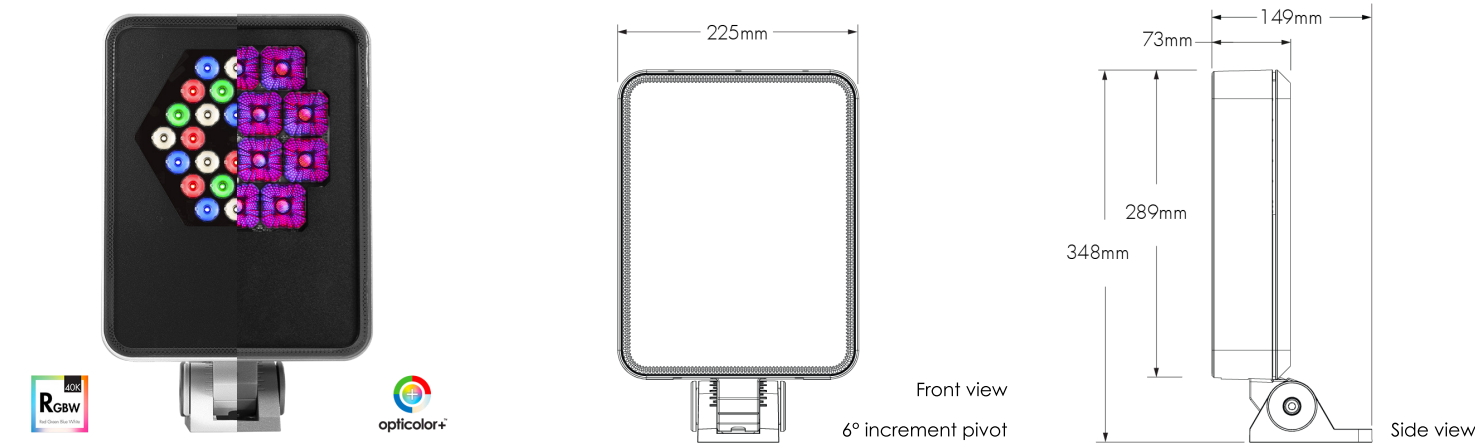


Project Name

Qty

Type

Catalog / Part Number



Photometric Summary (Discrete RGBW40K)

Symmetric

	Delivered output (lm)	Intensity (peak cd)
VN (6°)	2,642	137,663
NS (10°)	2,829	100,343
NF (20°)	2,795	26,212
M (30°)	2,555	11,552
FL (40°)	2,409	5,948
WFL (60°)	1,999	2,075
Assymmetric		
NAS	2,939	45,274 (@2.5°)
WW	2,434	10,817 (@5°)

Based on RGBW40K 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.

Photometric Summary (Opticolor+ MRGBWP)

Symmetric

	Delivered output (lm)	Intensity (peak cd)
NS (10°)	2,505	47,745
NF (20°)	2,370	15,378
M (30°)	2,322	8,565
FL (40°)	2,360	6,373
WFL (60°)	2,294	2,345

Based on MRGBWP 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 Large 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°)	2,465	46,981
NF (20°)	2,332	15,132
M (30°)	2,284	8,428
FL (40°)	2,322	6,271
WFL (60°)	2,257	2,308

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



RGBW 30K
Red Green Blue White



RGBW 40K
Red Green Blue White



RGBA
Red Green Blue Amber



opticolor™



opticolor+™

Control



lumen talk



DMX/RDM



DALI
T8

Ratings

IP66 IK10

Certifications



UL US



CE



RoHS





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
NOTE: All mounting options have a pivot adjustable in 6° increments, consult factory for universal pivot option.

Optical Options (Factory Installed)

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

Option

CRC: Corrosion-Resistant Coating for Hostile Environments

Power Consumption

50 W

Warranty

5-year limited warranty

Performance

Maximum Delivered Output (Discrete)	2,931 lm (RGB full output, NAS @ 2.5°, DMX/RDM) 2,880 lm (RGBW30K full output, NAS @ 2.5°, DMX/RDM) 2,939 lm (RGBW40K full output, NAS @ 2.5°, DMX/RDM) 2,401 lm (RGBA full output, NAS @ 2.5°, DMX/RDM)
Maximum Delivered Output (Opticolor)	2,465 lm (MRGBA full output, NS 10°, DMX/RDM)
Maximum Delivered Output (Opticolor+)	2,505 lm (MRGBWP full output, NS 10°, DMX/RDM)
Maximum Delivered Intensity (Discrete)	137,268 cd at nadir (RGB full output, VN 6°, DMX/RDM) 134,910 cd at nadir (RGBW30K full output, VN 6°, DMX/RDM) 137,663 cd at nadir (RGBW40K full output, VN 6°, DMX/RDM) 112,471 cd at nadir (RGBA full output, VN 6°, DMX/RDM)
Maximum Delivered Intensity (Opticolor)	46,981 cd at nadir (MRGBA full output, NS 10°, DMX/RDM)
Maximum Delivered Intensity (Opticolor+)	47,745 cd at nadir (MRGBWP full output, NS 10°, DMX/RDM)
Illuminance at Distance (Discrete)	Minimum 1 lx at 372 m (RGB full output, VN 6°, DMX/RDM) Minimum 1 lx at 369 m (RGBW30K full output, VN 6°, DMX/RDM) Minimum 1 lx at 373 m (RGBW40K full output, VN 6°, DMX/RDM) Minimum 1 lx at 337 m (RGBA full output, VN 6°, DMX/RDM)
Illuminance at Distance (Opticolor)	Minimum 1 lx at 217 m (MRGBA full output, NS 10°, DMX/RDM)
Illuminance at Distance (Opticolor+)	Minimum 1 lx at 219 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	6.8 kg
EPA	Front = 0.08 m², Side = 0.02 m², Front 45°= 0.07 m²

Electrical and Control

Voltage	100 to 277 volts
Fixture Cable	Power and data in one cable
Conductors	3C: 3 x 1,5 mm² (LT control) 6C: 3 x 1,5 mm²/ 3 x 0,20 mm² (DMX/RDM control)
Inrush Current (Peak)	55A @230VAC
Control	Lumentalk, DMX/RDM Enabled, DALI 2 T8 Control
Resolution (DMX/RDM)	Per fixture, 8-bit or 16-bit, 3 channels (RGB) or 4 channels (RGBW30K, RGBW40K, RGBA, MRGBA and MRGBWP)

Environmental

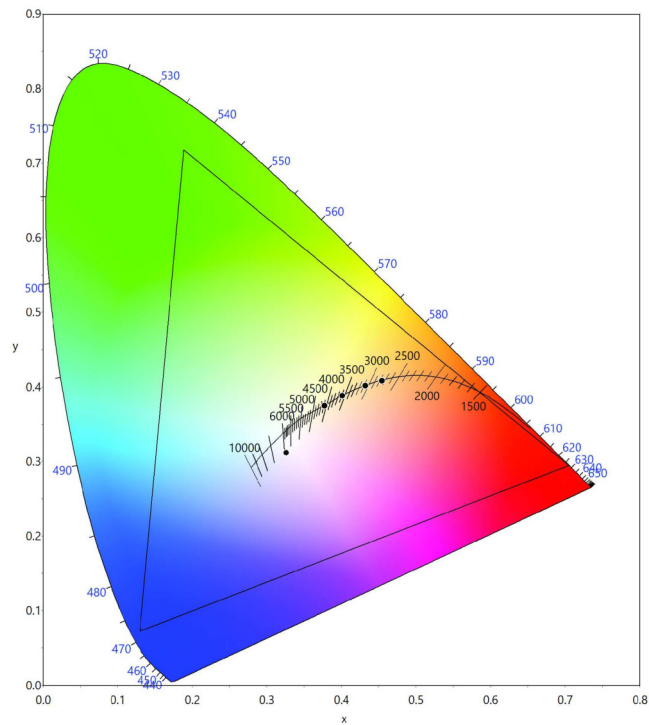
Storage Temperature	-40 °C to 85 °C (device must reach start-up temperature value before operating)
Start-up Temperature	-25 °C to 50 °C
Operating Temperature	-40 °C to 50 °C
Ingress Protection Rating	IP66
Impact Resistance Rating	IK10

Accessories (Order Separately)

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

Colour Point Information

MRGBWP



Dominant Wavelength and Chromaticity

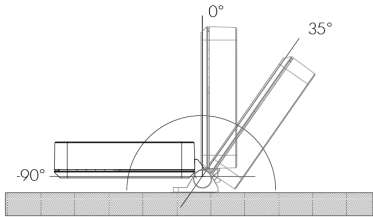
	Dominant Wavelength	Chromaticity	
		Cx	Cy
Red	~628nm	0.7050	0.2949
Green	~531nm	0.1885	0.7178
Blue	~471nm	0.1298	0.0726
Amber	~591nm	0.5755	0.4126

	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

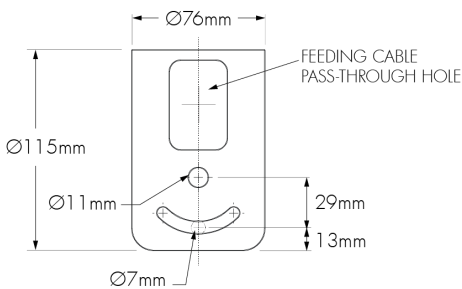
Values measured from Steady State Full on Optidrive @ 25°C ambient conditions.

Mounting Options

SM - Surface Mount

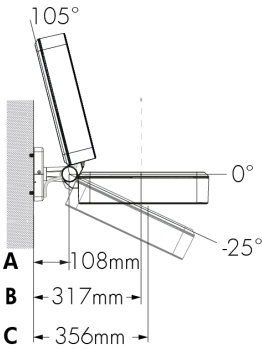


SM - Mounting Hole Pattern

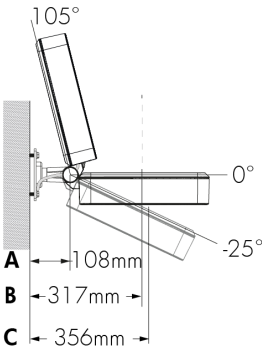


The SM mounting option cannot be interchanged with any other mounting option. All others mountings are interchangeable. Consult factory for details.

WM - Wall Mount Bracket with Decorative Cover

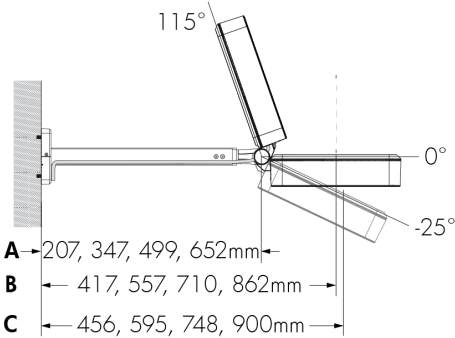


WMNC - Wall Mount Bracket Without Decorative Cover

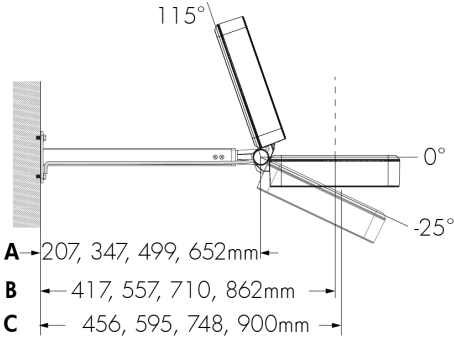


- A - Dimension from wall to pivot.
- B - Dimension from wall to the geometric center of the fixture.
- C - Dimension from wall to the center of the board.

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



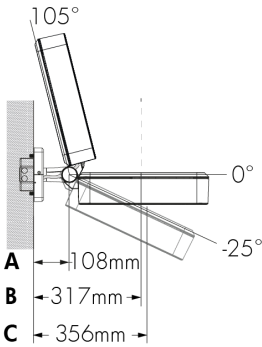
WAMNC - Wall Mount Bracket Without Decorative Cover
152 mm, 305 mm, 457 mm or 610 mm



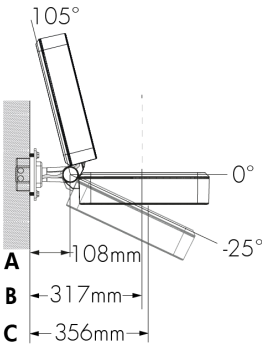
A cable length of 3 m or greater must be specified for the WAM24 mounting option.

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

WMRJB - Recessed JBOX Wall Mount With Decorative Cover



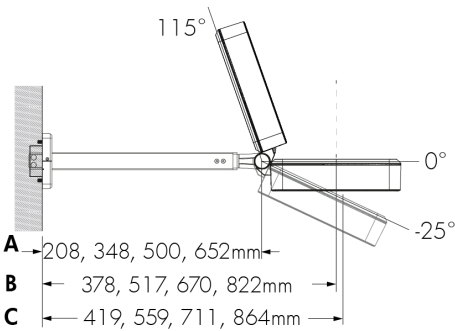
WMRJBNC - Recessed JBOX Wall Mount Without Decorative Cover



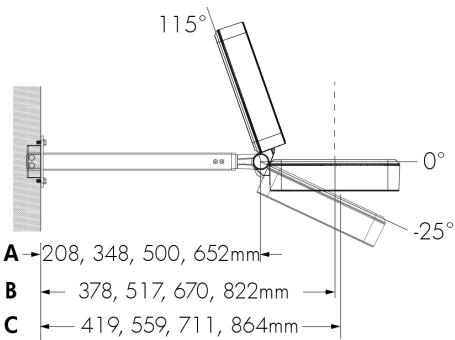
Fixture cable length is determined by Lumenpulse.

Fixture cable length is determined by Lumenpulse.

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

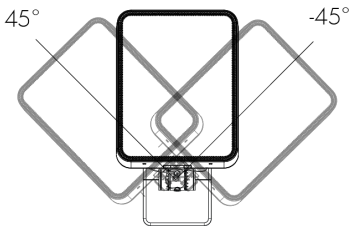


WAMRJBNC - Recessed JBOX Wall Arm Mount
Without Decorative Cover 152 mm, 305 mm,
457 mm or 610 mm

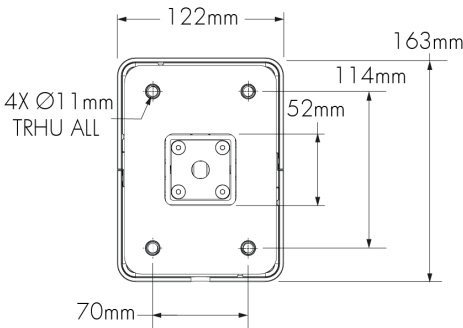


- A - Dimension from wall to pivot.
- B - Dimension from wall to the geometric center of the fixture.
- C - Dimension from wall to the center of the board.

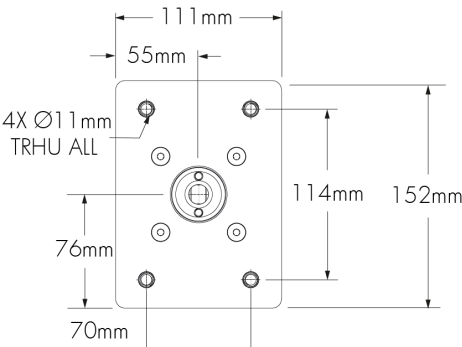
Wall Mount Horizontal Pivot Limits



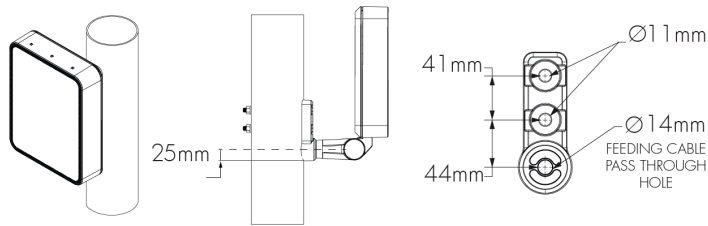
WM, WAM, WMRJB and WAMRJB - Mounting Hole
Pattern



WMNC, WAMNC, WMRJBNC and WAMRJBNC -
Mounting Hole Pattern



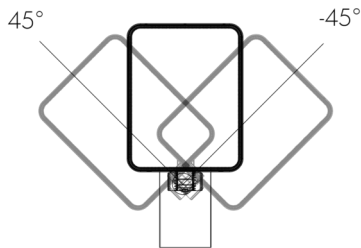
RPM4/1, RPM4.5/1, RPM5/1 - Round Pole Mount



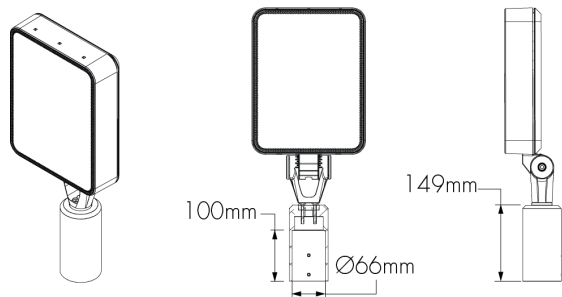
	RPM4/1	RPM4.5/1	RPM5/1
For pole Ø	101.6mm ± 1.6mm	114.3mm ± 1.6mm	127mm ± 1.6mm
Bolt length	133mm	146mm	159mm

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

Round Pole Mount Horizontal Pivot Limits

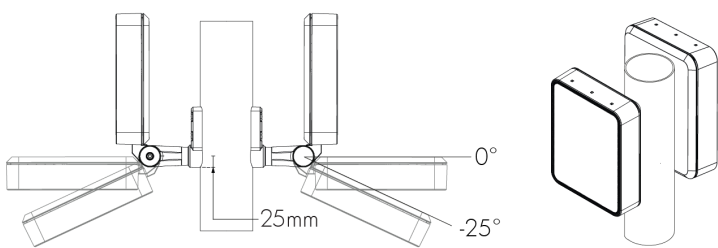


TN2 - Tenon Adapter For 60 mm O.D. Pole



Vertical mounting only. Consult factory for horizontal mounting.

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

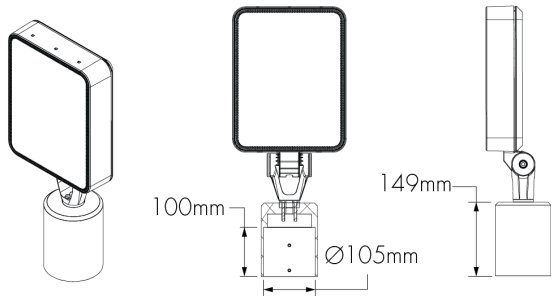


	RPM4/2	RPM4.5/2	RPM5/2
For pole Ø	101.6mm ± 1.6mm	114.3mm ± 1.6mm	127mm ± 1.6mm
Bolt length	146mm	159mm	178mm

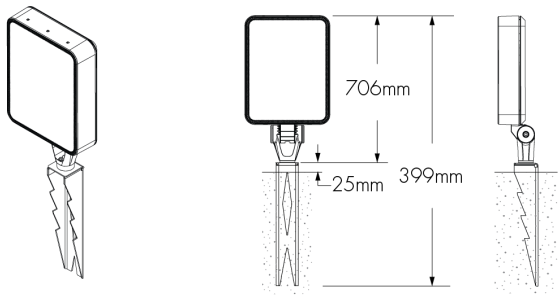
Consult factory for other pole diameters.
Hardware included with accessory.

All mounting options (except for SM mounting) are interchangeable. Consult factory for details.
All mounting options have a pivot adjustable in 6° increments, consult factory for universal pivot option.

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



SK - Stake Mount

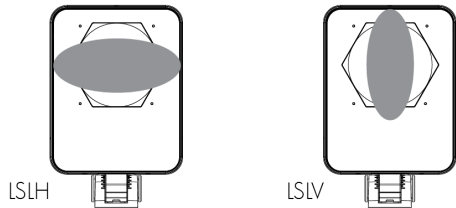


Vertical mounting only. Consult factory for horizontal mounting.

All mounting options (except for SM mounting) are interchangeable. Consult factory for details.
All mounting options have a pivot adjustable in 6° increments, consult factory for universal pivot option.

Optical Options – Discrete

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



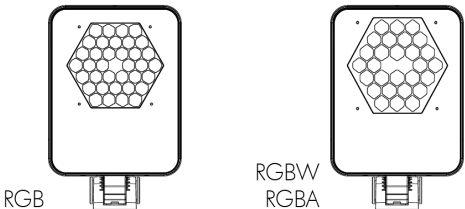
Factory installed, not adjustable on site. Not available for WFL, VWFL, NAS and WW optics.

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



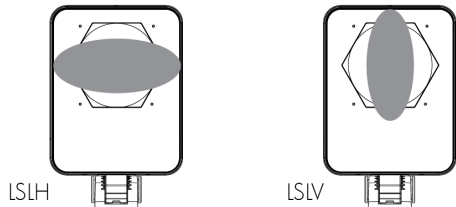
Factory installed, not adjustable on site. HL not available for WFL, VWFL, NAS and WW optics.

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).

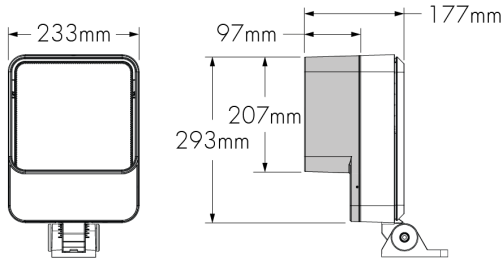
Optic installed in fixture	Beam angle with LSLH/LSLV
NS	11° x 61°
NF	19° x 66°
M	26° x 70°
FL	31° x 71°

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

Optical Accessories (Factory Installed, Order Separately)

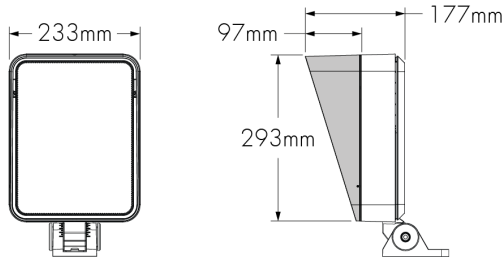
Installed optical accessories will affect the maximum pivot limits for each mounting option, consult factory for details.

SN - Snoot



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

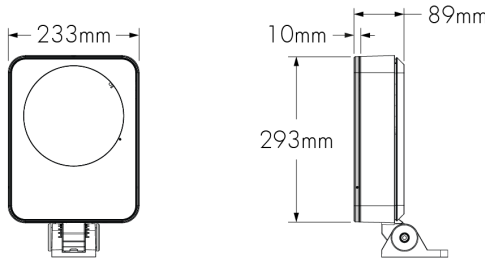
VS - Visor



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

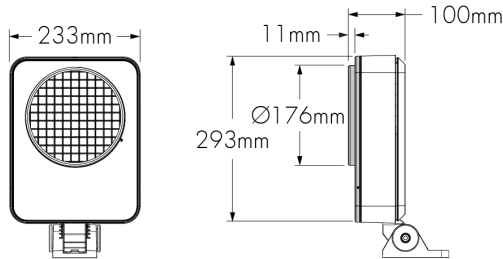
The Visor is not recommended for the WW optic.

LSLA - Linear Spread Lens Adjustable



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

WG - Wire Guard



LQLWG-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 LQLSNWG-BK-BK. A maximum of two accessories can be combined per fixture.

lumenpulse™

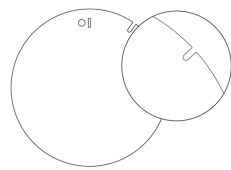
1220 Marie-Victorin Blvd., Longueuil, QC, J4G 2H9, CAN | T 514.937.3003 | 1.877.937.3003 | info@lumenpulse.com
www.lumenpulse.com www.lumenpulse.com/products/5031

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JC - R17

9 / 18

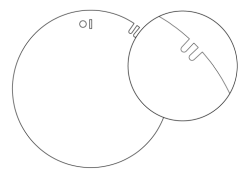
Diffuser Lenses (Intended for Mockup Purposes Only, Order Separately)

Diffuser Lens 1 (1 Notch)



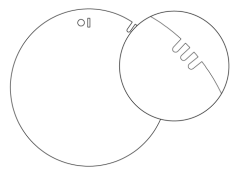
147707

Diffuser Lens 2 (2 Notches)



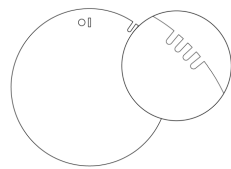
147708

Diffuser Lens 3 (3 Notches)



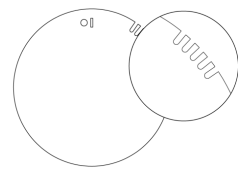
147709

Diffuser Lens 4 (4 Notches)



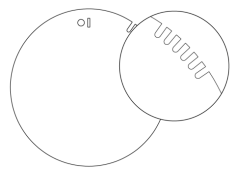
147710

Diffuser Lens 5 (5 Notches)



147711

Diffuser Lens 6 (6 Notches)



147712

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

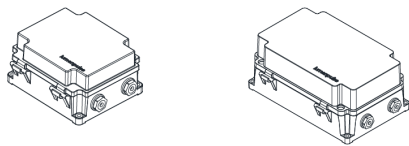
The diffuser lenses are intended for mockup purposes only. A lens holder is required to install a diffuser lens on the fixture, order separately using the following names: **LQS**: LQSLSLA-**FINISH**-LQALK **LQM**: LQMLSLA-**FINISH**-LQALK **LQL**: LQLLSLA-**FINISH**-LQALK **LQG**: LQGSLSLA-**FINISH**-LQALK

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.

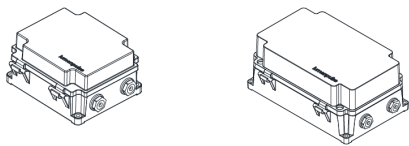
Control Boxes (Order Separately)

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.

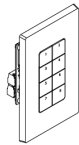
CBX-ENET - Ethernet Enabled (Daisy Chain or Star Configuration)



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.

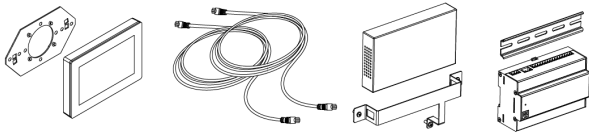
Control Systems (Order Separately)

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.

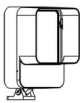
Diagnostic And Addressing Tools (Order Separately)

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*			
	LQL	LQL with Snoot	LQL with Visor	WAM/WAMRJB			
							
EPA Front (m²)	0.078	0.093	0.093	N/A	N/A	N/A	N/A
EPA Side (m²)	0.021	0.055	0.055	0.012	0.027	0.041	0.055
EPA Front 45° (m²)	0.073	0.117	0.117	N/A	N/A	N/A	N/A

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

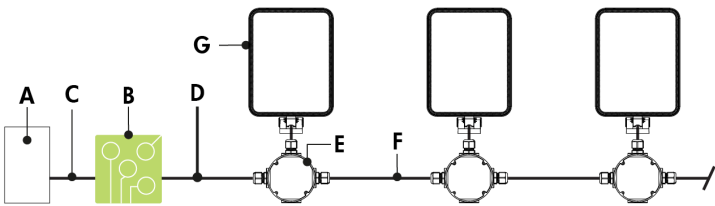
Typical Wiring Diagrams

Wiring Colour Code

CE Colour Code	USE
Yellow/Green	Ground
Brown	Line 100-277V AC
Blue	Line/Neutral
Black 1	1-10V / Data +
Grey	1-10V / Data -
Grey	Signal common (DMX/RDM only)

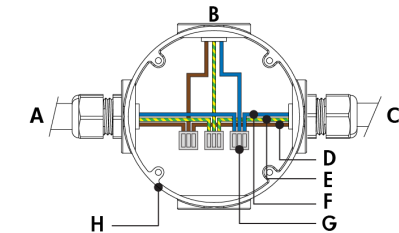
CE Class II Colour Code	USE
Brown	Line 100-277V AC
Blue	Line/Neutral
Black 1	Signal common (DMX/RDM only)
Black 2	1-10V / Data +
Grey	1-10V / Data -

Lumentalk (LT)



- A - DMX/RDM controller (order separately from Lumenpulse, or by others)
- B - Lumentranslator 2 (LTL2-DMX)
- C - Data wiring (by others)
- D - Power line (100-277V, wiring by others)
- E - Junction box (by others)
- F - Power wiring (by others)
- G - Lumenquad Large

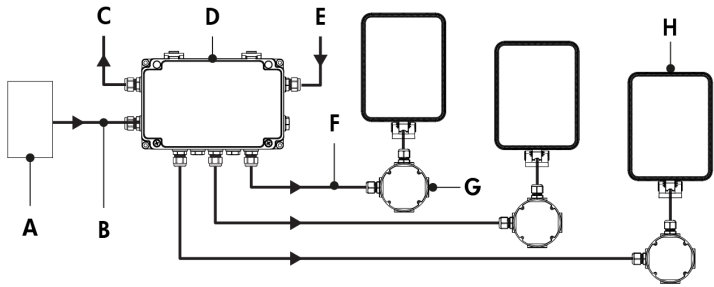
Lumentalk (LT) - Wiring Detail - CE



- 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.
- 50 watts per fixture.

Star Layout (DMX/RDM)

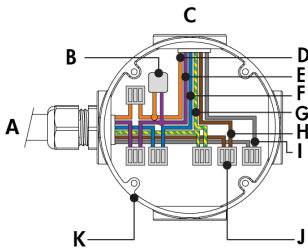


- A - DMX/RDM controller (order separately from Lumenpulse, or by others)
- B - Data input (Belden 9841 or equivalent, by others)
- C - Data output to next CBX (optional, not isolated/not boosted)
- D - CBX-ST
- E - Power input (100-277V, wiring by others)
- F - Power and data output to fixture (wiring by others)
- G - Junction box (by others)
- H - Lumenquad Large

Maximum Fixture Count

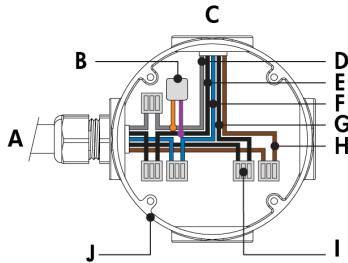
Maximum number of fixtures per run (Based on 1.6A maximum, 1,5mm ² cable, fixtures spaced 3m on center, first fixture 1.5m from CBX)				
Configuration/Voltage	120V	208V	240V	277V
LQL	18	28	32	32

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)

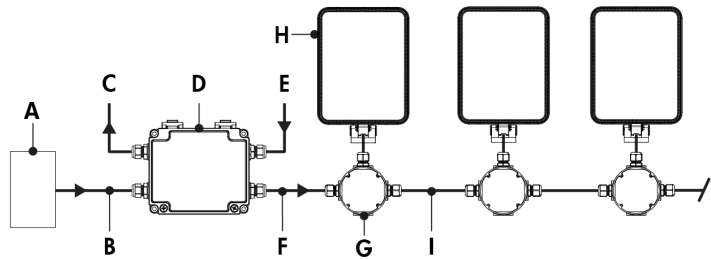
Star Layout (DMX/RDM) - Wiring Detail - CE Class II



- A - From CBX or previous fixture
- B - Lumenterminator*
- C - To fixture
- D - Data -
- E - Signal common (black 1)
- F - Neutral
- G - Data + (black 2)
- H - Line
- I - Terminal connector (by others)
- J - Junction box (by others)

- 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 and 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.
- 50 watts per fixture.

Daisy Chain Layout (DMX/RDM)

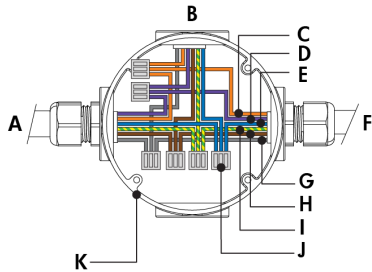


- A - DMX/RDM controller (order separately from Lumenpulse, or by others)
- B - Data input (Belden 9841 or equivalent, by others)
- C - Data output to next CBX (optional, not isolated/not boosted)
- D - CBX-DS
- E - Power input (100-277V, wiring by others)
- F - Power and data output to fixture (wiring by others)
- G - Junction box (by others)
- H - Lumenquad Large
- I - Power and data wiring (by others)

Maximum Fixture Count

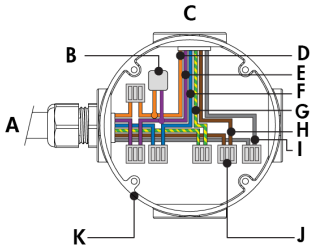
Maximum number of fixtures per run (Based on 1.6A maximum, 1,5mm ² cable, fixtures spaced 3m on center, first fixture 1.5m from CBX)				
Configuration/Voltage	120V	208V	240V	277V
LQL	18	28	32	32

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



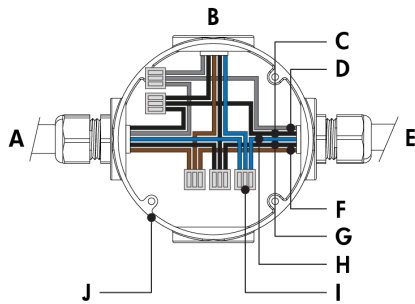
- A - From CBX or previous fixture
- B - To fixture
- C - Data -
- D - Data +
- E - Neutral
- F - To next fixture
- G - Signal common
- H - Line
- I - Ground
- J - Terminal connector (by others)
- K - Junction box (by others)

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



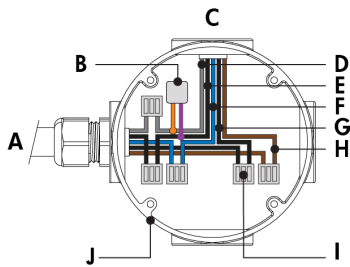
- A - From CBX or previous fixture
- B - Lumenterminator*
- C - To fixture
- D - Data -
- E - Data +
- F - Neutral
- G - Ground
- H - Line
- I - Signal common
- J - Terminal connector (by others)
- K - Junction box (by others)

Daisy Chain Layout (DMX/RDM) - Wiring Detail (First or Middle of Run) - CE Class II



- A - From CBX or previous fixture
- B - To fixture
- C - Signal common (black 1)
- D - Data -
- E - To next fixture
- F - Line
- G - Data + (black 2)
- H - Neutral
- I - Terminal connector (by others)
- J - Junction box (by others)

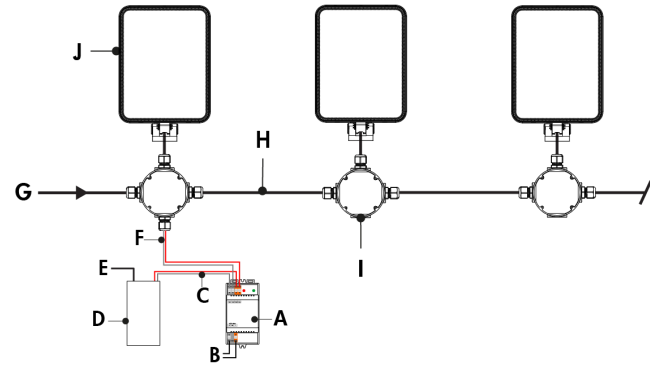
Daisy Chain Layout (DMX/RDM) - Wiring Detail (End of Run) - CE Class II



- A - From CBX or previous fixture
- B - Lumenterminator*
- C - To fixture
- D - Data -
- E - Signal common (black 1)
- F - Neutral
- G - Data + (black 2)
- H - Line
- I - Terminal connector (by others)
- J - Junction box (by others)

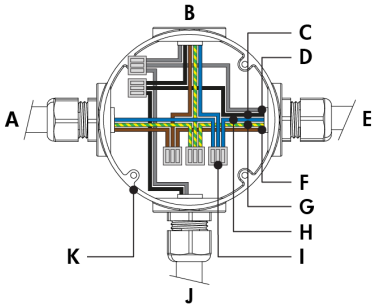
- Consult CBX installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Run length calculations are based on a voltage drop of no more than 25V.
- The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled 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 and 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.
- 50 watts per fixture.

DALI 2 T8 (DALIT8)



- A - DALI bus power supply
- B - Power input for DALI bus power supply (wiring by others)
- C - Data output to DALI controller (by others)
- D - DALI controller (by others)
- E - Power input for DALI controller (if required, wiring by others)
- F - Data output to fixture
- G - Power input (100-277V)
- H - Power and data wiring (by others)
- I - Junction box (by others)
- J - Lumenquad (LQL-DALIT8)

DALI 2 T8 (DALIT8) - Wiring Detail



- 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.
- 100 watts per fixture.
- 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.

How to Order

Housing	Voltage	Colour and Colour Temperature	Optic	Optical Option ⁽¹²⁾	Mounting Options ^{(14) (15) (16)}	Finish	Control	Option	Certification	Cable Length ^{(24) (29) (31)}
LQL Lumenquad Large	100 100 Volts	RGB	VN Very Narrow 6° ^{(8) (9)}	LSLH Linear Spread Lens Horizontal Distribution ⁽¹³⁾	SM Surface Mount	BK Black Sandtex®	LT Lumentalk ^{(21) (22)}	CRC Corrosion-Resistant Coating ^{(26) (27)}	UL UL Compliant ⁽²⁸⁾	1M 1 m ^{(24) (30)}
	120 120 Volts	RGBW30K	NS Narrow Spot 10° ⁽⁸⁾	LSLV Linear Spread Lens Vertical Distribution ⁽¹³⁾	WM Wall Mount Bracket with Decorative Cover	BRZ Bronze Sandtex®	DMX/RDM DMX/RDM Enabled ^{(23) (24)}		CE CE Compliant	5M 5 m
	208 208 Volts	RGBW40K	NF Narrow Flood 20° ⁽⁸⁾	HL Honeycomb Louver ^{(9) (13)}	WMNC Wall Mount Bracket without Decorative Cover	SI Silver Sandtex®	DALI78 DALI 2 T8 Control ^{(7) (25)}		CEI CE Compliant Class II Double Insulated	10M 10 m
	220 220 Volts	RGB + White 4000K ⁽¹⁾	M Medium 30° ⁽⁸⁾		WAM6 Wall Arm Mount 152 mm with Decorative Cover	WH Smooth White				15M 15 m
	240 240 Volts	RGBA RGB + Amber	FL Flood 40° ⁽⁸⁾		WAM6NC Wall Arm Mount 152 mm without Decorative Cover	BKTX Textured Black				20M 20 m
	277 277 Volts	MRGBA Opticolor with MRGBA Amber ^{(1) (2) (3)}	WFL Wide Flood 60° ⁽⁸⁾		WAM12 Wall Arm Mount 305 mm with Decorative Cover	BRZTX Textured Bronze Non-Metallic				30M 30 m
		MRGBWP MRGBW With Opticolor+™ ^{(3) (4) (5) (6) (7)}	VWFL Very Wide Flood 90° ^{(8) (10) (11)}		WAM12NC Wall Arm Mount 305 mm without Decorative Cover	GRATX Textured Medium Grey				
			NAS Narrow Asymmetric ^{(8) (9)}		WAM18 Wall Arm Mount 457 mm with Decorative Cover	GRNTX Textured Green				
			WW Asymmetric Wallwash ^{(8) (9)}		WAM18NC Wall Arm Mount 457 mm without Decorative Cover	WHTX Textured White				
					WAM24 Wall Arm Mount 610 mm with Decorative Cover ⁽¹⁷⁾	CC Custom Colour & Finish ^{(18) (19) (20)}				
					WAM24NC Wall Arm Mount 610 mm without Decorative Cover ⁽¹⁷⁾					
					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					

Notes:

1. Consult factory for availability of other colour options such as Royal Blue.
2. Not available for VN, NAS and WW optics.
3. Consult factory for the availability of more colour and CCT options (e.g. royal blue).
4. Not available for VN, NAS and WW optics.
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 DALI2 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. All mounting options (except for SM mounting) are interchangeable. Consult factory for details.
16. All mounting options have a pivot adjustable in 6° increments, consult factory for universal pivot option.
17. A cable length of 3 m or greater must be specified.

18. 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.
19. Setup charges apply for RAL colours. Consult factory for details.
20. Longer lead times can be expected for custom RAL colour finishes.
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. Not available with CEI certification option.
23. A Control Box (CBX) and LumenID (LID) must be specified.
24. Maximum of 1 m cable length for daisy chain DMX applications with CBX-DS.
25. DALI 2 T8 controller required, provided by others. DALI2 T8 control uses a single DALI short address.
26. Use only when exposed to salt spray. This option is not required for normal outdoor exposure.
27. Setup charges apply. Consult factory for details.
28. Consult North American specification sheets and installation instructions for UL wiring information.
29. 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.
30. Not available with WAM24 or WAM24NC mounting options.
31. 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.