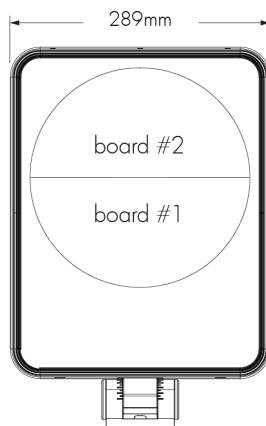


Project Name \_\_\_\_\_ Qty \_\_\_\_\_

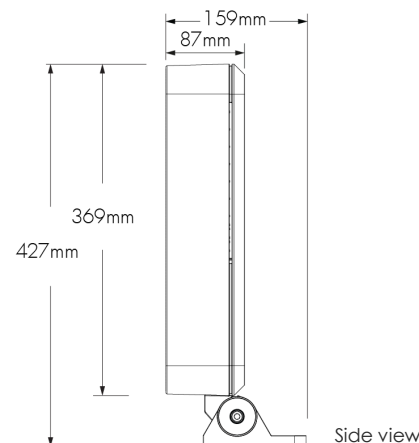
Type **G** Catalog / Part Number \_\_\_\_\_



6° increment pivot



Front view



Side view

## Photometric Summary

### Symmetric

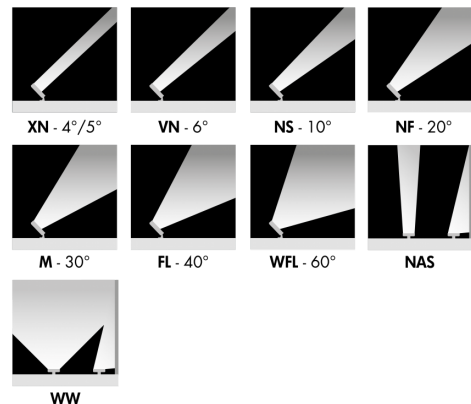
	Delivered output (lm)	Intensity (peak cd)
<b>XN (4°)</b>	3912	351,334
<b>VN (6°)</b>	4615	319,392
<b>NS (10°)</b>	4589	172,261
<b>NF (20°)</b>	4025	33,951
<b>M (30°)</b>	4069	17,181
<b>FL (40°)</b>	4061	11,194
<b>WFL (60°)</b>	4181	4340

### Asymmetric

<b>NAS</b>	3481	57,605 (@2.5°)
<b>WW</b>	3914	17,056 (@5°)

Based on RGBW40K full output, DMX/RDM configuration.  
Photometric performance is measured in compliance with IESNA LM-79-08.

## Optics



## Colours and Colour Temperatures



## Description

The Lumenquad Grande Colour Changing, 100W LED luminaire, 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 latest generation of 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 options including optics for wallwash and floodlighting, RGB, RGBW, or RGBA colour mixing, various mounting options, accessories, controls, and multiple standard finishes, as well as Legacy or Custom output modes.

## Features

<b>Colour and Colour Temperature</b>	Additive RGB, Additive RGB + white 3000K, Additive RGB + white 4000K, Additive RGB + amber
<b>Optics (nominal distribution)</b>	XN (4° or 5°), VN (6°), NS (10°), NF (20°), M (30°), FL (40°), WFL (60°), NAS (Narrow Asymmetric), WW (Asymmetric Wallwash)
<b>Mounting Options</b>	Surface mount, Wall mount, Recessed JBOX wall mount, Pole mount, Tenon mount, Stake mount, (All mounting options have a pivot adjustable in 6° increments, consult factory for universal pivot option)
<b>Optical Options (factory installed)</b>	Linear spread lens horizontal distribution, Linear spread lens vertical distribution, Honeycomb louvre
<b>Options</b>	Corrosion-resistant coating for hostile environments
<b>Power Consumption</b>	100 W
<b>Warranty</b>	5-year limited warranty

## Performance

<b>Maximum Delivered Output</b>	4,057 lm (RGB full output, NS 10°, DMX/RDM), 4,523 lm (RGBW30K full output, NS 10°, DMX/RDM), 4,615 lm (RGBW40K full output, NS 10°, DMX/RDM), 3,532 lm (RGBA full output, NS 10°, DMX/RDM)
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**Controls**

lumen talk™

DMXrdm

DALI28

**Ratings**

IP66

IK10

**Certifications****Maximum Delivered Intensity**

231,832 cd at nadir (RGB full output, XN 5°, DMX/RDM), 344,308 cd at nadir (RGBW30K full output, XN 4°, DMX/RDM), 351,334 cd at nadir (RGBW40K full output, XN 4°, DMX/RDM), 278,110 cd at nadir (RGBA full output, XN 4°, DMX/RDM)

**Illuminance at Distance**

Minimum 1 fc at 146.6 m (RGB full output, XN 5°, DMX/RDM), Minimum 1 fc at 178.9 m (RGBW30K full output, XN 4°, DMX/RDM), Minimum 1 fc at 180.7 m (RGBW40K full output, XN 4°, DMX/RDM), Minimum 1 fc at 160.6 m (RGBA full output, XN 4°, DMX/RDM)

**Lumen Maintenance**

L70 120,000 hrs (Ta 25 °C)

**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**

10.43 kg

**EPA**

Front = 0.12 sq m, Side = 0.03 sq m, Front 45° = 0.11 sq m

**Electrical and control****Voltage**

100 to 347 volts

**Fixture Cable**

Power and data in one cable

**Conductors**

3C #16-3 (LT control), 6C #14-3/ #24-3 (DMX/RDM control)

**Control**

Lumentalk, DMX/RDM enabled, DALI-2 dimming Type 8

**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)

**RGB Colour Mixing**

72 LEDs (12x Red, 12x Green, 12x Blue per board)

**RGBW30K Colour Mixing**

48 LEDs (6x Red, 6x Green, 6x Blue, 6x White 3000K per board)

**RGBW40K Colour Mixing**

48 LEDs (6x Red, 6x Green, 6x Blue, 6x White 4000K per board)

**RGBA Colour Mixing**

48 LEDs (6x Red, 6x Green, 6x Blue, 6x Amber per board)

**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, Wet location rated

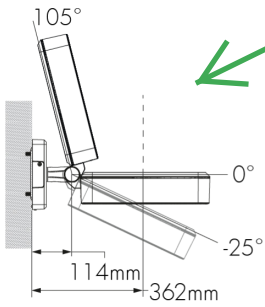
**Impact Resistance Rating**

IK10

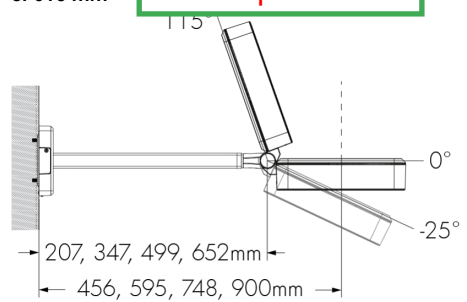
**Maximum Wind Speed**

193 km/h when using WAM6, WAM12, WAM18, WAM24, WAMRJB6, WAMRJB12, WAMRJB18 and WAMRJB24 mounting brackets

## WM - Wall mount



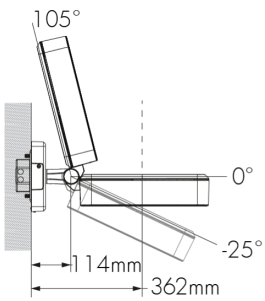
## WAM - Wall arm or 610 mm



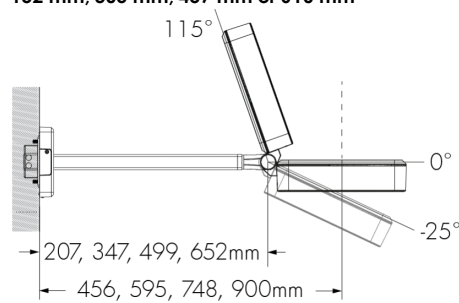
Mount fixture upside down to shine upwards. Use 2 optics

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

## WMRJB - Recessed JBOX wall mount



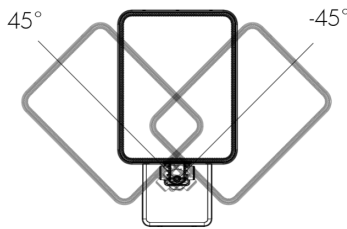
## WAMRJB - Recessed JBOX wall arm mount 152 mm, 305 mm, 457 mm or 610 mm



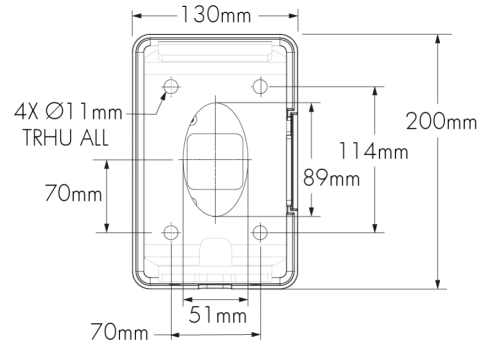
Fixture cable length is determined by Lumenpulse.

Fixture cable length is determined by Lumenpulse.

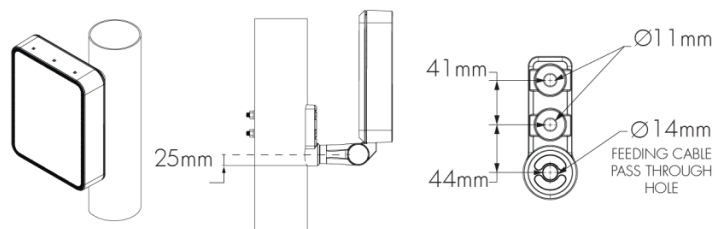
## Wall mount horizontal pivot limits



## WM, WAM, WMRJB and WAMRJB - Mounting hole pattern



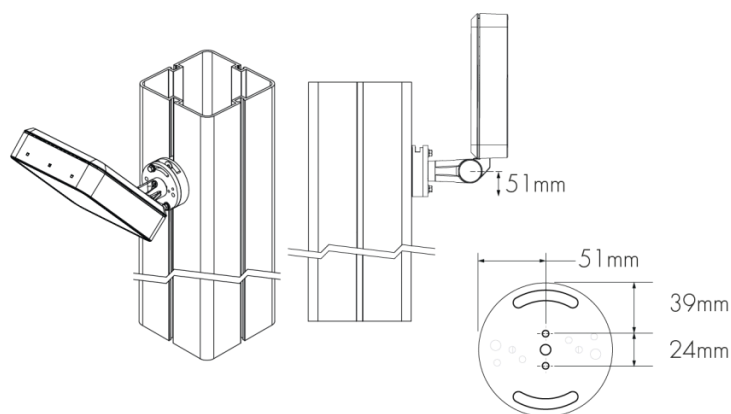
## RPM4/1, RPM4.5/1, RPM5/1 - Round pole mount



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

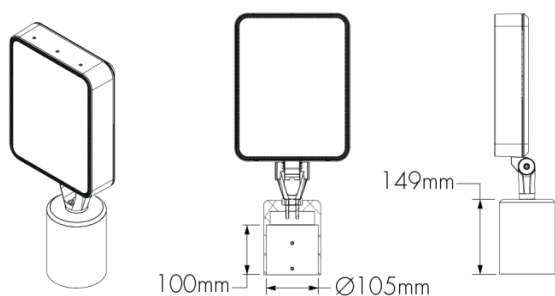
Consult factory for other pole diameters.  
Hardware included with accessory.

## PLTU - Lumentech pole mount



A **PLTU - Universal Yoke** accessory must be ordered with the Lumentech pole for the Lumentech to fit with the PLTU mounting option. Refer to Lumentech specification sheet and installation instructions for more details. Square Lumentech profile shown.

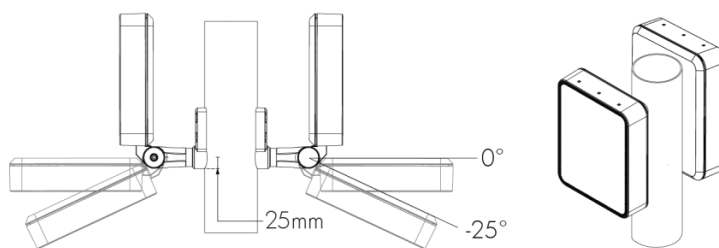
## TN4 - Tenon adapter for 102 mm O.D. pole



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.

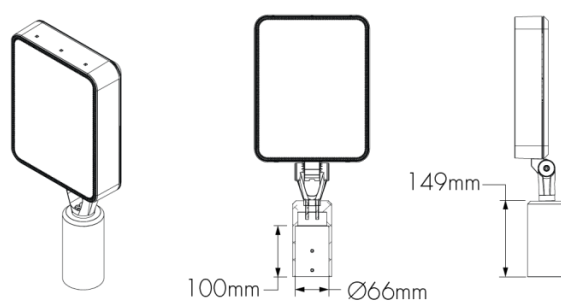
## RPM4/2, RPM4.5/2, RPM5/2 - Round pole mount for two fixtures



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

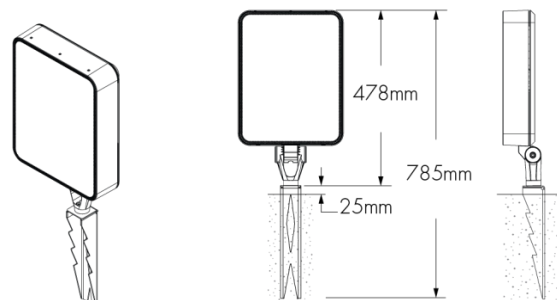
Consult factory for other pole diameters.  
Hardware included with accessory.

## TN2 - Tenon adapter for 60 mm O.D. pole



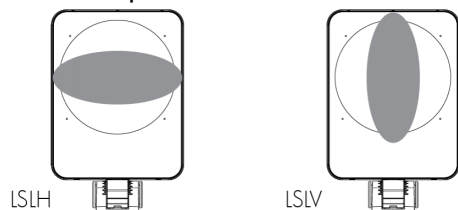
Vertical mounting only. Consult factory for horizontal mounting.

## SK - Stake mount



## Optical options

LSLH - Linear spread lens horizontal distribution  
LSLV - Linear spread lens vertical distribution



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

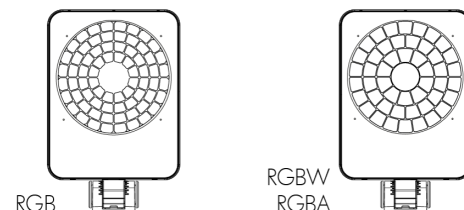
LLF: 0.88\*

\*LLF may vary slightly by distribution chosen.

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

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

HL - Honeycomb louvre



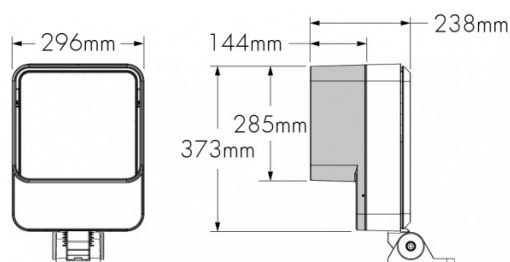
Factory installed, not adjustable on site. HL not available for NAS and WW optics.

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

## Optical accessories (factory installed, order separately)

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

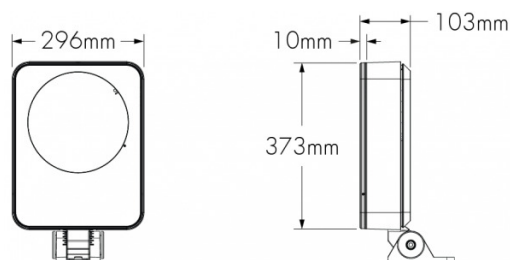
SN - Snoot



LQGSN-FINISH-BK-OPTIONS (CRC)

Interior surface painted black. Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

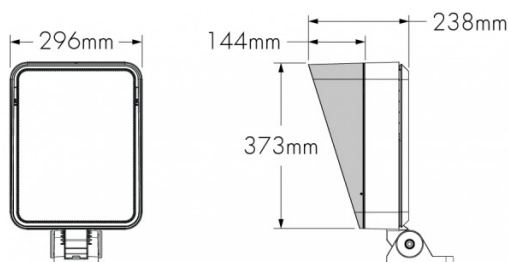
LSLA - Linear spread lens adjustable



LQGLSLA-FINISH-OPTIONS (CRC)

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

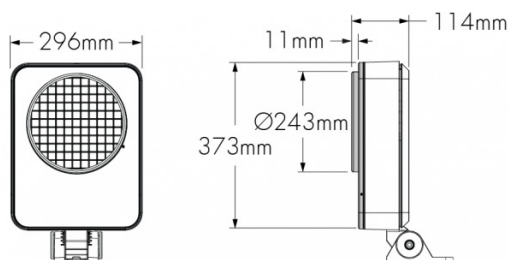
VS - Visor



LQGVVS-FINISH-BK-OPTIONS (CRC)

Interior surface painted black. 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.

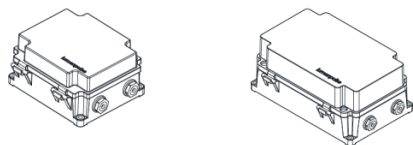
## Accessory combinations

+	Snoot	Visor	Wire guard
<b>Linear spread lens adjustable</b>	YES	YES	NO
<b>Wire guard</b>	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.

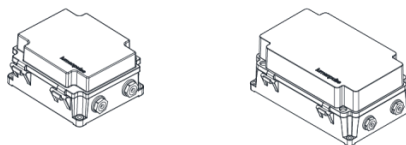
## Control boxes (order separately)

### 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)

### LTN2 - Lumentone™ 2



Lumentone 2 is a simple pre-programmed DMX 512 controller with a push button rotary dial and live feedback.

### PHAROS - Pharos® kit



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

## Diagnostic and addressing tools (order separately)

### LID - LumenID




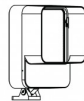


LumenID is a diagnostic and addressing DMX/RDM tool. It must be specified on all DMX applications. Consult LID specification sheet for details.

### LID-LT - LumentalkID



LumentalkID is a diagnostic and addressing tool. It must be specified for all Lumentalk (LT) applications. Consult LID-LT specification sheet for details.

EPA Guide

	FIXTURE			MOUNTING OPTIONS*			
	LQG	LQG with Snoot	LQG with Visor	WAM/WAMRJB			
					6	12	18
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

Resolution per board: each board is addressed independently  
DMX addresses:



board #2  
4,5,6  
color 2

board #1  
1,2,3  
color 1

RGB colour mixing option

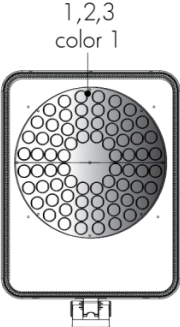


board #2  
5,6,7,8  
color 2

board #1  
1,2,3,4  
color 1

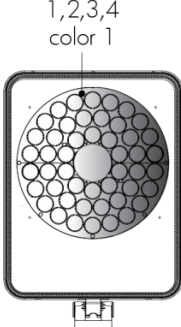
RGBW30K, RGBW40K and RGBA colour mixing options

Resolution per fixture: each fixture is addressed independently  
DMX addresses:



1,2,3  
color 1

RGB colour mixing option

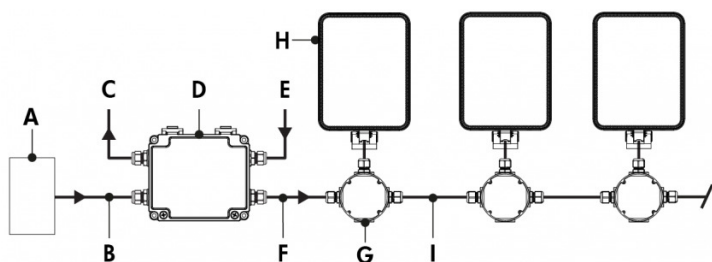


1,2,3,4  
color 1

RGBW30K, RGBW40K and RGBA colour mixing options

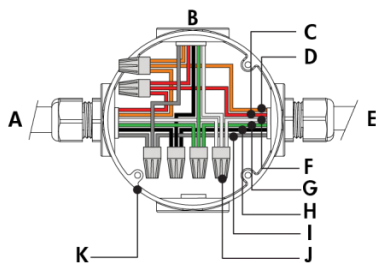
Fixture resolution can be configured on-site within the LumenID V3 software.

## 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)

## Daisy Chain Layout (DMX/RDM) - wiring detail (first or middle of run)



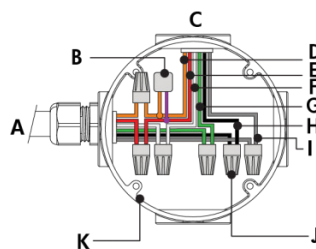
- A** - From CBX or previous fixture  
**B** - To fixture  
**C** - Data -  
**D** - Data +  
**E** - To next fixture  
**F** - Neutral  
**G** - Line  
**H** - Ground  
**I** - Signal common  
**J** - Wire-nuts (by others)  
**K** - Junction box (by others)

## Maximum fixture count

Maximum number of fixtures per run (Based on 15A maximum, 16AWG cable, fixtures spaced 3m on center, first fixture 1.5m from CBX)

Configuration/Voltage	120V	208V	240V	277V	347V
<b>LQG</b>	10	16	18	21	26

## Daisy Chain Layout (DMX/RDM) - wiring detail (end of run)



- 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** - Wire-nuts (by others)  
**K** - 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.
- 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.

How to order

Housing	Voltage	Colour and Colour Temperature	Optic1	Optic2	Optical Options <sup>(5)</sup>
<b>LQG</b> Lumenquad Grande	<b>100</b> 100 volts <b>120</b> 120 volts <b>208</b> 208 volts <b>220</b> 220 volts <b>240</b> 240 volts <b>277</b> 277 volts <b>347</b> 347 volts	<b>RGB</b> Additive RGB <b>RGBW30K</b> Additive RGB + white 3000K <sup>(1)</sup> <b>RGBW40K</b> Additive RGB + white 4000K <sup>(1)</sup> <b>RGBA</b> Additive RGB + amber	<b>XN</b> Extra Narrow 4° or 5° <sup>(2) (3)</sup> <b>VN</b> Very Narrow 6° <sup>(3)</sup> <b>NS</b> Narrow Spot 10° <sup>(3)</sup> <b>NF</b> Narrow Flood 20° <sup>(3)</sup> <b>M</b> Medium 30° <sup>(3) (4)</sup> <b>FL</b> Flood 40° <sup>(3)</sup> <b>WFL</b> Wide Flood 60° <sup>(3) (4)</sup> <b>NAS</b> Narrow Asymmetric <sup>(3)</sup> <b>WW</b> Asymmetric Wallwash <sup>(3)</sup>	<b>XN</b> Extra Narrow 4° or 5° <sup>(2) (3)</sup> <b>VN</b> Very Narrow 6° <sup>(3)</sup> <b>NS</b> Narrow Spot 10° <sup>(3)</sup> <b>NF</b> Narrow Flood 20° <sup>(3)</sup> <b>M</b> Medium 30° <sup>(3) (4)</sup> <b>FL</b> Flood 40° <sup>(3)</sup> <b>WFL</b> Wide Flood 60° <sup>(3) (4)</sup> <b>NAS</b> Narrow Asymmetric <sup>(3)</sup> <b>WW</b> Asymmetric Wallwash <sup>(3)</sup>	<b>LSLH</b> Linear spread lens horizontal distribution <sup>(6)</sup> <b>LSLV</b> Linear spread lens vertical distribution <sup>(6)</sup> <b>HL</b> Honeycomb louvre <sup>(7)</sup>

Notes:

1. 2700K, 3500K and Royal Blue available, consult factory. Longer lead times apply.
2. Nominal distribution is 4° for RGBW30K, RGBW40K and RGBA colour options, and 5° for RGB.
3. Factory installed, not interchangeable on site.
4. Cannot be combined with other optics.

5. Optical options are factory installed and cannot be changed in the field.
6. Not available with WFL, NAS and WW optics.
7. Not available with NAS and WW optics.

How to order

Mounting Options <sup>(8)</sup> <sup>(9)</sup>	Finish	Control	Options	Certification	Cable Length <sup>(19)</sup> <sup>(23)</sup> <sup>(25)</sup>
<b>SM</b> Surface mount	<b>BK</b> Black Sandtex®	<b>LT</b> Lumentalk <sup>(16)</sup> <sup>(17)</sup>	<b>CRC</b> Corrosion-resistant coating for hostile environments <sup>(20)</sup> <sup>(21)</sup>	<b>UL</b> UL compliant	<b>3FT</b> 0.9 m <sup>(19)</sup> <sup>(24)</sup>
<b>WM</b> Wall mount	<b>BRZ</b> Bronze Sandtex®	<b>DMX/RDM</b> DMX/RDM enabled <sup>(18)</sup> <sup>(19)</sup>		<b>CE</b> CE compliant <sup>(22)</sup>	<b>10FT</b> 3 m
<b>WAM6</b> Wall arm mount 152 mm <sup>(10)</sup>	<b>SI</b> Silver Sandtex®	<b>DALI8</b> DALI-2 dimming Type 8		<b>CEII</b> CE compliant Class II double insulated <sup>(22)</sup>	<b>20FT</b> 6.1 m
<b>WAM12</b> Wall arm mount 305 mm <sup>(10)</sup>	<b>WH</b> Smooth white				<b>30FT</b> 9.1 m
<b>WAM18</b> Wall arm mount 457 mm <sup>(10)</sup>	<b>BKTX</b> Textured black				<b>50FT</b> 15.2 m
<b>WAM24</b> Wall arm mount 610 mm <sup>(10)</sup> <sup>(11)</sup>	<b>BRZTX</b> Textured bronze non-metallic				<b>70FT</b> 21.3 m
<b>WMRJB</b> Recessed JBOX wall mount	<b>GRATX</b> Textured medium grey				<b>100FT</b> 30.5 m
<b>WAMRJB6</b> Recessed JBOX wall arm mount 152 mm <sup>(10)</sup>	<b>GRNTX</b> Textured green				
<b>WAMRJB12</b> Recessed JBOX wall arm mount 305 mm <sup>(10)</sup>	<b>WHTX</b> Textured white				
<b>WAMRJB18</b> Recessed JBOX wall arm mount 457 mm <sup>(10)</sup>	<b>CC</b> Custom colour and finish (please specify RAL colour) <sup>(13)</sup> <sup>(14)</sup> <sup>(15)</sup>				
<b>WAMRJB24</b> Recessed JBOX wall arm mount 610 mm <sup>(10)</sup>					
<b>RPM4/1</b> Round pole mount 102 mm					
<b>RPM4.5/1</b> Round pole mount 114 mm					
<b>RPM5/1</b> Round pole mount 127 mm					
<b>RPM4/2</b> Round pole mount 102 mm for two fixtures					
<b>RPM4.5/2</b> Round pole mount 114 mm for two fixtures					
<b>RPM5/2</b> Round pole mount 127 mm for two fixtures					
<b>PLTU</b> Lumentech pole mount <sup>(12)</sup>					
<b>TN2</b> Tenon adapter for 60 mm O.D. pole					
<b>TN4</b> Tenon adapter for 102 mm O.D. pole					
<b>SK</b> Stake mount					

**Notes:**

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

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

10. The fixture can withstand a maximum wind speed of up to 193 km/h when using this mounting bracket.

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

12. Available for Lumentech poles with a square or round profile. A PLTU - Universal Yoke accessory must be ordered with the Lumentech pole for the Lumentech to fit with the PLTU mounting option. Refer to Lumentech specification sheet and installation instructions for more details.

13. 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.

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

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

16. Not available with 347V.

17. A Lumentranslator 2 (LTL2) and LumentalkID (LIDL2) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.

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

19. Maximum of 0.9 m cable length for daisy chain DMX applications with CBX-DS.

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

21. Setup charges apply. Consult factory for details.

22. Consult European specification sheets and installation instructions for CE and CE Class II wiring information.

23. Not applicable to WMRJB and WAMRJB 152 mm to 610 mm mounting options. Cable lengths for these mounting options are determined by the length of the mounting bracket.

24. Not available for WAM24 mounting option.

25. UL fixtures specified with a Smooth white finish and a SM, WM or WAM 152 mm to 610 mm mounting option are provided with a white cable. A black cable is provided for all other fixture configurations.