Specification Sheet

Lumenfacade

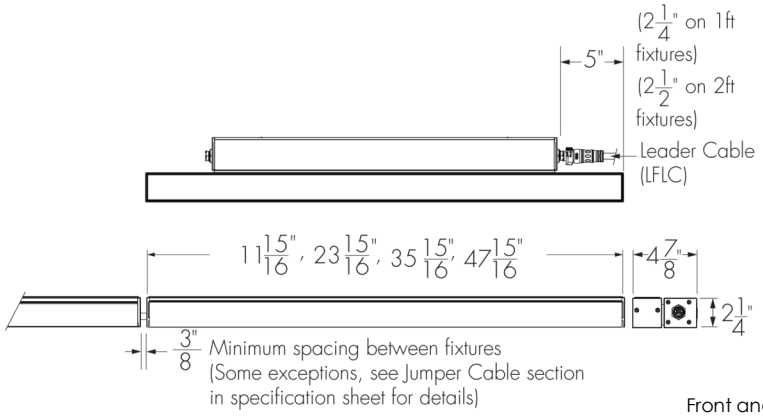
Max
Continuous Horizontal
LFM-CH

DYNAMIC WHITE

Project Name _____ **Qty** _____

Type _____ **Catalog / Part Number** _____

MDWH Configuration Shown



Front and Side Views
36 in Fixtures Shown

Photometric Summary (22 W/ft)

Symmetric

	Delivered Output (lm)	Intensity (Peak cd)
10°x10°	6,113	81,532
10°x30°	5,777	30,005
10°x60°	5,814	18,433
10°x90°	5,815	12,570
30°x30°	5,705	13,493
30°x60°	5,661	7,384
30°x90°	5,140	5,240
60°x60°	5,593	4,605
90°x90°	5,468	3,165
30°x10°	5,469	26,946
60°x10°	5,618	17,037
60°x30°	5,605	8,335
90°x10°	4,985	10,003
W (120°)	4,310	1,519

Asymmetric

NAS	6,021	36,752
WW	5,809	9,550
CAS	4,701	6,421

Based on MDWH, 4ft [1218mm], DMX/RDM control.
Photometric performance is measured in compliance with IESNA LM-79-08.
10x10, 10x30, 10x60, 10x90, 30x30, 30x60, 30x90, 60x60, 90x90, 30x10, 60x10, 60x30, 90x10, W, NAS and CAS optics tested with CL lens.
WW optic tested with HFR lens.

Description

The Lumenfacade Max Dynamic White introduces never-before-seen technologies and is the first linear fixture in the world to feature Opticolor™, Lumenpulse's revolutionary, patented mixed-at-source technology. Available in three colour temperature ranges, as well as Lumenpulse's Dim to Warm option, the Lumenpulse Max Dynamic White allows you the variability to dial each project to your vision.

Features

Length (nominal)
12: 12 in , **24:** 24 in , **36:** 36 in , **48:** 48 in

Color and Color Temperature
MDWW: 2200K to 3000K, CRI 80, Mutli-Channel Control
MDWWP: 2200K to 3500K, CRI 80, Mutli-Channel Control
MDWH: 2700K to 6500K, CRI 80, Mutli-Channel Control
MDTW: 2700K to 2200K, CRI 80, Dim to Warm, 1 Channel Control

Vibration Rating
NVR: No Vibration Rating Required
VRN: Vibration Rated for Normal Applications
VRBO: Vibration Rated for Bridge and Overpass

Fixed Mounting Options
FXH: Fixed Mounting Horizontal (0˚ Pivot Limit)

Continuously Adjustable Mounting Options
SMH: Slim Adjustable Mounting Horizontal Continuously Adjustable (100˚ Pivot Limit)
WMCH6: Wall Mounting Horizontal Continuously Adjustable, 6 in to Optical Center (180˚ Pivot Limit)
WMCH18: Wall Mounting Horizontal Continuously Adjustable, 18 in to Optical Center (180˚ Pivot Limit)
WMCH3: Wall Mounting Horizontal Continuously Adjustable, 3.5 in to Optical Center (120˚ Pivot Limit)
WMCH12: Wall Mounting Horizontal Continuously Adjustable, 12 in to Optical Center (180˚ Pivot Limit)
WMCH24: Wall Mounting Horizontal Continuously Adjustable, 24 in to Optical Center (180˚ Pivot Limit)

Optic


10° x 10°


10° x 30°


10° x 60°


10° x 90°


30° x 30°


30° x 60°


30° x 90°


60° x 60°


90° x 90°


30° x 10°


60° x 10°


60° x 30°


90° x 10°


Wide 120°


Narrow Asymmetric


Asymmetric Wallwash


Ceiling Asymmetric

Color and Color Temperature

opticolor™ opticolor™ opticolor™ opticolor™

Control

DALI 2 T8 | lumentalk | DMX/RDM | 0-10V

Finish


Black Sandtex®


Bronze Sandtex®


Silver Sandtex®


Smooth White


Textured Black


Textured Bronze Non-Metallic


Textured Medium Gray


Textured Green

Textured White


Custom Color & Finish

Incrementally Adjustable Mounting Options	**WMiH3:** Wall Mounting Horizontal Incrementally Adjustable by 6˚, 3.5 in to Optical Center (120˚ Pivot Limit) **WMiH12:** Wall Mounting Horizontal Incrementally Adjustable by 6˚, 12 in to Optical Center (180˚ Pivot Limit) **WMiH24:** Wall Mounting Horizontal Incrementally Adjustable by 6˚, 24 in to Optical Center (180˚ Pivot Limit) **WMiH6:** Wall Mounting Horizontal Incrementally Adjustable by 6˚, 6 in to Optical Center (180˚ Pivot Limit) **WMiH18:** Wall Mounting Horizontal Incrementally Adjustable by 6˚, 18 in to Optical Center (180˚ Pivot Limit)
Optical Accessories	**LV:** Radial Louver **LVAS:** Radial Louver Asymmetric **VS:** Visor
Warranty	5-year limited warranty

Performance

Maximum Delivered Output	2,499 lm (10 W/ft, 48 in fixture, MDWW and MDTW, 10° x 10°, CL lens, DMX/RDM) 5,163 lm 22 W/ft, 48 in fixture, MDWW and MDTW, 10° x 10°, CL lens, DMX/RDM) 2,859 lm (10 W/ft, 48 in fixture, MDWH, 10° x 10°, CL lens, DMX/RDM) 6,113 lm (22 W/ft, 48 in fixture, MDWH, 10° x 10°, CL lens, DMX/RDM)
Maximum Delivered Intensity	33,333 cd at nadir (10 W/ft, 48 in fixture, MDWW and MDTW, 10° x 10°, CL lens, DMX/RDM) 68,868 cd at nadir (22 W/ft, 48 in fixture, MDWW and MDTW, 10° x 10°, CL lens, DMX/RDM) 38,138 cd at nadir (10 W/ft, 48 in fixture, MDWH, 10° x 10°, CL lens, DMX/RDM) 81,532 cd at nadir (22 W/ft, 48 in fixture, MDWH, 10° x 10°, CL lens, DMX/RDM)
Illuminance at Distance	Minimum 1 fc at 183 ft (10 W/ft, 48 in fixture, MDWW and MDTW, 10° x 10°, CL lens, DMX/RDM) Minimum 1 fc at 262 ft (22 W/ft, 48 in fixture, MDWW and MDTW, 10° x 10°, CL lens, DMX/RDM) Minimum 1 fc at 195 ft (10 W/ft, 48 in fixture, MDWH, 10° x 10°, CL lens, DMX/RDM) Minimum 1 fc at 286 ft (22 W/ft, 48 in fixture, MDWH, 10° x 10°, CL lens, DMX/RDM)

Certifications

Lumen Maintenance	L70 (15K) > 90,000 hrs Ta 25 °C (TM-21 reported) L70 > 150,000 hrs Ta 25 °C (projected)* L90 (15K) = 65,700 hrs Ta 25 °C (TM-21 reported) L90 = 65,700 hrs Ta 25 °C (projected)* *Estimated based on in-situ case temperature and LM-80 report

Physical

Housing Material	Low copper content extruded aluminum
Lens Material	Tempered glass
Hardware Material	Stainless steel
End Cap Material	Die cast aluminum
Gasket Material	Silicone
Surface Finish	**XD:** Luminaire treated with extra-durable, multi-step finish: zirconium pretreatment completed with corrosion-resistant primer and electrostatically-applied, powder coat paint finish
Weight	5 lbs (12 in fixture) 9.3 lbs (24 in fixture) 14 lbs (36 in fixture) 17.5 lbs (48 in fixture)

Electrical and Control

Voltage	120 to 277 volts (UL certification) 220 to 240 volts (CE certification, Class I)
Wattage	**10W:** 10 W/ft , **22W:** 22 W/ft
Control	**DALIT8:** DALI 2 T8 Control , **LT:** Lumentalk , **DMX/RDM:** DMX/RDM Enabled , **DIM:** 0-10V Dimming
Inrush Current (Peak)	Meets NEMA-410 requirements (Based on voltage and control specifications, consult factory for details)

Environmental

Storage Temperature	-40 °F to 185 °F
Start-up Temperature	-40 °F to 122 °F
Operating Temperature	For 10 W/ft fixtures: -40 °F to 122 °F For 22 W/ft fixtures, UL Certification: -40 °F to 122 °F For 22 W/ft fixtures, CE Certification: -40 °F to 104 °F
Ingress Protection Rating	IP66 IP67 (suitable for applications with temporary immersion in water only (no permanent immersion), proper drainage around the fixture is required). Consult factory for details
Impact Resistance Rating	IK07 (CL lens), IK07 (HFR lens), IK06 (FR lens) Consult factory for IK08 lens option

Application Wind Speed	Luminaires were designed based on AASHTO 2013 standard to ensure highest quality and safety. Installation should be validated by a local project engineer to ensure the luminaires are suitable for the wind speed and exposure of the specific application
Environment	Wet location

Accessories (Order Separately)

Cables	**LFLC:** Lumenfacade Leader Cable **LFJC:** Lumenfacade Jumper Cable **LFTJ:** Lumenfacade T-Junction

Photometric Information

10 W/ft (MDWW and MDTW)

Symmetric

	Delivered Output (lm)	Intensity (Peak cd)
10°x10°	2,499	33,333
10°x30°	2,362	12,267
10°x60°	2,377	7,536
10°x90°	2,377	5,139
30°x30°	2,332	5,516
30°x60°	2,314	3,019
30°x90°	2,102	2,142
60°x60°	2,287	1,883
90°x90°	2,235	1,294
30°x10°	2,236	11,017
60°x10°	2,297	6,965
60°x30°	2,291	3,407
90°x10°	2,038	4,090
W (120°)	1,762	621

Asymmetric

NAS	2,462	15,026
WW	2,375	3,904
CAS	1,922	2,625

Based on MDWW and MDTW, full output, 48 in, DMX/RDM.

22 W/ft (MDWW and MDTW)

Symmetric

	Delivered Output (lm)	Intensity (Peak cd)
10°x10°	5,163	68,868
10°x30°	4,879	25,345
10°x60°	4,911	15,570
10°x90°	4,912	10,618
30°x30°	4,819	11,397
30°x60°	4,781	6,237
30°x90°	4,342	4,426
60°x60°	4,724	3,890
90°x90°	4,618	2,673
30°x10°	4,620	22,761
60°x10°	4,745	14,391
60°x30°	4,734	7,040
90°x10°	4,210	8,449
W (120°)	3,641	1,283

Asymmetric

NAS	5,086	31,044
WW	4,907	8,067
CAS	3,971	5,424

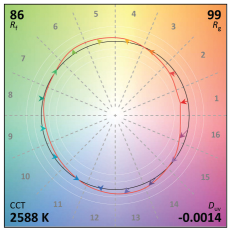
Based on MDWW and MDTW full output, 48 in, DMX/RDM.

Photometric performance is measured in compliance with IESNA LM 79-08.
10x10, 10x30, 10x60, 10x90, 30x30, 30x60, 30x90, 60x60, 90x90, 30x10, 60x10, 60x30, 90x10, W, NAS and CAS optics tested with CL lens. WW optic tested with HFR lens.

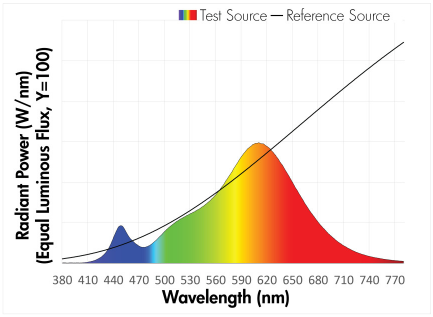
Chromaticity Data

TM-30 - MDWW

CCT	CIE		TM-30	
MDWW Full Output	R_a	85	86	R_f
	R_9	17	99	R_g



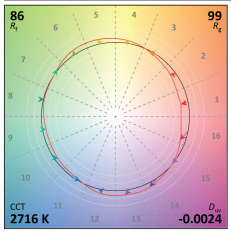
MDWW Spectral Power Distribution



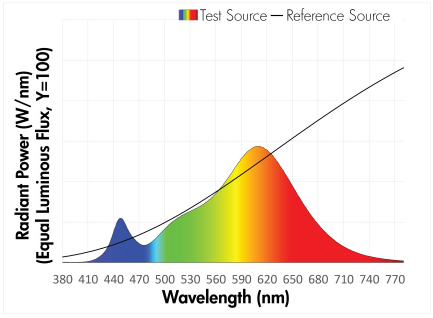
Refer to the TM-30 and Spectral Power Distribution Guide on the website for information on other color temperatures.

TM-30 - MDWWP

CCT	CIE		TM-30	
MDWWP Full Output	R_a	85	86	R_f
	R_9	19	99	R_g



MDWWP Spectral Power Distribution



Refer to the TM-30 and Spectral Power Distribution Guide on the website for information on other color temperatures.

Photometric Information

10 W/ft (MDWH)

Symmetric

	Delivered Output (lm)	Intensity (Peak cd)
10°x10°	2,859	38,138
10°x30°	2,702	14,035
10°x60°	2,720	8,622
10°x90°	2,720	5,880
30°x30°	2,669	6,311
30°x60°	2,648	3,454
30°x90°	2,405	2,451
60°x60°	2,616	2,154
90°x90°	2,558	1,480
30°x10°	2,558	12,605
60°x10°	2,628	7,969
60°x30°	2,622	3,899
90°x10°	2,332	4,679
W (120°)	2,016	711

Asymmetric

NAS	2,816	17,191
WW	2,717	4,467
CAS	2,199	3,004

Based on MDWH, full output, 48 in, DMX/RDM.

22 W/ft (MDWH)

Symmetric

	Delivered Output (lm)	Intensity (Peak cd)
10°x10°	6,113	81,532
10°x30°	5,777	30,005
10°x60°	5,814	18,433
10°x90°	5,815	12,570
30°x30°	5,705	13,493
30°x60°	5,661	7,384
30°x90°	5,140	5,240
60°x60°	5,593	4,605
90°x90°	5,468	3,165
30°x10°	5,469	26,946
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W (120°)	4,310	1,519

Asymmetric

NAS	6,021	36,752
WW	5,809	9,550
CAS	4,701	6,421

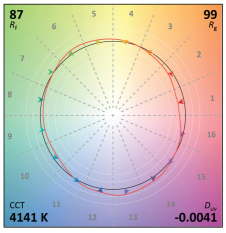
Based on MDWH, full output, 48 in, DMX/RDM.

Photometric performance is measured in compliance with IESNA LM 79-08.
10x10, 10x30, 10x60, 10x90, 30x30, 30x60, 30x90, 60x60, 90x90, 30x10, 60x10, 60x30, 90x10, W, NAS and CAS optics tested with CL lens. WW optic tested with HFR lens.

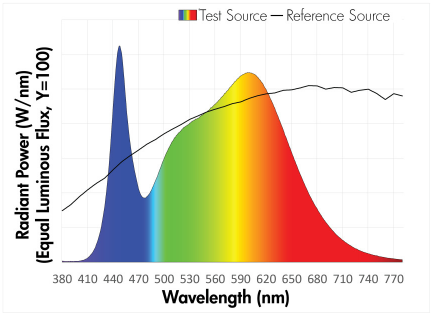
Chromaticity Data

TM-30 - MDWH

CCT	CIE		TM-30	
MDWH Full Output	R_a	88	87	R_f
	R_9	33	99	R_g

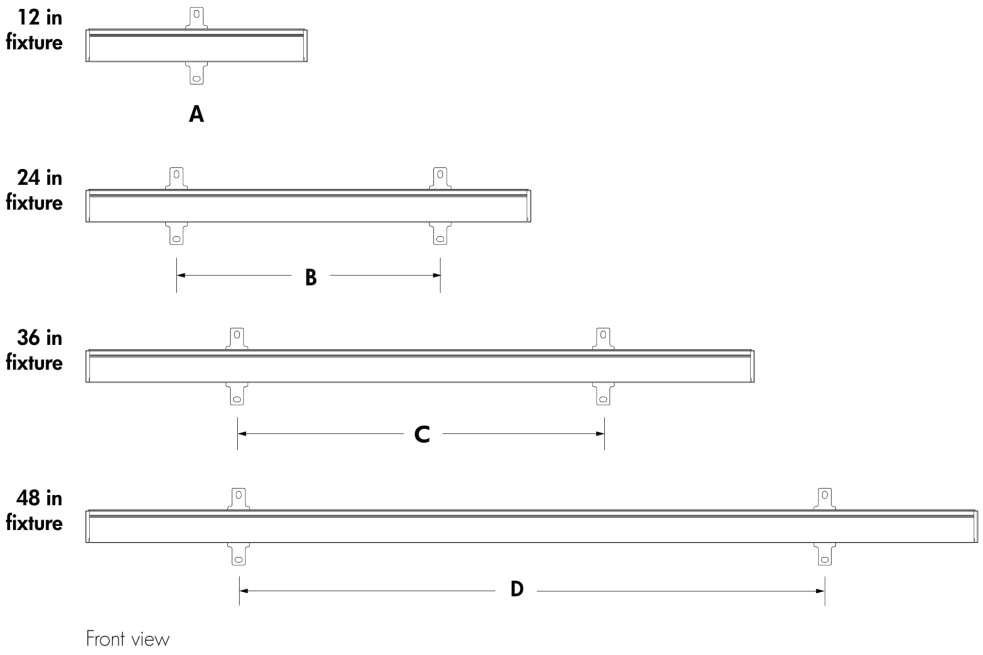


MDWH Spectral Power Distribution



Refer to the TM-30 and Spectral Power Distribution Guide on the website for information on other color temperatures.

Mounting Bracket Placement (Minimum and Maximum Distances)



Front view

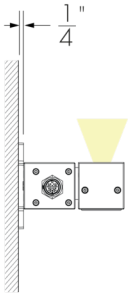
A - Bracket in the center of the fixture
B - Minimum 14 in to maximum 17 in
C - Minimum 20 1/2 in to maximum 23 1/2 in
D - Minimum 30 1/2 in to maximum 33 1/2 in

FXH mounting brackets shown.

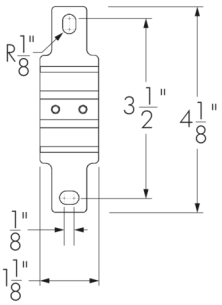
The mounting bracket(s) must be centered on fixture and as symmetrical as possible. Distances must be respected for all installations.

Mounting Options

FXH - Fixed Mounting Horizontal



FXH - Mounting Hole Pattern

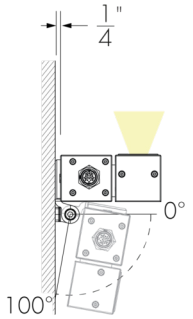


One mounting bracket provided for 12 in fixtures. Two mounting brackets provided for 24 in, 36 in and 48 in fixtures.

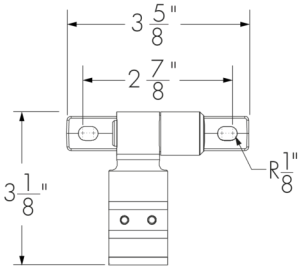
Weight of one FXH Mounting Bracket: 0.11 lbs.
Weight of two FXH Mounting Brackets: 0.22 lbs.

For proper hardware selection, use the dimensions of the mounting option, the weight and EPA values of the mounting option, and the weight and EPA values of the fixture and accessories for your engineering calculations.

SMH - Slim Adjustable Mounting Horizontal



SMH - Mounting Hole Pattern



No vibration rating. Not suitable for bridge and overpass applications.

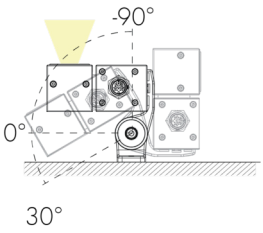
One mounting bracket provided for 12 in fixtures. Two mounting brackets provided for 24 in, 36 in and 48 in fixtures.

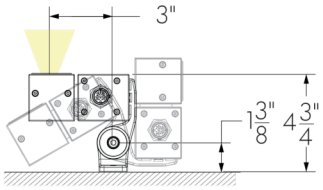
Weight of one SMH Mounting Bracket: 0.26 lbs.
Weight of two SMH Mounting Brackets: 0.53 lbs.

Not suitable when fixture is exposed to wind.

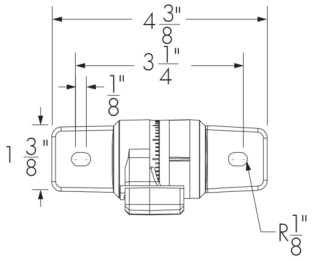
For proper hardware selection, use the dimensions of the mounting option, the weight and EPA values of the mounting option, and the weight and EPA values of the fixture and accessories for your engineering calculations.

WMCH3 - Wall Mounting Horizontal Continuously Adjustable, 3.5 in to Optical Center
WMiH3 - Wall Mounting Horizontal Incrementally Adjustable by 6˚, 3.5 in to Optical Center





WMCH3 WMiH3 - Mounting Hole Pattern



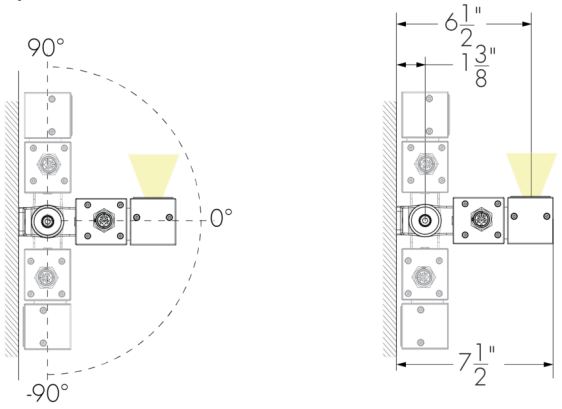
No vibration rating. Not suitable for bridge and overpass applications.

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

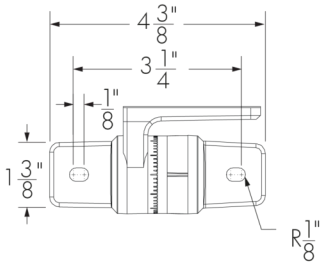
Weight of one WMCH3/WMiH3 Mounting Bracket: 0.62 lbs.
Weight of two WMCH3/WMiH3 Mounting Brackets: 1.23 lbs.

For proper hardware selection, use the dimensions of the mounting option, the weight and EPA values of the mounting option, and the weight and EPA values of the fixture and accessories for your engineering calculations.

WMCH6 - Wall Mounting Horizontal Continuously Adjustable, 6 in to Optical Center
WMiH6 - Wall Mounting horizontal Incrementally Adjustable by 6˚, 6 in to Optical Center

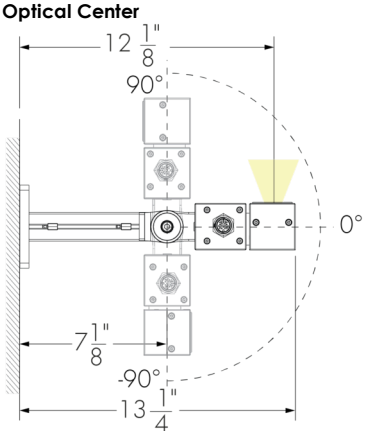


WMCH6 WMiH6 - Mounting Hole Pattern

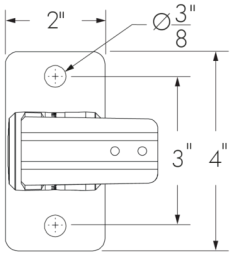


Weight of one WMCH6/WMiH6 Mounting Bracket: 0.62 lbs.
Weight of two WMCH6/WMiH6 Mounting Brackets: 1.23 lbs.

WMCH12 - Wall Mounting Horizontal Continuously Adjustable, 12 in to Cptical Center
WMiH12 - Wall Mounting Horizontal Incrementally Adjustable by 6˚, 12 in to Optical Center



WMCH12 WMiH12 - Mounting Hole Pattern

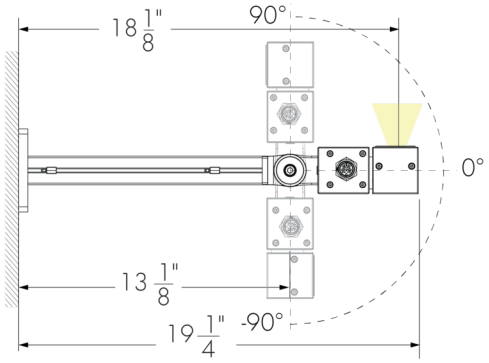


Weight of one WMCH12/WMiH12 Mounting Bracket: 1.5 lbs.
Weight of two WMCH12/WMiH12 Mounting Brackets: 3 lbs.

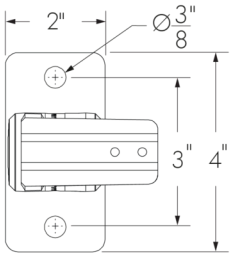
One mounting bracket provided for 12 in fixtures. Two mounting brackets provided for 24 in, 36 in and 48 in fixtures.

For proper hardware selection, use the dimensions of the mounting option, the weight and EPA values of the mounting option, and the weight and EPA values of the fixture and accessories for your engineering calculations.

WMCH18 - Wall Mounting Horizontal Continuously Adjustable, 18 in to Optical Center
WMi1H8 - Wall Mounting Horizontal Incrementally Adjustable by 6˚, 18 in to Optical Center

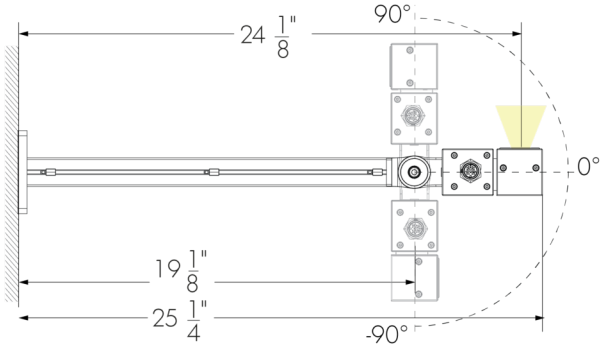


WMCH18 WMiH18 - Mounting Hole Pattern

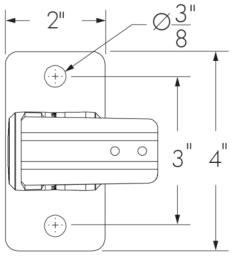


Weight of one WMCH18/WMiH18 Mounting Bracket: 2.09 lbs.
Weight of two WMCH18/WMiH18 Mounting Brackets: 4.19 lbs.

WMCH24 - Wall Mounting Horizontal Continuously Adjustable, 24 in to Optical Center
WMiH24 - Wall Mounting Horizontal Incrementally Adjustable by 6˚, 24 in to Optical Center



WMCH24 WMiH24 - Mounting Hole Pattern

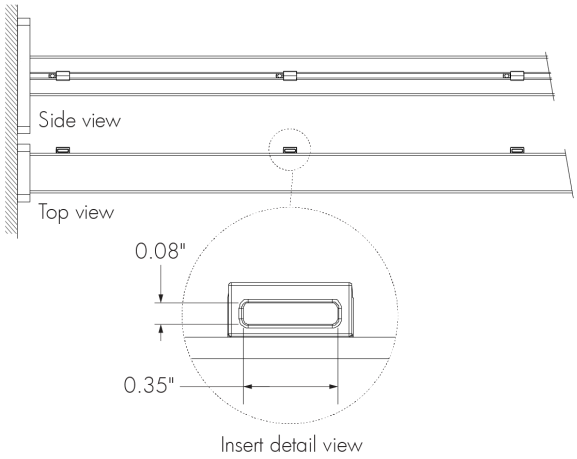


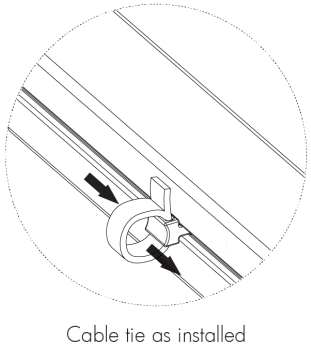
Weight of one WMCH24/WMiH24 Mounting Bracket: 2.65 lbs.
Weight of two WMCH24/WMiH124 Mounting Brackets: 5.29 lbs.

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

For proper hardware selection, use the dimensions of the mounting option, the weight and EPA values of the mounting option, and the weight and EPA values of the fixture and accessories for your engineering calculations.

Cable Management System For Wall Mounting Brackets



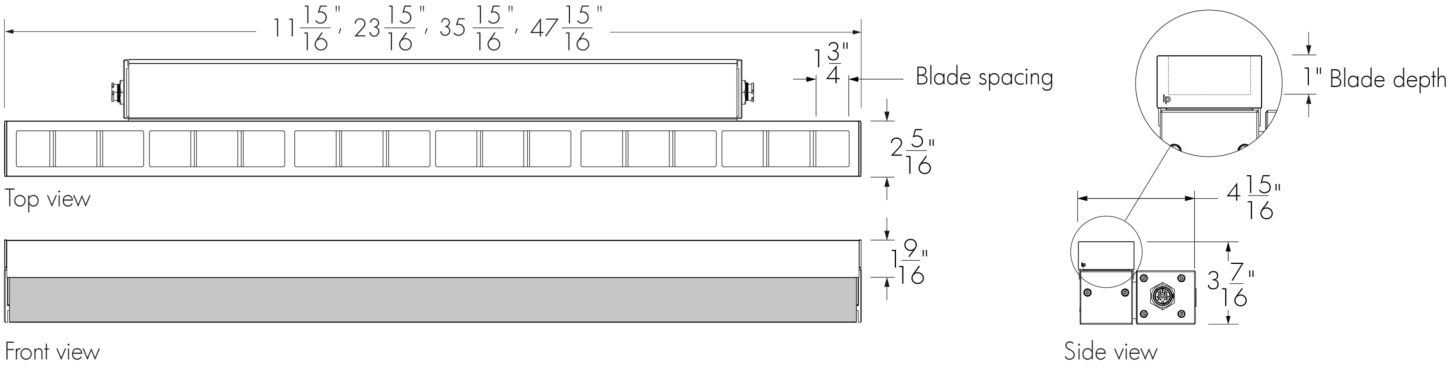


1 cable attachment provided for WMCH6 and WMiH6 mounting arms.
2 cable attachments provided for WMCH12, WMiH12, WMCH18 and WMiH18 mounting arms.
3 cable attachments provided for WMCH24 and WMiH24 mounting arms.

Maximum cable tie size: 0.35 in width, 0.08 in thickness.
Cable ties for outdoor applications are recommended, provided by others.

Accessories

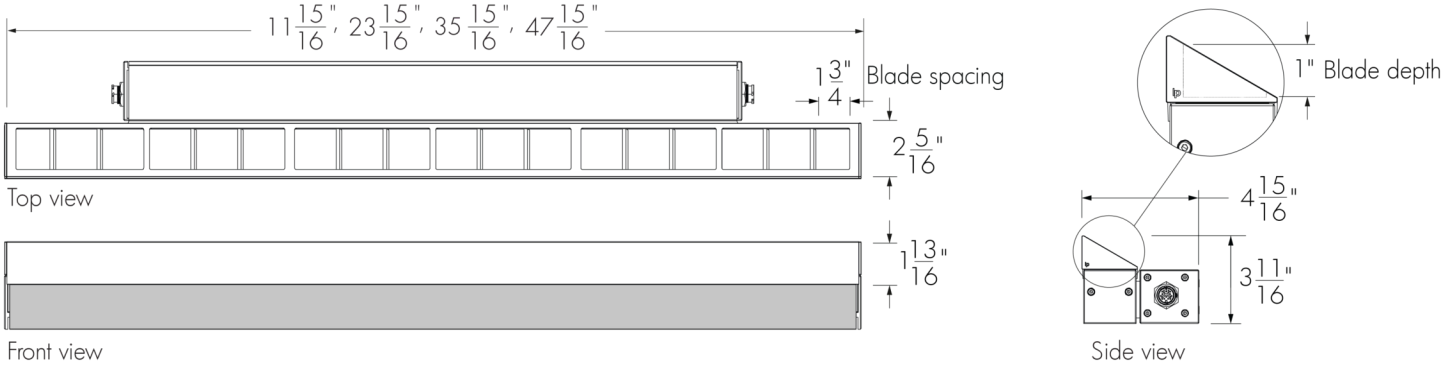
LV - Radial Louver



- A Radial Louver will affect beam distribution. Consult factory for application support.
- The Radial Louver is field installable. The Radial 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 painted matte black).
- Not suitable for NAS, CAS and WW optics.
- Consult EPA Guide in the specification sheet for engineering calculations.

Weight of 12 in accessory: 0.65 lbs, and 24 in accessory: 1.25 lbs, weight of 36 in accessory: 1.75 lbs, weight of 48 in accessory: 2.3 lbs.
Note: the weight of the accessory is in addition to the weight of the fixture.

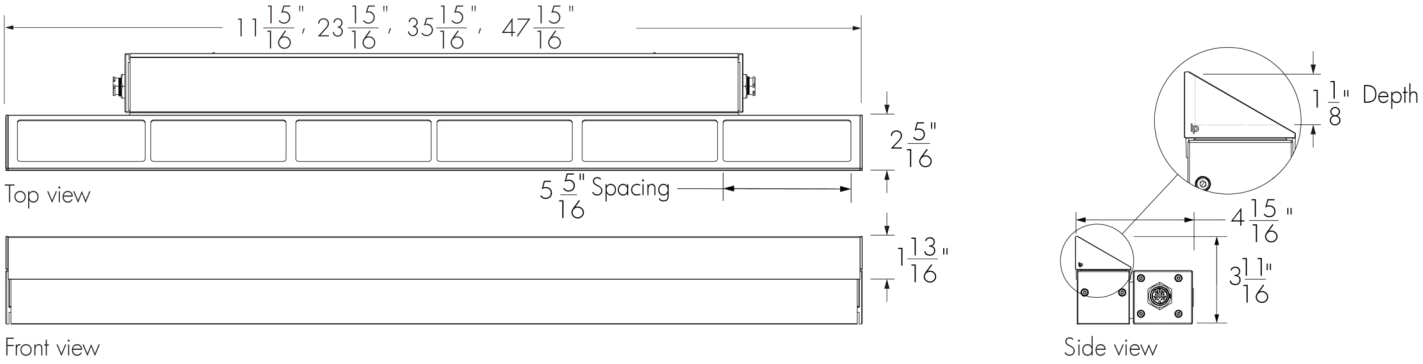
LVAS - Radial Louver Asymmetric



- A Radial Louver Asymmetric will affect beam distribution. Consult factory for application support.
- The Radial Louver Asymmetric is field installable. The Radial Louver Asymmetric 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 painted matte black).
- Consult EPA Guide in the specification sheet for engineering calculations.

Weight of 12 in accessory: 0.5 lbs, weight of 24 in accessory: 1 lbs, weight of 36 in accessory: 1.3 lbs, weight of 48 in accessory: 1.7 lbs.
Note: the weight of the accessory is in addition to the weight of the fixture.

VS - Visor



- 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 with the exception of the inside surface of the Visor end caps, which are painted the same colour as the fixture. Interior surface painted matte black.
- Consult EPA Guide in the specification sheet for engineering calculations.

Weight of 12 in accessory: 0.4 lbs, weight of 24 in accessory: 0.8 lbs, weight of 36 in accessory: 1.2 lbs, weight of 48 in accessory: 1.5 lbs.
Note: the weight of the accessory is in addition to the weight of the fixture.

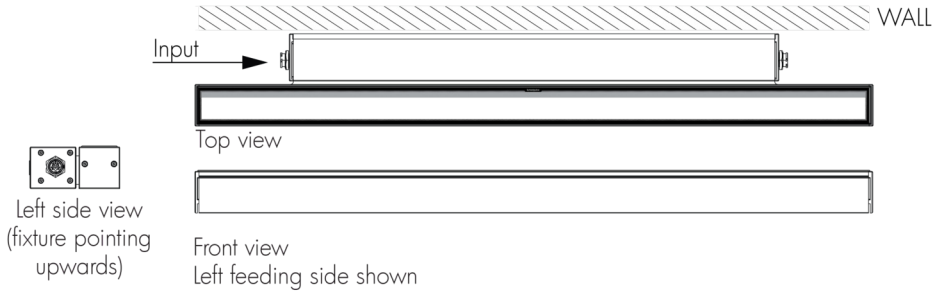
Lens and Optics Combinations Table

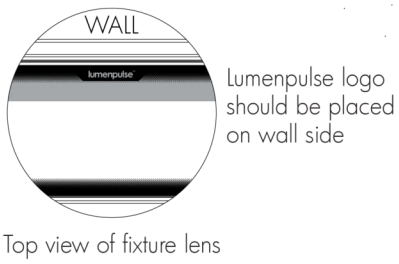
Lens/Optics	10x10	10x30	10x60	10x90	30x30	30x60	30x90	60x60	90x90	30x10	60x10	60x30	90x10	W	NAS	WW	CAS
CL Clear Lens	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	⊗	✔
HFR Half-Frosted Lens	✔	✔	✔	✔	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	✔	✔	⊗
FR Frosted Lens	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔

✔ Lens option
⊗ Not available

Half-Frosted Lens Details

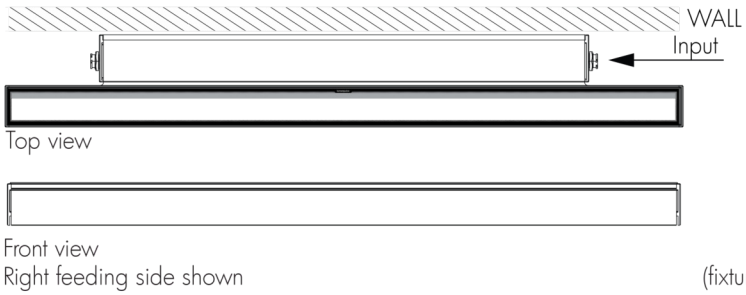
Left Feeding Side

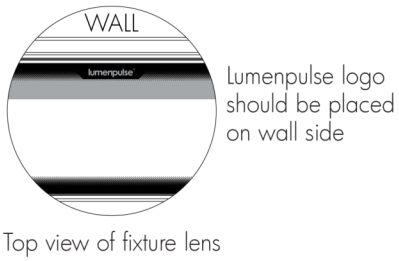




- Position frosted side of the lens and Lumenpulse logo along the wall.
- Fixture's feeding side is based on uplight installations. Feeding sides are reversed when fixture is used in a downlight application.

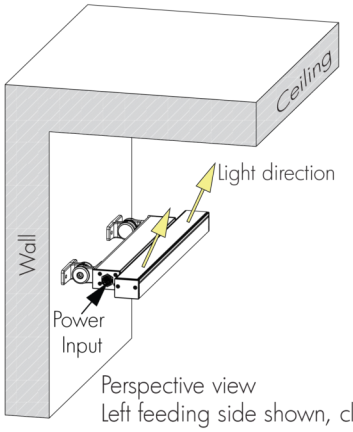
Right Feeding Side



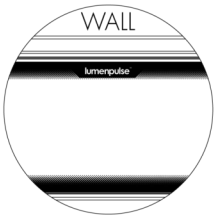


- Position frosted side of the lens and Lumenpulse logo along the wall.
- Fixture's feeding side is based on uplight installations. Feeding sides are reversed when fixture is used in a downlight application.

Ceiling Asymmetric Optic Details

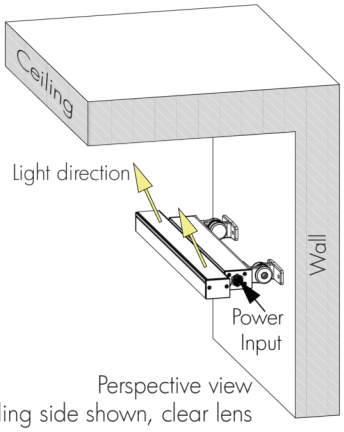


Perspective view
Left feeding side shown, clear lens



Top view of fixture lens

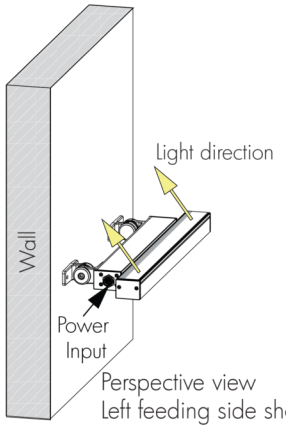
Lumenpulse logo should
be placed on wall side



Perspective view
Right feeding side shown, clear lens

- Always position Lumenpulse logo on lens along the wall.
- Fixture's feeding side is based on uplight installations. Feeding sides are reversed when fixture is used in a downlight application.
- **Ceiling Asymmetric optic guidelines:** 18 in minimum setback, 1:5 setback/canopy depth ratio (based on CL lens).

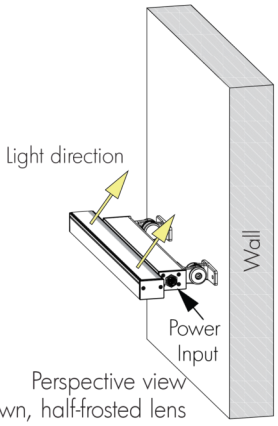
Narrow Asymmetric and Asymmetric Wallwash Optics Details



Perspective view
Left feeding side shown, half-frosted lens

Top view of fixture lens

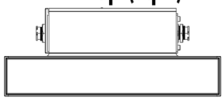
Lumenpulse logo should
be placed on wall side



Perspective view
Right feeding side shown, half-frosted lens

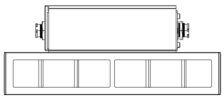
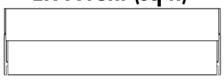
- Position frosted side of the lens and Lumenpulse logo along the wall.
- Fixture's feeding side is based on uplight installations. Feeding sides are reversed when fixture is used in a downlight application.
- **Narrow Asymmetric optic guidelines:** 12 in minimum setback,1:10 setback ratio (based on HFR lens).
- **Asymmetic Wallwash optic guidelines:** 6 in minimum setback,1:8 setback ratio (based on HFR lens).

EPA Guide - Fixture

	12 in	24 in	36 in	48 in
EPA Top (sq ft) 	0.403	0.928	1.333	1.858
EPA Front (sq ft) 	0.241	0.483	0.726	0.968
EPA Side (sq ft) 	0.099	0.099	0.099	0.099

EPA Guide - Fixture with Accessory

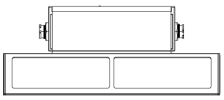
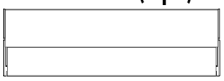
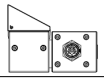
Fixture With Radial Louver Accessory

	12 in	24 in	36 in	48 in
EPA Top (sq ft) 	0.403	0.928	1.333	1.858
EPA Front (sq ft) 	0.367	0.736	1.105	1.474
EPA Side (sq ft) 	0.138	0.138	0.138	0.138

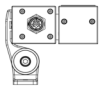
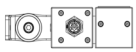
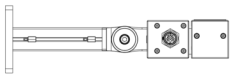
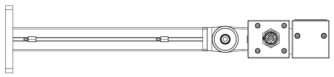
Fixture With Radial Louver Asymmetric Accessory

	12 in	24 in	36 in	48 in
EPA Top (sq ft) 	0.403	0.928	1.333	1.858
EPA Front (sq ft) 	0.379	0.760	1.141	1.522
EPA Side (sq ft) 	0.122	0.122	0.122	0.122

Fixture With Visor Accessory

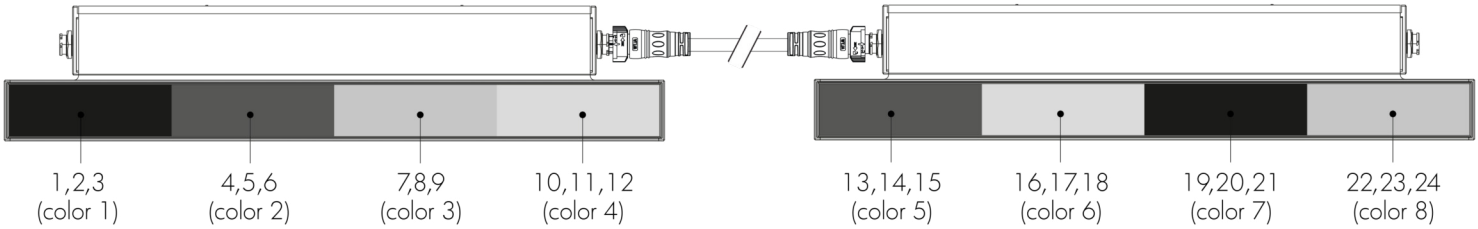
	12 in	24 in	36 in	48 in
EPA Top (sq ft) 	0.403	0.928	1.333	1.858
EPA Front (sq ft) 	0.379	0.760	1.141	1.522
EPA Side (sq ft) 	0.122	0.122	0.122	0.122

EPA Guide - Mounting Option

	EPA Top/Side (sq ft)	
FXH	N/A	
SMH	0.01	
WMCH3 **WMiH3**	0.04	
WMCH6 **WMiH6**	0.05	
WMCH12 **WMiH12**	0.15	
WMCH18 **WMiH18**	0.22	
WMCH24 **WMiH24**	0.30	

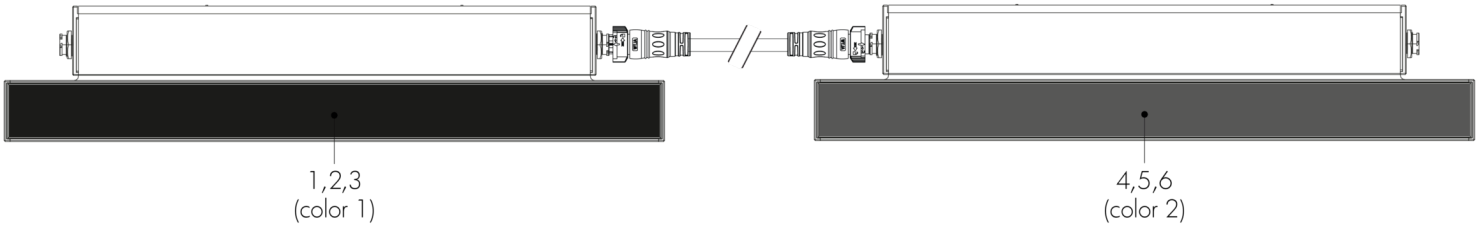
Resolution Details

DMX/RDM Control, Resolution Per Foot: Each 12 in Section is Addressed Independently
DMX Addresses:



DMX/RDM control option

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



DMX/RDM control option

- 48 in fixtures shown.
- Applicable for DMX/RDM control option only. Fixture resolution can be configured on-site within the LumenID V3 software. A DMX/RDM enabled CBX is required.

Wiring Color Code

DIM, DALI T8 and LT Control (XC3P2D)

UL Color Code	Use
Green	Ground
Black	Line
White	Neutral
Purple	0-10V + / Data +
Orange	0-10V - / Data -

DMX/RDM Control (XC3P3D)

UL Color Code	Use
Green	Ground
Black	Line
White	Neutral
Red	Data +
Orange	Data -
Gray	Signal Common

Maximum Fixture Run Length Table

DMX/RDM Control (DMX/RDM)

Lumenfacade Max 10W/ft

Voltage	120V	230V	277V
Maximum Run of Fixtures	112ft	128ft	128ft

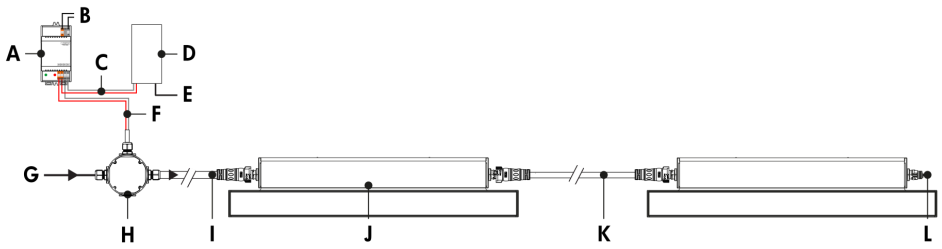
Lumenfacade Max 22W/ft

Voltage	120V	230V	277V
Maximum Run of Fixtures	64ft	128ft	128ft

Based on 48 in fixtures, DMX/RDM control, 25 ft leader cable for an end-to-end run with 2 ft jumper cables between fixtures. Refer to Typical Wiring Diagrams for Control Protocol specific run length rules.

Typical Wiring Diagrams

DALI 2 T8 (DALIT8)

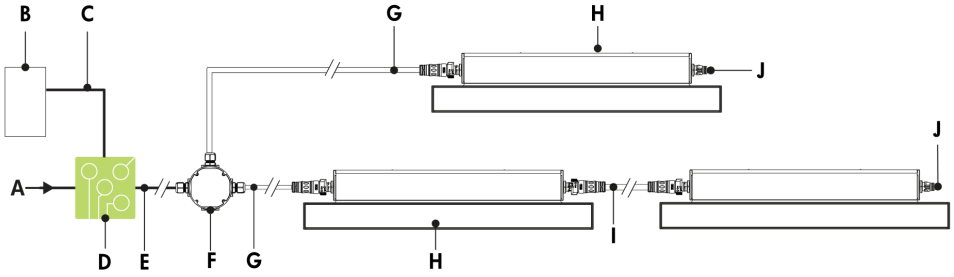


A - DALI bus power supply (by others)
B - Power input for DALI bus power supply (wiring by others)
C - Data output to DALI controller (wiring by others)
D - DALI controller (by others)
E - Power input for DALI controller (if required, wiring by others)
F - Data output to fixture (wiring by others)
G - Power input (120 to 277V, wiring by others)
H - Junction box (by others)
I - Leader Cable (LFLC XC3P2D)
J - Lumenfacade Max Continuous Horizontal (LFM-CH)
K - Jumper Cable (LFJC XC3P2D)
L - Sealing End Cap

Refer to installation instructions for additional wiring details and wiring diagram with Lumenfacade T-Junction accessory.

- 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 1% minimum dimming value.

Lumentalk (LT)

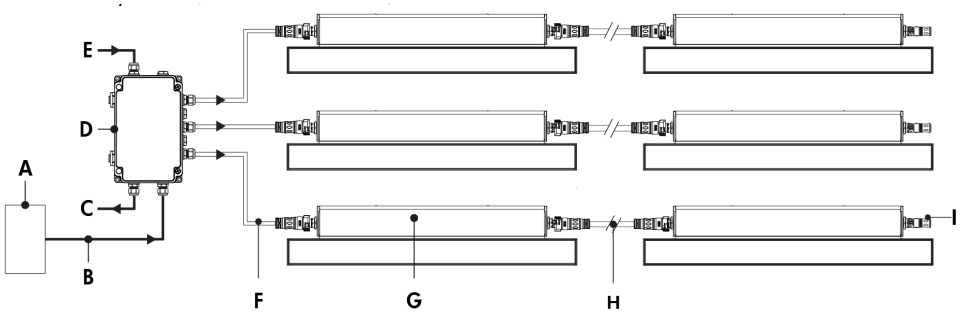


A - Power input (120 to 277V, wiring by others)
B - DMX/RDM controller (order separately from Lumenpulse, or by others)
C - Data wiring (by others)
D - Lumentranslator 2 (LTL2-DMX)
E - Power wiring (by others)
F - Junction box (by others)
G - Leader cable (LFLC XC3P2D)
H - Lumenfacade Max Continuous Horizontal (LFM-CH)
I - Jumper cable (LFJC XC3P2D)
J - Sealing End Cap

Refer to installation instructions for additional wiring details and wiring diagram with Lumenfacade T-Junction accessory.

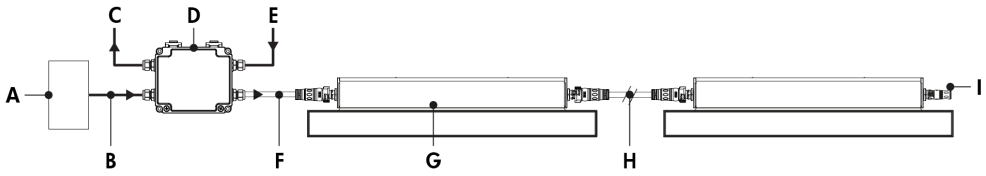
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- For DMX applications: 1 DMX controller per Lumentalk network, maximum of 48 DMX channels per Lumentalk network (minimum step transition update rate is 1 second, minimum fade time between two colors is 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.

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 (LFLC XC3P3D)
G - Lumenfacade Max Continuous Horizontal (LFM-CH)
H - Jumper Cable (LFJC XC3P3D)
I - DMX/RDM Terminator

Daisy Chain Layout (DMX/RDM)

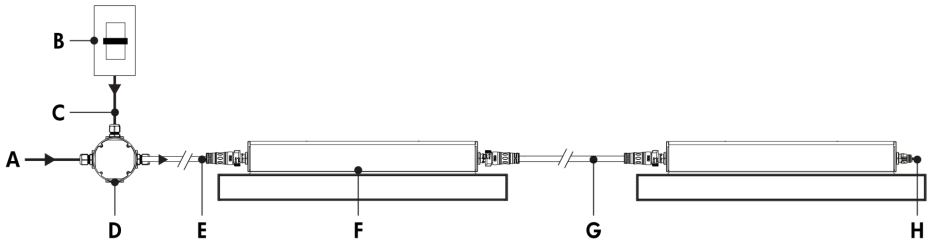


A - Third-party DMX/RDM controller
B - Data input (Belden 9841 or equivalent, by others)
C - Data output to next CBX (optional, not isolated/not boosted)
D - CBX-DS
E - Power input (120 to 277V, wiring by others)
F - Leader Cable (LFLC XC3P3D)
G - Lumenfacade Max Continuous Horizontal (LFM-CH)
H - Jumper Cable (LFJC XC3P3D)
I - DMX/RDM Terminator

Refer to installation instructions for additional wiring details.

- Consult CBX installation instructions for additional wiring details.
- 1000 ft maximum DMX/RDM "Bus" length.
- 1 DMX universe = 128 @ 3-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.

Dim to Warm Via 0-10V (DIM/DTW)



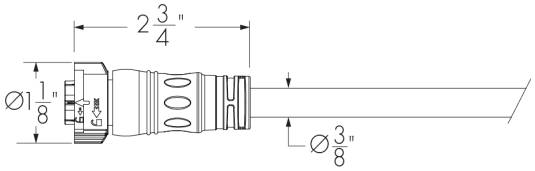
A - Power input (120 to 277V, wiring by others)
B - Third-party dimmer
C - Data wiring (by others)
D - Junction box (by others)
E - Leader Cable (LFLC XC3P2D)
F - Lumenfacade Max Continuous Horizontal (LFM-CH)
G - Jumper Cable (LFJC XC3P2D)
H - Sealing End Cap

Refer to installation instructions for additional wiring details and wiring diagram with Lumenfacade T-Junction accessory.

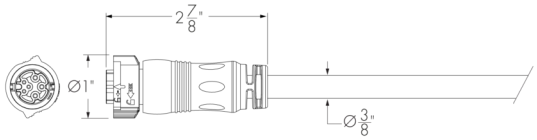
- 0-10V mA ratings: passive dimmer (Current Sink): 3mA per fixture, active dimmer (Current Source): 0.5mA per fixture.
- Less than 1% minimum dimming value.

Leader Cable (Order Separately)

LFLC - Lumenfacade Leader Cable (XC3P2D)



LFLC - Lumenfacade Leader Cable (XC3P3D)



UL version shown. Consult European specification sheet for CE cable details.

LFLC-**TYPE-CERTIFICATION-VOLTAGE-LENGTH-CONNECTOR/CABLE TYPE-CONNECTOR SHAPE-CABLE/CONNECTOR COLOR**

Please specify:
DALI T8, LT, DIM applications:
TYPE: CR/CH (Continuous Run or Continuous Horizontal); **CERTIFICATION**: UL or CE; **VOLTAGE:** 120_277; **LENGTH**: 10 ft, 25 ft, 50 ft, 100 ft, 150 ft or 200 ft; **CONNECTOR/CABLE TYPE:** XC3P2D (5x 16AWG X-lock size); **CONNECTOR SHAPE:** 180D (Straight Connector); **CABLE/CONNECTOR COLOR**: BK (Black) or WH (White) (connectors are the same color as the specified cable color).

A waterproof sealing end cap is mandatory for any unused connector. One (1) included with every CR/CH XC3P2D Leader Cable.

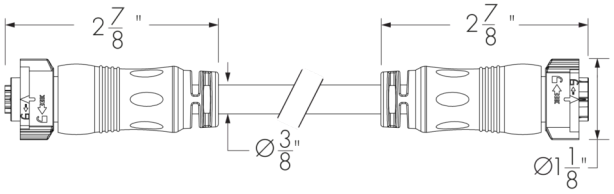
DMX/RDM applications:
TYPE: CR/CH (Continuous Run or Continuous Horizontal); **CERTIFICATION**: UL or CE; **VOLTAGE:** 120_277; **LENGTH**: 10 ft, 25 ft, 50 ft, 100 ft, 150 ft or 200 ft; **CONNECTOR/CABLE TYPE:** XC3P3D (3x14AWG + 3x24AWG X-lock C-size); **CONNECTOR SHAPE:** 180D (Straight Connector) or 90D (90° Angle Connector); **CABLE/CONNECTOR COLOR**: BK (Black) or WH (White) (connectors are the same color as the specified cable color).

A DMX/RDM terminator is mandatory at the end of a fixture run. One (1) included with every CR/CH XC3P3D Leader Cable.

- Consult Lumenfacade Leader cable specification sheet for all available cable lengths and additional information.

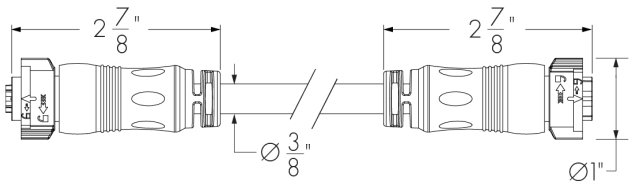
Jumper Cable (Order Separately)

LFJC - Lumenfacade Jumper Cable (XC3P2D)

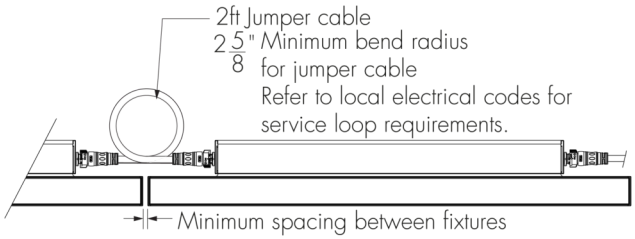


UL version shown. Consult European specification sheet for CE cable details.

LFJC - Lumenfacade Jumper Cable (XC3P3D)



UL version shown. Consult European specification sheet for CE cable details.



LFJC-**CERTIFICATION-VOLTAGE-LENGTH-CONNECTOR/CABLE TYPE-CONNECTOR SHAPE-CABLE/CONNECTOR COLOR**

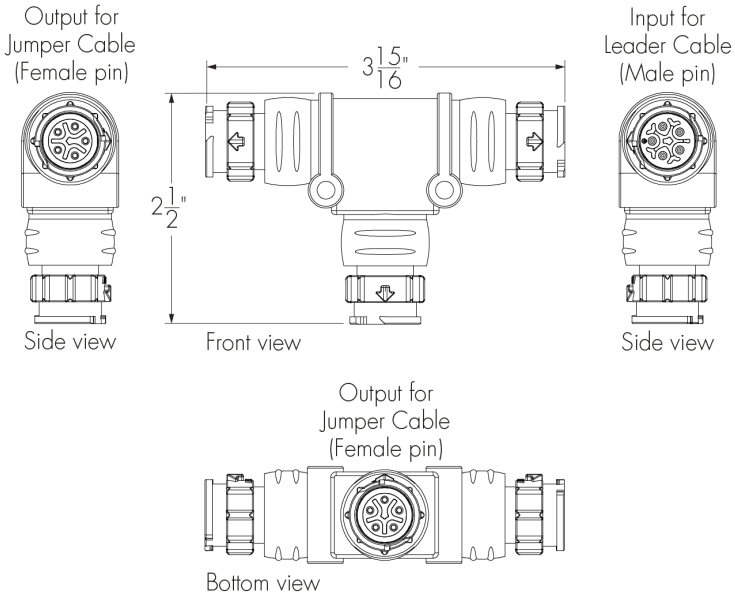
Please specify:
CERTIFICATION: UL or CE; **VOLTAGE:** 120_277; **LENGTH**: 1 ft, 2 ft, 5 ft, 10 ft, 25 ft or 50 ft; **CONNECTOR/CABLE TYPE:** XC3P2D (5x 16AWG X-lock size) or XC3P3D (3x14AWG + 3x24AWG X-lock C-size); **CONNECTOR SHAPE:** 180D (straight connector); **CABLE/CONNECTOR COLOR**: BK (Black) or WH (White) (connectors are the same color as the specified cable color).

- Suitable for dimming/data and non-dimming applications.
- Consult Lumenfacade Jumper Cable specification sheet for additional information.

- For closely spaced fixtures, a minimum jumper cable length of 2 ft is recommended to accommodate a cable loop between fixtures.
- Minimum spacing for 36 in and 48 in fixtures in a row: 0.35 in.
- Minimum spacing for 12 in and 24 in fixtures at the end of a fixture run, next to 36 in and 48 in fixtures: 0.35 in.
- Minimum spacing for 12 in and 24 in fixtures in a row: 2.75 in.
- Minimum bend radius 2.56 in.

T-Junction (Order Separately)

LFTJ - Lumenfacade T-Junction (XC3P2D)
Available For DALI T8, LT and DIM Control Options Only



LFTJ-**CONNECTOR/CABLE TYPE-CABLE/CONNECTOR COLOR**

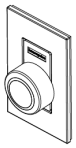
Please specify:
CONNECTOR/CABLE TYPE: XC3P2D (5x 16AWG X-lock size); **CABLE/CONNECTOR COLOR**: BK (Black) or WH (White).

- Suitable for dimming/data and non-dimming applications with LFM fixtures.
- Consult factory for guidelines on the use of T-Junctions in a fixture run.
- Consult Lumenfacade T-Junction specification sheet for additional information.

- The T-Junction accessory can be used to connect a feed input, with a throughput to a localized run of fixtures and an output to the rest of your installation.
- Waterproof sealing end cap is mandatory for any unused connector. One (1) included with every T-Junction accessory.

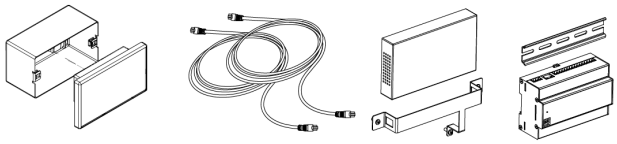
Control Systems (Order Separately)

LTN2 - Lumentone™ 2



Lumentone 2 is a simple pre-programmed DMX 512 controller with a push button rotary dial and live feedback.

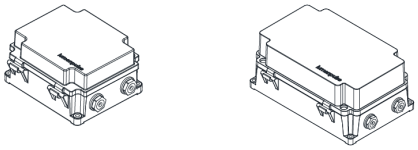
PHAROS - Pharos® Kit



The Pharos kit, available for 1 or 2 DMX universes, allows for complete control of large lighting installations. 2 DMX universes kit shown.

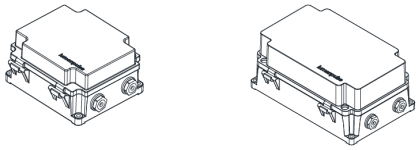
Control Boxes (Order Separately)

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.

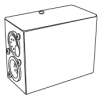
CBX-ENET - Ethernet Enabled (Daisy Chain or Star Configuration)



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.

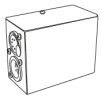
Diagnostic And Addressing Tools (Order Separately)

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.

How to Order

Housing	Type	Certification	Voltage	Length	Wattage	Color and Color Temperature	Optic	Lens	Feeding Side
LFM Lumenfacade Max	**CH** Continuous Horizontal	**UL** UL Compliant [1] **CE** CE Compliant (Class I) [2] [3]	**120_277** 120 volts to 277 volts [4] **230** 220 to 240 volts [5]	**12** 12 in [4] [6] **24** 24 in **36** 36 in **48** 48 in	**10W** 10 W/ft **22W** 22 W/ft	**MDWW** 2200K to 3000K, CRI 80, Mutli-Channel Control [7] **MDWWP** 2200K to 3500K, CRI 80, Mutli-Channel Control [7] **MDWH** 2700K to 6500K, CRI 80, Mutli-Channel Control [7] **MDTW** 2700K to 2200K, CRI 80, Dim to Warm, 1 Channel Control [8]	**10x10** 10° x 10° [9] **10x30** 10° x 30° **10x60** 10° x 60° **10x90** 10° x 90° **30x30** 30° x 30° [10] **30x60** 30° x 60° [10] **30x90** 30° x 90° [10] **60x60** 60° x 60° [10] **90x90** 90° x 90° [10] **30x10** 30° x 10° [10] **60x10** 60° x 10° [10] **60x30** 60° x 30° [10] **90x10** 90° x 10° [10] **W** Wide 120° [10] **NAS** Narrow Asymmetric **WW** Asymmetric Wallwash [11] **CAS** Ceiling Asymmetric [10]	**CL** Clear Lens **HFR** Half-Frosted Lens **FR** Frosted Lens	**LF** Left Feeding Side **RF** Right Feeding Side

Notes:

1. Available for 120_277 voltage option only.
2. Available for 230 voltage option only.
3. Available for 24 in, 36 in and 48 in fixture lengths only.
4. Available for UL certification only.
5. Available for CE certification only.
6. The 12 in length is available for 120_277V voltage option only.
7. Available with DALI T8, LT and DMX/RDM control options.
8. Available with LT, DMX/RDM and DIM control options.
9. For best results use a miminum 6 in setback from surface. Contact factory for application support.
10. Can be combined with a CL or FR lens only.
11. Can be combined with a HFR or FR lens only.

How to Order

Control	Vibration Rating	Mounting Option [20]	Environment	Finish	Accessories [31] [32]	Buy America.n Act
DALIT8 DALI 2 T8 Control [12] [13] **LT** Lumentalk [13] [14] **DMX/RDM** DMX/RDM Enabled [13] [15] **DIM** 0-10V Dimming [13] [16]	**NVR** No Vibration Rating Required [17] **VRN** Vibration Rated for Normal Applications [18] **VRBO** Vibration Rated for Bridge and Overpass [19]	**SMH** Slim Adjustable Mounting Horizontal Continuously Adjustable (100˚ Pivot Limit) [21] [22] **FXH** Fixed Mounting Horizontal (0˚ Pivot Limit) [23] **WMCH3** Wall Mounting Horizontal Continuously Adjustable, 3.5 in to Optical Center (120˚ Pivot Limit) [21] [22] **WMiH3** Wall Mounting Horizontal Incrementally Adjustable by 6˚, 3.5 in to Optical Center (120˚ Pivot Limit) [21] [22] **WMCH6** Wall Mounting Horizontal Continuously Adjustable, 6 in to Optical Center (180˚ Pivot Limit) [22] [24] **WMiH6** Wall Mounting Horizontal Incrementally Adjustable by 6˚, 6 in to Optical Center (180˚ Pivot Limit) [23] **WMCH12** Wall Mounting Horizontal Continuously Adjustable, 12 in to Optical Center (180˚ Pivot Limit) [22] [25] **WMiH12** Wall Mounting Horizontal Incrementally Adjustable by 6˚, 12 in to Optical Center (180˚ Pivot Limit) [26] **WMCH18** Wall Mounting Horizontal Continuously Adjustable, 18 in to Optical Center (180˚ Pivot Limit) [22] [25] **WMiH18** Wall Mounting Horizontal Incrementally Adjustable by 6˚, 18 in to Optical Center (180˚ Pivot Limit) [26] **WMCH24** Wall Mounting Horizontal Continuously Adjustable, 24 in to Optical Center (180˚ Pivot Limit) [21] [22] **WMiH24** Wall Mounting Horizontal Incrementally Adjustable by 6˚, 24 in to Optical Center (180˚ Pivot Limit) [21] [22]	**XD** Extra durable multi-step finish [27]	**BK** Black Sandtex® **BRZ** Bronze Sandtex® **SI** Silver Sandtex® **WH** Smooth White **BKTX** Textured Black **BRZTX** Textured Bronze Non-Metallic **GRATX** Textured Medium Gray **GRNTX** Textured Green **WHTX** Textured White **CC** Custom Color & Finish [28] [29] [30]	**NA** No accessory **LV** Radial Louver [33] **LVAS** Radial Louver Asymmetric **VS** Visor	**BAA** Buy America.n [4] [34]

Notes:

4. Available for UL certification only.
12. DALI 2 T8 controller required, provided by others. DALI2 T8 control uses a single DALI short address.
13. Minimum dimming value is less than 1%.
14. A Lumentranslator 2 (LTL2) and LumentalkID (LIDLT) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.
15. A Control Box (CBX) and LumenID (LID) must be specified.
16. Available for MDTW color temperature option only.
17. Available for all mounting options.
18. Available for FXH, WMCH6, WMiH6, WMCH12, WMiH12, WMCH18 and WMiH18 mounting options.
19. Available for FXH, WMiH6, WMiH12 and WMiH18 mounting options.
20. One mounting bracket provided for 12 in fixtures. Two mounting brackets provided for 24 in, 36 in and 48 in fixtures.
21. Available with NVR vibration rating only.
22. Not suitable for bridge and overpass applications.
23. Vibration tested in accordance with ANSI 136.31 2018 at 3Gv.
24. Vibration tested in accordance with ANSI 136.31 2018 at 1.5Gv.
25. Vibration tested in accordance with ANSI 136.31 2018 at 2.3Gv.
26. Vibration tested in accordance with ANSI 136.31 2018 at 4.6Gv.
27. Zirconium pretreatment completed with corrosion-resistant primer and electrostatically-applied powder coat paint finish.
28. 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.
29. Setup charges apply for RAL colors. Consult factory for details.
30. Longer lead times can be expected for custom RAL color finishes.
31. Maximum one accessory per fixture.
32. The exterior finish of the accessory will match the finish specified in the fixture order code (interior surface painted matte black).
33. Available for 10x10, 10x30, 10x60, 10x90, 30x30, 30x60, 30x90, 60x60, 90x90, 30x10, 60x10, 60x30, 90x10 and W optics only.
34. Contact your Lumenpulse Sales Representative for more information on order volume details.