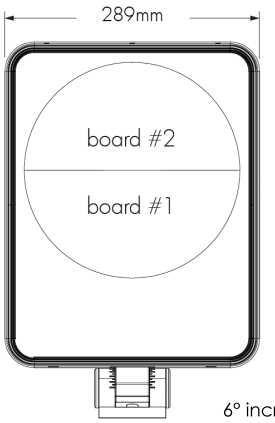
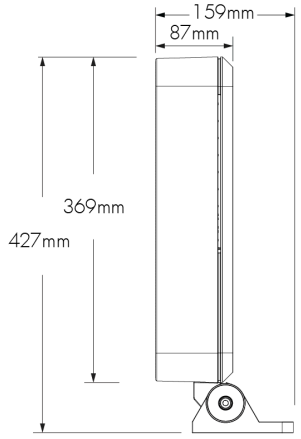
Project Name _____ **Qty** _____

Type _____ **Catalog / Part Number** _____



Front view
6° increment pivot



Side view

Photometric Summary (Discrete RGBW40K)

Symmetric

	Delivered output (lm)	Intensity (peak cd)
XN (3°)	4,669	430,170
VN (6°)	5,079	351,460
NS (10°)	5,049	189,556
NF (20°)	4,425	37,332
M (30°)	4,483	18,931
FL (40°)	4,465	12,309
WFL (60°)	4,599	4,775
Asymmetric		
NAS	3,829	63,368 (@2.5°)
WW	4,303	18,755 (@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°)	4,891	86,649
NF (20°)	4,375	28,226
M (30°)	4,255	15,349
FL (40°)	4,405	11,899
WFL (60°)	4,233	4,330

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 Grande Colour Changing has a sleek 87 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 Grande 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)
XN: XN (3° or 5°)
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)

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Photometric Summary (Opticolor MRGBA)

Symmetric

	Delivered output (lm)	Intensity (peak cd)
NS (10°)	4,754	84,223
NF (20°)	4,253	27,435
M (30°)	4,136	14,919
FL (40°)	4,282	11,566
WFL (60°)	4,114	4,209

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


Extra Narrow 4° or 5°


Very Narrow 6°


Narrow Spot 10°


Narrow Flood 20°


Medium 30°


Flood 40°


Very Wide Flood 90°


Wide Flood 60°


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

lumentalk

DMX/RDM

DALI T8

Ratings

IP66 IK10

Certifications

c 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	100 W
Warranty	5-year limited warranty

Performance

Maximum Delivered Output (Discrete)	5,143 lm (RGB full output, VN 6°, DMX/RDM) 4,977 lm (RGBW30K full output, VN 6°, DMX/RDM) 5,079 lm (RGBW40K full output, VN 6°, DMX/RDM) 4,149 lm (RGBA full output, VN 6°, DMX/RDM)
Maximum Delivered Output (Opticolor)	4,754 lm (MRGBA full output, NS 10°, DMX/RDM)
Maximum Delivered Output (Opticolor+)	4,891 lm (MRGBWP full output, NS 10°, DMX/RDM)
Maximum Delivered Intensity (Discrete)	357,498 cd at nadir (RGB full output, XN 5°, DMX/RDM) 421,567 cd at nadir (RGBW30K full output, XN 3°, DMX/RDM) 430,170 cd at nadir (RGBW40K full output, XN 3°, DMX/RDM) 351,449 cd at nadir (RGBA full output, XN 3°, DMX/RDM)
Maximum Delivered Intensity (Opticolor)	84,223 cd at nadir (MRGBA full output, NS 10°, DMX/RDM)
Maximum Delivered Intensity (Opticolor+)	86,649 cd at nadir (RGBW30K full output, XN 3°, DMX/RDM)
Illuminance at Distance (Discrete)	Minimum 1 lx at 600 m (RGB full output, XN 5°, DMX/RDM) Minimum 1 lx at 652 m (RGBW30K full output, XN 3°, DMX/RDM) Minimum 1 lx at 659 m (RGBW40K full output, XN 3°, DMX/RDM) Minimum 1 lx at 595 m (RGBA full output, XN 3°, DMX/RDM)
Illuminance at Distance (Opticolor)	Minimum 1 lx at 290 m (MRGBA full output, NS 10°, DMX/RDM)
Illuminance at Distance (Opticolor+)	Minimum 1 lx at 294 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

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Gasket Material	Silicone
Surface Finish	Electrostatically applied polyester powder coat
Weight	10.43 kg
EPA	Front = 0.12 m², Side = 0.03 m², Front 45° = 0.11 m²

Electrical and Control

Voltage	100 to 277 volts
Fixture Cable	Power and data in one cable
Conductors	3C: 3 x 1,5 mm^2 (LT control) 6C: 3 x 1,5 mm^2/ 3 x 0,20 mm^2 (DMX/RDM control)
Inrush Current (Peak)	20A @277VAC
Control	Lumentalk, DMX/RDM Enabled, DALI 2 T8 Control
Resolution (DMX/RDM)	Per board or fixture (configured with LumenID V3 software), 8-bit or 16-bit, 3 channels (RGB) or 4 channels (RGBW30K, RGBW40K and RGBA)

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, 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)

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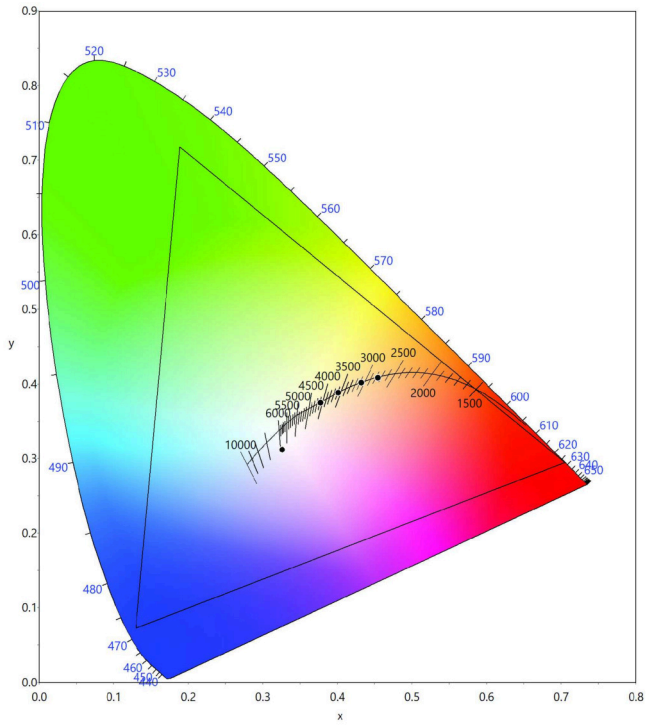
Colour Point Information

MRGBWP



Dominant Wavelength and Chromaticity

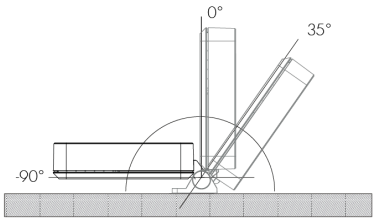
	Dominant Wavelength	Chromaticity	
		Cx	Cy
Red	~628nm	0.7050	0.2949
Green	~531nm	0.1885	0.7178
Blue	~471nm	0.1298	0.0726
Amber	~591nm	0.5755	0.4126

	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

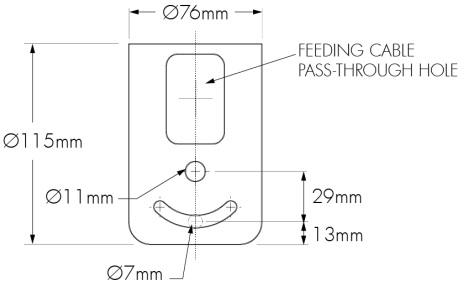
Values measured from Steady State Full on Optidrive @ 25°C ambient conditions.

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.

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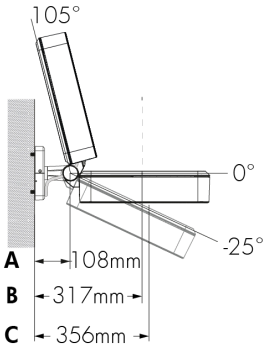
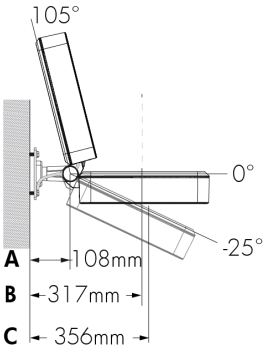
WM - Wall Mount Bracket with Decorative Cover



WMNC - Wall Mount Bracket Without Decorative Cover

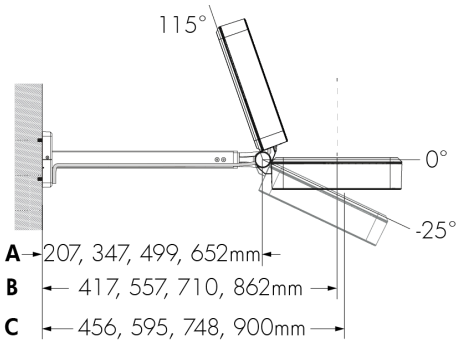


A - Dimension from wall to pivot.

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

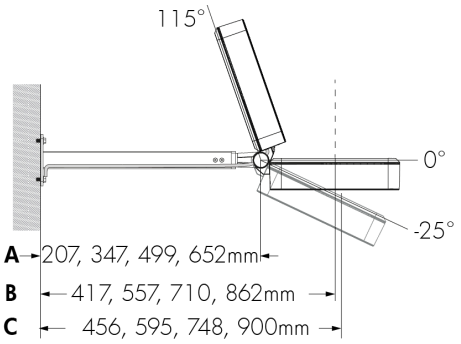
C - Dimension from wall to the center of the board.

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



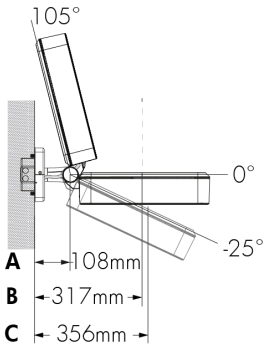
A cable length of 3 m or greater must be specified for the WAM24 mounting option.

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



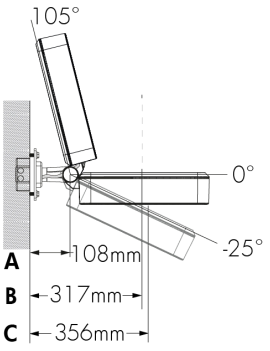
A cable length of 3 m or greater must be specified for the WAM24 mounting option.

WMRJB - Recessed JBOX Wall Mount With Decorative Cover



Fixture cable length is determined by Lumenpulse.

WMRJBNC - Recessed JBOX Wall Mount Without Decorative Cover



Fixture cable length is determined by Lumenpulse.

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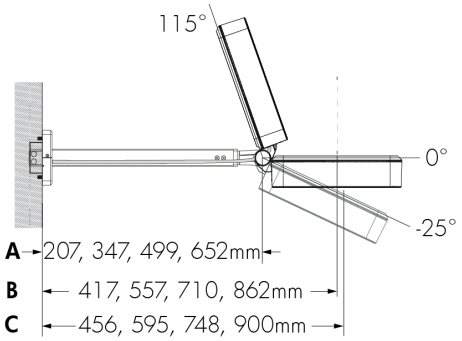
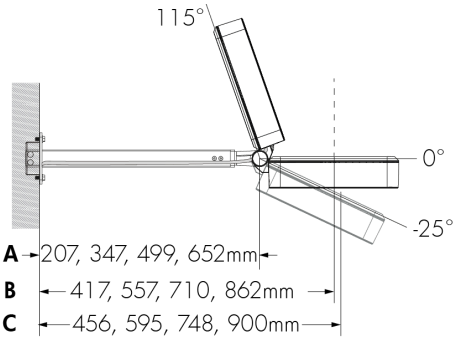
WAMRJB - Recessed JBOX Wall Arm Mount With Decorative Cover 152 mm, 305 mm, 457 mm or 610 mm



Fixture cable length is determined by Lumenpulse.

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



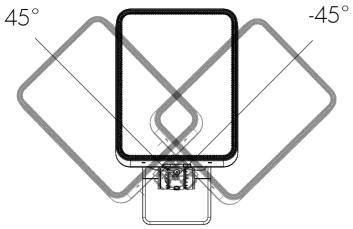
Fixture cable length is determined by Lumenpulse.

A - Dimension from wall to pivot.

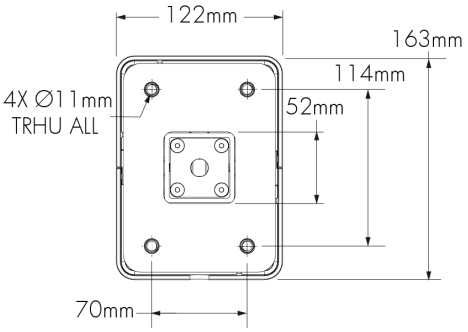
B - Dimension from wall to the geometric center of the fixture.

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

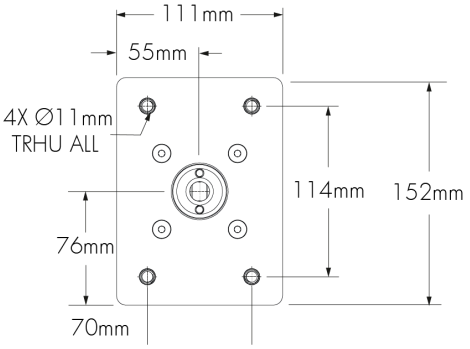
Wall Mount Horizontal Pivot Limits



WM, WAM, WMRJB and WAMRJB - Mounting Hole Pattern



WMNC, WAMNC, WMRJBNC and WAMRJBNC - Mounting Hole Pattern



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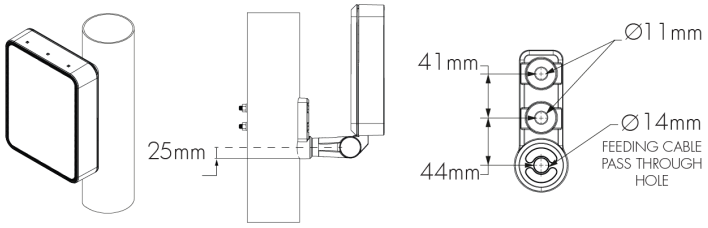
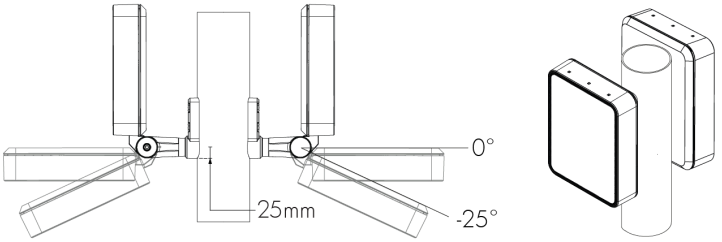
RPM4/1, RPM4.5/1, RPM5/1 - Round Pole Mount



	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.

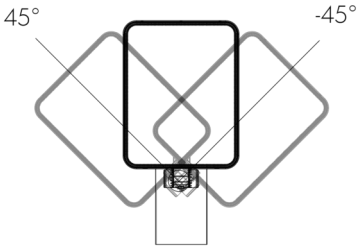
RPM4/2, RPM4.5/2, RPM5/2 - Round Pole Mount For Two Fixtures



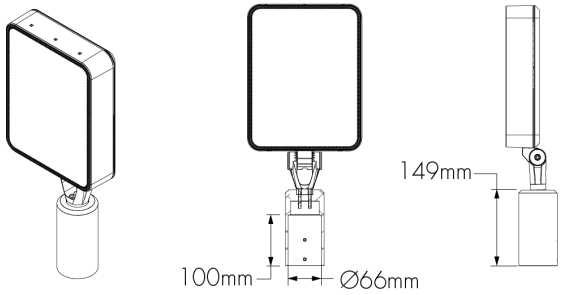
	RPM4/2	RPM4.5/2	RPM5/2
For pole Ø	101.6mm ± 1.6mm	114.3mm ± 1.6mm	127mm ± 1.6mm
Bolt length	146mm	159mm	178mm

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

Round Pole Mount Horizontal Pivot Limits



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



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.

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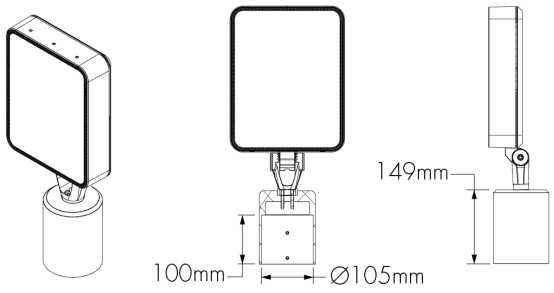
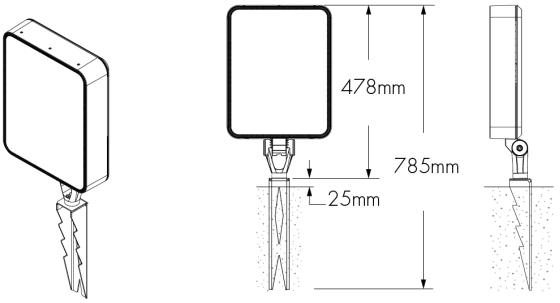
TN4 - Tenon Adapter For 102 mm O.D. Pole



SK - Stake Mount

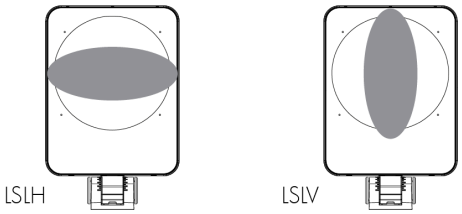


Vertical mounting only. Consult factory for horizontal mounting.

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



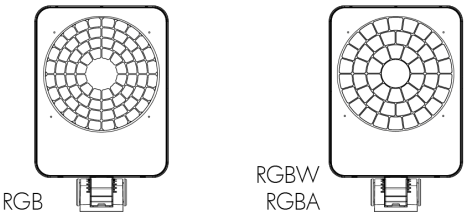
	Beam angle with LSLH/LSLV
XN	5° x 60°
VN	7° x 60°
NS	9° x 60°
NF	16° x 65°
M	25° x 66°
FL	35° x 70°

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

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

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

HL - Honeycomb Louver

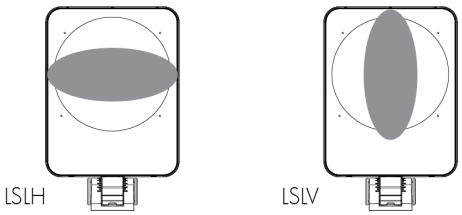


Factory installed, not adjustable on site. HL not available for WFL, VWFL, NAS and WW optics.

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

Optical Options - Opticolor™ and Opticolor+

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



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.

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

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

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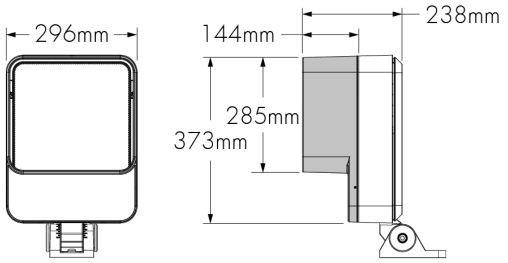
Optical Accessories (Factory Installed, Order Separately)

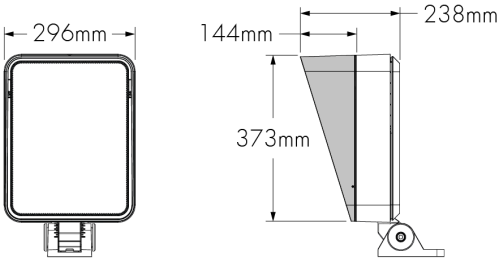
Installed optical accessories will affect the maximum pivot limits for each mounting option, consult factory for details.

SN - Snoot



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

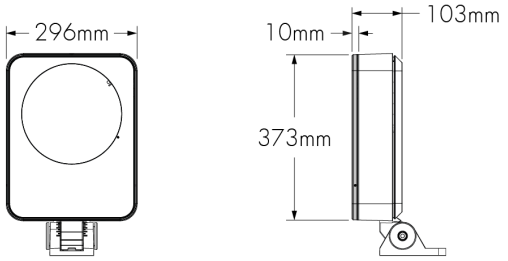
VS - Visor



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

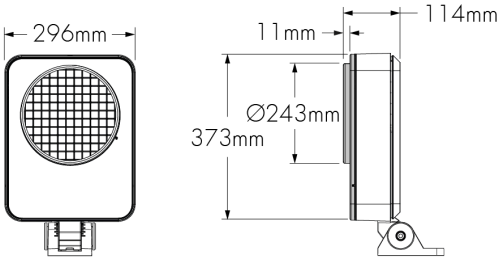
The Visor is not recommended for the WW optic.

LSLA - Linear Spread Lens Adjustable



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

WG - Wire Guard



LQGWG-**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 LQGSNWG-BK-BK. A maximum of two accessories can be combined per fixture.

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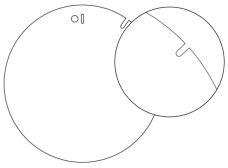
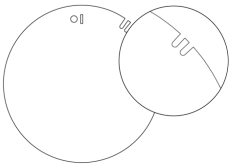
Diffuser Lenses (Intended for Mockup Purposes Only, Order Separately)

Diffuser Lens 1 (1 Notch)



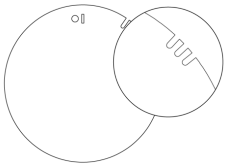
147713

Diffuser Lens 2 (2 Notches)



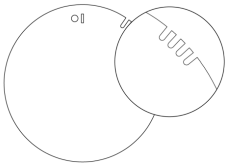
147714

Diffuser Lens 3 (3 Notches)



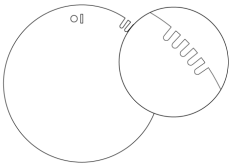
147715

Diffuser Lens 4 (4 Notches)



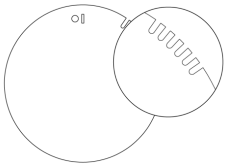
147716

Diffuser Lens 5 (5 Notches)



147717

Diffuser Lens 6 (6 Notches)



147718

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	VWFL
VN (6°)	NS					
NS (10°)						
NF (20°)						
M (30°)				FL	VWFL	
FL (40°)						
WFL (60°)						VWFL
VWFL (90°)						

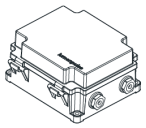
Choose a diffuser lens based on the desired final beam distribution. Refer to the 6-digit part numbers above to order diffuser lenses individually. To order a complete set of 6 diffuser lenses in a bag, refer to the following item names: **LQS:** LQALK-S **LQM:** LQALK-M **LQL**: LQALK-L **LQG:** LQALK-G

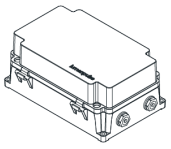
The diffuser lenses are intended for mockup purposes only. A lens holder is required to install a diffuser lens on the fixture, order separately using the following names: **LQS:** LQSLSLA-**FINISH**-LQALK **LQM:** LQMLSLA-**FINISH**-LQALK **LQL:** LQLLSLA-**FINISH**-LQALK **LQG:** LQGLSLA-**FINISH**-LQALK

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)

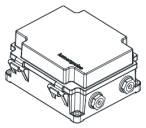
CBX-DMX/RDM - DMX/RDM Enabled (Daisy Chain or Star Configuration)

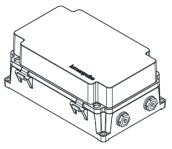




DMX/RDM control box. Up to six power and data outputs to fixtures or fixture runs. Consult CBX specification sheet and installation instructions for details. Lumenterminators provided with CBX (2x for daisy chain configuration, 6x for star configuration), consult factory to order spares.

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.

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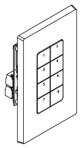
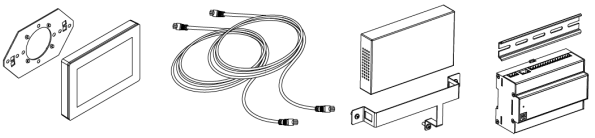
Control Systems (Order Separately)

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.

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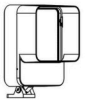
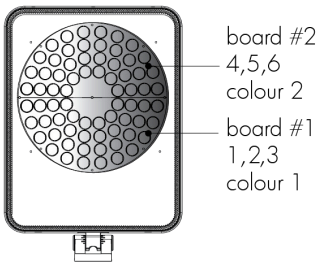
EPA Guide

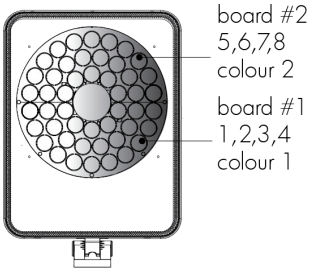
	FIXTURE			MOUNTING OPTIONS*			
	LQG 	LQG with Snoot 	LQG with Visor 	WAM/WAMRJB 			
				6	12	18	24
EPA Front (m²)	0.124	0.147	0.147	N/A	N/A	N/A	N/A
EPA Side (m²)	0.032	0.094	0.094	0.012	0.027	0.041	0.055
EPA Front 45° (m²)	0.115	0.191	0.191	N/A	N/A	N/A	N/A

Resolution Details (Discrete)

Resolution Per Board: Each Board is Addressed Independently
DMX Addresses:

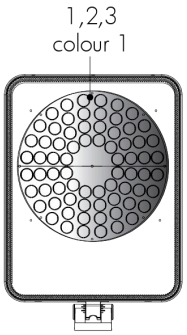


RGB colour mixing option

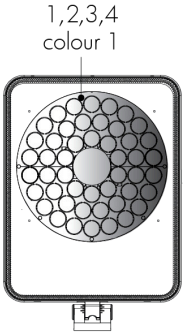


RGBW30K, RGBW40K and RGBA colour mixing options

Resolution Per Fixture: Each Fixture Is Addressed Independently
DMX Addresses:



RGB colour mixing option



RGBW30K, RGBW40K and RGBA colour mixing options

Fixture resolution can be configured on-site within the LumenID V3 software.

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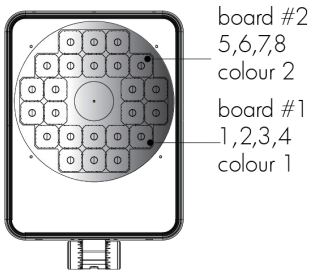
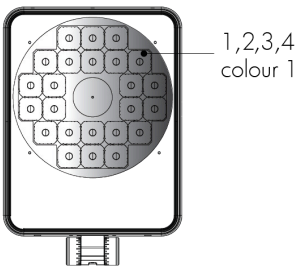
Resolution Details (Opticolor and Opticolor+)

Resolution Per Board: Each Board is Addressed Independently
DMX Addresses:



MRGBA and MRGBWP colour mixing options

Resolution Per Fixture: Each Fixture Is Addressed Independently
DMX Addresses:



MRGBA and MRGBWP colour mixing options

Fixture resolution can be configured on-site within the LumenID V3 software.

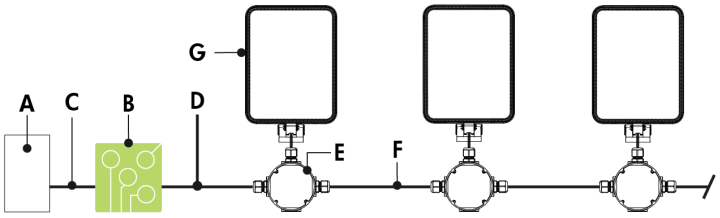
Typical Wiring Diagrams

Wiring Colour Code

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

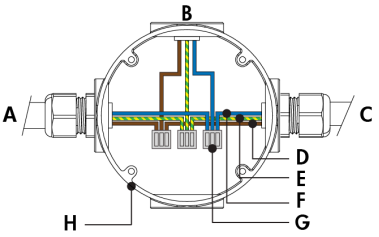
CE Class II Colour Code	USE
Brown	Line 100-277V AC
Blue	Line/Neutral
Black 1	Signal common (DMX/RDM only)
Black 2	1-10V / Data +
Grey	1-10V / Data -

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 Grande

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.
- 100 watts per fixture.

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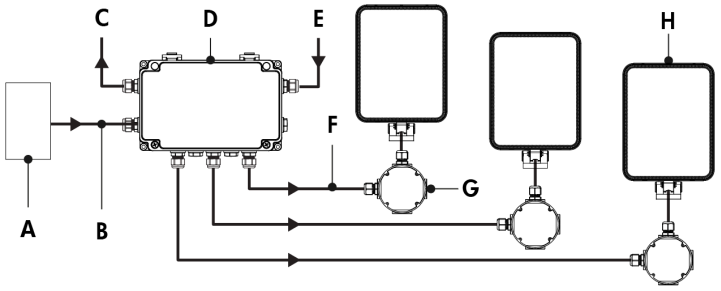
Star Layout (DMX/RDM)



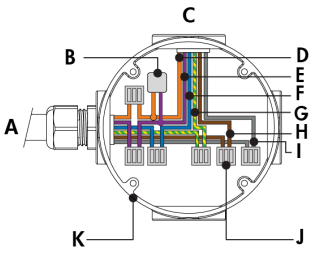
A - DMX/RDM controller (order separately from Lumenpulse, or by others)
B - Data input (Belden 9841 or equivalent, by others)
C - Data output to next CBX (optional, not isolated/not boosted)
D - CBX-ST
E - Power input (100-277V, wiring by others)
F - Power and data output to fixture (wiring by others)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

Maximum Fixture Count

Maximum number of fixtures per run
(Based on16A maximum, 1,5mm² cable, fixtures spaced 3m on center, first fixture 15m from CBX)

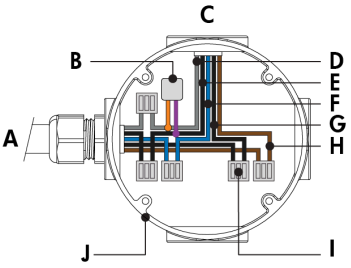
Configuration/Voltage	120V	208V	240V	277V
LQG	10	16	18	21

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)

- Refer to 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.
- 100 watts per fixture.

* DMX terminator is required at the end of each run to maintain data integrity. (6x) DMX lumenterminators included per CBX-ST. See installation instructions for details.

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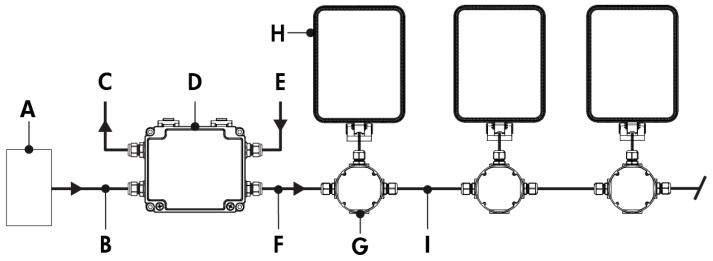
Daisy Chain Layout (DMX/RDM)

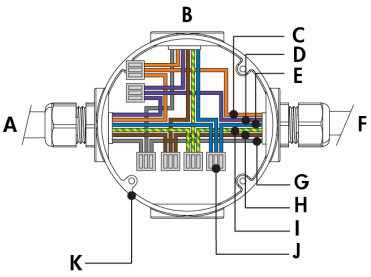


A - DMX/RDM controller (order separately from Lumenpulse, or by others)
B - Data input (Belden 9841 or equivalent, by others)
C - Data output to next CBX (optional, not isolated/not boosted)
D - CBX-DS
E - Power input (100-347V, wiring by others)
F - Power and data output to fixture (wiring by others)
G - Junction box (by others)
H - Lumenquad Grande
I - Power and data wiring (by others)

Maximum Fixture Count

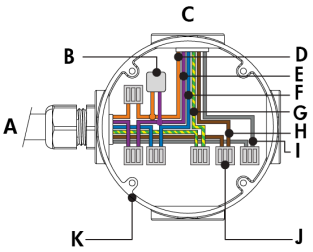
Maximum number of fixtures per run (Based on16A maximum, 1,5mm² cable, fixtures spaced 3m on center, first fixture 15m from CBX)				
Configuration/Voltage	**120V**	**208V**	**240V**	**277V**
LQG	10	16	18	21

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)

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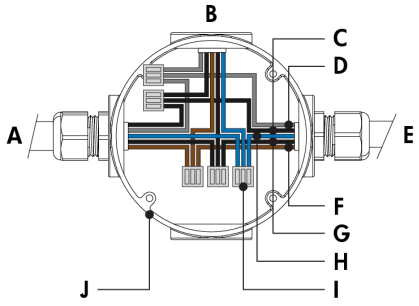
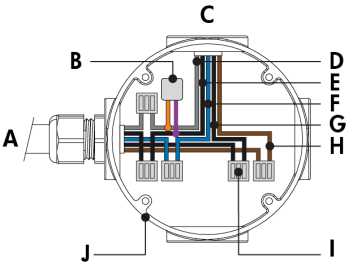
Daisy Chain Layout (DMX/RDM) - Wiring Detail (First or Middle of Run) - CE Class II



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)

- Refer to 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 colour mixture options require 4 DMX addresses. RGBA colour mixture option requires 4 DMX addresses.
- 100 watts per fixture.

* DMX terminator is required at the end of each run to maintain data integrity. (2x) DMX lumenterminators included per CBX-DS. See installation instructions for details.

- Refer to 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.
- 100 watts per fixture.

* DMX terminator is required at the end of each run to maintain data integrity. (2x) DMX lumenterminators included per CBX-DS. See installation instructions for details.

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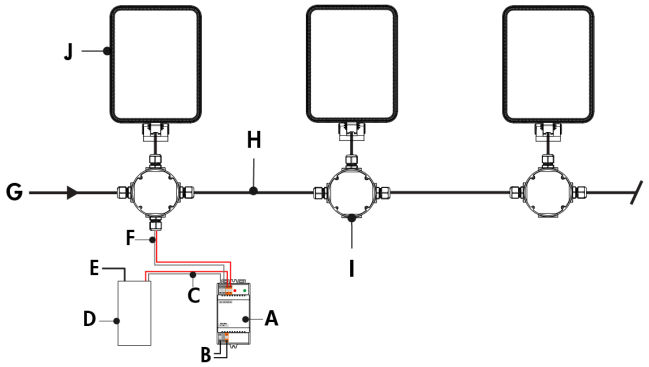
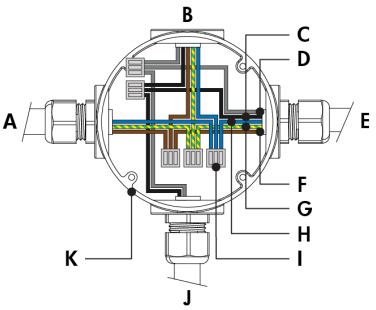
DALI 2 T8 (DALIT8)



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.

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How to Order

Housing	Voltage	Colour and Colour Temperature	Optic1	Optic2	Optical Option [15]
LQG Lumenquad Grande	**100** 100 Volts **120** 120 Volts **208** 208 Volts **220** 220 Volts **240** 240 Volts **277** 277 Volts	**RGB** RGB **RGBW30K** RGB + White 3000K [1] **RGBW40K** RGB + White 4000K [1] **RGBA** RGB + Amber **MRGBA** Opticolor with MRGBA Amber [2] [3] [4] **MRGBWP** MRGBW With Opticolor+™ [2] [3] [4] [5] [6] [7]	**XN** Extra Narrow 3° or 5° [8] [9] [10] **VN** Very Narrow 6° [9] [10] **NS** Narrow Spot 10° [9] **NF** Narrow Flood 20° [9] **M** Medium 30°[9] [11] **FL** Flood 40° [9] **WFL** Wide Flood 60° [9] [12] **VWFL** Very Wide Flood 90° [9] [12] [13] [14] **NAS** Narrow Asymmetric [9] [10] **WW** Asymmetric Wallwash [9] [10]	**XN** Extra Narrow 3° or 5° [8] [9] [10] **VN** Very Narrow 6° [9] [10] **NS** Narrow Spot 10° [9] **NF** Narrow Flood 20° [9] **M** Medium 30°[9] [11] **FL** Flood 40° [9] **WFL** Wide Flood 60° [9] [12] **VWFL** Very Wide Flood 90° [9] [12] [13] [14] **NAS** Narrow Asymmetric [9] [10] **WW** Asymmetric Wallwash [9] [10]	**LSLH** Linear Spread Lens Horizontal Distribution [16] **LSLV** Linear Spread Lens Vertical Distribution [16] **HL** Honeycomb Louver [10] [16]

Notes:

1. Consult factory for availability of other colour options such as Royal Blue.
2. Not available with XN, VN, NAS and WW optics.
3. Consult factory for the availability of more colour and CCT options (e.g. royal blue).
4. The same optic option must be specified for both boards when MRGBA or MRGBWP is selected.
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 DALI T8 applications with MRGBWP and a CCT other than 3000K.
8. Nominal distribution is 3° for RGBW30K, RGBW40K and RGBA colour options, and 5° for RGB.
9. Factory installed, not interchangeable on site.
10. Not available with MRGBA and MRGBWP colour temperature options.
11. Cannot be combined with other optics when RGB, RGBW30K, RGBW40K and RGBA colour temperatures are specified.
12. Cannot be combined with other optics.
13. Available with MRGBA and MRGBWP colour temperature options only.
14. Consult factory for photometric performance.
15. Optical options are factory installed and cannot be changed in the field.
16. Not available with WFL, VWFL, NAS and WW optics.

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How to Order

Mounting Options [17] [18]	Finish	Control	Option	Certification	Cable Length [25] [31] [33]
SM Surface Mount	**BK** Black Sandtex®	**LT** Lumentalk [23]	**CRC** Corrosion-Resistant Coating [27] [28]	**UL** UL Compliant [29]	**1M** 1 m [25] [32]
WM Wall Mount Bracket with Decorative Cover	**BRZ** Bronze Sandtex®	**DMX/RDM** DMX/RDM Enabled [24] [25]		**CE** CE Compliant	**5M** 5 m
WMNC Wall Mount Bracket without Decorative Cover	**SI** Silver Sandtex®	**DALIT8** DALI 2 T8 Control [7] [26]		**CEII** CE Compliant Class II Double Insulated [30]	**10M** 10 m
WAM6 Wall Arm Mount 152 mm with Decorative Cover	**WH** Smooth White				**15M** 15 m
WAM6NC Wall Arm Mount 152 mm without Decorative Cover	**BKTX** Textured Black				**20M** 20 m
WAM12 Wall Arm Mount 305 mm with Decorative Cover	**BRZTX** Textured Bronze Non-Metallic				**30M** 30 m
WAM12NC Wall Arm Mount 305 mm without Decorative Cover	**GRATX** Textured Medium Grey				
WAM18 Wall Arm Mount 457 mm with Decorative Cover	**GRNTX** Textured Green				
WAM18NC Wall Arm Mount 457 mm without Decorative Cover	**WHTX** Textured White				
WAM24 Wall Arm Mount 610 mm with Decorative Cover [19]	**CC** Custom Colour & Finish [20] [21] [22]				
WAM24NC Wall Arm Mount 610 mm without Decorative Cover [19]					
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					

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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:

7. Consult factory for DALIT8 applications with MRGBWP and a CCT other than 3000K.
17. All mounting options (except for SM mounting) are interchangeable. Consult factory for details.
18. All mounting options have a pivot adjustable in 6° increments, consult factory for universal pivot option.
19. A cable length of 3 m or greater must be specified.
20. 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.
21. Setup charges apply for RAL colours. Consult factory for details.
22. Longer lead times can be expected for custom RAL colour finishes.
23. A Lumentranslator 2 (LTL2) and LumentalkID (LIDLT) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.
24. A control box (CBX) and LumenID (LID) must be specified.
25. Maximum of 1 m cable length for daisy chain DMX applications with CBX-DS.
26. DALI 2 T8 controller required, provided by others. DALI2 T8 control uses a single DALI short address.
27. Use only when exposed to salt spray. This option is not required for normal outdoor exposure.
28. Setup charges apply. Consult factory for details.
29. Consult North American specification sheets and installation instructions for UL wiring information.
30. Available for 220 or 240 volts only.
31. 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.
32. Not available with WAM24 or WAM24NC mounting options.
33. 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.

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