST; maximum of 1 output per CBX-DS.

### DALI or DMX/RDM With Lumentalk Data Bridge Indoor



- A** - Power input (120 to 277V, wiring by others)
- B** - DMX/RDM controller (order separately from Lumenpulse, or by others)
- C** - Data wiring (wiring by others)
- D** - Lumentranslator 2 (LTL2-DIM, LTL2-DMX)
- E** - Power wiring (by others)
- F** - Junction box (by others)
- G** - Lumentalk Data Bridge Indoor (LDBI-DMX)
- H** - Leader Cable (LCVALC MDR3P3D)
- I** - Lumencore Linear
- J** - Jumper Cable (optional, LCVAJC MDR3P3D)
- K** - End Cap

Consult factory for specific applications and maximum fixture count/cable length recommendations.

For DMX applications: 1 DMX controller per Lumentalk network, maximum of 48 DMX channels per Lumentalk network (minimum step transition update rate is 1 second, minimum fade time between two colors is 1 minute). Consult factory for applications that require additional capabilities.

Maximum of 1 transmitter (Lumentranslator or Lumenlink) per system.

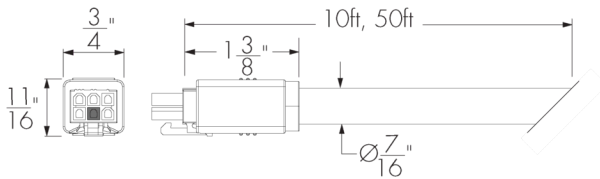
No third-party fixtures allowed on the same circuit.

Consult factory for DALI Lumentalk applications.

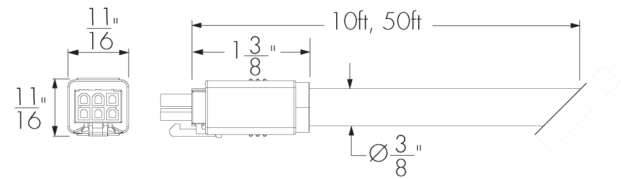
Refer to installation instructions for additional wiring details.

**Leader Cable (Order Separately)**

### LCVALC - Lumencore Linear Leader Cable (MDR3P2D)



### LCVALC - Lumencore Linear Leader Cable (MDR3P3D)



## LCVALC-UL-CERTIFICATION-CONTROL-LENGTH- FINISH-BK-WH

Please specify:

**CERTIFICATION: UL**

**CONTROL:**

MDR3P2D - 0-10V and DALI

MDR3P3D - DMX/RDM Control

**LENGTH:** 10 ft, 50 ft

Cable Bend Radius:

MDR3P: Minimal bend radius 2 in

MDR3P2D: Minimal bend radius 3 in

MDR3P3D: Minimal bend radius 2 in

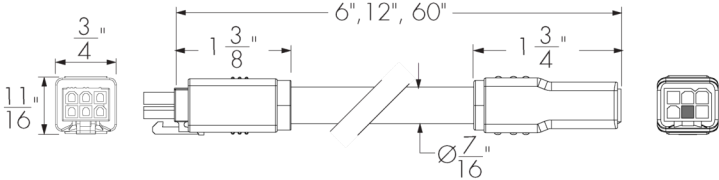
Consult Lumencore Linear Leader Cable specification sheet for additional information.

MDR3P2D: end cap is provided.

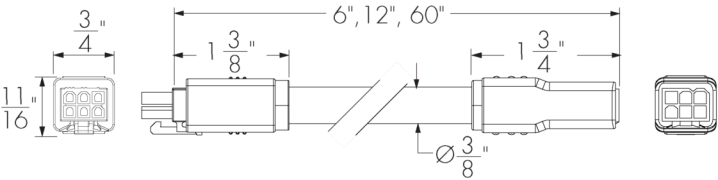
MDR3P3D: terminal end cap is provided.

Jumper Cable (Order Separately)

LCVAJC - Lumencore Linear Jumper Cable (MDR3P2D)



LCVAJC - Lumencore Linear Jumper Cable (MDR3P3D)



LCVAJC-UL-CERTIFICATION-CONTROL-LENGTH-FINISH-BK-WH

Specify:

**CERTIFICATION:** UL

**CONTROL:**

MDR3P2D - 0-10V and DALI

MDR3P3D - DMX/RDM Control

**LENGTH:** 6 in, 1 ft or 5 ft.

CABLE BEND RADIUS:

MDR3P: Minimal bend radius 2 in

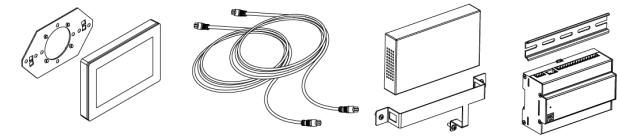
MDR3P2D: Minimal bend radius 3 in

MDR3P3D: Minimal bend radius 2 in

Consult Lumencore Linear Jumper Cable specification sheet for additional information. Minimum spacing two fixtures in a row: 0.28 in (nominal).

Control Systems (Order Separately)

PHAROS - Pharos® Designer Lighting Control Kit



The Pharos Designer Lighting Control Kit, available for 1 or 2 DMX universes, allows for complete control of large lighting installations.

Diagnostic And Addressing Tools (Order Separately)

LID - LumenID



LumenID is a diagnostic and addressing DMX/RDM tool. It must be specified on all DMX applications. Consult LID specification sheet for details.

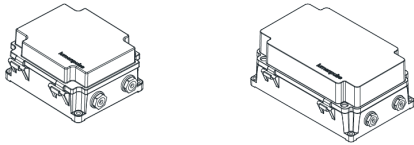
LID-LT - LumentalkID



LumentalkID is a diagnostic and addressing tool. It must be specified for all Lumentalk (LT) applications. Consult LID-LT specification sheet for details.

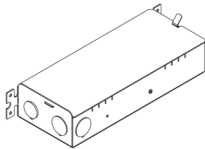
Control Boxes (Order Separately)

CBX-DMX/RDM - DMX/RDM Enabled (Daisy Chain or Star Configuration)



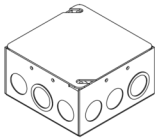
DMX/RDM control box. Up to six power and data outputs to fixtures or fixture runs. Consult CBX specification sheet and installation instructions for details. Lumenterminators provided with CBX (2x for Daisy Chain configuration, 6x for Star configuration), consult factory to order spares.

LDBI - Lumentalk Data Bridge Indoor



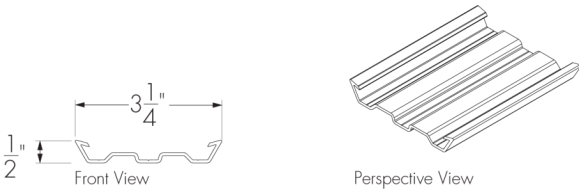
The Lumentalk Data Bridge Indoor is a digital interface that connects non-Lumentalk luminaires to the Lumentalk network, 0-10V or DMX output. Consult the Lumentalk Data Bridge Indoor specification sheet and installation instructions for details.

SDB2C - 2-Channel Smart Data Bridge



The Lumenpulse 2-Channel Smart Data Bridge is a data converter that allows you to use two 0-10V dimmers to control Lumenpulse Dynamic White fixtures with CCT and intensity control. Consult 2-Channel Smart Data Bridge specification sheet and installation instructions for details.

Alignment Track (Order Separately)



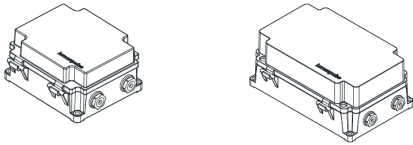
LCVAT-LENGTH-COLOR

LENGTH: 5 ft

COLOR: WH (White)

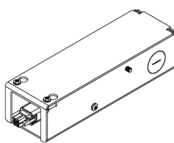
Alignment Track can only be used with ST Mounting Option. Alignment Track must be cut on site to desired length.

CBX-ENET - Ethernet Enabled (Daisy Chain or Star Configuration)



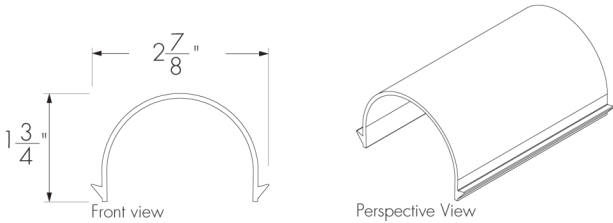
Ethernet control box. Up to four power and data outputs to fixture or fixture runs. Consult Ethernet CBX specification sheet and installation instructions for details.

WC - Wiring Compartment



The Lumenpulse Wiring Compartment is pre-wired with a leader cable, allowing the quick connection of conduits. Consult the Wiring Compartment specification sheet and installation instructions for details.

Alignment Track Cover (Order Separately)



LCVARC-**LENGTH-COLOR**  
**LENGTH:** 5 ft  
**COLOR:** WH (White)

Alignment Track Cover must be used in combination with Alignment Track.  
Alignment Track Cover can be used to cover cable between two fixtures. To be cut on site to desired length.

How to Order

Housing	Certification	Voltage	Length	Wattage	Color and Color Temperature	Minimum Color Temperature (Warm) <sup>(4)</sup>	Maximum Color Temperature (Cool) <sup>(8)</sup>	Optic	Control <sup>(9)</sup>	Mounting Options
LCVA Lumencore Linear Graze	UL UL Compliant	120 277 120 Volts to 277 Volts	12 12 in	4W 4 W/ft	MCDTW Custom CCT Range Dim to Warm (6500K to 1800K) <sup>(1)</sup> <sup>(2)</sup>	18K 1800K	24K 2400K	10x10 10°x10°	PDA1 Professional 0-10V Dimming 0.1% Linear Curve	ST Standard Mounting <sup>(13)</sup> <sup>(14)</sup> <sup>(15)</sup> <sup>(16)</sup>
			24 24 in	7W 7 W/ft		20K 2000K	27K 2700K	10x30 10°x30°		
			36 36 in	10W 10 W/ft	MCDWH Custom CCT Range Dynamic White (1800K to 6500K) <sup>(2)</sup> <sup>(3)</sup>	22K 2200K	30K 3000K	10x60 10°x60°	PDA2 Professional 0-10V Dimming 0.1% Logarithmic Curve	SM Slim Adjustable Mounting Continuously Adjustable <sup>(17)</sup>
			48 48 in	13W 13 W/ft		24K 2400K	32K 3200K	30x10 30°x10°		
					MCCFX Custom Fixed Color Temperature <sup>(4)</sup>	27K 2700K	35K 3500K	60x10 60°x10°	DALI DALI 2 T6 Enabled Dimming 0.1% <sup>(10)</sup>	WMC3 Wall Mounting Continuously Adjustable 3 in to Optical Center <sup>(17)</sup>
						30K 3000K	40K 4000K	30x60 30°x60°		
					MDTW Dim to Warm (2700K to 2200K) <sup>(1)</sup>	32K 3200K	45K 4500K	30x30 30°x30°	DALI T8 DALI 2 T8 Enabled Dimming 0.1% <sup>(11)</sup>	WMC4 Wall Mounting Continuously Adjustable 4 in to Optical Center <sup>(17)</sup>
						35K 3500K	50K 5000K	60x60 60°x60°		
					MDTWP Dim to Warm Plus (3500K to 1800K) <sup>(1)</sup>	40K 4000K <sup>(7)</sup>	55K 5500K	90x90 90°x90°	DMX/RDM DMX/RDM Enabled Dimming 0.1% <sup>(12)</sup>	WMC6 Wall Mounting Continuously Adjustable 6 in to Optical Center <sup>(17)</sup>
						45K 4500K <sup>(7)</sup>	57K 5700K			
					MDWW Dynamic Warm White (2200K to 3000K) <sup>(8)</sup>	50K 5000K <sup>(7)</sup>	60K 6000K			WMC12 Wall Mounting Continuously Adjustable 12 in to Optical Center <sup>(17)</sup>
						55K 5500K <sup>(7)</sup>	65K 6500K			
					MDWWP Dynamic Warm White Plus (2200K to 3500K) <sup>(3)</sup>	57K 5700K <sup>(7)</sup>				WMC18 Wall Mounting Continuously Adjustable 18 in to Optical Center <sup>(17)</sup>
						60K 6000K <sup>(7)</sup>				
					MDWH Dynamic White (2700K to 6500K) <sup>(3)</sup>	65K 6500K <sup>(7)</sup>				WMC24 Wall Mounting Continuously Adjustable 24 in to Optical Center <sup>(17)</sup>
					MPCP Pastel Red, Green, Blue (Phosphor Converted) <sup>(5)</sup>					

Notes:

1. Available with PDA1, PDA2, DALI and DMX/RDM Control Options (1 channel).

2. When specifying MCDTW or MCDWH, the Minimum Color Temperature must always be lower than the Maximum Color Temperature.

3. Available with DALI T8 and DMX/RDM Control Options (2 channels).

4. Available with PDA1, PDA2, DALI and DMX/RDM Control Options (1 channel).

5. Available with DALI T8 and DMX/RDM Control Options (factory-set with 3 channels, configurable to 4 channels).

6. Available for MCDTW, MCDWH and MCCFX Color Temperatures only.

7. Available for MCCFX Color Temperature only.

8. Available for MCDTW and MCDWH Color Temperatures only.

9. Lumentalk system is enabled with Lumentalk Data Bridge Indoor (LDBI) accessory. A PDA1, PDA2 or DMX/RDM Control Option must be specified in fixture code. See the typical wiring diagrams and consult factory for more details.
10. DALI 2 T6 controller required, provided by others.

11. DALI 2 T8 controller for Tc required for MCDWH, MDWW, MDWWP and MDWH, provided by others. DALI 2 T8 controller for Tc and/or RGBWAF required for MPCP. DALI 2 T8 control uses a single DALI short address.

12. A Control Box (CBX-DS or CBX-ST) and lumenID (LID) must be specified.

13. ST Mounting Option not available with CC Custom Color and Finish, or SP Special Color Finishes.

14. ST Mounting Option is required if the LCVAT Alignment Track will be ordered separately.

15. ST Mounting Option is not compatible with SH Shield Accessory.

16. Two mounting brackets provided for each fixture length.

17. One mounting bracket provided for 12 in fixtures. Two mounting brackets provided for 24 in, 36 in and 48 in fixtures.

How to Order

Finish	Cable Color <sup>(23)</sup>	Accessories	Shield	Shield Finish	Buy American Act
<b>MWH</b> Matte White	<b>WH</b> White	<b>NA</b> No Accessory	<b>NH</b> No Shield	<b>MWH</b> Matte White	<b>BAA</b> Buy American <sup>(29)</sup>
<b>MBK</b> Matte Black	<b>BK</b> Black	<b>VS</b> Visor <sup>(24)</sup> <sup>(25)</sup> <sup>(26)</sup>	<b>SH</b> Shield <sup>(27)</sup> <sup>(28)</sup>	<b>MBK</b> Matte Black	
<b>CC</b> Custom Color & Finish <sup>(13)</sup> <sup>(18)</sup> <sup>(19)</sup> <sup>(20)</sup> <sup>(21)</sup>		<b>LV</b> Louver <sup>(24)</sup> <sup>(25)</sup> <sup>(26)</sup>		<b>CC</b> Custom Color & Finish <sup>(13)</sup> <sup>(18)</sup> <sup>(19)</sup> <sup>(20)</sup> <sup>(21)</sup>	
<b>SP</b> Special Color (Choose From Standard Point Source Color Palette) <sup>(22)</sup>		<b>HL</b> Honeycomb Louver <sup>(24)</sup> <sup>(25)</sup> <sup>(26)</sup>		<b>SP</b> Special Color (Choose From Standard Point Source Color Palette) <sup>(22)</sup>	
		<b>SN</b> Snoot <sup>(24)</sup> <sup>(25)</sup> <sup>(26)</sup>			

Notes:

- 13.** ST Mounting Option not available with CC Custom Color and Finish, or SP Special Color Finishes.

**18.** Textured colours and finishes are not available.

**19.** Setup charges apply for RAL colors. Consult factory for details.

**20.** Longer lead times can be expected for custom RAL color finishes.

**21.** Lumenpulse offers a wide selection of RAL CLASSIC (K7) colors with a smooth texture and high-gloss finish. Please consult factory for a list of available K7 colors, other RAL textures and glosses, or to match alternate color charts. Final color matching results may vary.

**22.** Concrete Grey (CGY) and Parget White (PWH) are not available as special colors.
- 23.** The Cable Color must match the Fixture Finish, unless CC or SP is specified in the product code. If CC or SP is specified as the Fixture Finish in the product code, a WH or BK cable can be specified.

**24.** Accessories are sold in 12 in sections. The length specified for the fixture will determine the number of accessories provided.

**25.** Matte black interior surface, exterior finish matches housing color.

**26.** Not available if CC Custom Color and Finish or SP Special Color is specified in the product code.

**27.** The SH Shield Accessory is not available with ST Mounting Option.

**28.** The SH Shield Accessory can be combined with one other accessory.

**29.** Contact your Lumenpulse Sales Representative for more information on order volume details.