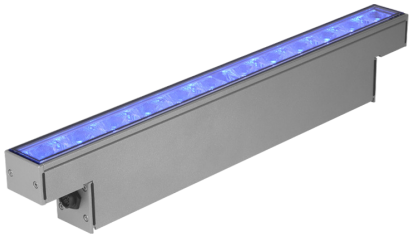
Specification Sheet

Lumenfacade
Max
Continuous Run
LFM-CR

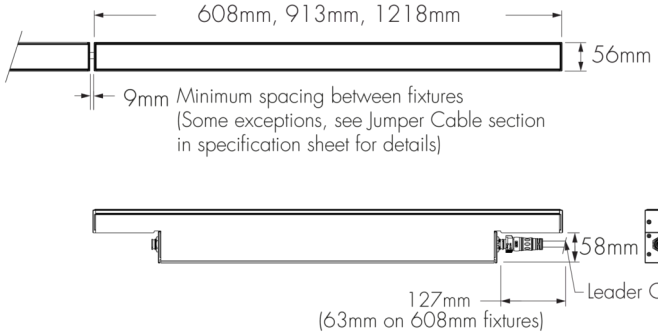
COLOUR CHANGING

Project Name _____ **Qty** _____

Type _____ **Catalog / Part Number** _____



MRGBW40K Configuration Shown



913 mm Fixtures Shown

Photometric Summary (72.18 W/m)

Symmetric

	Delivered Output (lm)	Intensity (Peak cd)
10°x10°	3,783	50,453
10°x30°	3,575	18,568
10°x60°	3,598	11,407
10°x90°	3,598	7,779
30°x30°	3,530	8,350
30°x60°	3,503	4,561
30°x90°	3,181	3,243
60°x60°	3,461	2,850
90°x90°	3,383	1,958
30°x10°	3,384	16,675
60°x10°	3,476	10,543
60°x30°	3,468	5,158
90°x10°	3,085	6,190
W (120°)	2,667	940

Asymmetric

NAS	3,726	22,743
WW	3,595	5,910
CAS	2,909	3,974

Based on MRGBW40K, 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, NAS and CAS optics tested with CL lens.
WW optic tested with HFR lens.

Description

The Lumenfacade Max 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. The Lumenfacade Max also plays host to the world debut of Optidrive™, our brand-new, proprietary technology that delivers maximum performance, maximum technology, and maximum quality of light with Lumenpulse's legendary consistency of colour.

Features

Length (nominal)	**24:** 608 mm , **36:** 913 mm , **48:** 1218 mm
Colour and Colour Temperature	**MRGB:** Opticolor Cluster with MRGB (Red, Green, Blue) **MRGBW27K:** Opticolor Cluster with MRGBW (Red, Green, Blue, White 2700K CRI 80) **MRGBW30K:** Opticolor Cluster with MRGBW (Red, Green, Blue, White 3000K CRI 80) **MRGBW35K:** Opticolor Cluster with MRGBW (Red, Green, Blue, White 3500K CRI 80) **MRGBW40K:** Opticolor Cluster with MRGBW (Red, Green, Blue, White 4000K CRI 80) **MRGBA:** Opticolor Cluster with MRGBA (Red, Green, Blue, PC Amber)
Vibration Rating	**NVR:** No Vibration Rating Required **VRN:** Vibration Rated for Normal Applications **VRBO:** Vibration Rated for Bridge and Overpass
Fixed Mounting Options	**FX:** Fixed Mounting (0˚ 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

Colour and Colour Temperature

opticolor™ opticolor™ opticolor™ opticolor™

opticolor™ opticolor™

Control

DMX/RDM

DALI 2 T8

lumentalk

Finish


Black Sandtex®


Bronze Sandtex®


Silver Sandtex®


Smooth White


Textured Black


Textured Bronze Non-Metallic


Textured Medium Grey


Textured Green


Textured White


Custom Colour & Finish

Continuously Adjustable Mounting Options	**SM:** Slim Adjustable Mounting Continuously Adjustable (110˚ Pivot Limit) **WMC1:** Wall Mounting Continuously Adjustable, 38 mm to Optical Centre (180˚ Pivot Limit) **WMC3:** Wall Mounting Continuously Adjustable, 89 mm to Optical Centre (130˚ Pivot Limit) **WMC6:** Wall Mounting Continuously Adjustable, 152 mm to Optical Centre (170˚ Pivot Limit) **WMC12:** Wall Mounting Continuously Adjustable, 305 mm to Optical Centre (180˚ Pivot Limit) **WMC18:** Wall Mounting Continuously Adjustable, 457 mm to Optical Centre (180˚ Pivot Limit) **WMC24:** Wall Mounting Continuously Adjustable, 610 mm to Optical Centre (180˚ Pivot Limit)
Incrementally Adjustable Mounting Options	**WMi1:** Wall Mounting Incrementally Adjustable by 6˚, 38 mm to Optical Centre (180˚ Pivot Limit) **WMi3:** Wall Mounting Incrementally Adjustable by 6˚, 89 mm to Optical Centre (130˚ Pivot Limit) **WMi6:** Wall Mounting Incrementally Adjustable by 6˚, 152 mm to Optical Centre (170˚ Pivot Limit) **WMi12:** Wall Mounting Incrementally Adjustable by 6˚, 305 mm to Optical Centre (180˚ Pivot Limit) **WMi18:** Wall Mounting Incrementally Adjustable by 6˚, 457 mm to Optical Centre (180˚ Pivot Limit) **WMi24:** Wall Mounting Incrementally Adjustable by 6˚, 610 mm to Optical Centre (180˚ Pivot Limit)
Optical Accessories	**LV:** Radial Louver **LVAS:** Radial Louver Asymmetric **VS:** Visor **SH:** Shield
Warranty	5-year limited warranty

Performance

Maximum Delivered Output	1,876 lm 32.8 W/m, 1218 mm fixture, MRGBW40K, 10° x 10°, CL lens, DMX/RDM) 3,783 lm (72.18 W/m, 1218 mm fixture, MRGBW40K, 10° x 10°, CL lens, DMX/RDM) Refer to Photometric Guide on Lumenpulse website for information on other colour temperatures.
Maximum Delivered Intensity	25,025 cd at nadir (32.8 W/m, 1218 mm fixture, MRGBW40K, 10° x 10°, CL lens, DMX/RDM) 50,453 cd at nadir (72.18 W/m, 1218 mm fixture, MRGBW40K, 10° x 10°, CL Lens, DMX/RDM) Refer to Photometric Guide on Lumenpulse website for information on other colour temperatures.
Illuminance at Distance	Minimum 1 lx at 158 m 32.8 W/m, 1218 mm fixture, MRGBW40K, 10° x 10°, CL lens, DMX/RDM) Minimum 1 lx at 225 m (72.18 W/m, 1218 mm fixture, MRGBW40K, 10° x 10°, CL lens, DMX/RDM) Refer to Photometric Guide on Lumenpulse website for information on other colour temperatures.

Certifications

Lumen Maintenance	L70 (15K) > 90,000 hrs Ta 25 °C (TM-21 reported) L70 > 150,000 hrs Ta 25 °C (projected)* L90 (15K) = 55,400 hrs Ta 25 °C (TM-21 reported) L90 = 55,400 hrs Ta 25 °C (projected)* *Estimated based on in-situ case temperature and LM-80 report

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	3.4 kg (608 mm fixture) 5.22 kg (913 mm fixture) 6.58 kg (1218 mm fixture)

Electrical and Control

Voltage	220 to 240 volts (CE certification, Class I)
Wattage	**10W:** 32.8 W/m , **22W:** 72.18 W/m
Control	**DMX/RDM:** DMX/RDM Enabled **DALIT8:** DALI 2 T8 Control **LT:** Lumentalk
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 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	**LFLC:** Lumenfacade Leader Cable **LFJC:** Lumenfacade Jumper Cable **LFTJ:** Lumenfacade T-Junction

Maximum Performance (MRGBW40K Optidrive™)

32.8W/m			
Optic	**Output (Lumens)**	**Intensity (Peak Candelas)**	**Illuminance at Distance**
MRGBW40K - Full Output			
10° x 10	1,876	25,025	Minimum 1 lx at 158m
MRGBW40K - Red Optidrive™			
10° x 10	779	10,385	Minimum 1 lx at 102m
MRGBW40K - Green Optidrive™			
10° x 10	2,242	29,905	Minimum 1 lx at 173m
MRGBW40K - Blue Optidrive™			
10° x 10	599	7,983	Minimum 1 lx at 89m
MRGBW40K - White 40K Optidrive™			
10° x 10	2,512	33,508	Minimum 1 lx at 183m

72.18W/m			
Optic	**Output (Lumens)**	**Intensity (Peak Candelas)**	**Illuminance at Distance**
MRGBW40K - Full Output			
10° x 10	3,783	50,453	Minimum 1 lx at 225m
MRGBW40K - Red Optidrive™			
10° x 10	840	11,201	Minimum 1 lx at 106m
MRGBW40K - Green Optidrive™			
10° x 10	3,090	41,220	Minimum 1 lx at 203m
MRGBW40K - Blue Optidrive™			
10° x 10	1,052	14,026	Minimum 1 lx at 118m
MRGBW40K - White 40K Optidrive™			
10° x 10	4,032	53,783	Minimum 1 lx at 232m

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

Photometric Information

32.8 W/m (MRGBW40K)

Symmetric

	Delivered Output (lm)	Intensity (Peak cd)
10°x10°	1,876	25,025
10°x30°	1,773	9,209
10°x60°	1,784	5,658
10°x90°	1,785	3,858
30°x30°	1,751	4,141
30°x60°	1,737	2,262
30°x90°	1,578	1,608
60°x60°	1,717	1,413
90°x90°	1,678	971
30°x10°	1,679	8,271
60°x10°	1,724	5,229
60°x30°	1,720	2,558
90°x10°	1,530	3,070
W (120°)	1,323	466

Asymmetric

NAS	1,848	11,280
WW	1,783	2,931
CAS	1,443	1,971

Based on MRGBW40K, full output, 1218 mm, DMX/RDM.

72.18 W/m (MRGBW40K)

Symmetric

	Delivered Output (lm)	Intensity (Peak cd)
10°x10°	3,783	50,453
10°x30°	3,575	18,568
10°x60°	3,598	11,407
10°x90°	3,598	7,779
30°x30°	3,530	8,350
30°x60°	3,503	4,561
30°x90°	3,181	3,243
60°x60°	3,461	2,850
90°x90°	3,383	1,958
30°x10°	3,384	16,675
60°x10°	3,476	10,543
60°x30°	3,468	5,158
90°x10°	3,085	6,190
W (120°)	2,667	940

Asymmetric

NAS	3,726	22,743
WW	3,595	5,910
CAS	2,909	3,974

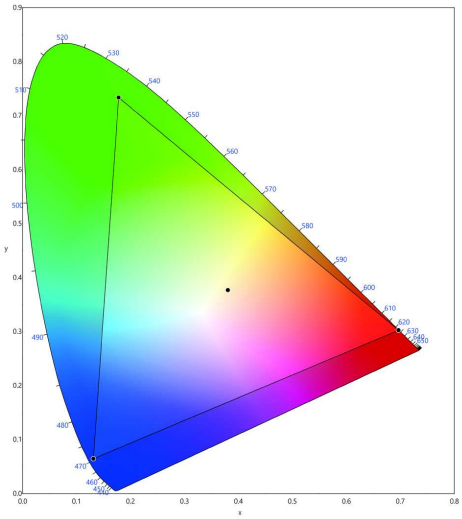
Based on MRGBW40K, full output, 1218 mm, DMX/RDM.

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.

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

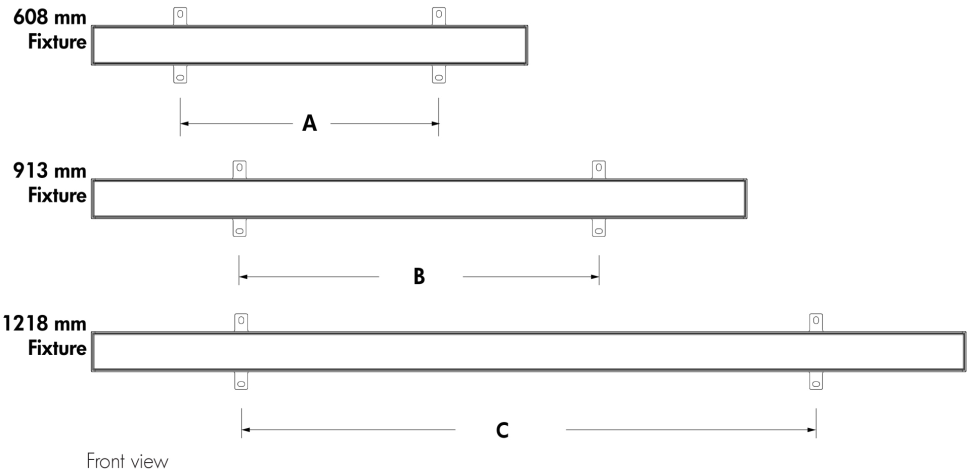
Colour Point Information

MRGBW40K



Red: 620-625nm
Green: 528-533nm
Blue: 465-470nm

Mounting Bracket Placement (Minimum and Maximum Distances)



Front view

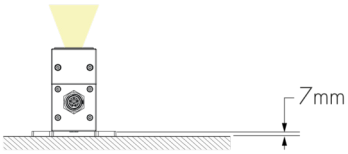
A - Minimum 356 mm to maximum 432 mm
B - Minimum 521 mm to maximum 597 mm
C - Minimum 775 mm to maximum 851 mm

FX mounting brackets shown.

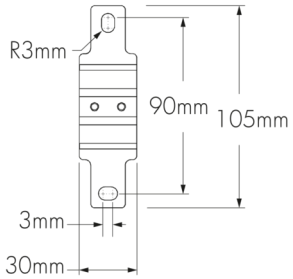
The mounting brackets must be centred on fixture and as symmetrical as possible. Distances must be respected for all installations.

Mounting Options

FX - Fixed Mounting



FX - Mounting Hole Pattern

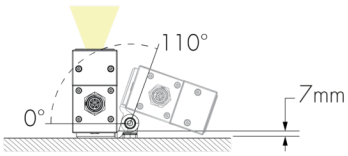


Two mounting brackets provided for 608 mm, 913 mm and 1218 mm fixtures.

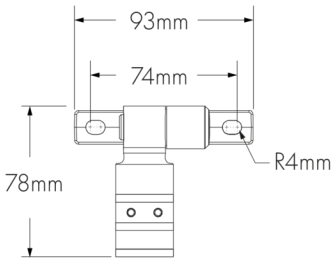
Weight of one FX Mounting Bracket: 0.05 kg. Weight of two FX Mounting Brackets: 0.1 kg.

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.

SM - Slim Adjustable Mounting



SM - Mounting Hole Pattern



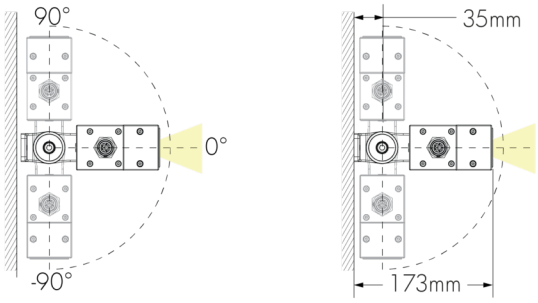
Not suitable when fixture is exposed to wind.

Weight of one SM Mounting Bracket: 0.12 kg. Weight of two SM Mounting Brackets: 0.24 kg.

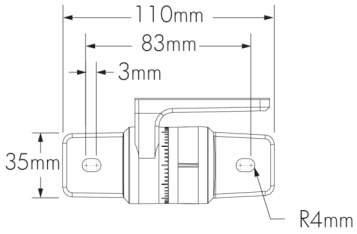
No vibration rating. Not suitable for bridge and overpass applications.

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.

WMC1 - Wall Mounting Continuously Adjustable, 38 mm to Optical Centre
WMi1 - Wall Mounting Incrementally Adjustable By 6˚, 38 mm to Optical Centre

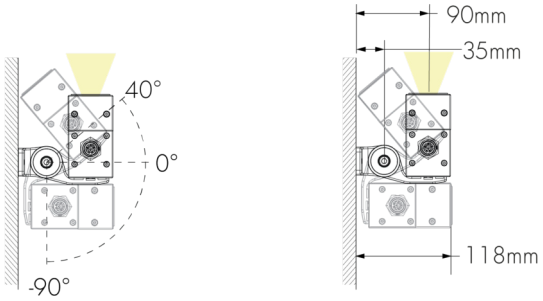


WMC1 WMi1 - Mounting Hole Pattern

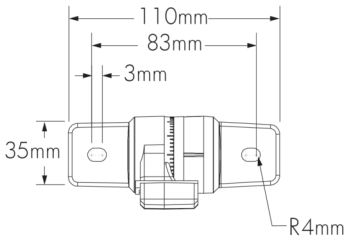


Weight of one WMC1/WMi1 Mounting Bracket: 0.28 kg.
Weight of two WMC1/WMi1 Mounting Brackets: 0.56 kg.

WMC3 - Wall Mounting Continuously Adjustable, 89 mm to Optical Centre
WMi3 - Wall Mounting Incrementally Adjustable by 6˚, 89 mm to Optical Centre



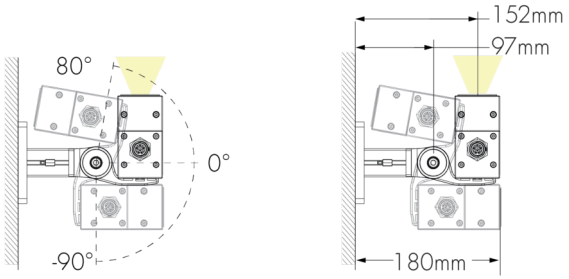
WMC3 WMi3 - Mounting Hole Pattern



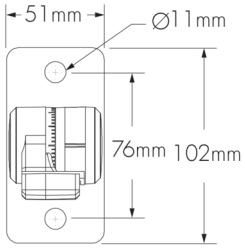
Weight of one WMC3/WMi3 Mounting Bracket: 0.28 kg.
Weight of two WMC3/WMi3 Mounting Brackets: 0.56 kg.

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.

WMC6 - Wall Mounting Continuously Adjustable, 152 mm to Optical Centre
WMi6 - Wall Mounting Incrementally Adjustable by 6˚, 152 mm to Optical Centre

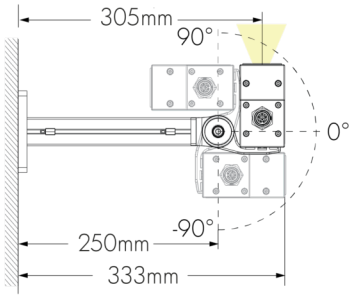


WMC6 WMi6 - Mounting Hole Pattern

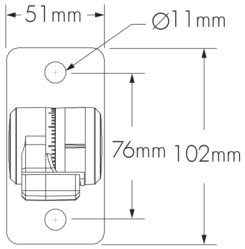


Weight of one WMC6/WMi6 Mounting Bracket: 0.55 kg.
Weight of two WMC6/WMi6 Mounting Brackets: 1.1 kg.

WMC12 - Wall Mounting Continuously Adjustable, 305 mm to Optical Centre
WMi12 - Wall Mounting Incrementally Adjustable by 6˚, 305 mm to Optical Centre

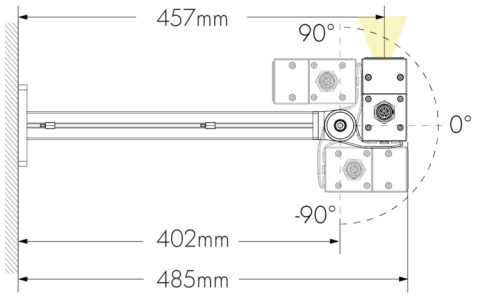


WMC12 WMi12 - Mounting Hole Pattern

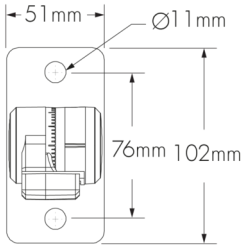


Weight of one WMC12/WMi12 Mounting Bracket: 0.78 kg.
Weight of two WMC12/WMi12 Mounting Brackets: 1.56 kg.

WMC18 - Wall Mounting Continuously Adjustable, 457 mm to Optical Centre
WMi18 - Wall Mounting Incrementally Adjustable by 6˚, 457 mm to Optical Centre



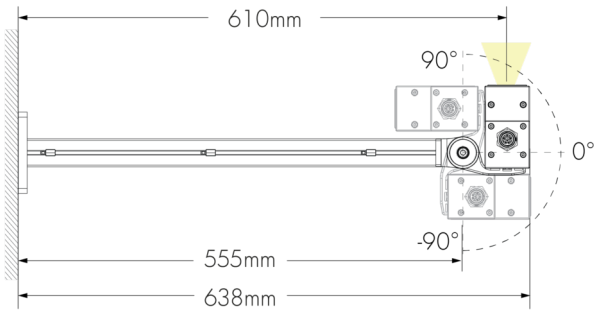
WMC18 WMi18 - Mounting Hole Pattern



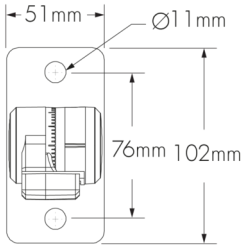
Weight of one WMC18/WMi18 Mounting Bracket: 1.05 kg.
Weight of two WMC18/WMi18 Mounting Brackets: 2.1 kg.

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.

WMC24 - Wall Mounting Continuously Adjustable, 610 mm to Optical Centre
WMi24 - Wall Mounting Incrementally Adjustable by 6˚, 610 mm to Optical Centre



WMC24 WMi24 - Mounting Hole Pattern

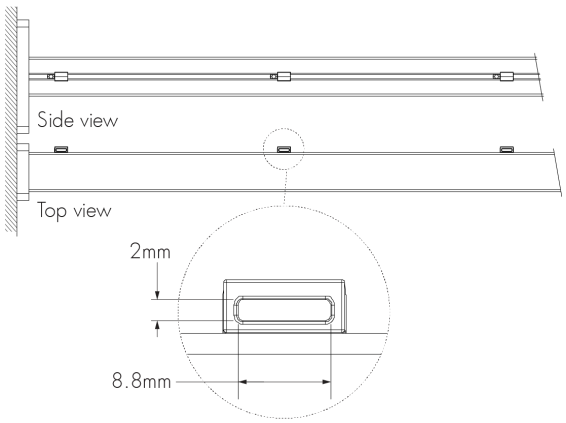


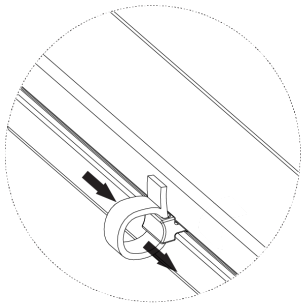
Weight of one WMC24/WMi24 Mounting Bracket: 1.3 kg.
Weight of two WMC24/WMi124 Mounting Brackets: 2.6 kg.

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





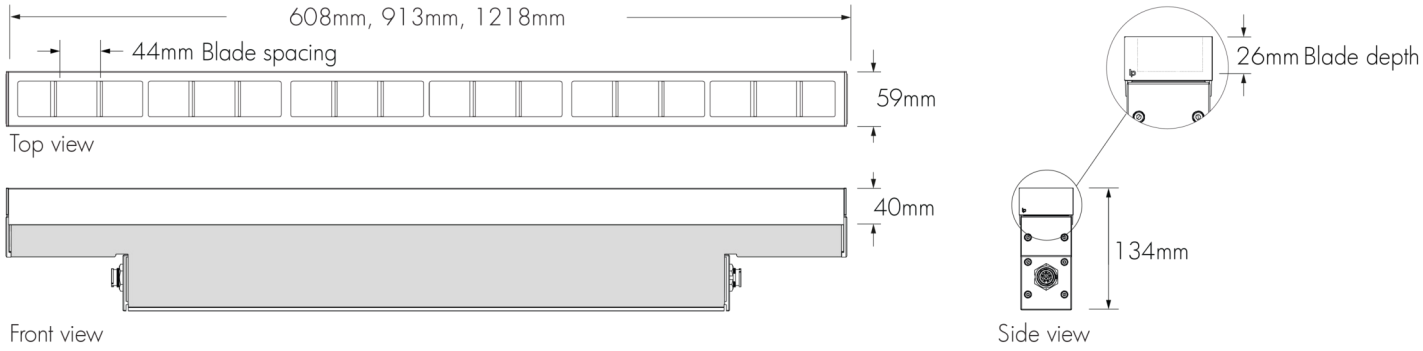
Cable tie as installed

1 cable attachment provided for WMC6 and WMi6 mounting arms.
2 cable attachments provided for WMC12, WMi12, WMC18 and WMi18 mounting arms.
3 cable attachments provided for WMC24 and WMi24 mounting arms.

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

Accessories

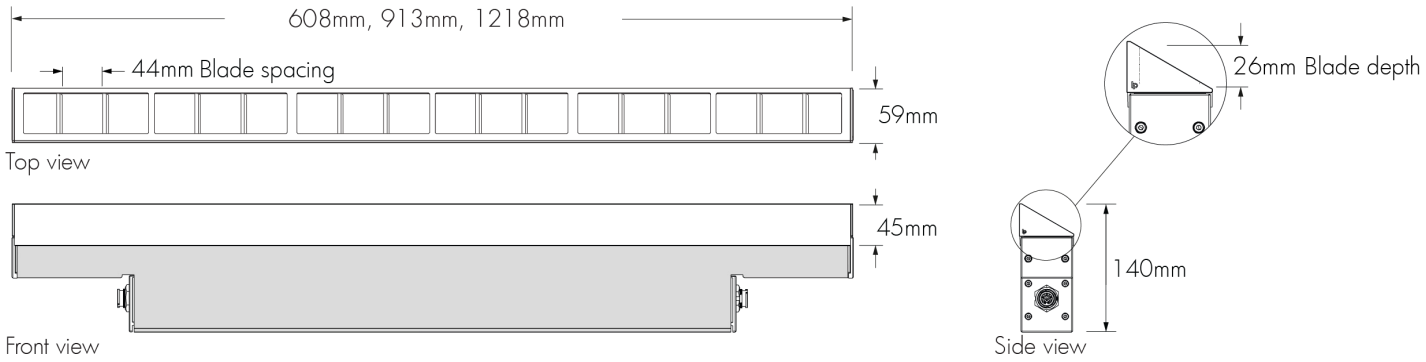
LV - Radial Louvre



- 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 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.

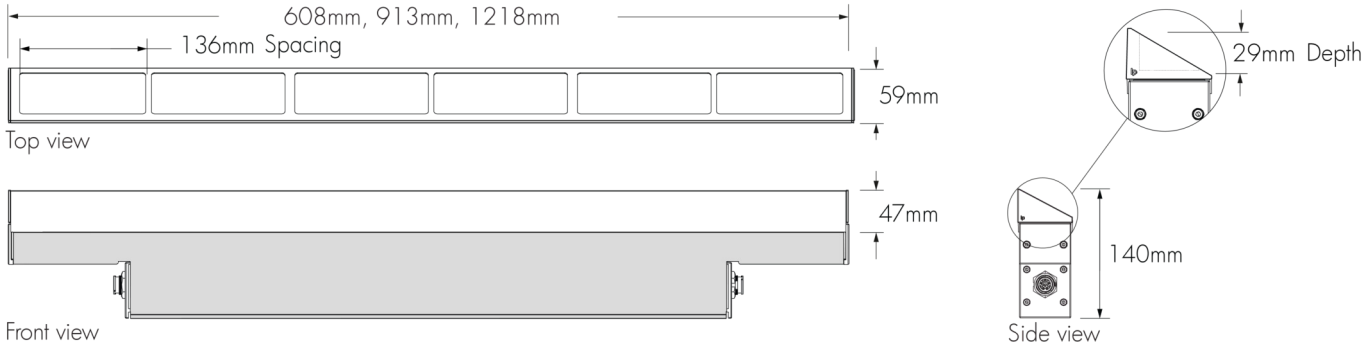
LVAS - Radial Louvre Asymmetric



- 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 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.

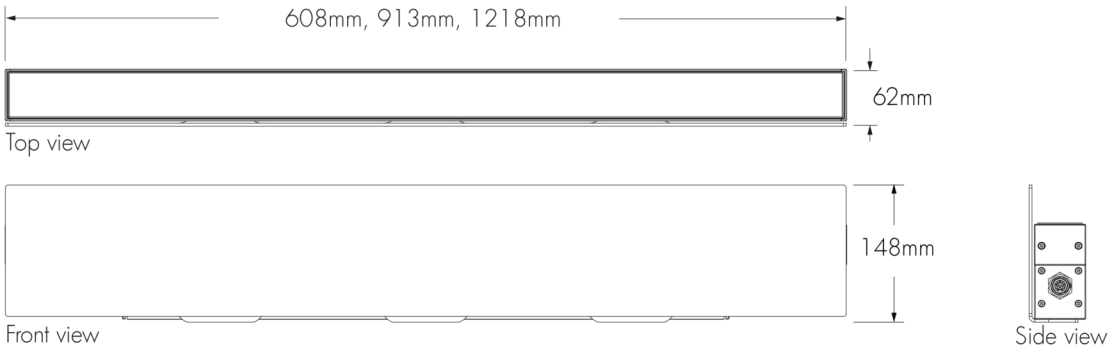
VS - Visor



- 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 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.

SH - Shield



- A Shield will affect beam distribution. Consult factory for application support.
- The Shield is field installable. The Shield can be combined with the Louver, Louver Asymmetric or Visor accessories.
- No vibration rating available. The Shield can be installed in zones with wind speeds up to 193 km/h. Consult factory for zones with wind speeds higher than 193 km/h.
- 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 608 mm accessory: 2.15 kg, weight of 913 mm accessory: 3.29 kg, weight of 1218 mm accessory: 4.31 kg.
Note: the weight of the accessory is in addition to the weight of the fixture.

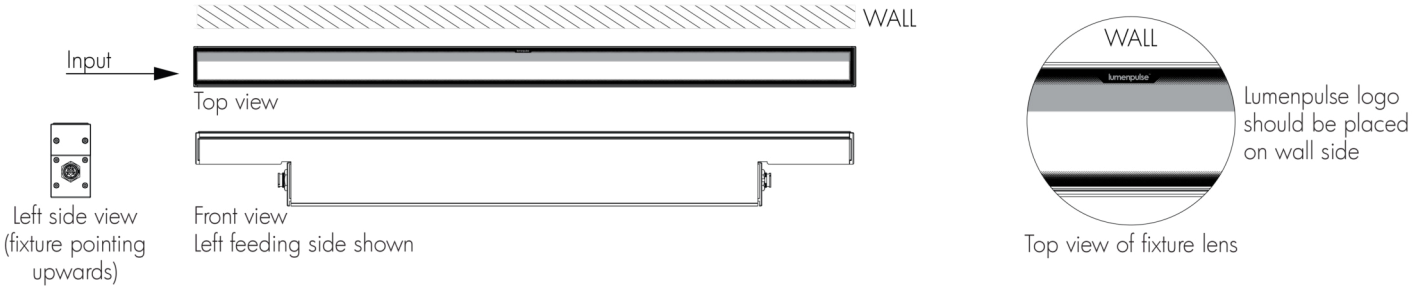
Lens and Optics Combinations Table

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

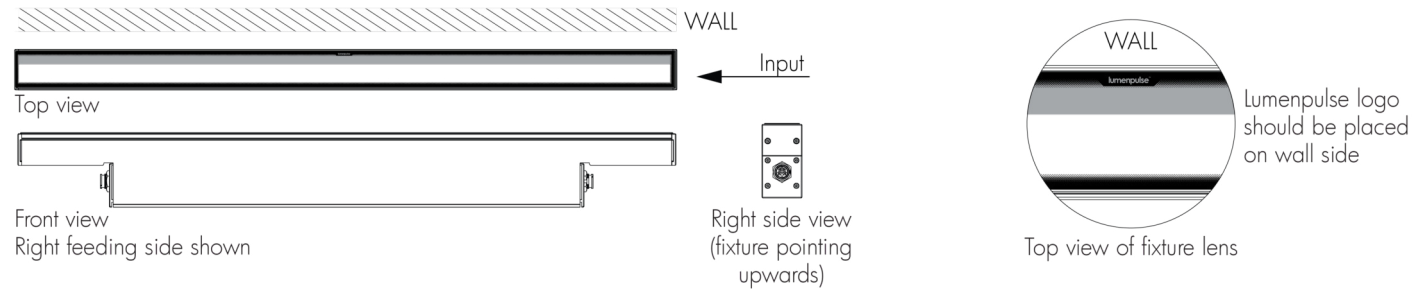
Half-Frosted Lens Details

Left Feeding Side



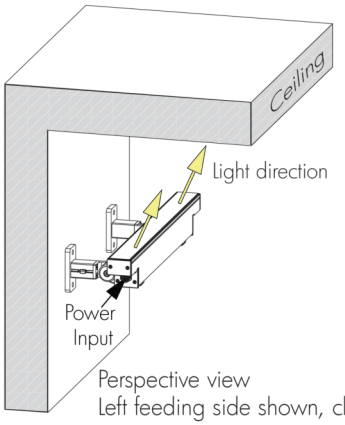
- Position frosted side of the lens and Lumenpulse logo along the wall.
- Fixture's feeding side is based on uplight installations. Feeding sides are reversed when fixture is used in a downlight application.

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.

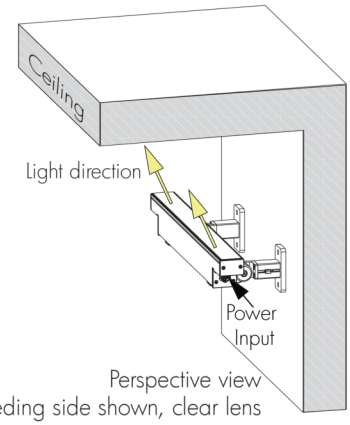
Ceiling Asymmetric Optic Details



Perspective view
Left feeding side shown, clear lens

Top view of fixture lens

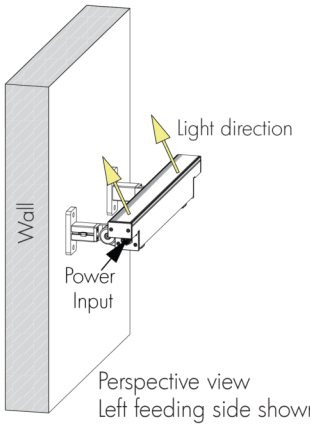
Lumenpulse logo should be placed on wall side



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

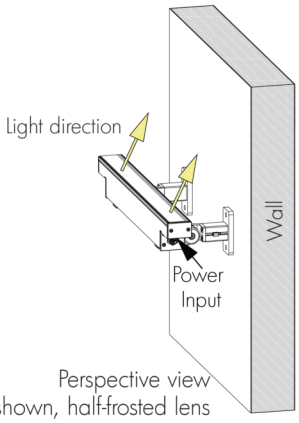
Narrow Asymmetric and Asymmetric Wallwash Optics Details



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

EPA Guide - Fixture

Fixture

	608 mm	913 mm	1218 mm
EPA Top (m^2)	0.044	0.066	0.089
EPA Front (m^2)	0.073	0.104	0.146
EPA Side (m^2)	0.008	0.008	0.008

EPA Guide - Fixture with Accessory

Fixture With Radial Louvre Accessory

	608 mm	913 mm	1218 mm
EPA Top (m^2)	0.044	0.066	0.089
EPA Front (m^2)	0.096	0.140	0.193
EPA Side (m^2)	0.009	0.009	0.009

Fixture With Radial Louvre Asymmetric Accessory

	608 mm	913 mm	1218 mm
EPA Top (m^2)	0.044	0.066	0.089
EPA Front (m^2)	0.098	0.143	0.197
EPA Side (m^2)	0.009	0.009	0.009

Fixture With Visor Accessory

	608 mm	913 mm	1218 mm
EPA Top (m^2)	0.044	0.066	0.089
EPA Front (m^2)	0.098	0.143	0.197
EPA Side (m^2)	0.009	0.009	0.009

Fixture With Shield Accessory

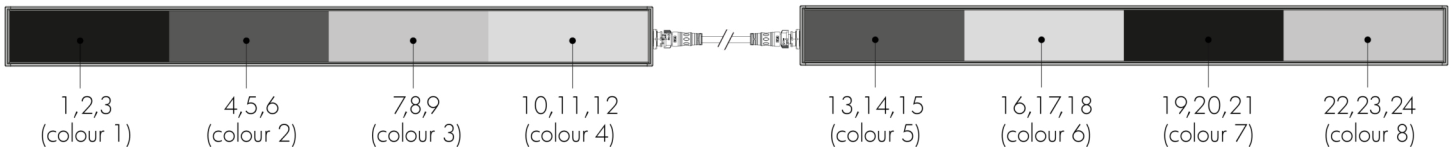
	608 mm	913 mm	1218 mm
EPA Top (m^2)	0.044	0.066	0.089
EPA Front (m^2)	0.173	0.259	0.346
EPA Side (m^2)	0.008	0.008	0.008

EPA Guide - Mounting Option

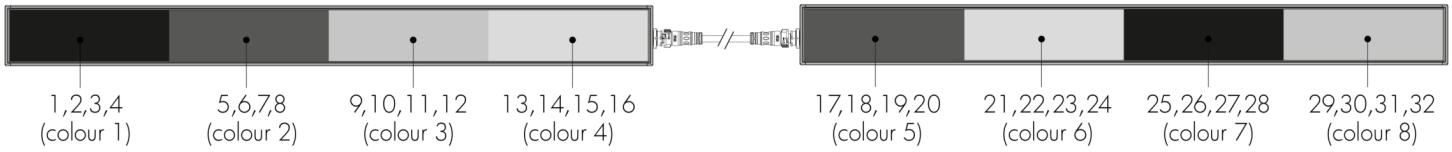
	EPA Top/Side (m^2)	
FX	N/A	
SM	0.001	
WMC1 WMi1	0.004	
WMC3 WMi3	0.004	
WMC6 WMi6	0.006	
WMC12 WMi12	0.013	
WMC18 WMi18	0.020	
WMC24 WMi24	0.027	

Resolution Details

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

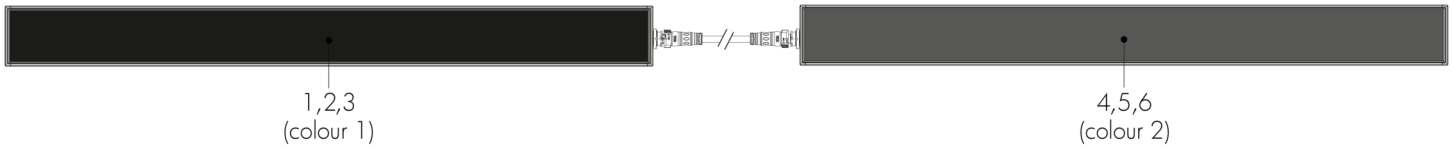


MRGB colour mixing option

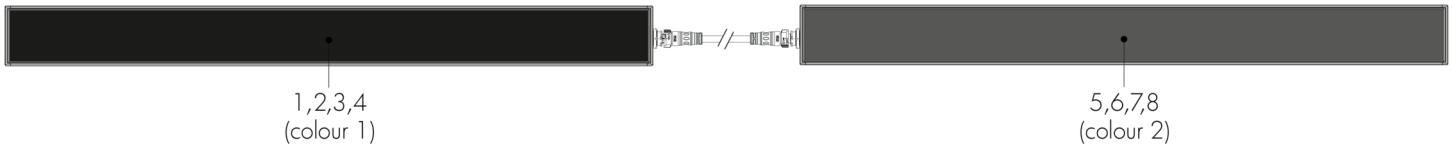


MRGBW, MRGBA colour mixing options

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



MRGB colour mixing option



MRGBW, MRGBA colour mixing options

- 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

DALIT8 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 Control (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 32.8W/m

Voltage	230V	277V
Maximum Run of Fixtures	39.1m	39.1m

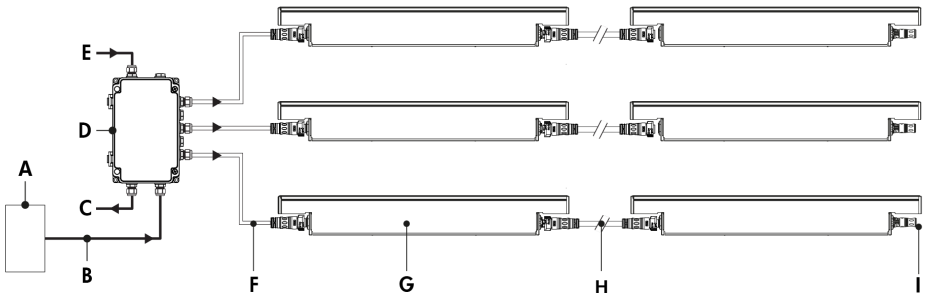
Lumenfacade Max 72.18W/m

Voltage	230V	277V
Maximum Run of Fixtures	39.1m	39.1m

Based 1218 mm fixtures, DMX/RDM control, 7.6 m leader cable for an end-to-end run with 0.6 m jumper cables between fixtures. Refer to Typical Wiring Diagrams for Control Protocol specific run length rules.

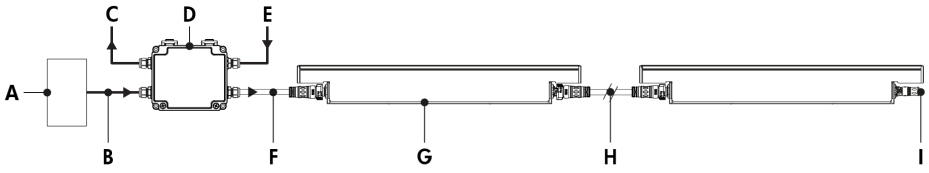
Typical Wiring Diagrams

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 Run (LFM-CR)
H - Jumper Cable (LFJC XC3P3D)
I - DMX/RDM Terminator

Daisy Chain Layout (DMX/RDM)

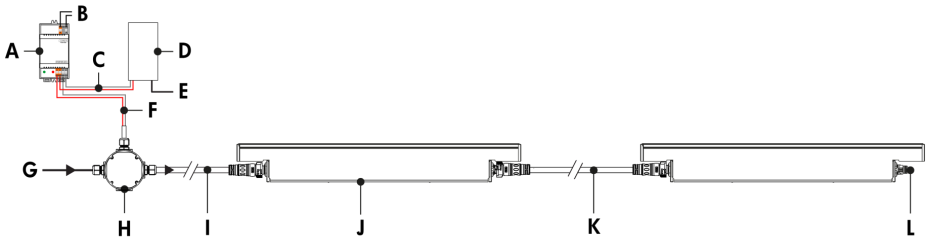


A - Third-party DMX/RDM controller
B - Data input (Belden 9841 or equivalent, by others)
C - Data output to next CBX (optional, not isolated/not boosted)
D - CBX-DS
E - Power input (220 to 240V, wiring by others)
F - Leader Cable (LFLC XC3P3D)
G - Lumenfacade Max Continuous Run (LFM-CR)
H - Jumper Cable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

Refer to installation instructions for additional wiring details.

- Consult CBX installation instructions for additional wiring details.
- 304.8 m maximum DMX/RDM "Bus" length.
- 1 DMX universe = 128 @ 4-channel controllable segments.
- Fixtures set to control RGBW by Foot Resolution are limited to 39 m of product or the fixture run voltage drop limitations, whichever limit is reached first.
- Fixtures set to control RGBW by Fixture Resolution are limited to 128 fixtures (303 mm, 608 mm, 913 mm or 1218 mm lengths) or the fixture run voltage drop limitations, whichever limit is reached first.
- Maximum of 4 DMX/RDM repeaters/CBX cascading in line.
- Maximum of 6 outputs per CBX-ST; maximum of 1 output per CBX-DS.

DALI 2 T8 (DALIT8)

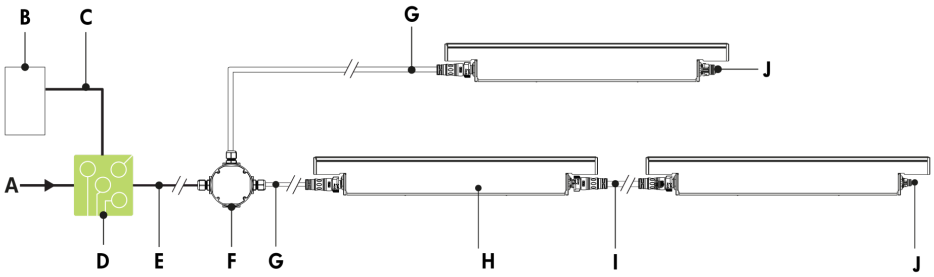


A - DALI bus power supply (by others)
B - Power input for DALI bus power supply (wiring by others)
C - Data output to DALI controller (wiring by others)
D - DALI controller (by others)
E - Power input for DALI controller (if required, wiring by others)
F - Data output to fixture (wiring by others)
G - Power input (220 to 240V, wiring by others)
H - Junction box (by others)
I - Leader Cable (LFLC XC3P2D)
J - Lumenfacade Max Continuous Run (LFM-CR)
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)



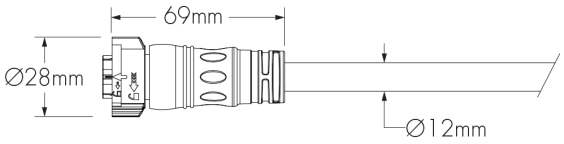
A - Power input (220 to 240V, wiring by others)
B - DMX/RDM controller (order separately from Lumenpulse, or by others)
C - Data wiring (by others)
D - Lumentranslator 2 (LTL2-DMX)
E - Power wiring (by others)
F - Junction box (by others)
G - Leader cable (LFLC XC3P2D)
H - Lumenfacade Max Continuous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

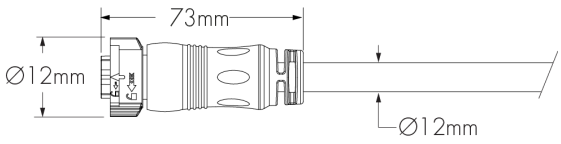
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- For DMX applications: 1 DMX controller per Lumentalk network, maximum of 48 DMX channels per Lumentalk network (minimum step transition update rate is 1 second, minimum fade time between two colours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

Leader Cable (Order Separately)

LFLC - Lumenfacade Leader Cable (XC3P2D)



LFLC - Lumenfacade Leader Cable (XC3P3D)



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

Please specify:
DALI T8, LT 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).

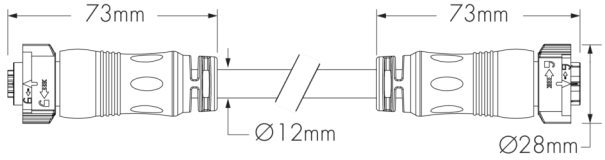
A waterproof sealing end cap is mandatory for any unused connector. One (1) included with every CR/CH XC3P2D Leader Cable.

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).

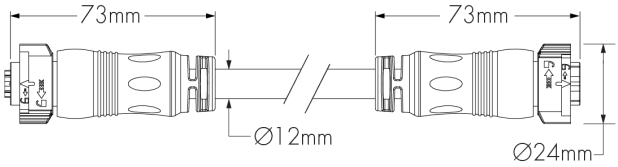
- Consult Lumenfacade Leader Cable specification sheet for additional information.

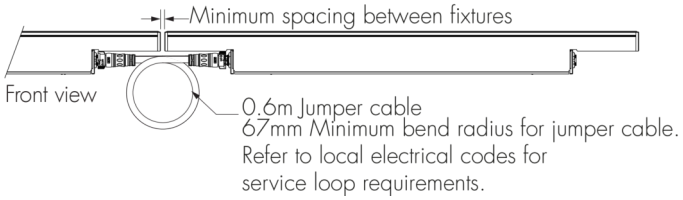
Jumper Cable (Order Separately)

LFJC - Lumenfacade Jumper Cable (XC3P2D)



LFJC - Lumenfacade Jumper Cable (XC3P3D)





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

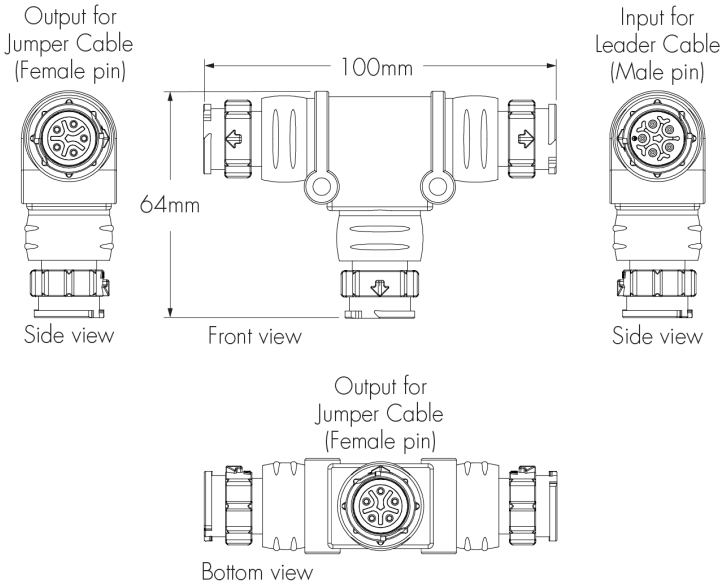
Please specify:
CERTIFICATION: CE; **VOLTAGE:** 120_277; **LENGTH**: 0.3 m, 0.6 m, 1.5 m, 3 m, 7.6 m or 15.2 m; **CONNECTOR/CABLE TYPE:** XC3P2D (5x 16AWG X-lock size) or XC3P3D (3x14AWG + 3x24AWG X-lock C-size); **CONNECTOR SHAPE:** 180D (straight connector); **CABLE/CONNECTOR COLOUR**: BK (Black) (connectors 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 608 mm fixtures at the end of a fixture run, next to 913 mm and 1218 mm fixtures: 9 mm.
- Minimum spacing for two 608 mm fixtures in a row: 70 mm.
- Minimum bend radius 65 mm.

T-Junction (Order Separately)

LFTJ - Lumenfacade T-Junction (XC3P2D)
Available For DALI8 and LT Control Options Only



LFTJ-**CONNECTOR/CABLE TYPE-CABLE/CONNECTOR COLOUR**

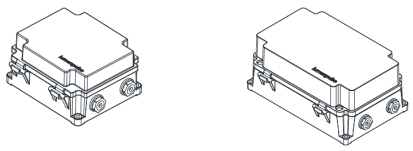
Please specify:
CONNECTOR/CABLE TYPE: XC3P2D (5x 16AWG X-lock size); **CABLE/CONNECTOR COLOUR**: BK (Black).

- 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.

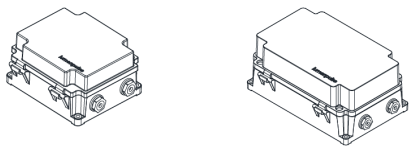
Control Boxes (Order Separately)

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.

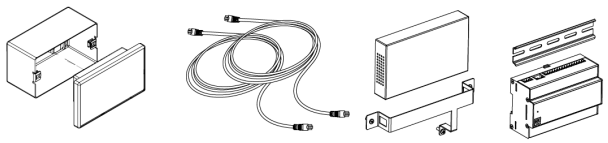
CBX-ENET - Ethernet Enabled (Daisy Chain or Star Configuration)



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.

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.

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	**CR** Continuous Run	**CE** CE Compliant (Class I) [1]	**230** 220 to 240 volts	**12** 303 mm [2] **24** 608 mm **36** 913 mm **48** 1218 mm	**10W** 32.8 W/m **22W** 72.18 W/m	**MRGB** Opticolor with MRGB [3] **MRGBW27K** Opticolor with MRGBW 2700K CRI 80 [3] **MRGBW30K** Opticolor with MRGBW 3000K CRI 80 [3] **MRGBW35K** Opticolor with MRGBW 3500K CRI 80 [3] **MRGBW40K** Opticolor with MRGBW 4000K CRI 80 [3] **MRGBA** Opticolor with MRGB+ Phosphor Converted Amber (PC Amber) [3]	**10x10** 10° x 10° [4] **10x30** 10° x 30° **10x60** 10° x 60° **10x90** 10° x 90° **30x30** 30° x 30° [5] **30x60** 30° x 60° [5] **30x90** 30° x 90° [5] **60x60** 60° x 60° [5] **90x90** 90° x 90° [5] **30x10** 30° x 10° [5] **60x10** 60° x 10° [5] **60x30** 60° x 30° [5] **90x10** 90° x 10° [5] **W** Wide 120° [5] **NAS** Narrow Asymmetric **WW** Asymmetric Wallwash [6] **CAS** Ceiling Asymmetric [5]	**CL** Clear Lens [7] **HFR** Half-Frosted Lens [8] **FR** Frosted Lens [9]	**NF** No Feed Information Required **LF** Left Feeding Side **RF** Right Feeding Side

Notes:

1. Available for 608 mm, 913 mm and 1218 mm fixture lengths only.
2. Consult factory for details.
3. Fixtures are shipped from the factory in Normal Mode. Optidrive™ Mode can be activated onsite for DMX/RDM and LT fixtures. For DMX/RDM applications, Optidrive Mode requires a LumenID, LumenID software and onsite commissioning. For LT applications, Optidrive Mode requires a LumentalkID, LumentalkID software and onsite commissioning.
4. For best results use a miminum 152 mm setback from surface. Contact factory for application support.
5. Can be combined with a CL or FR lens only.
6. Can be combined with a HFR or FR lens only.
7. When CL lens is combined with NAS or CAS optic, LF or RF feeding side must be specified.
8. When HFR lens is specified, LF or RF feeding side must be specified.
9. When FR lens is combined with WW, NAS or CAS optic, LF or RF feeding side must be specified.

How to Order

Control	Vibration Rating	Mounting Option [17] [20]	Environment	Finish	Accessories [29] [30]
DMX/RDM DMX/RDM Enabled [10] [11] **DALIT8** DALI 2 T8 Control [12] **LT** Lumentalk [11] [13]	**NVR** No Vibration Rating Required [14] **VRN** Vibration Rated for Normal Applications [15] **VRBO** Vibration Rated for Bridge and Overpass [16]	**SM** Slim Adjustable Mounting Continuously Adjustable (110˚ Pivot Limit) [18] [19] **FX** Fixed Mounting (0˚ Pivot Limit) [21] **WMC1** Wall Mounting Continuously Adjustable, 38 mm to Optical Centre (180˚ Pivot Limit) [19] [22] **WMi1** Wall Mounting Incrementally Adjustable by 6˚, 38 mm to Optical Centre (180˚ Pivot Limit) [21] **WMC3** Wall Mounting Continuously Adjustable, 89 mm to Optical Centre (130˚ Pivot Limit) [19] [22] **WMi3** Wall Mounting Incrementally Adjustable by 6˚, 89 mm to Optical Centre (130˚ Pivot Limit) [21] **WMC6** Wall Mounting Continuously Adjustable, 152 mm to Optical Centre (170˚ Pivot Limit) [19] [23] **WMi6** Wall Mounting Incrementally Adjustable by 6˚, 152 mm to Optical Centre (170˚ Pivot Limit) [24] **WMC12** Wall Mounting Continuously Adjustable, 305 mm to Optical Centre (180˚ Pivot Limit) [19] [23] **WMi12** Wall Mounting Incrementally Adjustable by 6˚, 305 mm to Optical Centre (180˚ Pivot Limit) [24] **WMC18** Wall Mounting Continuously Adjustable, 457 mm to Optical Centre (180˚ Pivot Limit) [19] [23] **WMi18** Wall Mounting Incrementally Adjustable by 6˚, 457 mm to Optical Centre (180˚ Pivot Limit) [24] **WMC24** Wall Mounting Continuously Adjustable, 610 mm to Optical Centre (180˚ Pivot Limit) [18] [19] **WMi24** Wall Mounting Incrementally Adjustable by 6˚, 610 mm to Optical Centre (180˚ Pivot Limit) [18] [19]	**XD** Extra durable multi-step finish [25]	**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 [26] [27] [28]	**NA** No accessory **LV** Radial Louver [31] **LVAS** Radial Louver Asymmetric **VS** Visor **SH** Shield [18] [32]

Notes:

10. A Control Box (CBX) and LumenID (LID) must be specified.
11. Minimum dimming value is less than 1%.
12. DALI 2 T8 controller required, provided by others. DALI2 T8 control uses a single DALI short address.
13. A Lumentranslator 2 (LTL2) and LumentalkID (LIDLT) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.
14. Available for all mounting options.
15. Available for FX, WMC1, WMi1, WMC3, WMi3, WMC6, WMi6, WMC12, WMi12, WMC18 and WMi18 mounting options.
16. Available for FX, WMi1, WMi3, WMi6, WMi12 and WMi18 mounting options.
17. One mounting bracket provided for 305 mm fixtures. Two mounting brackets provided for 610 mm, 914 mm and 1219 mm fixtures.
18. Available with NVR vibration rating only.
19. Not suitable for bridge and overpass applications.
20. Two mounting brackets provided for each fixture length.
21. Vibration tested in accordance with ANSI 136.31 2018 at 3Gv.
22. Vibration tested in accordance with ANSI 136.31 2018 at 1.5Gv.
23. Vibration tested in accordance with ANSI 136.31 2018 at 2.3Gv.
24. Vibration tested in accordance with ANSI 136.31 2018 at 4.6Gv.
25. Zirconium pretreatment completed with corrosion-resistant primer and electrostatically-applied powder coat paint finish.
26. 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.
27. Setup charges apply for RAL colours. Consult factory for details.
28. Longer lead times can be expected for custom RAL colour finishes.
29. SH accessory can be combined with LV, LVAS or VS accessories. All other combinations are not possible.
30. The exterior finish of the accessory will match the finish specified in the fixture order code (interior surface painted matte black).
31. Available for 10x10, 10x30, 10x60, 10x90, 30x30, 30x60, 30x90, 60x60, 90x90, 30x10, 60x10, 60x30, 90x10 and W optics only.
32. Not suitable for bridge and overpass applications. The Shield can be installed in zones with wind speeds up to 193 km/h. Consult factory for zones with wind speeds higher than 193 km/h.