

Project Name

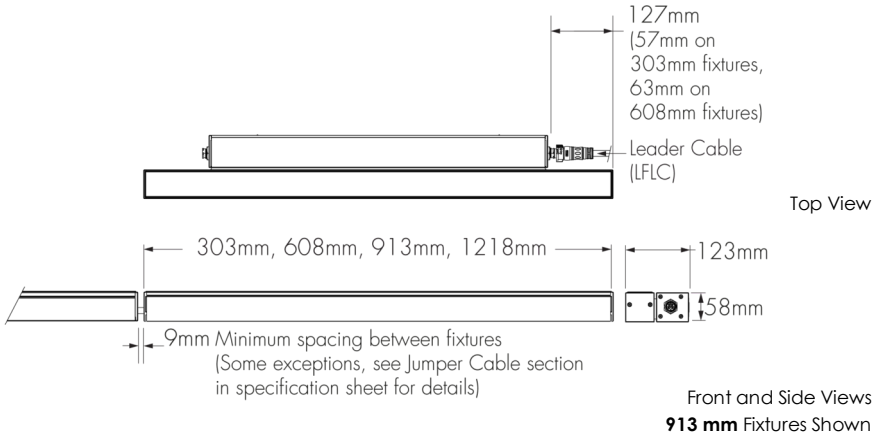
Qty

Type

Catalog / Part Number



MDWH Configuration Shown



Photometric Summary (72.18 W/m)

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.

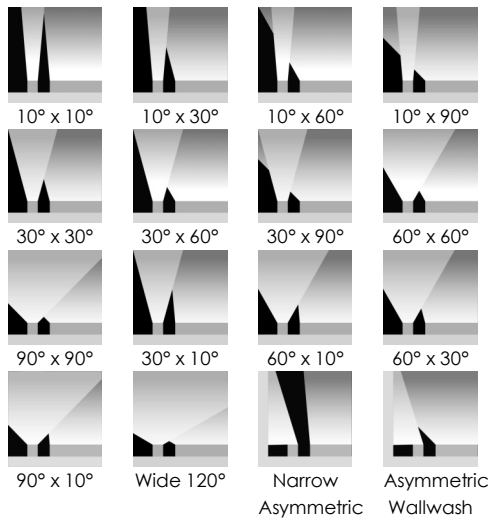
Description

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: 303 mm, 24: 608 mm, 36: 913 mm, 48: 1218 mm	
Colour and Colour Temperature	MDWW: 2200K to 3000K, CRI 80, Multi-Channel Control MDWWP: 2200K to 3500K, CRI 80, Multi-Channel Control MDWH: 2700K to 6500K, CRI 80, Multi-Channel Control MDTW: 2700K to 2200K, CRI 80, Dim to Warm, 1 Channel Control	
Vibration Rating	NVR: Buildings and Fixed Structures VRN: Pole-Mounts VRBO: Bridges and Overpasses	
Fixed Mounting Options	FXH: Fixed Mounting Horizontal (0° Pivot Limit)	
Continuously Adjustable Mounting Options	SMH: Slim Adjustable Mounting Horizontal Continuously Adjustable (100° Pivot Limit)	WMCH3: Wall Mounting Horizontal Continuously Adjustable, 89 mm to Optical Centre (120° Pivot Limit)
	WMCH6: Wall Mounting Horizontal Continuously Adjustable, 152 mm to Optical Centre (180° Pivot Limit)	WMCH12: Wall Mounting Horizontal Continuously Adjustable, 305 mm to Optical Centre (180° Pivot Limit)
	WMCH18: Wall Mounting Horizontal Continuously Adjustable, 457 mm to Optical Centre (180° Pivot Limit)	WMCH24: Wall Mounting Horizontal Continuously Adjustable, 610 mm to Optical Centre (180° Pivot Limit)

Optic



Colour and Colour Temperature



Control



Finish



Certifications



Incrementally Adjustable Mounting Options	WMIH3: Wall Mounting Horizontal Incrementally Adjustable by 6°, 89 mm to Optical Centre (120° Pivot Limit)	WMIH6: Wall Mounting Horizontal Incrementally Adjustable by 6°, 152 mm to Optical Centre (180° Pivot Limit)
	WMIH12: Wall Mounting Horizontal Incrementally Adjustable by 6°, 305 mm to Optical Centre (180° Pivot Limit)	WMIH18: Wall Mounting Horizontal Incrementally Adjustable by 6°, 457 mm to Optical Centre (180° Pivot Limit)
	WMIH24: Wall Mounting Horizontal Incrementally Adjustable by 6°, 610 mm to Optical Centre (180° Pivot Limit)	
Optical Accessories	LV: Radial Louver LVAS: Radial Louver Asymmetric VS: Visor	
Warranty	5-year limited warranty	
Performance		
Maximum Delivered Output	1,482 lm (19.68 W/m, 1218 mm fixture, MDWW and MDTW, 10° x 10°, CL lens, DMX/RDM) 2,499 lm (32.8 W/m, 1218 mm fixture, MDWW and MDTW, 10° x 10°, CL lens, DMX/RDM) 5,163 lm 72.18 W/m, 1218 mm fixture, MDWW and MDTW, 10° x 10°, CL lens, DMX/RDM) 1,682 lm (19.68 W/m, 1218 mm fixture, MDWH, 10° x 10°, CL lens, DMX/RDM) 2,859 lm (32.8 W/m, 1218 mm fixture, MDWH, 10° x 10°, CL lens, DMX/RDM) 6,113 lm (72.18 W/m, 1218 mm fixture, MDWH, 10° x 10°, CL lens, DMX/RDM)	
Maximum Delivered Intensity	19,765 cd at nadir (19.68 W/m, 1218 mm fixture, MDWW and MDTW, 10° x 10°, CL lens, DMX/RDM) 33,333 cd at nadir (32.8 W/m, 1218 mm fixture, MDWW and MDTW, 10° x 10°, CL lens, DMX/RDM) 68,868 cd at nadir (72.18 W/m, 1218 mm fixture, MDWW and MDTW, 10° x 10°, CL lens, DMX/RDM) 22,430 cd at nadir (19.68 W/m, 1218 mm fixture, MDWH, 10° x 10°, CL lens, DMX/RDM) 38,138 cd at nadir (32.8 W/m, 1218 mm fixture, MDWH, 10° x 10°, CL lens, DMX/RDM) 81,532 cd at nadir (72.18 W/m, 1218 mm fixture, MDWH, 10° x 10°, CL lens, DMX/RDM)	

Illuminance at Distance	Minimum 1 lx at 141 m (19.68 W/m, 1218 mm fixture, MDWW and MDTW, 10° x 10° , CL lens, DMX/RDM) Minimum 1 lx at 183 m (32.8 W/m, 1218 mm fixture, MDWW and MDTW, 10° x 10° , CL lens, DMX/RDM) Minimum 1 lx at 262 m (72.18 W/m, 1218 mm fixture, MDWW and MDTW, 10° x 10° , CL lens, DMX/RDM) Minimum 1 lx at 150 m (19.68 W/m, 1218 mm fixture, MDWH, 10° x 10° , CL lens, DMX/RDM) Minimum 1 lx at 195 m (32.8 W/m, 1218 mm fixture, MDWH, 10° x 10° , CL lens, DMX/RDM) Minimum 1 lx at 286 m (72.18 W/m, 1218 mm fixture, MDWH, 10° x 10° , CL lens, DMX/RDM)
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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
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Physical

Housing Material	Low copper content extruded aluminium
Lens Material	Tempered glass
Hardware Material	Stainless steel
End Cap Material	Die cast aluminium
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	2.27 kg (303 mm fixture) 4.22 kg (608 mm fixture) 6.35 kg (913 mm fixture) 7.94 kg (1218 mm fixture)

Electrical and Control

Voltage	220 to 240 volts (CE certification, Class I) 100 to 200 volts (PSE Certification) Note: For 208V, 220V, 240V, and 277V systems, the voltage drop must not fall below 195V. For 200V system with PSE Certification, the voltage drop must not fall below 160V.
Wattage	6W: 19.68 W/m, 10W: 32.8 W/m, 22W: 72.18 W/m
Control	DALI8: DALI 2 T8 Control LT: Lumentalk DMX/RDM: DMX/RDM Enabled DIM: 1-10V Dimming ETX: ExtendX™
Inrush Current (Peak)	Meets NEMA-410 requirements (Based on voltage and control specifications, consult factory for details)

Environmental

Storage Temperature	-40 °C to 85 °C
Start-up Temperature	-40 °C to 50 °C
Operating Temperature	For 19.68 W/m fixtures: -40 °C to 50 °C For 32.8 W/m fixtures: -40 °C to 50 °C For 72.18 W/m fixtures, CE Certification: -40 °C to 40 °C
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

Accessories (Order Separately)

Cables	LFCL: Lumenfacade Leader Cable LFJC: Lumenfacade Jumper Cable LFJT: Lumenfacade T-Junction
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Photometric Information

19.68 W/m (MDWW and MDTW)

Symmetric		
	Delivered Output (lm)	Intensity (Peak cd)
10°x10°	1,482	19,765
10°x30°	1,400	7,274
10°x60°	1,409	4,469
10°x90°	1,410	3,047
30°x30°	1,383	3,271
30°x60°	1,372	1,790
30°x90°	1,246	1,270
60°x60°	1,356	1,116
90°x90°	1,325	767
30°x10°	1,326	6,533
60°x10°	1,362	4,130
60°x30°	1,359	2,021
90°x10°	1,208	2,425
W (120°)	1,045	368
Asymmetric		
NAS	1,460	8,910
WW	1,408	2,315
CAS	1,140	1,557

Based on MDWW and MDTW, full output, 1218 mm, DMX/RDM.

32.8 W/m (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, 1218 mm, DMX/RDM.

72.18 W/m (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, 1218 mm, 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.

19.68 W/m (MDWH)

Symmetric

	Delivered Output (lm)	Intensity (Peak cd)
10°x10°	1,682	22,430
10°x30°	1,589	8,254
10°x60°	1,599	5,071
10°x90°	1,600	3,458
30°x30°	1,569	3,712
30°x60°	1,557	2,031
30°x90°	1,414	1,442
60°x60°	1,539	1,267
90°x90°	1,504	871
30°x10°	1,505	7,413
60°x10°	1,545	4,687
60°x30°	1,542	2,293
90°x10°	1,371	2,752
W (120°)	1,186	418

Asymmetric

NAS	1,656	10,111
WW	1,598	2,627
CAS	1,293	1,767

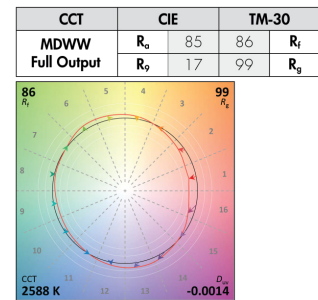
Based on MDWH, full output, 1218 mm, DMX/RDM.

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.

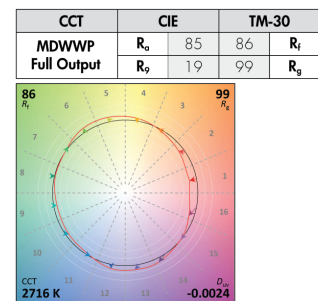
Chromaticity Data

TM-30 - MDWW



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

TM-30 - MDWWP



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

32.8 W/m (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, 1218 mm, DMX/RDM.

72.18 W/m (MDWH)

Symmetric

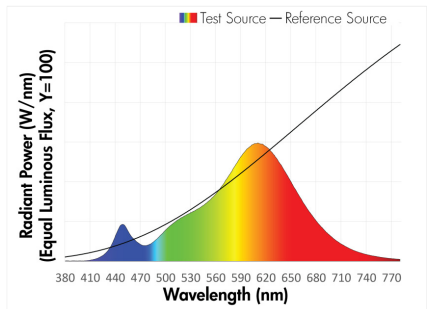
	Delivered Output (lm)	Intensity (Peak cd)
10°x10°	6,113	81,532
10°x30°	5,777	30,005
10°x60°	5,814	18,433
10°x90°	5,815	12,570
30°x30°	5,705	13,493
30°x60°	5,661	7,384
30°x90°	5,140	5,240
60°x60°	5,593	4,605
90°x90°	5,468	3,165
30°x10°	5,469	26,946
60°x10°	5,618	17,037
60°x30°	5,605	8,335
90°x10°	4,985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

Asymmetric

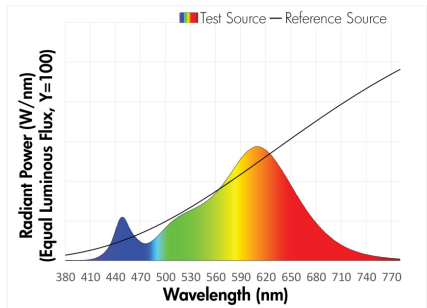
NAS	6,021	36,752
WW	5,809	9,550
CAS	4,701	6,421

Based on MDWH, full output, 1218 mm, DMX/RDM.

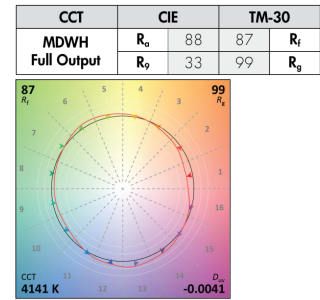
MDWW Spectral Power Distribution



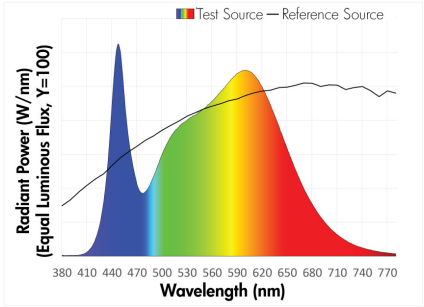
MDWWP Spectral Power Distribution



TM-30 - MDWH

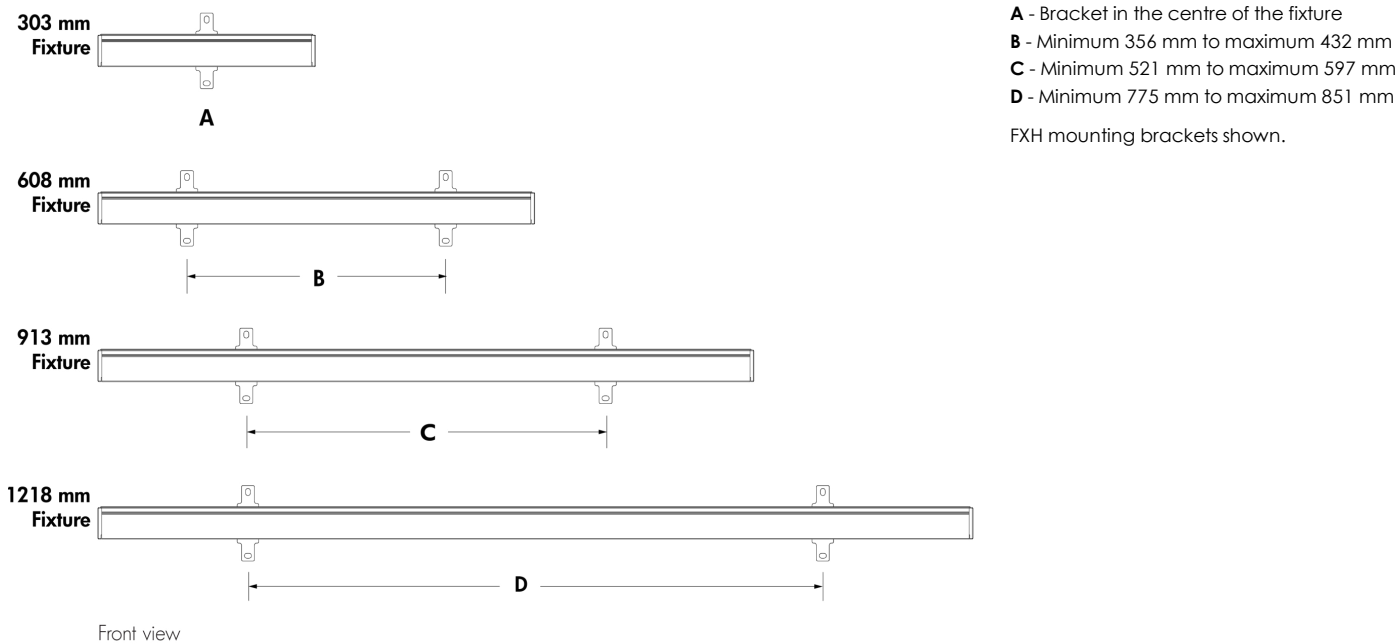


MDWH Spectral Power Distribution



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

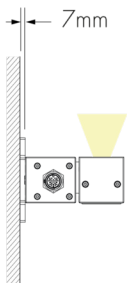
Mounting Bracket Placement (Minimum and Maximum Distances)



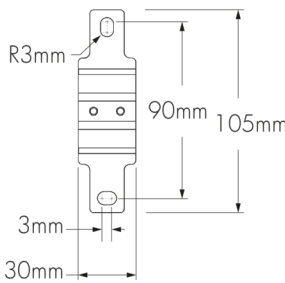
The mounting bracket(s) must be centred on fixture and as symmetrical as possible. Distances must be respected for all installations.

Mounting Options

FXH - Fixed Mounting Horizontal



FXH - Mounting Hole Pattern

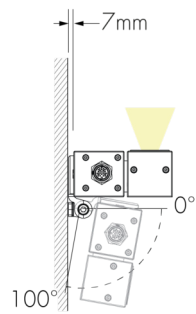


One mounting bracket provided for 303 mm fixtures. Two mounting brackets provided for 608 mm, 913 mm and 1218 mm fixtures.

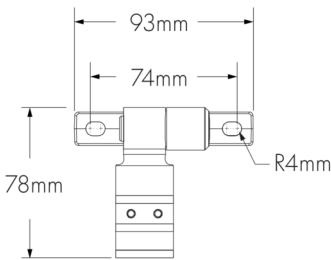
Weight of one FXH Mounting Bracket: 0.05 kg.
Weight of two FXH Mounting Brackets: 0.1 kg.

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



Not suitable for pole-mounted or bridge and overpass applications.

One mounting bracket provided for 303 mm fixtures. Two mounting brackets provided for 608 mm, 913 mm and 1218 mm fixtures.

Weight of one SMH Mounting Bracket: 0.12 kg.

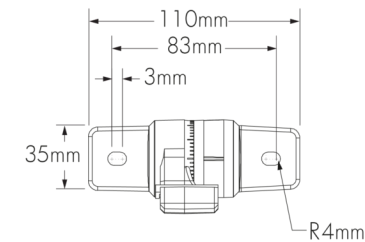
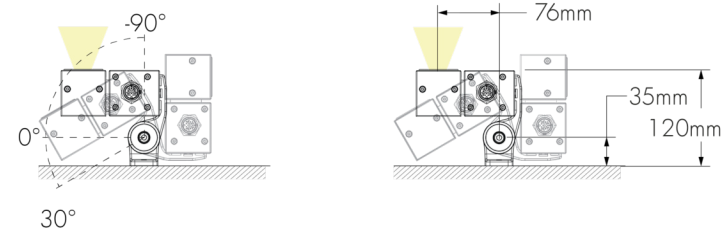
Weight of two SMH Mounting Brackets: 0.24 kg.

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, 89 mm to Optical Centre
WMIH3 - Wall Mounting Horizontal Incrementally Adjustable by 6°, 89 mm to Optical Centre

WMCH3 WMIH3 - Mounting Hole Pattern



Not suitable for pole-mounted or bridge and overpass applications.

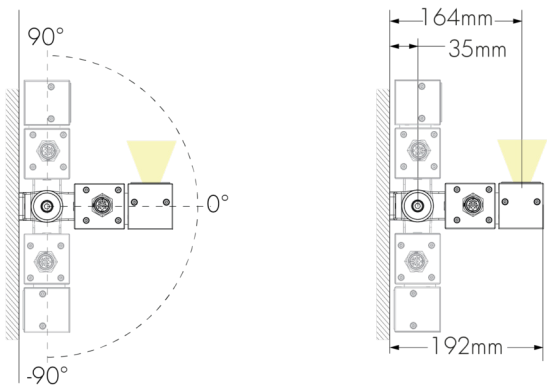
One mounting bracket provided for 303 mm fixtures. Two mounting brackets provided for 608 mm, 913 mm and 1218 mm fixtures.

Weight of one WMCH3/WMIH3 Mounting Bracket: 0.28 kg.

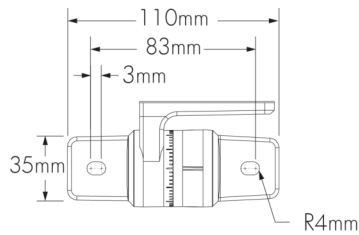
Weight of two WMCH3/WMIH3 Mounting Brackets: 0.56 kg.

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, 152 mm to Optical Centre
WMiH6 - Wall Mounting horizontal Incrementally Adjustable by 6°, 152 mm to Optical Centre

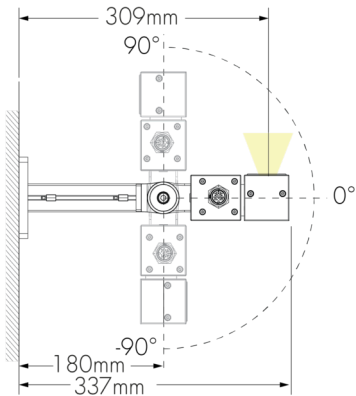


WMCH6 WMiH6 - Mounting Hole Pattern

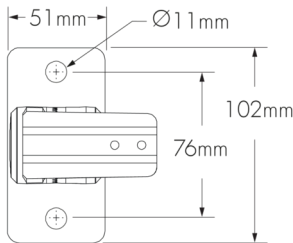


Weight of one WMCH6/WMiH6 Mounting Bracket: 0.28 kg.
Weight of two WMCH6/WMiH6 Mounting Brackets: 0.56 kg.

WMCH12 - Wall Mounting Horizontal Continuously Adjustable, 305 mm to Optical Centre
WMiH12 - Wall Mounting Horizontal Incrementally Adjustable by 6°, 305 mm to Optical Centre



WMCH12 WMiH12 - Mounting Hole Pattern

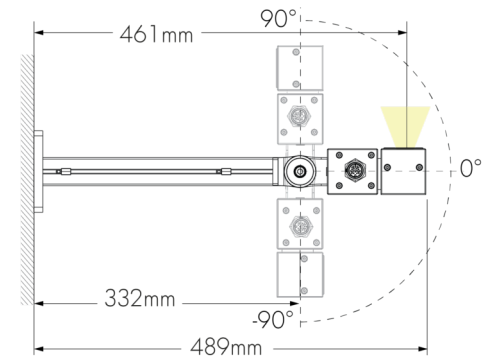


Weight of one WMCH12/WMiH12 Mounting Bracket: 0.68 kg.
Weight of two WMCH12/WMiH12 Mounting Brackets: 1.36 kg.

One mounting bracket provided for 303 mm fixtures. Two mounting brackets provided for 608 mm, 913 mm and 1218 mm fixtures.

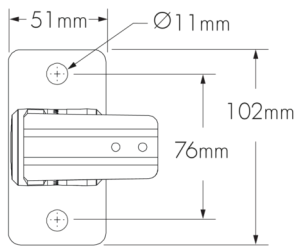
For proper hardware selection, use the dimensions of the mounting option, the weight and EPA values of the mounting option, and the weight and EPA values of the fixture and accessories for your engineering calculations.

WMCH18 - Wall Mounting Horizontal Continuously Adjustable, 457 mm to Optical Centre
WMIH18 - Wall Mounting Horizontal Incrementally Adjustable by 6°, 457 mm to Optical Centre

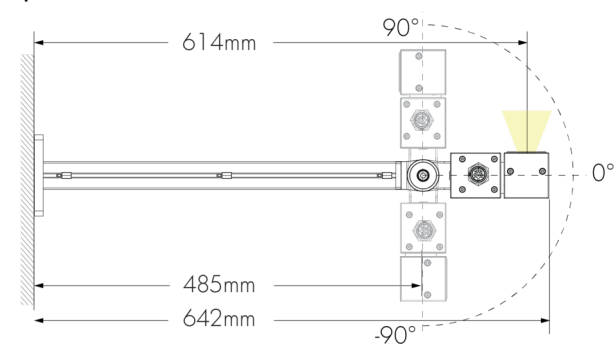


Weight of one WMCH18/WMIH18 Mounting Bracket: 0.95 kg.
Weight of two WMCH18/WMIH18 Mounting Brackets: 1.9 kg.

WMCH18 WMIH18 - Mounting Hole Pattern

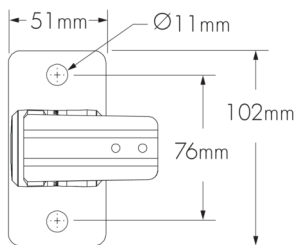


WMCH24 - Wall Mounting Horizontal Continuously Adjustable, 610 mm to Optical Centre
WMIH24 - Wall Mounting Horizontal Incrementally Adjustable by 6°, 610 mm to Optical Centre



Weight of one WMCH24/WMIH24 Mounting Bracket: 1.2 kg.
Weight of two WMCH24/WMIH24 Mounting Brackets: 2.4 kg.

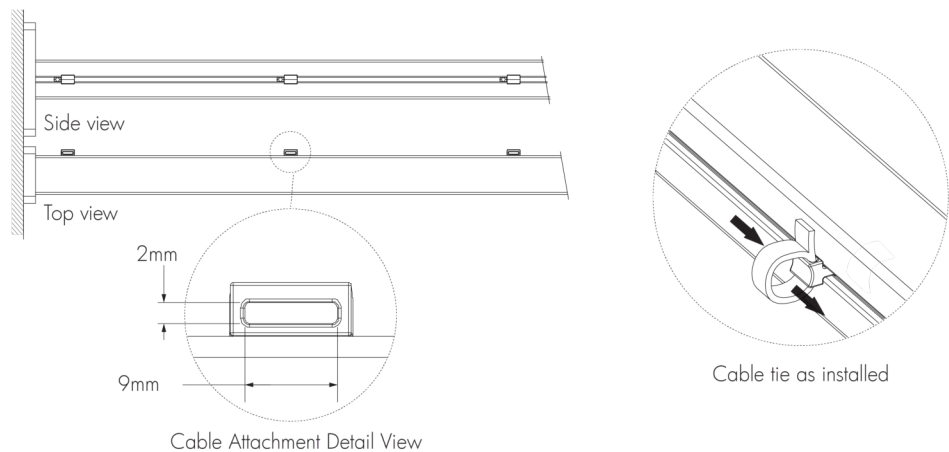
WMCH24 WMIH24 - Mounting Hole Pattern



One mounting bracket provided for 303 mm fixtures. Two mounting brackets provided for 608 mm, 913 mm and 1218 mm 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

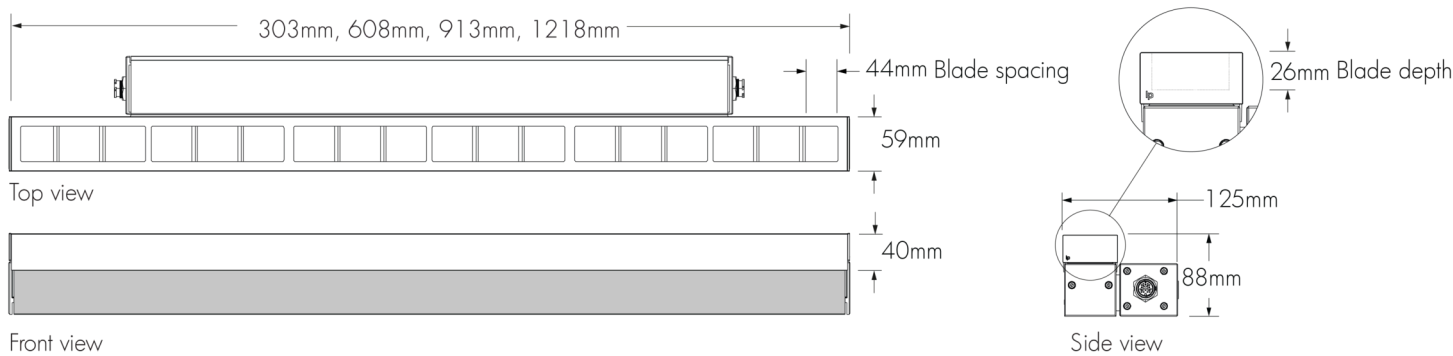


- 1 cable attachment provided for WMCH6 and WMIH6 mounting arms.
- 2 cable attachments provided for WMCH12, WMIH12, WMCH18 and WMIH18 mounting arms.
- 3 cable attachments provided for WMCH24 and WMIH24 mounting arms.

Maximum cable tie size: 9 mm width, 2 mm thickness.
Cable ties for outdoor applications are recommended, provided by others.

Accessories

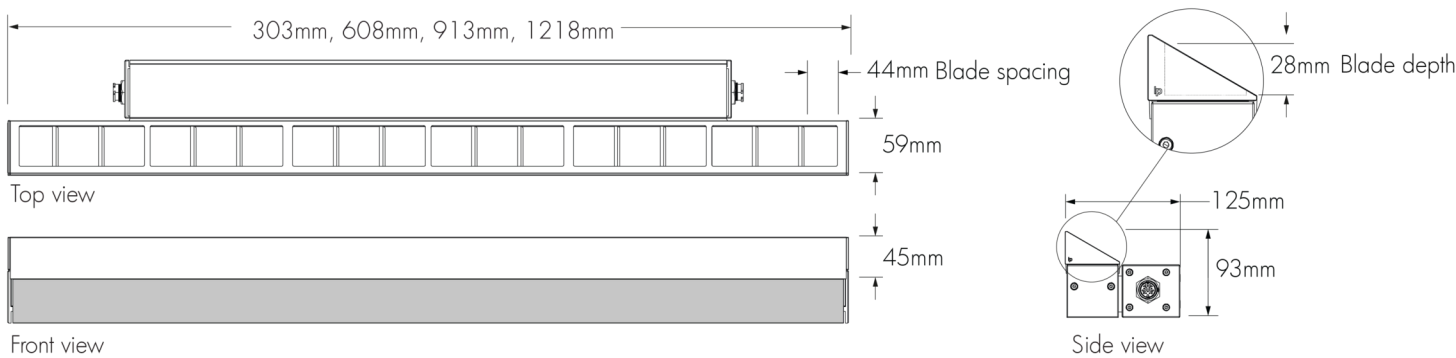
LV - Radial Louvre



- 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 303 mm accessory: 0.29 kg, and 608 mm accessory: 0.57 kg, weight of 913 mm accessory: 0.79 kg, weight of 1218 mm accessory: 1.04 kg.
Note: the weight of the accessory is in addition to the weight of the fixture.

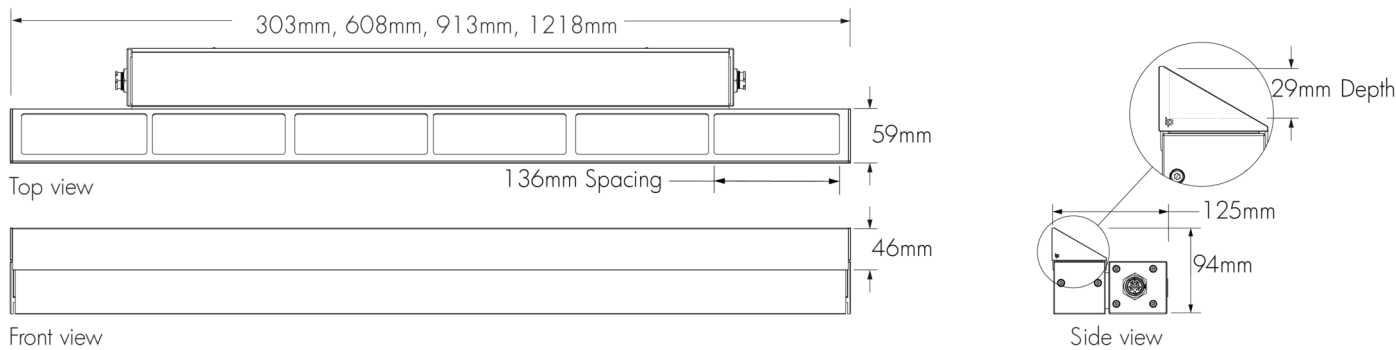
LVAS - Radial Louvre Asymmetric



- 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 303 mm accessory: 0.23 kg, weight of 608 mm accessory: 0.45 kg, weight of 913 mm accessory: 0.59 kg, weight of 1218 mm accessory: 0.77 kg.
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 303 mm accessory: 0.18 kg, weight of 608 mm accessory: 0.36 kg, weight of 913 mm accessory: 0.54 kg, weight of 1218 mm accessory: 0.68 kg.
 Note: the weight of the accessory is in addition to the weight of the fixture.

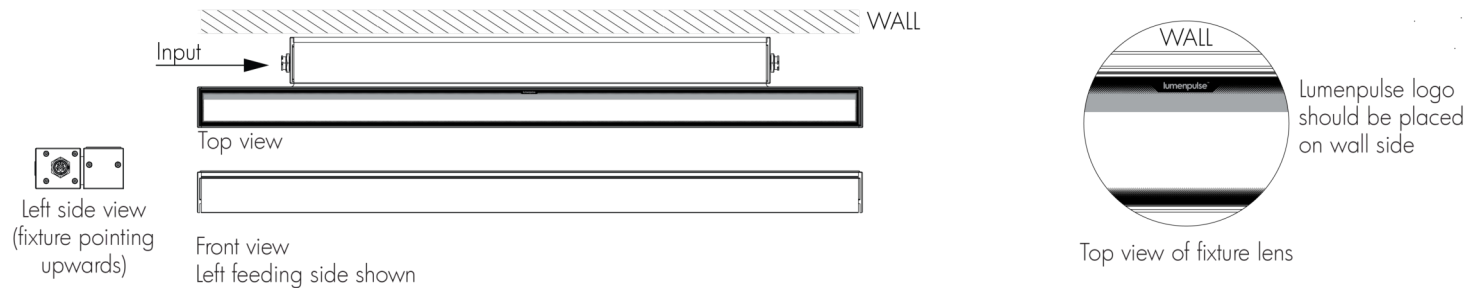
Lens and Optics Combinations Table

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

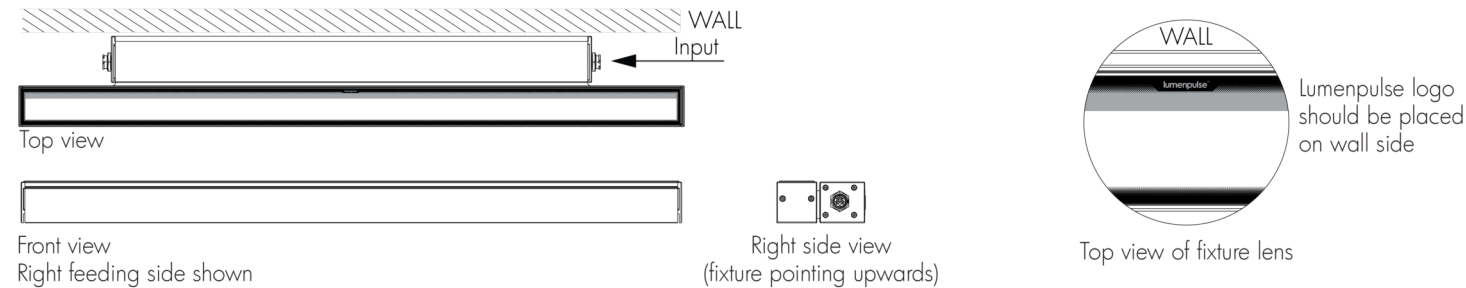
Half-Frosted Lens Details

Left Feeding Side



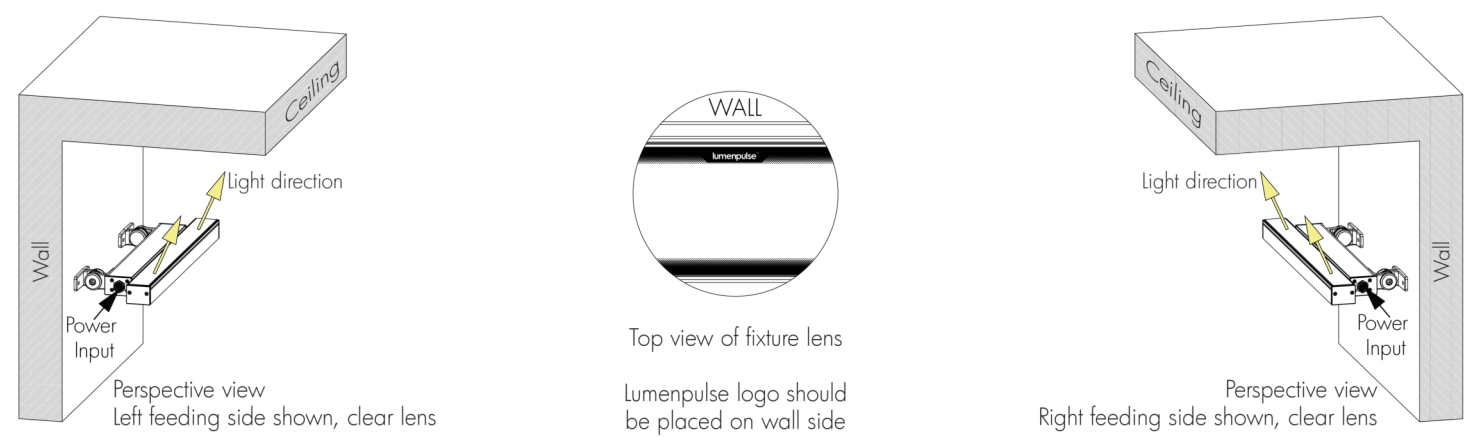
- Position frosted side of the lens and Lumenpulse logo along the wall.
- Fixture's feeding side is based on uplight installations. Feeding sides are reversed when fixture is used in a downlight application.

Right Feeding Side



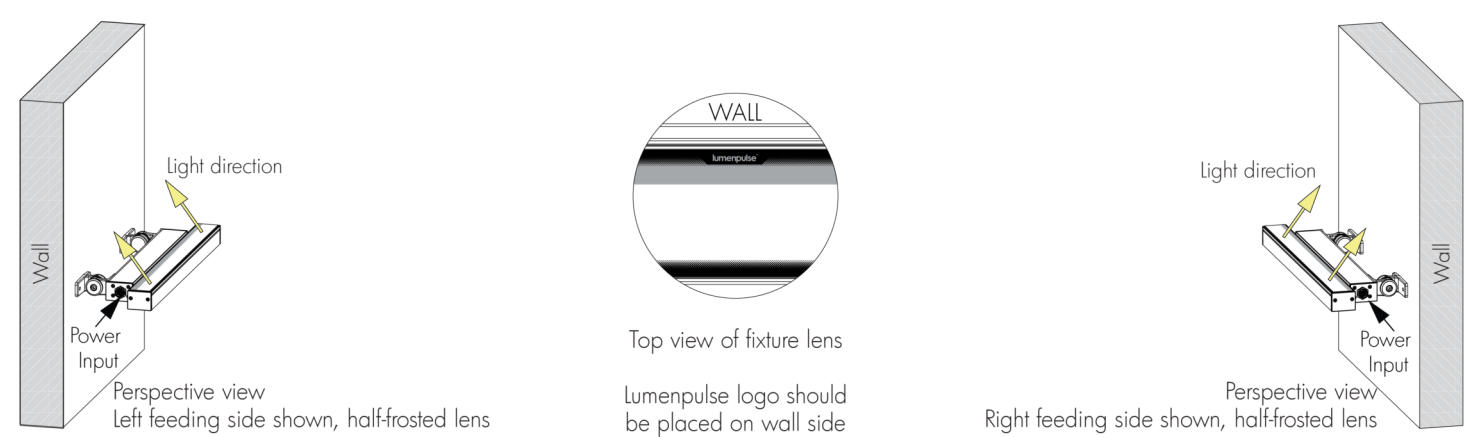
- Position frosted side of the lens and Lumenpulse logo along the wall.
- Fixture's feeding side is based on uplight installations. Feeding sides are reversed when fixture is used in a downlight application.

Ceiling Asymmetric Optic Details



- 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:** 457 mm minimum setback, 1:5 setback/canopy depth ratio (based on CL lens).

Narrow Asymmetric and Asymmetric Wallwash Optics Details



- 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:** 305 mm minimum setback, 1:10 setback ratio (based on HFR lens).
- **Asymmetric Wallwash optic guidelines:** 152 mm minimum setback, 1:8 setback ratio (based on HFR lens).

EPA Guide - Fixture

	303 mm	608 mm	913 mm	1218 mm
EPA Top (m²) 	0.037	0.086	0.124	0.173
EPA Front (m²) 	0.022	0.045	0.067	0.090
EPA Side (m²) 	0.009	0.009	0.009	0.009

EPA Guide - Fixture with Accessory

Fixture With Radial Louvre Accessory

	303 mm	608 mm	913 mm	1218 mm
EPA Top (m²) 	0.037	0.086	0.124	0.173
EPA Front (m²) 	0.034	0.068	0.103	0.137
EPA Side (m²) 	0.013	0.013	0.013	0.013

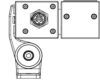
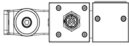
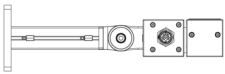
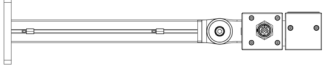
Fixture With Radial Louvre Asymmetric Accessory

	303 mm	608 mm	913 mm	1218 mm
EPA Top (m²) 	0.037	0.086	0.124	0.173
EPA Front (m²) 	0.035	0.071	0.106	0.141
EPA Side (m²) 	0.011	0.011	0.011	0.011

Fixture With Visor Accessory

	303 mm	608 mm	913 mm	1218 mm
EPA Top (m²) 	0.037	0.086	0.124	0.173
EPA Front (m²) 	0.035	0.071	0.106	0.141
EPA Side (m²) 	0.011	0.011	0.011	0.011

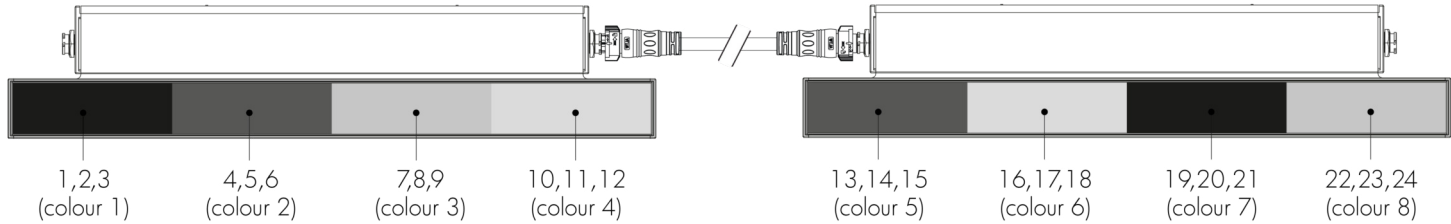
EPA Guide - Mounting Option

EPA Top/Side (m²)		
FXH	N/A	
SMH	0.001	
WMCH3 WMiH3	0.004	
WMCH6 WMiH6	0.004	
WMCH12 WMiH12	0.014	
WMCH18 WMiH18	0.020	
WMCH24 WMiH24	0.027	

Resolution Details

DMX/RDM Control, Resolution Per Foot: Each 305 mm Section is Addressed Independently

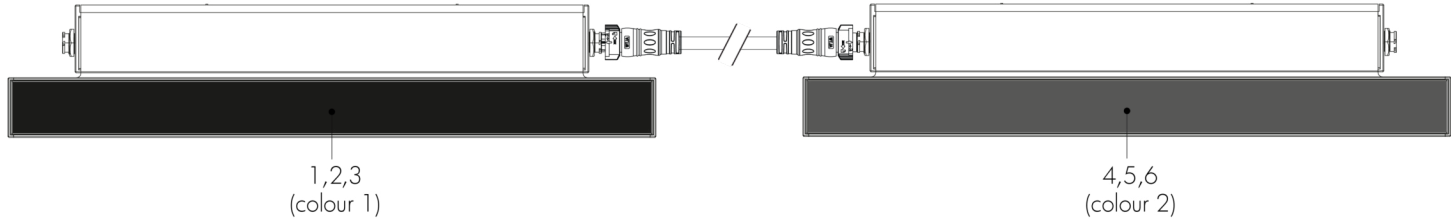
DMX Addresses:



DMX/RDM control option

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

DMX Addresses:



DMX/RDM control option

- 1219 mm 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 Colour Code

DIM, DALI8 and LT Control (XC3P2D)

CE Color Code	Use
Green/yellow	Ground
Brown	Line
Blue	Neutral
Black	1-10V + / Data +
Grey	1-10V - / Data -

DMX/RDM and ExtendX Controls (XC3P3D)

CE Color Code	Use
Blue	Neutral
Green/yellow	Ground
Brown	Line
Gray	Signal Common
Purple	Data +
Orange	Data -

Maximum Fixture Run Length Table

DMX/RDM Control (DMX/RDM)

Lumenfacade Max 19.68W/m

Voltage	Resolution	100V	220V	240V
Maximum Fixture Run Length	Per 0.3m	49m	52m	52m

Lumenfacade Max 32.8W/m

Voltage	Resolution	100V	220V	240V
Maximum Fixture Run Length	Per 0.3m	37m	52m	52m

Lumenfacade Max 72.18W/m

Voltage	Resolution	100V	220V	240V
Maximum Fixture Run Length	Per 0.3m	20m	38m	40m

Based 1218 mm fixtures, per foot resolution, DMX/RDM control, 3 m Leader Cable for an end-to-end run with 0.3 m Jumper Cables between fixtures. Refer to Typical Wiring Diagrams for Control Protocol specific run length rules.

ExtendX Control (ETX)

Lumenfacade Max 19.68W/m

Voltage	Resolution	220V	240V
Maximum Fixture Run Length	Per 0.3m	129m	141m

Lumenfacade Max 32.8W/m

Voltage	Resolution	220V	240V
Maximum Fixture Run Length	Per 0.3m	80m	88m

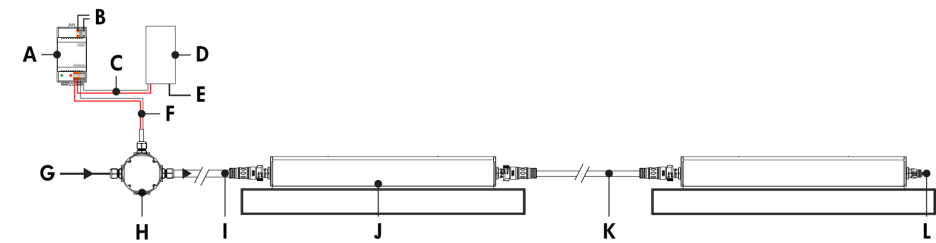
Lumenfacade Max 72.18W/m

Voltage	Resolution	220V	240V
Maximum Fixture Run Length	Per 0.3m	38m	41m

Based 1218 mm fixtures, ETX control, per foot resolution, 3 m Leader Cable for an end-to-end run with 0.3 m Jumper Cables between fixtures. Refer to Typical Wiring Diagrams for Control Protocol specific run length rules.

Typical Wiring Diagrams

DALI 2 T8 (DALIT8)

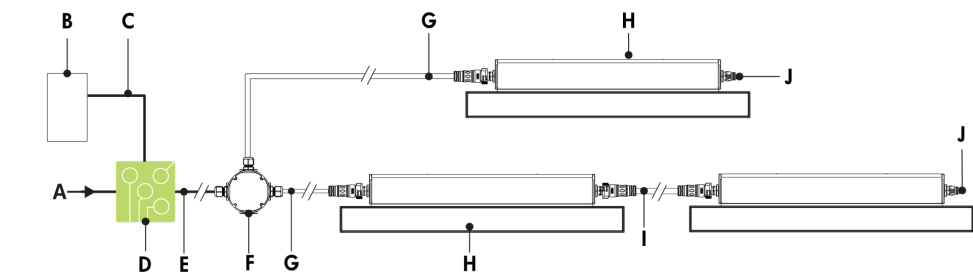


- A - DALI bus power supply (by others)
- B - Power input for DALI bus power supply (wiring by others)
- C - Data output to DALI controller (wiring by others)
- D - DALI controller (by others)
- E - Power input for DALI controller (if required, wiring by others)
- F - Data output to fixture (wiring by others)
- G - Power input (220 to 240V, 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)

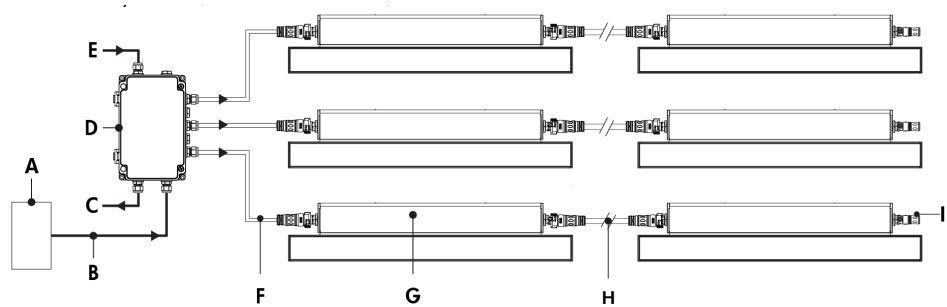


- A - Power input (220 to 240V, wiring by others)
- B - DMX/RDM controller (order separately from Lumenpulse, or by others)
- C - Data wiring (by others)
- D - Lumentranslator 2 (LTL2-DMX)
- E - Power wiring (by others)
- F - Junction box (by others)
- G - Leader cable (LFLC XC3P2D)
- H - Lumenfacade 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.

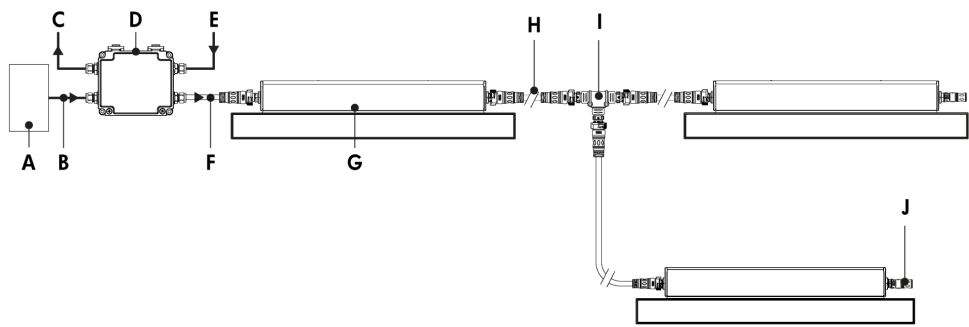
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- For DMX applications: 1 DMX controller per Lumentalk network, maximum of 48 DMX channels per Lumentalk network (minimum step transition update rate is 1 second, minimum fade time between two colours 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 (220 to 240V, 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)

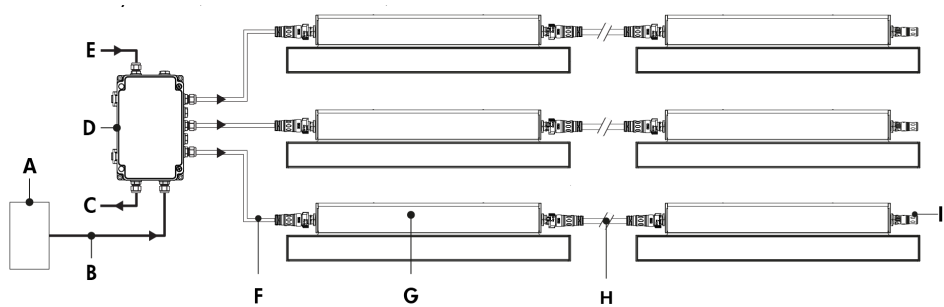


- A - Third-party DMX/RDM controller
- B - Data input (Belden 9841 or equivalent, by others)
- C - Data output to next CBX (optional, not isolated/not boosted)
- D - CBX-DS
- E - Power input (220 to 240V, wiring by others)
- F - Leader Cable (LFLC XC3P3D)
- G - Lumenfacade Max Continuous Horizontal (LFM-CH)
- H - Jumper Cable (LFJC XC3P3D)
- I - Lumenfacade T-Junction (LFTJ XC3P3D, optional)
- J - DMX/RDM terminator

Refer to installation instructions for additional wiring details.

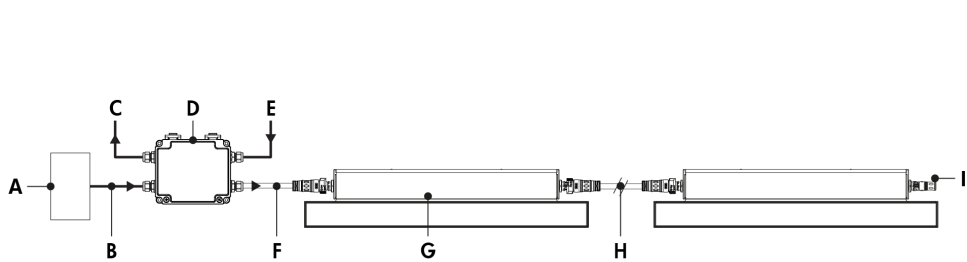
- Consult CBX installation instructions for additional wiring details.
- 15.2 m maximum DMX/RDM "Stub" length.
- Maximum of 1 fixture per "Stub".
- 1 DMX universe = 170 @ 3-channel controllable segments.
- Maximum of 4 DMX/RDM repeaters/CBX cascading in line.
- Maximum of 6 outputs per CBX-ST; maximum of 1 output per CBX-DS.
- Maximum of 64 DMX/RDM enabled fixtures per CBX output.
- Maximum DMX/RDM cable length of 243.8 m ("Bus" and "Stubs").

Star Layout (ExtendX)



- A - Third-party sACN/ArtNet controller
- B - Data input (Cat5e or better, by others)
- C - Optional Ethernet connection to next CBX
- D - CBX-ST-ETX
- E - Power input (220 to 240V, 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 (ExtendX)



- A - Third-party sACN/ArtNet controller
- B - Data input (Cat5e or better, by others)
- C - Optional Ethernet connection to next CBX
- D - CBX-DS-ETX
- E - Power input (220 to 240V, wiring by others)
- F - Leader Cable (LFLC XC3P3D)
- G - Lumenfacade Max Continuous Horizontal (LFM-CH)
- H - Jumper Cable (LFJC XC3P3D)
- I - DMX/RDM Terminator

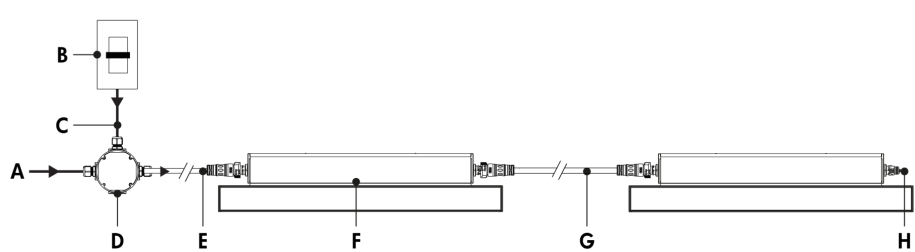
Refer to installation instructions for additional wiring details.

Maximum of 4 outputs per CBX-ST ENET; maximum of 1 output per CBX-DS ENET.

Consult CBX installation instructions for additional wiring details.

Lumenfacade T-Junction accessory is not compatible with ExtendX Control.

Dim To Warm Via 1-10V (DIM/DTW)



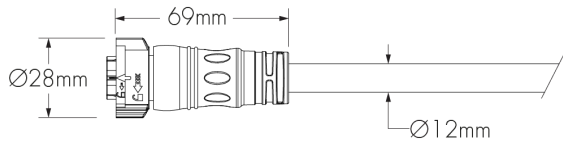
- A - Power input (220 to 240V, wiring by others)
- B - Third-party dimmer
- C - Data wiring (by others)
- D - Junction box (by others)
- E - Leader Cable (LFLC XC3P2D)
- F - Lumenfacade Max Continuous Horizontal (LFM-CH)
- G - Jumper Cable (LFJC XC3P2D)
- H - Sealing End Cap

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

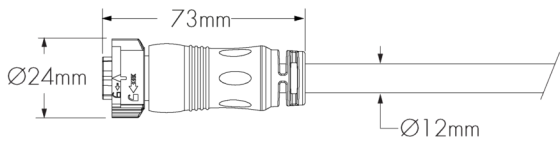
- 1-10V mA ratings: passive dimmer (Current Sink): 3mA per fixture, active dimmer (Current Source): 0.5mA per fixture.
- Less than 1% minimum dimming value.

Leader Cable (Order Separately)

LFCL - Lumenfacade Leader Cable (XC3P2D)



LFCL - Lumenfacade Leader Cable (XC3P3D)



LFCL-TYPE-CERTIFICATION-VOLTAGE-LENGTH-CONNECTOR/CABLE TYPE-CONNECTOR SHAPE-CABLE/CONNECTOR COLOUR

Please specify:

DALIT8, LT, DIM applications:

TYPE: CR/CH (Continuous Run or Continuous Horizontal); **CERTIFICATION:** CE; **VOLTAGE:** 120_277; **LENGTH:** 3 m, 7.6 m, 15.2 m, 30.5 m, 30.5 m or 61 m; **CONNECTOR/CABLE TYPE:** XC3P2D (5x 16AWG X-lock size) or XC3P3D (3x14AWG + 3x24AWG X-lock C-size); **CONNECTOR SHAPE:** 180D (Straight Connector); **CABLE/CONNECTOR COLOUR:** BK (Black) (connectors are the same colour as the specified cable colour).

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

DMX/RDM applications:

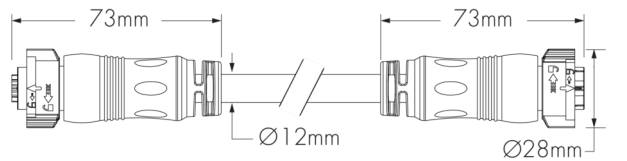
TYPE: CR/CH (Continuous Run or Continuous Horizontal); **CERTIFICATION:** CE; **VOLTAGE:** 120_277; **LENGTH:** 3 m, 7.6 m, 15.2 m, 30.5 m, 30.5 m or 61 m; **CONNECTOR/CABLE TYPE:** XC3P3D (3x14AWG + 3x24AWG X-lock C-size); **CONNECTOR SHAPE:** 180D (Straight Connector) or 90D (90° Angle Connector); **CABLE/CONNECTOR COLOUR:** BK (Black) (connectors are the same colour as the specified cable colour).

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

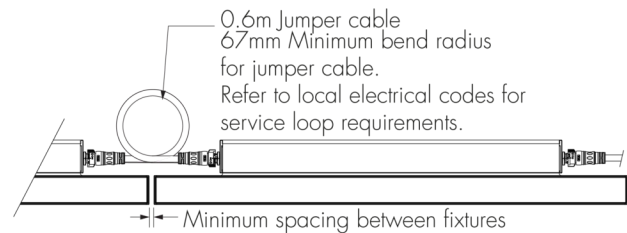
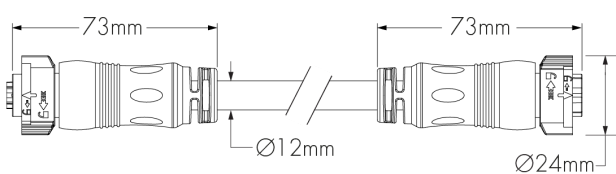
- Consult Lumenfacade Leader Cable specification sheet for additional information.

Jumper Cable (Order Separately)

LFJC - Lumenfacade Jumper Cable (XC3P2D)



LFJC - Lumenfacade Jumper Cable (XC3P3D)



LFJC-CERTIFICATION-VOLTAGE-LENGTH-CONNECTOR/CABLE TYPE-CONNECTOR SHAPE-CABLE/CONNECTOR COLOUR

Please specify:

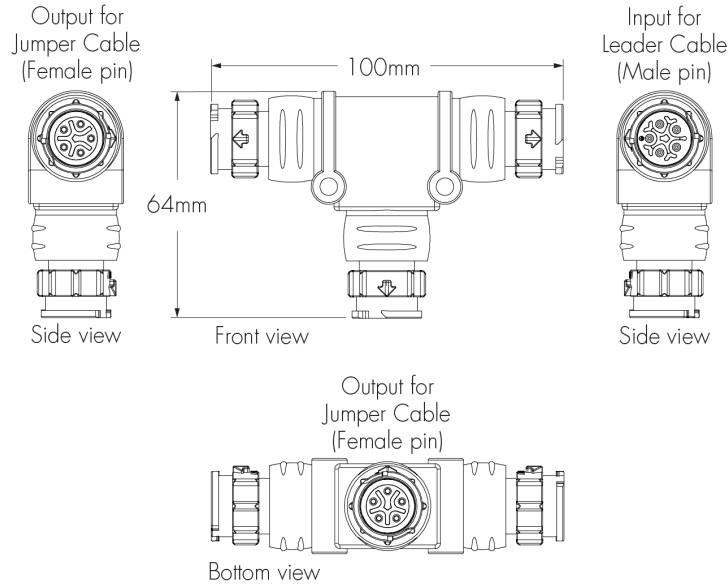
CERTIFICATION: CE; **VOLTAGE:** 120_277; **LENGTH:** 0.3 m, 0.6 m, 1.5 m, 3 m, 7.6 m or 15.2 m; **CONNECTOR/CABLE TYPE:** XC3P2D (5x 16AWG X-lock size) or XC3P3D (3x14AWG + 3x24AWG X-lock C-size); **CONNECTOR SHAPE:** 180D (straight connector); **CABLE/CONNECTOR COLOUR:** BK (Black) (connectors are the same colour as the specified cable colour).

- 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 0.6 m is recommended to accommodate a cable loop between fixtures.
- Minimum spacing for 913 mm and 1218 mm fixtures in a row: 9 mm.
- Minimum spacing for 303 mm and 608 mm fixtures at the end of a fixture run, next to 913 mm and 1218 mm fixtures: 9 mm.
- Minimum spacing for 303 mm and 608 mm fixtures in a row: 70 mm.
- Minimum bend radius 67 mm.

T-Junction (Order Separately)

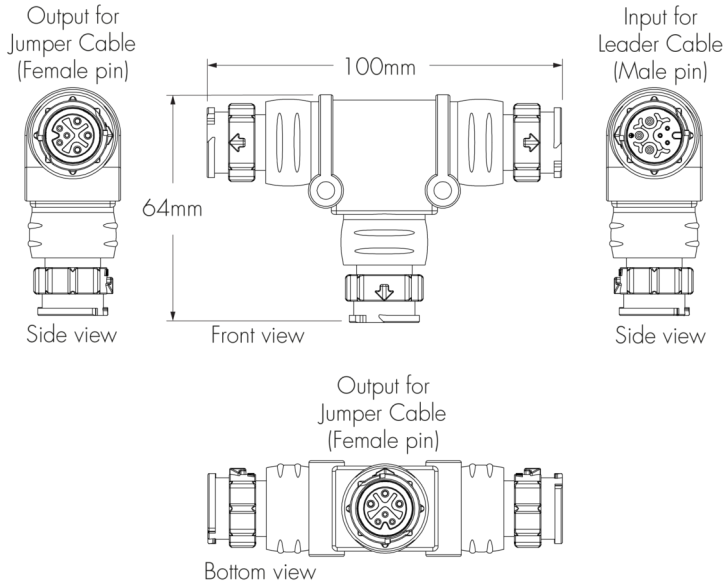
LFTJ - Lumenfacade T-Junction (XC3P2D)

Available For DALI8, LT and DIM Control Options Only



LFTJ - Lumenfacade T-Junction (XC3P3D)

Available for DMX/RDM Control Option Only



LFTJ-CONNECTOR/CABLE TYPE-CABLE/CONNECTOR COLOUR

Please specify:

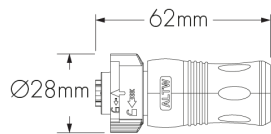
CONNECTOR/CABLE TYPE: XC3P2D (5x 16AWG X-lock size) or XC3P3D (3x 14AWG + 3x24AWG) X-lock size ; **CABLE/CONNECTOR COLOUR:** BK (Black).

- 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 localised 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.
- For DMX/RDM applications, an installation must not exceed 64 fixtures and 243.8 m of cable. Additionally, each stub must not exceed 15.2 m.

Lumenfacade T-Junction accessory is not compatible with ExtendX Control.

DMX/RDM Terminator (Included with Leader Cable)

148161 (Black) or 150394 (White) - DMX/RDM Terminator



DMX/RDM terminator is mandatory at the end of a fixture run with T-junction for DMX/RDM applications

Please specify:

148161: Black (BK) or **150394:** White (WH)

Control Systems (Order Separately)

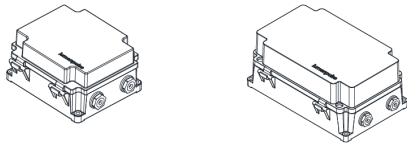
PHAROS - Pharos® Kit



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

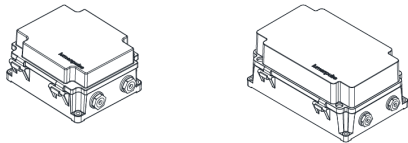
Control Boxes (Order Separately)

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	Colour and Colour Temperature	Optic	Lens	Feeding Side
LFM Lumenfacade Max	CH Continuous Horizontal	CE CE Compliant (Class I) PSE PSE Certification (1) (2) (3)	230 220 to 240 volts 100_200 100 to 200 volts (PSE Certification) (4)	12 303 mm 24 608 mm 36 913 mm 48 1218 mm	6W 19.68 W/m (5) (6) 10W 32.8 W/m 22W 72.18 W/m	MDWW 2200K to 3000K, CRI 80, Multi- Channel Control (7) MDWWP 2200K to 3500K, CRI 80, Multi- Channel Control (7) MDWH 2700K to 6500K, CRI 80, Multi- 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 the Japanese market only.
2. Available for 100_200V voltage option only.
3. Consult your local Sales Representative for PSE certification.
4. Available for PSE Certification only.
5. Consult factory for applications with 305 mm fixtures.
6. Consult factory for applications with PSE Certification.

7. Available with DALI8, LT and DMX/RDM control options.
8. Available with LT, DMX/RDM and DIM control options.
9. For best results use a minimum 152 mm 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 ⁽¹⁹⁾	Mounting Options ⁽²⁴⁾	Environment	Finish	Accessories ⁽³⁵⁾ ⁽³⁶⁾
DALI78 DALI 2 T8 Control ⁽¹²⁾ ⁽¹³⁾ LT Lumentalk ⁽¹³⁾ ⁽¹⁴⁾ DMX/RDM DMX/RDM Enabled ⁽¹³⁾ ⁽¹⁵⁾ DIM 1-10V Dimming ⁽¹³⁾ ⁽¹⁶⁾ ETX ExtendX™ ⁽¹³⁾ ⁽¹⁷⁾ ⁽¹⁸⁾	NVR Buildings and Fixed Structures ⁽²⁰⁾ VRN Pole-Mounts ⁽²¹⁾ ⁽²²⁾ VRBO Bridges and Overpasses ⁽²³⁾	SMH Slim Adjustable Mounting Horizontal Continuously Adjustable (100° Pivot Limit) ⁽²⁵⁾ ⁽²⁶⁾ FXH Fixed Mounting Horizontal (0° Pivot Limit) ⁽²⁷⁾ WMCH3 Wall Mounting Horizontal Continuously Adjustable, 89 mm to Optical Centre (120° Pivot Limit) ⁽²⁵⁾ ⁽²⁶⁾ WMIH3 Wall Mounting Horizontal Incrementally Adjustable by 6°, 89 mm to Optical Centre (120° Pivot Limit) ⁽²⁵⁾ ⁽²⁶⁾ WMCH6 Wall Mounting Horizontal Continuously Adjustable, 152 mm to Optical Centre (180° Pivot Limit) ⁽²⁶⁾ ⁽²⁸⁾ WMIH6 Wall Mounting Horizontal Incrementally Adjustable by 6°, 152 mm to Optical Centre (180° Pivot Limit) ⁽²⁷⁾ WMCH12 Wall Mounting Horizontal Continuously Adjustable, 305 mm to Optical Centre (180° Pivot Limit) ⁽²⁶⁾ ⁽²⁹⁾ WMIH12 Wall Mounting Horizontal Incrementally Adjustable by 6°, 305 mm to Optical Centre (180° Pivot Limit) ⁽³⁰⁾ WMCH18 Wall Mounting Horizontal Continuously Adjustable, 457 mm to Optical Centre (180° Pivot Limit) ⁽²⁶⁾ ⁽²⁹⁾ WMIH18 Wall Mounting Horizontal Incrementally Adjustable by 6°, 457 mm to Optical Centre (180° Pivot Limit) ⁽³⁰⁾ WMCH24 Wall Mounting Horizontal Continuously Adjustable, 610 mm to Optical Centre (180° Pivot Limit) ⁽²⁵⁾ ⁽²⁶⁾ WMIH24 Wall Mounting Horizontal Incrementally Adjustable by 6°, 610 mm to Optical Centre (180° Pivot Limit) ⁽²⁵⁾ ⁽²⁶⁾	XD Extra durable multi-step finish ⁽³¹⁾	BK Black Sandtex® BRZ Bronze Sandtex® SI Silver Sandtex® WH Smooth White BKTX Textured Black BRZTX Textured Bronze Non-Metallic GRATX Textured Medium Grey GRNTX Textured Green WHTX Textured White CC Custom Colour & Finish ⁽³²⁾ ⁽³³⁾ ⁽³⁴⁾	NA No Accessory LV Radial Louver ⁽²⁵⁾ ⁽³⁷⁾ LVAS Radial Louver Asymmetric ⁽²⁵⁾ VS Visor ⁽²⁵⁾

Notes:

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 colour temperature option only.

17. An Ethernet CBX is required. Refer to the ETX configuration in the Ethernet CBX Specification Sheet for details.

18. ETX Control Option is not compatible with LFTJ T-Junction Accessory.

19. Consult factory for vibration rating requirements on vertical installations.

20. Available for all mounting options.

21. Available for FXH mounting option when combined with VRN vibration rating. All other mounting options may have installation limitations, and a review is needed for approval. Consult factory.

22. Consult factory for pole mounting accessories.

23. Available for FXH mounting option when combined with VRBO vibration rating. All other mounting options may have installation limitations, and a review is needed for approval. Consult factory.

24. One mounting bracket provided for 305 mm fixtures. Two mounting brackets provided for 610 mm, 914 mm and 1219 mm fixtures.
25. Available with NVR vibration rating only. Installation limitations may apply for other vibration rating options, and a review is needed for approval. Consult factory.

26. Not suitable for bridge and overpass applications.

27. Vibration tested in accordance with ANSI 136.31 2018 at 3Gv.

28. Vibration tested in accordance with ANSI 136.31 2018 at 1.5Gv.

29. Vibration tested in accordance with ANSI 136.31 2018 at 2.3Gv.

30. Vibration tested in accordance with ANSI 136.31 2018 at 4.6Gv.

31. Zirconium pretreatment completed with corrosion-resistant primer and electrostatically-applied powder coat paint finish.

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

33. Setup charges apply for RAL colours. Consult factory for details.

34. Longer lead times can be expected for custom RAL colour finishes.

35. Maximum one accessory per fixture.

36. The exterior finish of the accessory will match the finish specified in the fixture order code (interior surface painted matte black).

37. Available for 10x10, 10x30, 10x60, 10x90, 30x30, 30x60, 30x90, 60x60, 90x90, 30x10, 60x10, 60x30, 90x10 and W optics only.