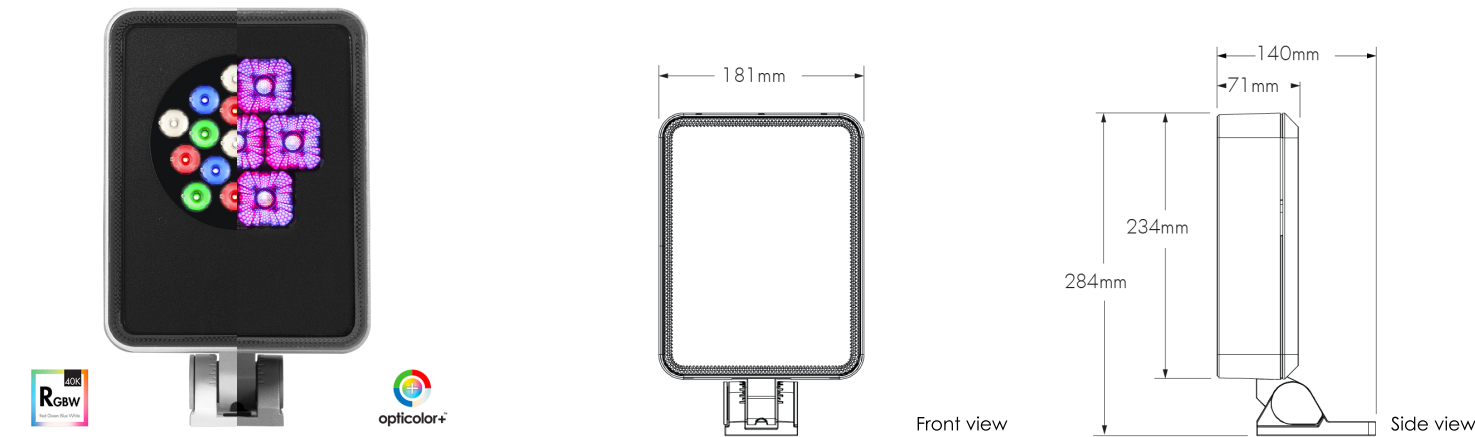


Project Name

Qty

Type

Catalog / Part Number



Photometric Summary (Discrete RGB)

Symmetric		
	Delivered output (lm)	Intensity (peak cd)
VN (6°)	1,572	76,932
NS (10°)	1,533	54,810
NF (20°)	1,411	11,384
M (30°)	1,356	6,270
FL (40°)	1,294	3,500
WFL (60°)	1,142	892

Asymmetric		
NAS	1,442	23,041 (@2.5°)
WW	1,290	5,877 (@5°)

Based on RGBV40K full output, DMX/RDM configuration. Photometric performance is measured in compliance with IESNA LM-79-08.

Photometric Summary (Opticolor+ MRGBWP)

Symmetric		
	Delivered output (lm)	Intensity (peak cd)
NS (10°)	1,158	22,488
NF (20°)	1,090	7,161
M (30°)	1,070	4,026
FL (40°)	1,107	2,959
WFL (60°)	1,089	1,112

Based on MRGBVVP full output, white set to 3000K. Photometric performance is measured externally in compliance with IESNA LM-79-24. Refer to Photometric Guide on Lumenpulse website for information on other color temperatures.

Description

The Lumenquad Medium Colour Changing has a sleek 73 mm profile with no visible wiring or hardware and seamlessly integrates with any architecture while also applying dynamic colour. Lumenpulse's LED boards possess an optimised candela and lumens recipe for both Narrow and Wide optics. The Lumenquad Large Colour Changing is the epitome of versatility and can be configured with numerous optical, colour mixing choices, mounting options, accessories, controls, and multiple standard finishes.

Features

Colours and Colour Temperature (Discrete)	RGB: RGB RGBW30K: RGB + White 3000K RGBW40K: RGB + White 4000K RGBA: RGB + Amber
Colours and Colour Temperature (Opticolor™)	MRGBA: Opticolor Cluster with MRGBA (Red, Green, Blue, Amber)
Colours and Colour Temperature (Opticolor+™)	MRGBWP: MRGBWP With Opticolor+™ (Red, Green, Blue and Configurable White 2700-6500K) MRGBWP Typical Colour Rendering: 2700K-5000K: 90+ CRI 5000K-6500K: 85+ CRI
Optics (Nominal Distribution)	VN: VN (6°) NS: NS (10°) NF: NF (20°) M: M (30°) FL: FL (40°) WFL: WFL (60°) VWFL: VWFL (90°) NAS: NAS (Narrow Asymmetric) WW: WW (Asymmetric Wallwash)

Photometric Summary (Opticolor MRGBA)

Symmetric

	Delivered output (lm)	Intensity (peak cd)
NS (10°)	1,139	22,105
NF (20°)	1,071	7,040
M (30°)	1,052	3,957
FL (40°)	1,088	2,908
WFL (60°)	1,070	1,093

Based on MRGBA full output.
Photometric performance is measured externally in compliance with IESNA LM-79-24.
Refer to Photometric Guide on Lumenpulse website for information on other color temperatures.

Optic



Very
Narrow 6°



Narrow
Spot 10°



Narrow
Flood 20°



Medium
30°



Flood 40°



Wide
Flood 60°



Very Wide
Flood 90°



Narrow
Asymmetric



Asymmetric
Wallwash

Colour and Colour Temperature



RGB
Red Green Blue



30K
RGBW
Red Green Blue White



40K
RGBW
Red Green Blue White



RGBA
Red Green Blue Amber



opticolor™



opticolor+

Control



DMX/RDM



Ratings

IP66 IK10

Certifications



UL US



CE



RoHS





5 YEARS
lumenpulse

Mounting Options

SM: Surface Mount
WM: Wall Mount Bracket with Decorative Cover
WMNC: Wall Mount Bracket without Decorative Cover
RJBOX: Recessed JBOX Wall Mount with Decorative Cover
RJBOXNC: Recessed JBOX Wall Mount Without Decorative Cover
PM: Pole Mount
TN: Tenon Mount
SK: Stake Mount
STM: Stud mount

Optical Options (Factory Installed)

LSLV: Linear Spread Lens Vertical Distribution
LSLH: Linear Spread Lens Horizontal Distribution
HL: Honeycomb Louver

Option

CRC: Corrosion-Resistant Coating for Hostile Environments

Power Consumption

28 W (RGB, RGBW30K, RGBW40K, RGBA), 25W (MRGBA and MRGBWP)

Warranty

5-year limited warranty

Performance

Maximum Delivered Output (Discrete)
1,598 lm (RGB full output, VN 6°, DMX/RDM)
1,540 lm (RGBW30K full output, VN 6°, DMX/RDM)
1,572 lm (RGBW40K full output, VN 6°, DMX/RDM)
1,284 lm (RGBA full output, VN 6°, DMX/RDM)

Maximum Delivered Output (Opticolor) 1,139 lm (MRGBA full output, NS 10°, DMX/RDM)

Maximum Delivered Output (Opticolor+) 1,158 lm (MRGBWP full output, NS 10°, DMX/RDM)

Maximum Delivered Intensity (Discrete)
76,667 cd at nadir (RGB full output, VN 6°, DMX/RDM)
75,393 cd at nadir (RGBW30K full output, VN 6°, DMX/RDM)
76,932 cd at nadir (RGBW40K full output, VN 6°, DMX/RDM)
62,853 cd at nadir (RGBA full output, VN 6°, DMX/RDM)

Maximum Delivered Intensity (Opticolor) 22,105 cd at nadir (MRGBA full output, NS 10°, DMX/RDM)

Maximum Delivered Intensity (Opticolor+) 22,488 cd at nadir (MRGBWP full output, NS 10°, DMX/RDM)

Illuminance at Distance (Discrete)
Minimum 1 lx at 278 m (RGB full output, VN 6°, DMX/RDM)
Minimum 1 lx at 276 m (RGBW30K full output, VN 6°, DMX/RDM)
Minimum 1 fc at 85 m (RGBW40K full output, VN 6°, DMX/RDM)
Minimum 1 lx at 279 m (RGBW40K full output, VN 6°, DMX/RDM)
Minimum 1 lx at 252 m (RGBA full output, VN 6°, DMX/RDM)

Illuminance at Distance (Opticolor) Minimum 1 lx at 149 m (MRGBA full output, NS 10°, DMX/RDM)

Illuminance at Distance (Opticolor+) Minimum 1 lx at 150 m (MRGBWP full output, NS 10°, DMX/RDM)

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 high pressure die-cast aluminium

Lens Material Clear tempered glass

Hardware Material	Stainless steel
Gasket Material	Silicone
Surface Finish	Electrostatically applied polyester powder coat
Weight	3.89 kg
EPA	Front = 0.05 m², Side = 0.02 m², Front 45°= 0.05 m²

Electrical and Control

Voltage	120-277 volts
Fixture Cable	Power and data in one cable
Conductors	6C: 3 x 1,5 mm²/ 3 x 0,20 mm² (DMX/RDM control) 5C: 5 x 1,5 mm² (DALI/T8 control)
Inrush Current (Peak)	21A @230VAC (RGB) 75A @230VAC (RGBW, RGBA)
Control	DMX/RDM Enabled, DALI 2 T8 Control, Lumentalk system is enabled with LDB accessory - see typical wiring diagrams for details
Resolution (DMX/RDM)	Per fixture, 8-bit or 16-bit, 3 channels (RGB) or 4 channels (RGBW30K, RGBW40K, RGBA, MRGBA and MRGBWP)

Environmental

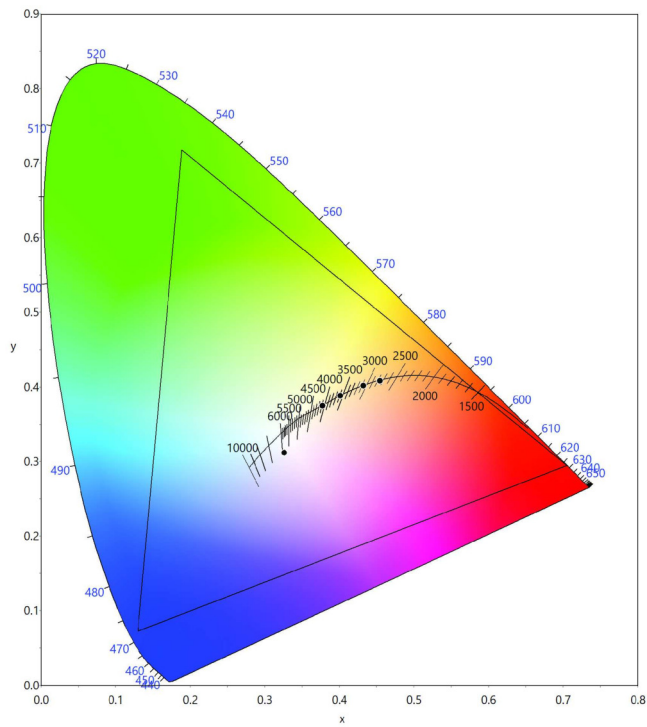
Storage Temperature	-40 °C to 70 °C (device must reach start-up temperature value before operating)
Start-up Temperature	-25 °C to 50 °C
Operating Temperature	-40 °C to 50 °C
Ingress Protection Rating	IP66
Impact Resistance Rating	IK10

Accessories (Order Separately)

Optical Accessories	Snoot, Visor, Linear Spread Lens Adjustable, Wire Guard
Control Boxes	DMX/RDM enabled (Daisy Chain or Star Configuration), Ethernet enabled (Daisy Chain or Star Configuration), Lumentalk Data Bridge
Control Systems	Lumenscene™ (LSC), Pharos® Lighting Control Kit (PHAROS)
Diagnostic and Addressing Tools	LumenID (LID)

Colour Point Information

MRGBWP



Dominant Wavelength and Chromaticity

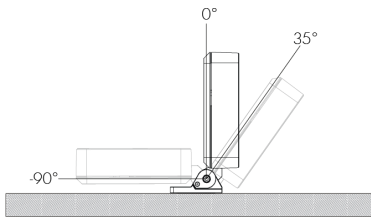
	Dominant Wavelength	Chromaticity	
		C _x	C _y
Red	~628nm	0.7050	0.2949
Green	~531nm	0.1885	0.7178
Blue	~471nm	0.1298	0.0726
Amber	~591nm	0.5755	0.4126

	Cx	Cy
MRGBWP Full On	0.3261	0.3121
27K Optidrive	0.4545	0.4081
30K Optidrive	0.4318	0.4017
35K Optidrive	0.4010	0.3883
40K Optidrive	0.3773	0.3747

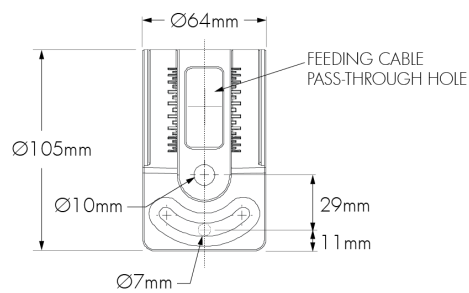
Values measured from Steady State Full on Optidrive @ 25°C ambient conditions.

Mounting Options

SM - Surface Mount

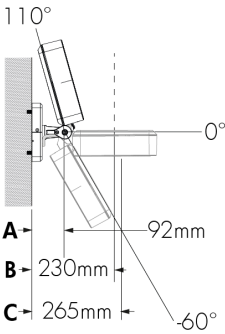


SM - Mounting Hole Pattern

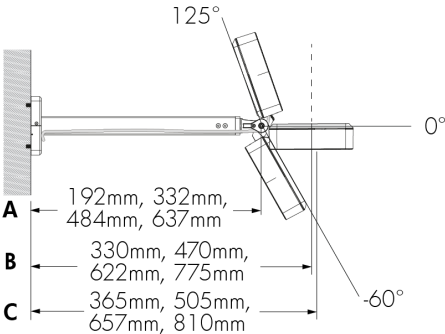


The SM mounting option cannot be interchanged with any other mounting option. All others mountings are interchangeable. Consult factory for details.

WM - Wall Mount Bracket with Decorative Cover

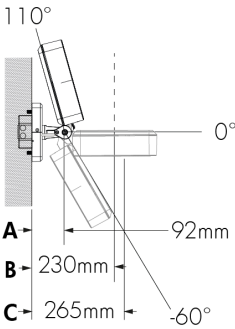


WAM - Wall Mount Bracket With Decorative Cover
152 mm, 305 mm, 457 mm or 610 mm



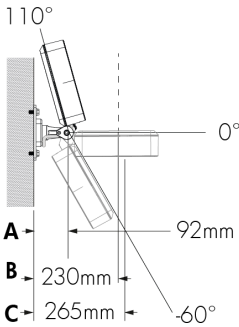
A cable length of 3 m or greater must be specified for the WAM24 mounting option.

WMRJB - Recessed JBOX Wall Mount With Decorative Cover

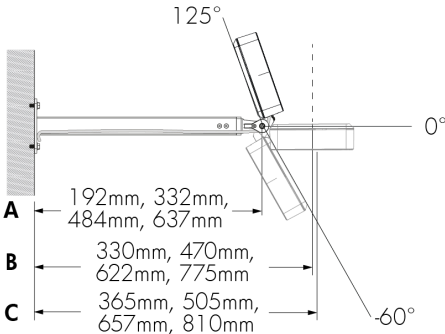


Fixture cable length is determined by Lumenpulse.

WMNC - Wall Mount Bracket Without Decorative Cover

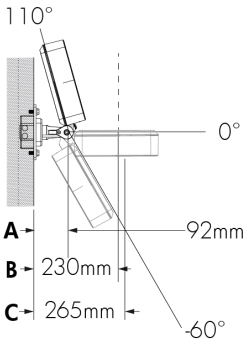


WAMNC - Wall Mount Bracket Without Decorative Cover
152 mm, 305 mm, 457 mm or 610 mm



A cable length of 3 m or greater must be specified for the WAM24 mounting option.

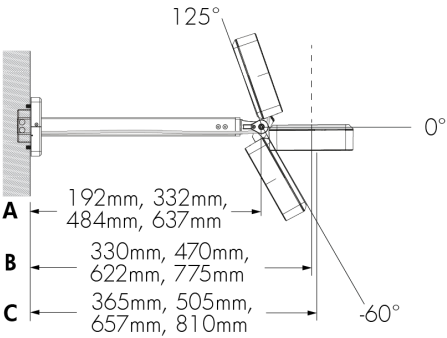
WMRJBNC - Recessed JBOX Wall Mount Without Decorative Cover



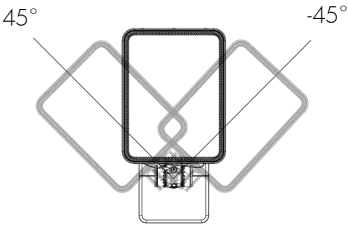
Fixture cable length is determined by Lumenpulse.

- A - Dimension from wall to pivot.
- B - Dimension from wall to the geometric center of the fixture.
- C - Dimension from wall to the center of the board.

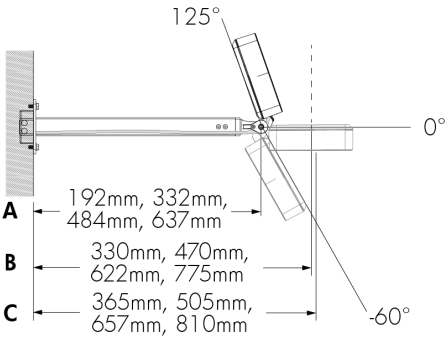
WAMRJB - Recessed JBOX Wall Arm Mount With
Decorative Cover 152 mm, 305 mm, 457 mm or
610 mm



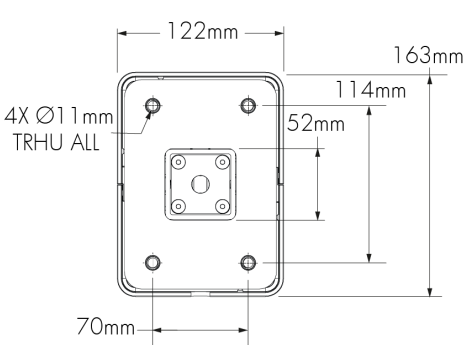
Wall Mount Horizontal Pivot Limits



WAMRJBNC - Recessed JBOX Wall Arm Mount
Without Decorative Cover 152 mm, 305 mm,
457 mm or 610 mm



WM, WAM, WMRJB and WAMRJB - Mounting Hole
Pattern

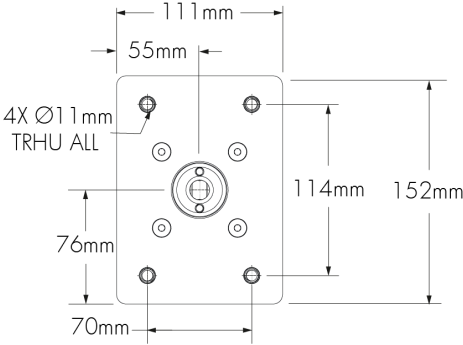


A - Dimension from wall to pivot.

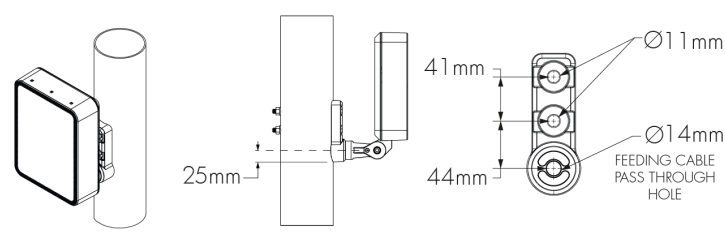
B - Dimension from wall to the geometric center of the fixture.

C - Dimension from wall to the center of the board.

WMNC, WAMNC, WMRJBNC and WAMRJBNC -
Mounting Hole Pattern



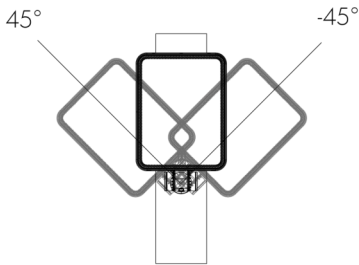
RPM4/1, RPM4.5/1, RPM5/1 - Round Pole Mount



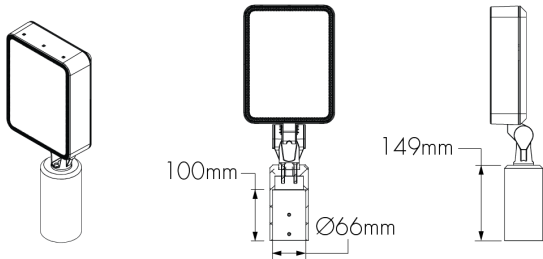
	RPM4/1	RPM4.5/1	RPM5/1
For pole Ø	101.6mm ± 1.6mm	114.3mm ± 1.6mm	127mm ± 1.6mm
Bolt length	133mm	146mm	159mm

Consult factory for other pole diameters.
Hardware included with accessory.

Round Pole Mount Horizontal Pivot Limits

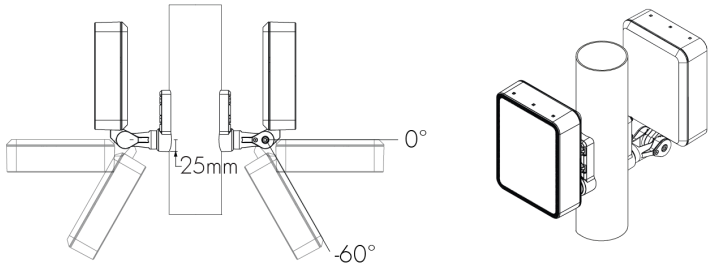


TN2 - Tenon Adapter For 60 mm O.D. Pole



Vertical mounting only. Consult factory for horizontal mounting.

RPM4/2, RPM4.5/2, RPM5/2 - Round Pole Mount For Two Fixtures

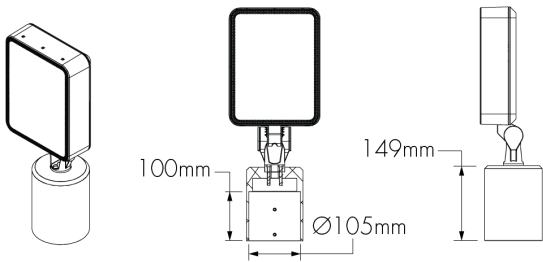


	RPM4/2	RPM4.5/2	RPM5/2
For pole Ø	101.6mm ± 1.6mm	114.3mm ± 1.6mm	127mm ± 1.6mm
Bolt length	146mm	159mm	178mm

Consult factory for other pole diameters.
Hardware included with accessory.

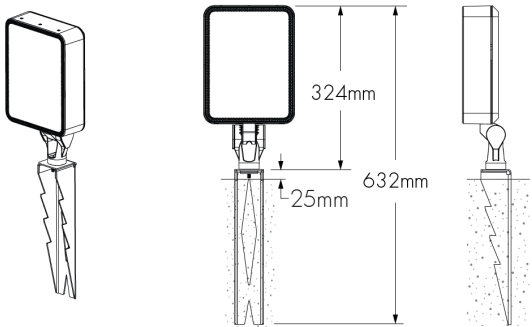
All mounting options (except for SM mounting) are interchangeable. Consult factory for details.

TN4 - Tenon Adapter For 102 mm O.D. Pole

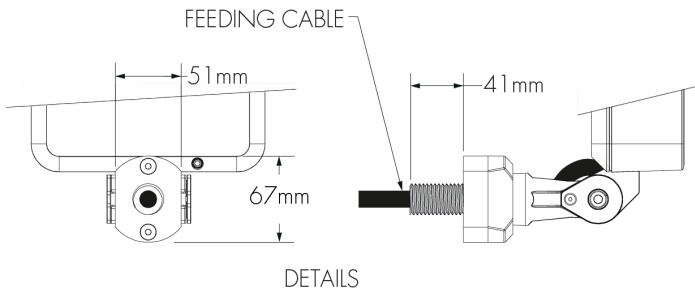
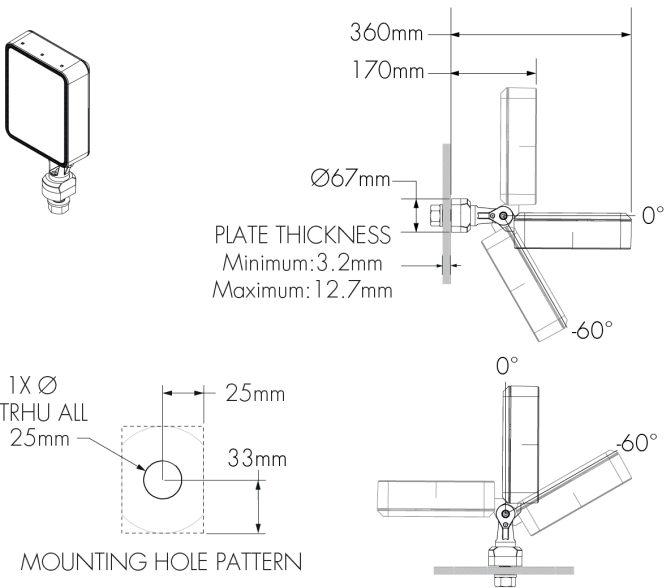


Vertical mounting only. Consult factory for horizontal mounting.

SK - Stake Mount



STM - Stud Mount

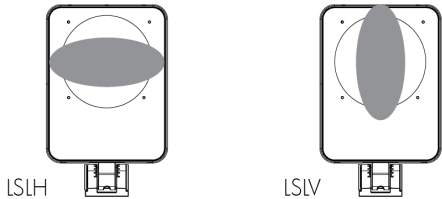


Vertical or horizontal mounting

All mounting options (except for SM mounting) are interchangeable. Consult factory for details.

Optical Options – Discrete

LSLH - Linear Spread Lens Horizontal Distribution
LSLV - Linear Spread Lens Vertical Distribution



Factory installed, not adjustable on site. Not available for WFL, VWFL, NAS and WW optics.

See 'Optical Accessories' section for field adjustable spread lens (LSLA).

	Beam angle with LSLH/LSLV
VN	7° x 60°
NS	13° x 60°
NF	18° x 65°
M	25° x 66°
FL	35° x 70°

LLF: 0.88*
*LLF may vary slightly by distribution chosen.

HL - Honeycomb Louver



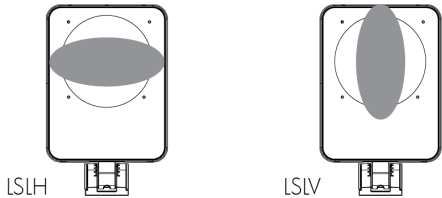
Factory installed, not adjustable on site. HL not available for WFL, VWFL, NAS and WW optics.

The addition of a honeycomb louvre will affect beam distribution. Consult factory for application support.

LLF: 0.90*
*LLF may vary slightly by distribution chosen.

Optical Options - Opticolor™ and Opticolor+

LSLH - Linear Spread Lens Horizontal Distribution
LSLV - Linear Spread Lens Vertical Distribution



Factory installed, not adjustable on site. Not available for WFL, VWFL, NAS and WW optics.

See 'Optical Accessories' section for field adjustable spread lens (LSLA).

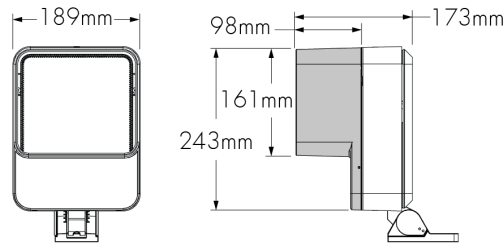
Optic installed in fixture	Beam angle with LSLH/LSLV
NS	11° x 61°
NF	19° x 66°
M	26° x 70°
FL	31° x 71°

LLF: 0.88*
*LLF may vary slightly by distribution chosen.

Optical Accessories (Factory Installed, Order Separately)

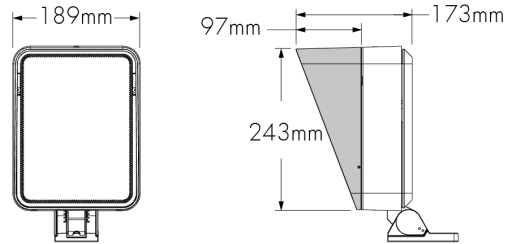
Installed optical accessories will affect the maximum pivot limits for each mounting option, consult factory for details.

SN - Snoot



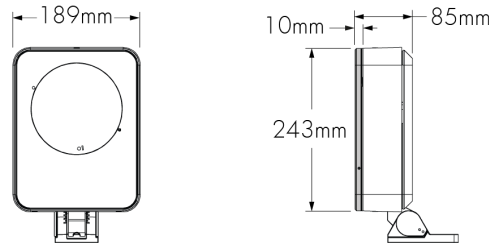
LQMSN-FINISH-BK-OPTIONS (CRC)
Interior surface painted black. Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

VS - Visor



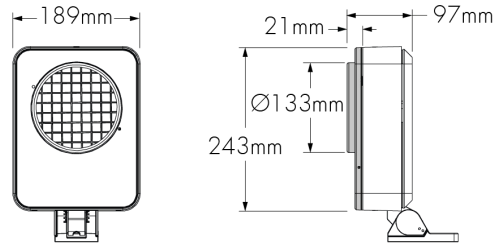
LQMVS-FINISH-BK-OPTIONS (CRC)
Interior surface painted black. Please specify the exterior **FINISH** from the list of finishes in the fixture order code.
The Visor is not recommended for the WW optic.

LSLA - Linear Spread Lens Adjustable



LQMLSLA-FINISH-OPTIONS (CRC)
Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

WG - Wire Guard



LQMWG-FINISH-OPTIONS (CRC)
Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

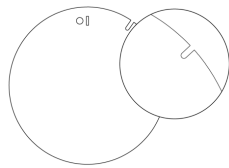
Accessory Combinations

	+	Snoot	Visor	Wire guard
Linear spread lens adjustable		YES	YES	NO
Wire guard		YES	YES	N/A

Accessory combinations must be ordered together on a single line. Ex: A snoot + wire guard combination order code is LQMSNWG-BK-BK. A maximum of two accessories can be combined per fixture

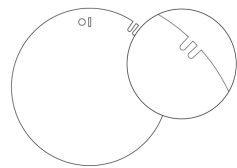
Diffuser Lenses (Intended for Mockup Purposes Only, Order Separately)

Diffuser Lens 1 (1 Notch)



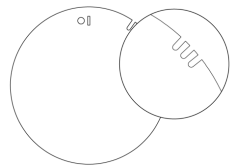
147701

Diffuser Lens 2 (2 Notches)



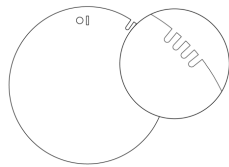
147702

Diffuser Lens 3 (3 Notches)



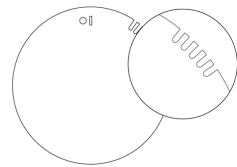
147703

Diffuser Lens 4 (4 Notches)



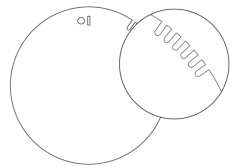
147704

Diffuser Lens 5 (5 Notches)



147705

Diffuser Lens 6 (6 Notches)



147706

Final Distribution Using Diffuser Lenses

	Final Distribution Using Diffuser Lens					
Original Distribution on Fixture	Diffuser Lens 1 1 Notch	Diffuser Lens 2 2 Notches	Diffuser Lens 3 3 Notches	Diffuser Lens 4 4 Notches	Diffuser Lens 5 5 Notches	Diffuser Lens 6 6 Notches
XN (4°/5°)	VN	NS	NF	M	FL	WFL
VN (6°)	NS					
NS (10°)						
NF (20°)						
M (30°)			FL	WFL		
FL (40°)						
WFL (60°)				VWFL		
VWFL (90°)						

Choose a diffuser lens based on the desired final beam distribution. Refer to the 6-digit part numbers above to order diffuser lenses individually. To order a complete set of 6 diffuser lenses in a bag, refer to the following item names: **LQS:** LQALK-S **LQM:** LQALK-M **LQL:** LQALK-L **LQG:** LQALK-G

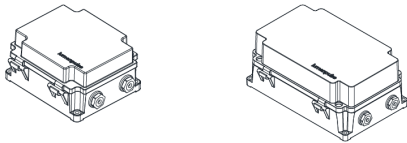
The diffuser lenses are intended for mockup purposes only. A lens holder is required to install a diffuser lens on the fixture, order separately using the following names: **LQS:** LQSLSLA-FINISH-LQALK **LQM:** LQMLSLA-FINISH-LQALK **LQL:** LQLLSLA-FINISH-LQALK **LQG:** LQGSLSLA-FINISH-LQALK

Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

Refer to the Diffuser Lens Installation Instructions on the Lumenpulse website for information on installing the diffuser lenses.

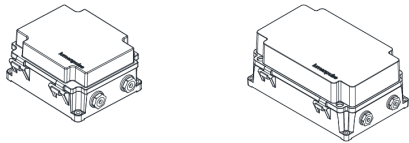
Control Boxes (Order Separately)

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



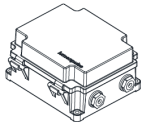
DMX/RDM control box. Up to six power and data outputs to fixtures or fixture runs. Consult CBX specification sheet and installation instructions for details. Lumenterminators provided with CBX (2x for daisy chain configuration, 6x for star configuration), consult factory to order spares.

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.

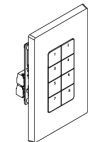
LDB - Lumentalk Data Bridge



Lumentalk Data Bridge, 1-10V or DMX output. Consult LDB specification sheet for details.

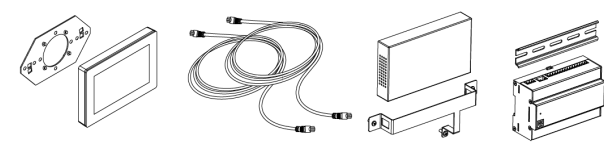
Control Systems (Order Separately)

Lumenscene



The Lumenscene, a user-friendly DMX/RDM lighting controller that includes eight preconfigured scene changes and can be programmed via RDM.

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.

EPA Guide

	FIXTURE			MOUNTING OPTIONS*			
	LQM	LQM with Snoot	LQM with Visor	WAM/WAMRJB			
							
				6	12	18	24
EPA Front (m²)	0.054	0.068	0.068	N/A	N/A	N/A	N/A
EPA Side (m²)	0.024	0.045	0.045	0.012	0.027	0.041	0.055
EPA Front 45° (m²)	0.052	0.080	0.080	N/A	N/A	N/A	N/A

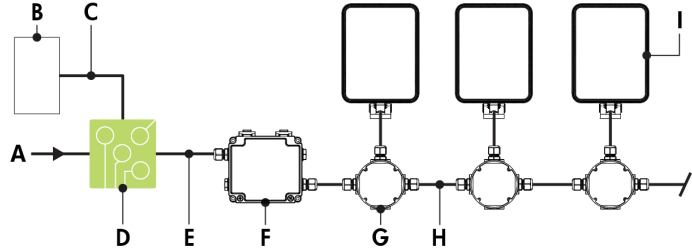
*Mounting arm only. Fixture EPA calculation must also be considered.

Typical Wiring Diagrams

Wiring Colour Code

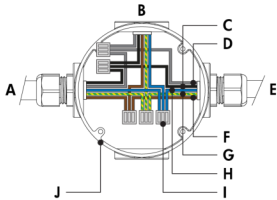
CE Colour Code	USE
Yellow/Green	Ground
Brown	Line 120-277V AC
Blue	Line/Neutral
Black	1-10V / Data +
Grey	1-10V / Data -
Grey	Signal common (DMX/RDM only)

Lumentalk (LT) RGB-RGBW30K-RGBW40K-RGBA



- A - Power input (120-277V AC, 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 - Lumentalk Data Bridge (LDB-DMX)
- G - Junction box (by others)
- H - Power and data wiring (by others)
- I - Lumenquad Medium

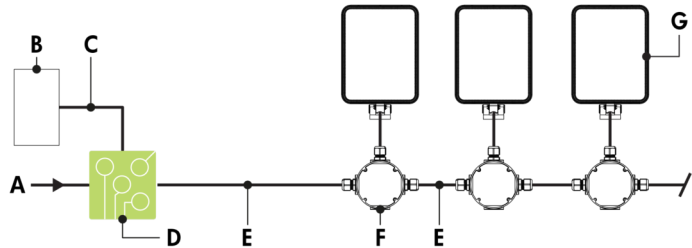
Lumentalk (LT) - Wiring Detail Using LDB



- A - From Lumentalk Data Bridge (control over power line via Lumentalk system) or from previous fixture
- B - To fixture
- C - 1-10 V + / Data +
- D - 1-10 V - / Data -
- E - To next fixture
- F - Line
- G - Ground
- H - Line/Neutral
- I - Terminal connector (by others)
- J - Junction box (by others)

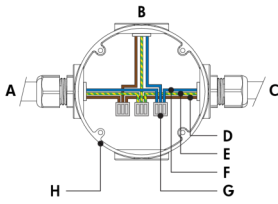
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Lumentalk Data Bridge required for Lumentalk system, see LDB installation instructions for details. Fixtures must be specified as DMX/RDM and the Lumentalk Data Bridge must be specified as DMX. 2-step commissioning process: 1 - DMX/RDM system using LumenID software and a LID, 2 - Lumentalk system using LumentalkID software and a LID-LT. Consult factory for details.
- Maximum of 32 fixtures per LDB-DMX. Consult factory for details.
- 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.
- 28 watts per fixture (RGB, RGBW30K, RGBW40K, RGBA).

Lumentalk (LT) MRGBA-MRGBWP



- A - Power input (120-277V AC, 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 - Lumenquad Medium

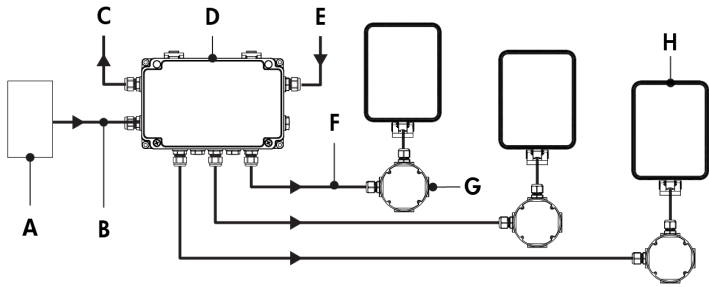
Lumentalk (LT) - Wiring Detail - CE



- A - Power input (control over power line via Lumentalk system) or from previous fixture
- B - To fixture
- C - To next fixture
- D - Line
- E - Ground
- F - Line/Neutral
- G - Terminal connector (by others)
- H - Junction box (by others)

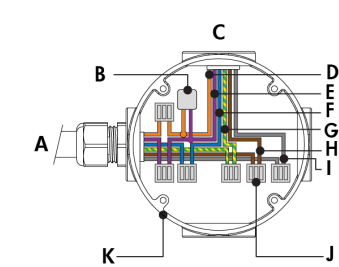
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Lumentalk enabled fixtures must be commissioned using LumentalkID software and a LID-LT. Consult factory for details.
- Maximum of 1 transmitter (Lumentranslator or Lumenlink) per system.
- No third party fixtures allowed on the same circuit.
- 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.
- 25 watts per fixture (MRGBA and MRGBWP).

Star Layout (DMX/RDM)



- A - DMX/RDM controller (order separately from Lumenpulse, or by others)
- B - Data input (Belden 9841 or equivalent, by others)
- C - Data output to next CBX (optional, not isolated/not boosted)
- D - CBX-ST
- E - Power input (120-277V, wiring by others)
- F - Power and data output to fixture (wiring by others)
- G - Junction box (by others)
- H - Lumenquad Medium

Star Layout (DMX/RDM) - Wiring Detail - CE



- A - From CBX or previous fixture
- B - Lumenterminator*
- C - To fixture
- D - Data -
- E - Data +
- F - Neutral
- G - Ground
- H - Line
- I - Signal common
- J - Terminal connector (by others)
- K - Junction box (by others)

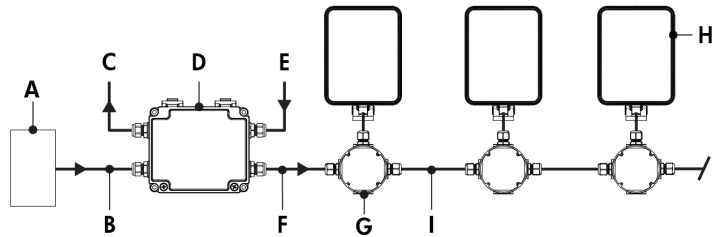
Maximum Fixture Count

Maximum number of fixtures per run (Based on 16A maximum, 1,5mm ² cable, fixtures spaced 3m on center, first fixture 15m from CBX)				
Configuration/Voltage	120V	208V	240V	277V
LQM	29	32	32	32

Based on 16A maximum, 1,5 mm² cable, fixtures spaced 3 m on centre, first fixture 15 m from CBX.

- Consult CBX installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Run length calculations are based on a voltage drop of no more than 25V.
- The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run.
- Maximum of 4 DMX/RDM repeaters/CBX cascading in line.
- Maximum of 6 outputs per CBX-ST.
- RGB colour mixture option requires 3 DMX addresses. RGBW30K, RGBW40K, RGBA, MRGBA and MRGBWP colour mixture options require 4 DMX addresses.
- DMX terminator is required at the end of each run to maintain data integrity. Six (6x) DMX lumenterminators included per CBX-ST. See installation instructions for details.
- 28 watts per fixture (RGB, RGBW30K, RGBW40K, RGBA), 25 watts per fixture (MRGBA and MRGBWP).

Daisy Chain Layout (DMX/RDM)

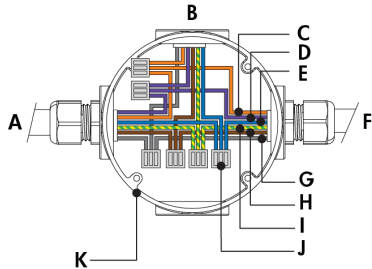


- A - DMX/RDM controller (order separately from Lumenpulse, or by others)
- B - Data input (Belden 9841 or equivalent, by others)
- C - Data output to next CBX (optional, not isolated/not boosted)
- D - CBX-DS
- E - Power input (120-277V, wiring by others)
- F - Power and data output to fixture (wiring by others)
- G - Junction box (by others)
- H - Lumenquad Medium
- I - Power and data wiring (by others)

Maximum Fixture Count

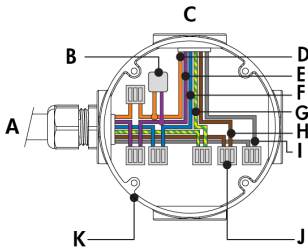
Maximum number of fixtures per run (Based on 16A maximum, 1,5mm ² cable, fixtures spaced 3m on center, first fixture 1.5m from CBX)				
Configuration/Voltage	120V	208V	240V	277V
LQM	29	32	32	32

Daisy Chain Layout (DMX/RDM) - Wiring Detail (First Or Middle Of Run) - CE



- A - From CBX or previous fixture
- B - To fixture
- C - Data -
- D - Data +
- E - Neutral
- F - To next fixture
- G - Signal common
- H - Line
- I - Ground
- J - Terminal connector (by others)
- K - Junction box (by others)

Daisy Chain Layout (DMX/RDM) - Wiring Detail (End Of Run) - CE

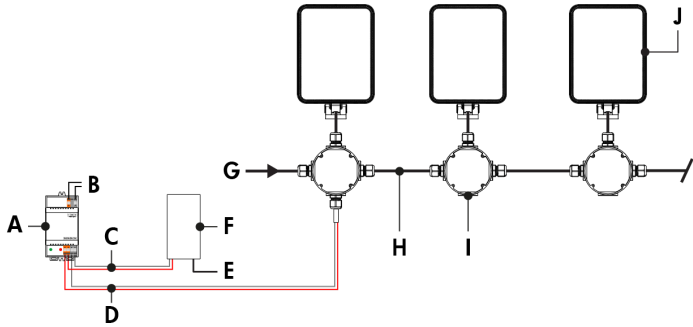


- A - From CBX or previous fixture
- B - Lumenterminator*
- C - To fixture
- D - Data -
- E - Data +
- F - Neutral
- G - Ground
- H - Line
- I - Signal common
- J - Terminal connector (by others)
- K - Junction box (by others)

Based on 16A maximum, 1,5 mm² cable, fixtures spaced 3 m on centre, first fixture 1.5 m from CBX.

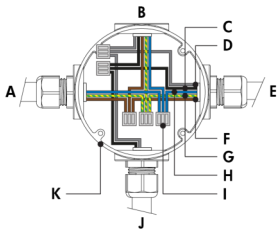
- Consult CBX installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Run length calculations are based on a voltage drop of no more than 25V.
- The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run.
- Maximum of 4 DMX/RDM repeaters/CBX cascading in line.
- Maximum of 1 output per CBX-DS.
- Maximum of 0.9 m cable length between fixture and next junction box for daisy chain layout.
- RGB colour mixture option requires 3 DMX addresses. RGBW30K, RGBW40K, RGBA, MRGBA and MRGBWP colour mixture options require 4 DMX addresses.
- DMX terminator is required at the end of each run to maintain data integrity. Two (2x) DMX lumenterminators included per CBX-DS. See installation instructions for details.
- 28 watts per fixture (RGB, RGBW30K, RGBW40K, RGBA), 25 watts per fixture (MRGBA and MRGBWP).

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 - Data output to fixture (wiring by others)
- E - Power input for DALI controller (if required, wiring by others)
- F - DALI controller (by others)
- G - Power input (120-277V AC, wiring by others)
- H - Power and data wiring (by others)
- I - Junction box (by others)
- J - Lumenquad Medium

DALI 2 Type 8 (DALIT8) - Wiring Detail - CE



- A - Power input or from previous fixture
- B - To fixture
- C - DA +
- D - DA -
- E - To next fixture
- F - Line
- G - Ground
- H - Neutral
- I - Terminal connector (by others)
- J - From DALI controller (by others)
- K - Junction box (by others)

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Maximum of 64 DALI fixtures per DALI loop.
- The Lumenquad responds to RGBWAF for colour controls and Tc for dim to warm and tunable white.
- Commissioning may be required based on the selection of 3rd party DALI controller. Controller and commissioning provided by others.
- 28 watts per fixture (RGB, RGBW30K, RGBW40K, RGBA), 25 watts per fixture (MRGBA and MRGBWP).

How to Order

Housing	Voltage ⁽¹⁾	Colour and Colour Temperature	Optic	Optical Option ⁽¹²⁾	Mounting Options ⁽¹⁴⁾
LQM Lumenquad Medium	120 120 Volts 208 208 Volts 220 220 Volts 240 240 Volts 277 277 Volts	RGB RGB RGBW30K RGB + White 3000K ⁽²⁾ RGBW40K RGB + White 4000K ⁽²⁾ RGBA Additive RGB + amber MRGBA Opticolor with MRGBA Amber ⁽²⁾ ⁽³⁾ ⁽⁴⁾ MRGBWP MRGBW With Opticolor+™ ⁽³⁾ ⁽⁴⁾ ⁽⁵⁾ ⁽⁶⁾ ⁽⁷⁾	VN Very Narrow 6° ⁽⁸⁾ ⁽⁹⁾ NS Narrow Spot 10° ⁽⁸⁾ NF Narrow Flood 20° ⁽⁸⁾ M Medium 30° ⁽⁸⁾ FL Flood 40° ⁽⁸⁾ WFL Wide Flood 60° ⁽⁸⁾ VWFL Very Wide Flood 90° ⁽⁸⁾ ⁽¹⁰⁾ ⁽¹¹⁾ NAS Narrow Asymmetric ⁽⁸⁾ ⁽⁹⁾ WW Asymmetric Wallwash ⁽⁸⁾ ⁽⁹⁾	LSLH Linear Spread Lens Horizontal Distribution ⁽¹³⁾ LSLV Linear Spread Lens Vertical Distribution ⁽¹³⁾ HL Honeycomb Louver ⁽⁹⁾ ⁽¹³⁾	SM Surface Mount WM Wall Mount Bracket with Decorative Cover WMNC Wall Mount Bracket without Decorative Cover WAM6 Wall Arm Mount 152 mm with Decorative Cover WAM6NC Wall Arm Mount 152 mm without Decorative Cover WAM12 Wall Arm Mount 305 mm with Decorative Cover WAM12NC Wall Arm Mount 305 mm without Decorative Cover WAM18 Wall Arm Mount 457 mm with Decorative Cover WAM18NC Wall Arm Mount 457 mm without Decorative Cover WAM24 Wall Arm Mount 610 mm with Decorative Cover ⁽¹⁵⁾ WAM24NC Wall Arm Mount 610 mm without Decorative Cover ⁽¹⁵⁾ WMRJB Recessed JBOX Wall Mount with Decorative Cover WMRJBNC Recessed JBOX Wall Mount without Decorative Cover WAMRJB6 Recessed JBOX Wall Arm Mount 152 mm with Decorative Cover WAMRJB6NC Recessed JBOX Wall Arm Mount 152 mm without Decorative Cover WAMRJB12 Recessed JBOX Wall Arm Mount 305 mm with Decorative Cover WAMRJB12NC Recessed JBOX Wall Arm Mount 305 mm without Decorative Cover WAMRJB18 Recessed JBOX Wall Arm Mount 457 mm with Decorative Cover WAMRJB18NC Recessed JBOX Wall Arm Mount 457 mm without Decorative Cover WAMRJB24 Recessed JBOX Wall Arm Mount 610 mm with Decorative Cover WAMRJB24NC Recessed JBOX Wall Arm Mount 610 mm without Decorative Cover RPM4/1 Round Pole Mount 102 mm RPM4.5/1 Round Pole Mount 114 mm RPM5/1 Round Pole Mount 127 mm RPM4/2 Round Pole Mount 102 mm for two fixtures RPM4.5/2 Round Pole Mount 114 mm for two fixtures RPM5/2 Round Pole Mount 127 mm for two fixtures TN2 Tenon Adapter for 60 mm O.D. Pole TN4 Tenon Adapter for 102 mm O.D. Pole SK Stake Mount STM Stud mount ⁽¹⁶⁾

Notes:

1. Consult factory for 100 volts.

2. Consult factory for availability of other colour options such as Royal Blue.

3. Not available for VN, NAS and WW optics.
4. Consult factory for the availability of more colour and CCT options (e.g. royal blue).

5. MRGBWP can be configured to MRGB via RDM, consult factory for more details.

6. Fixtures are shipped from the factory in Optidrive™ Mode. Normal 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. Additionally, with Opticolor+™ the white CCT is configurable in the field from 1800K-8000K.

7. Consult factory for DALI8 applications with MRGBWP and a CCT other than 3000K.

8. Factory installed, not interchangeable on site.

9. Not available with MRGBA and MRGBWP colour temperature options.
10. Available with MRGBA and MRGBWP colour temperature options only.

11. Consult factory for photometric performance.

12. Optical options are factory installed and cannot be changed in the field.

13. Not available with WFL, VWFL, NAS and WW optics.

14. All mounting options (except for SM mounting) are interchangeable. Consult factory for details.

15. A cable length of 3 m or greater must be specified.

16. For thru-wall mounting.

How to Order

Finish	Control ⁽²⁰⁾ ⁽²¹⁾	Option	Certification	Cable Length ⁽²³⁾ ⁽²⁸⁾ ⁽³⁰⁾
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 ⁽¹⁷⁾ ⁽¹⁸⁾ ⁽¹⁹⁾	LT Lumentalk ⁽¹⁰⁾ ⁽²¹⁾ DMX/RDM DMX/RDM Enabled ⁽²²⁾ ⁽²³⁾ DALIT8 DALI 2 T8 Control ⁽⁷⁾ ⁽²⁴⁾	CRC Corrosion-Resistant Coating ⁽²⁵⁾ ⁽²⁶⁾	UL UL Compliant ⁽²⁷⁾ CE CE Compliant	1M 1 m ⁽²³⁾ ⁽²⁹⁾ 5M 5 m 10M 10 m 15M 15 m 20M 20 m 30M 30 m

Notes:

7. Consult factory for DALI2 applications with MRGBWP and a CCT other than 3000K.

10. Available with MRGBA and MRGBWP colour temperature options only.

17. 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.

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

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

20. For RGB, RGBW30K, RGBW40K and RGBA applications, a Lumentalk system is enabled with LDB-DMX accessory, DMX/RDM must be specified in the order code. See the typical wiring diagrams in the specification sheet for details.

21. A Lumentranslator 2 (LTL2) and LumentalkID (LIDLT) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.

22. A control box (CBX) and LumenID (LID) must be specified.

23. Maximum of 1 m cable length for daisy chain DMX applications with CBX-DS.

24. DALI 2 T8 controller required, provided by others. DALI2 T8 control uses a single DALI short address.

25. Use only when exposed to salt spray. This option is not required for normal outdoor exposure.

26. Setup charges apply. Consult factory for details.

27. Consult North American specification sheets and installation instructions for UL wiring information.

28. UL fixtures specified with a Smooth white finish and a SM, WM, WMNC, or WAM 152 mm to 610 mm mounting option (with or without decorative cover) are provided with a white cable. A black cable is provided for all other fixture configurations.

29. Not available with WAM24 or WAM24NC mounting options.

30. Not applicable to WMRJB, WMRJBNC and WAMRJB 152 mm to 610 mm mounting options (with or without decorative cover). Cable lengths for these mounting options are determined by the length of the mounting bracket.