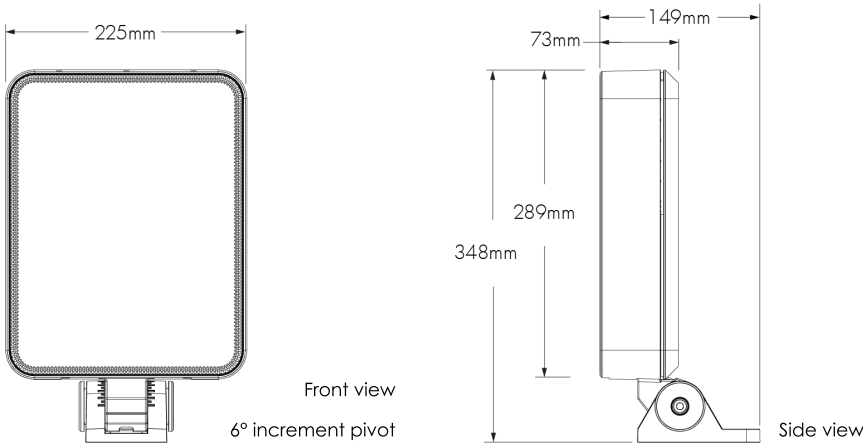


Project Name

Qty

Type

Catalog / Part Number



Photometric Summary

| Symmetric |                       |                     |
|-----------|-----------------------|---------------------|
|           | Delivered output (lm) | Intensity (peak cd) |
| XN (3°)   | 4,259                 | 593,580             |
| VN (6°)   | 3,314                 | 172,676             |
| NS (10°)  | 5,543                 | 82,608              |
| NF (20°)  | 5,673                 | 53,203              |
| M (30°)   | 5,198                 | 28,246              |
| FL (40°)  | 4,648                 | 11,469              |
| WFL (60°) | 4,626                 | 4,677               |

| Asymmetric |                       |                     |
|------------|-----------------------|---------------------|
|            | Delivered output (lm) | Intensity (peak cd) |
| NAS        | 3,687                 | 56,790 (@2.5°)      |
| WW         | 4,544                 | 13,924 (@5°)        |

| Roadway                    |                       |
|----------------------------|-----------------------|
|                            | Delivered output (lm) |
| 2-Type II (ME2-ME6, CE)    | 4,394                 |
| 3-Type III (ME2-ME6, CE)   | 4,513                 |
| 4-Type IV (ME2-ME6, CE, S) | 3,978                 |
| 5S-Type VS (S)             | 4,417                 |

Based on 4000K configuration.  
Photometric performance is measured externally in compliance with IESNA LM-79-24.  
Refer to LDT files for photometric information on distributions with backlight shield options (2BLS, 3BLS and 4BLS).

Description

The Lumenquad Large, 50W LED luminaire, has a sleek 73 mm profile with no visible wiring or hardware and seamlessly integrates with any architecture. Lumenpulse's latest generation of LED boards possess an optimised candela and lumens recipe for both Narrow and Wide optics. The Lumenquad Large is the epitome of versatility and can be configured with numerous options including optics for wallwash, floodlighting, or street lighting, a choice of colour temperatures and colours, as well as various mounting options, accessories, controls, and multiple standard finishes.

Features

|                               |                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Colour and Colour Temperature | 2200K, 2700K, 3000K, 3500K, 4000K, 5700K, Red, Green, Blue                                                                                                                                                                                                                                                                                          |
| Optics (Nominal Distribution) | XN (3°), VN (6°), NS (10°), NF (20°), M (30°), FL (40°), WFL (60°), VWFL (90°), NAS (Narrow Asymmetric), WW (Asymmetric Wallwash), Type II (ME2-ME6, CE), Type II backlight shield (ME2-ME6, CE), Type III (ME2-ME6, CE), Type III backlight shield (ME2-ME6, CE), Type IV (ME2-ME6, CE, S), Type IV backlight shield (ME2-ME6, CE, S), Type VS (S) |

|                  |                                                                                                                                                                                                                                                                                                                                                           |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mounting Options | Surface Mount, Wall Mount Bracket with Decorative Cover, Wall Mount Bracket without Decorative Cover, Recessed JBOX Wall Mount with Decorative Cover, Recessed JBOX Wall Mount Without Decorative Cover, Pole Mount, Tenon Mount, Stake Mount, All mounting options have a pivot adjustable in 6° increments, consult factory for universal pivot option. |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                     |                                                                                                        |
|-------------------------------------|--------------------------------------------------------------------------------------------------------|
| Optical Options (Factory Installed) | Linear Spread Lens Horizontal Distribution, Linear Spread Lens Vertical Distribution, Honeycomb Louver |
|-------------------------------------|--------------------------------------------------------------------------------------------------------|

|        |                                                      |
|--------|------------------------------------------------------|
| Option | Corrosion-Resistant Coating for Hostile Environments |
|--------|------------------------------------------------------|

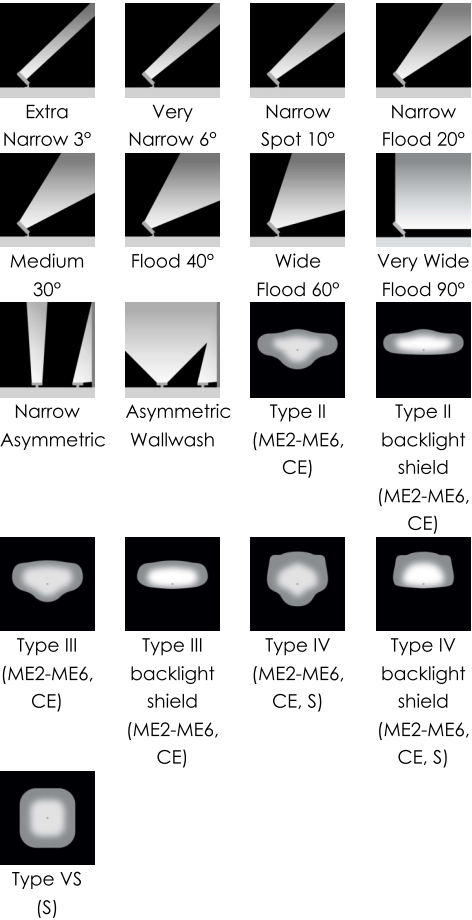
|                   |      |
|-------------------|------|
| Power Consumption | 50 W |
|-------------------|------|

|          |                         |
|----------|-------------------------|
| Warranty | 5-year limited warranty |
|----------|-------------------------|

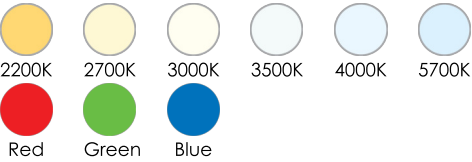
Performance

|                             |                                      |
|-----------------------------|--------------------------------------|
| Maximum Delivered Output    | 5,673 lm (4000K, NF 20°)             |
| Maximum Delivered Intensity | 593,580 cd at nadir (4000K, XN 3°)   |
| Illuminance at Distance     | Minimum 1 lx at 774 m (4000K, XN 3°) |
| Colour Consistency          | 3 SDCM                               |

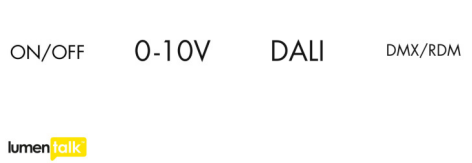
Optic



Colour and Colour Temperature



Control



Ratings

IP66    IK10

Certifications

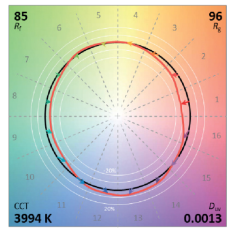


|                                 |                                                                                                                                |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Colour Rendering                | CRI 80+                                                                                                                        |
| Lumen Maintenance               | L70 B50 > 250,000 hrs (Ta 25 °C) (> 80,000 hrs for XN 3°, VN 6°, NAS optics only)                                              |
| 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 (NO, LT control)<br>5C: 5 x 1,5 mm² (DIM, DALI, ES control)<br>6C: 3 x 1,5 mm²/ 3 x 0,20 mm² (DMX/RDM control) |
| Inrush Current (Peak)           | 55A @230VAC                                                                                                                    |
| Control                         | On/Off Control, Lumentalk, 1-10V Dimming, DALI Dimming, DMX/RDM Enabled                                                        |
| Resolution (DMX/RDM)            | Per fixture, 8-bit or 16-bit                                                                                                   |
| Environmental                   |                                                                                                                                |
| Storage Temperature             |                                                                                                                                |
| 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)                                                                                                                  |

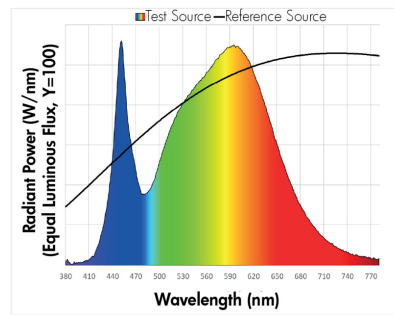
### Chromaticity Data

**TM-30 - 4000K**

| CCT   | CIE            |    | TM-30 |                |
|-------|----------------|----|-------|----------------|
| 4000K | R <sub>a</sub> | 83 | 85    | R <sub>f</sub> |
|       | R <sub>9</sub> | 14 | 96    | R <sub>g</sub> |

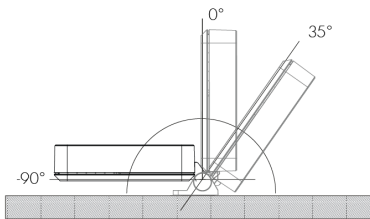


### Spectral Power Distribution

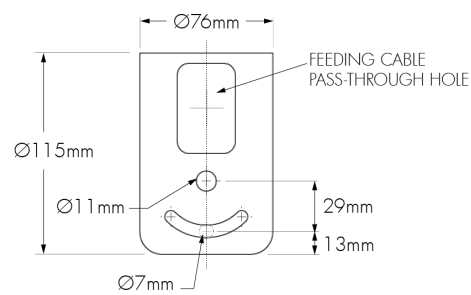


## Mounting Options

**SM - Surface Mount**

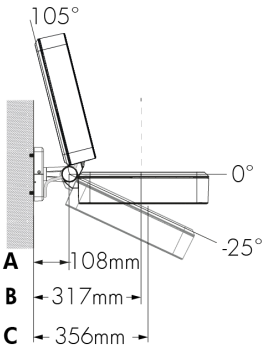


**SM - Mounting Hole Pattern**

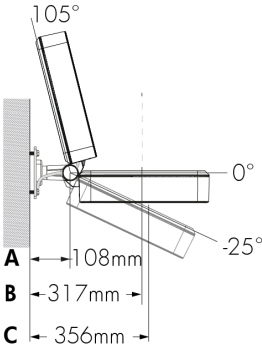


The SM mounting option cannot be interchanged with any other mounting option. All others mountings are interchangeable. Consult factory for details.

WM - Wall Mount Bracket with Decorative Cover

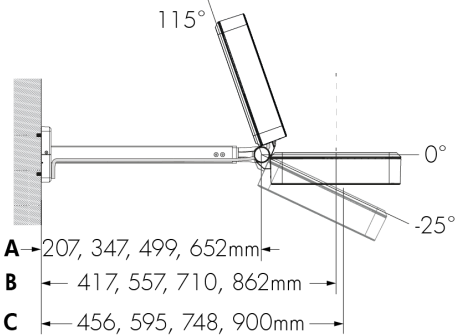


WMNC - Wall Mount Bracket Without Decorative Cover

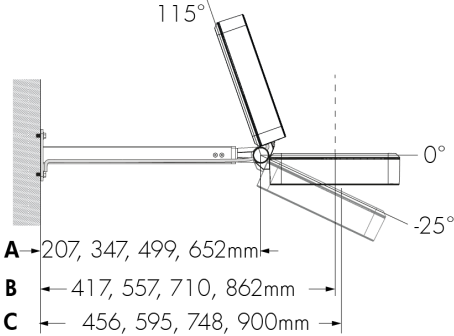


- A - Dimension from wall to pivot.
- B - Dimension from wall to the geometric center of the fixture.
- C - Dimension from wall to the center of the board.

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



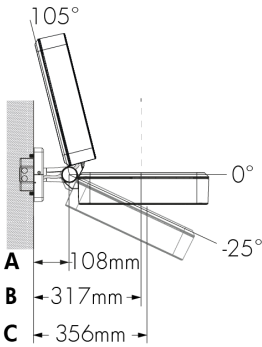
WAMNC - Wall Mount Bracket Without Decorative Cover  
152 mm, 305 mm, 457 mm or 610 mm



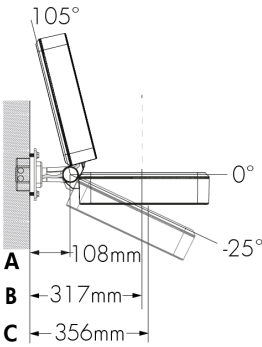
A cable length of 3 m or greater must be specified for the WAM24 mounting option.

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

WMRJB - Recessed JBOX Wall Mount With Decorative Cover



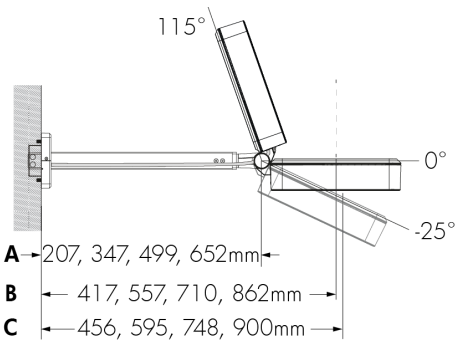
WMRJBNC - Recessed JBOX Wall Mount Without Decorative Cover



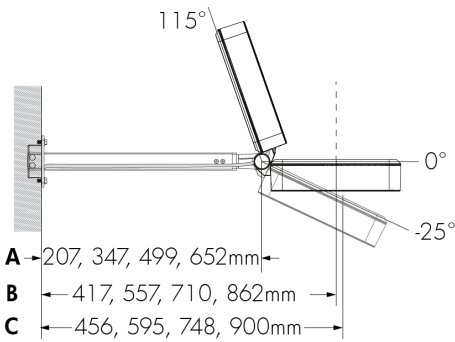
Fixture cable length is determined by Lumenpulse.

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

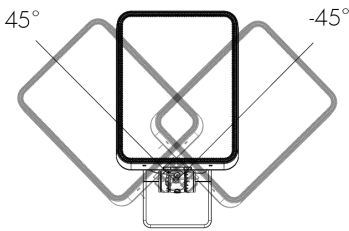


**A** - Dimension from wall to pivot.

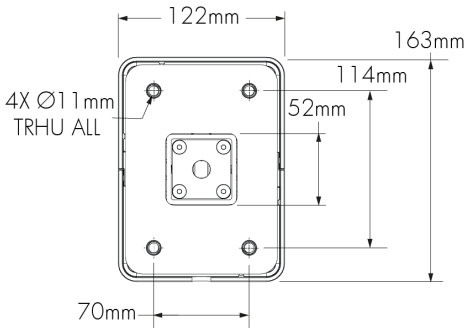
**B** - Dimension from wall to the geometric center of the fixture.

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

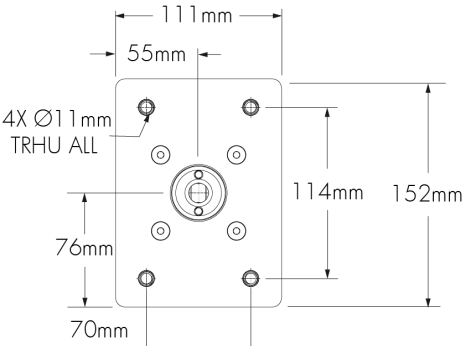
Wall Mount Horizontal Pivot Limits



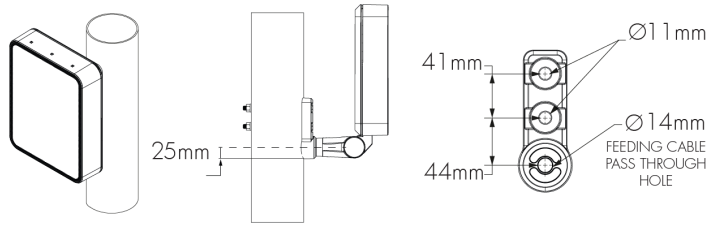
WM, WAM, WMRJB and WAMRJB - Mounting Hole  
Pattern



WMNC, WAMNC, WMRJBNC and WAMRJBNC -  
Mounting Hole Pattern



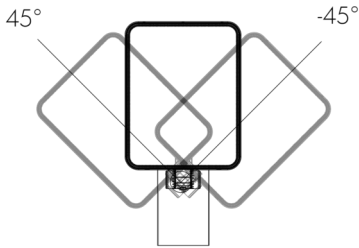
RPM4/1, RPM4.5/1, RPM5/1 - Round Pole Mount



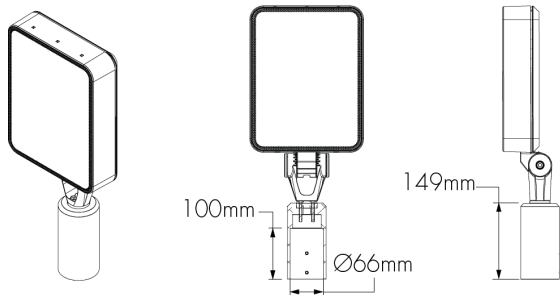
|             | RPM4/1             | RPM4.5/1           | RPM5/1           |
|-------------|--------------------|--------------------|------------------|
| For pole Ø  | 101.6mm<br>± 1.6mm | 114.3mm<br>± 1.6mm | 127mm<br>± 1.6mm |
| Bolt length | 133mm              | 146mm              | 159mm      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

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

Round Pole Mount Horizontal Pivot Limits

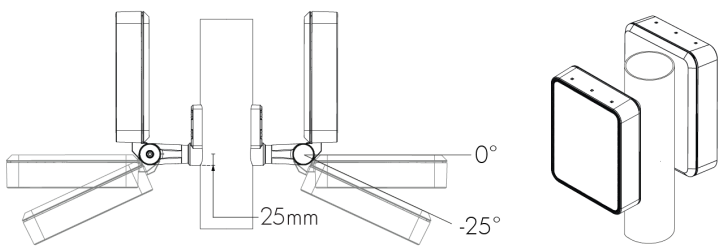


TN2 - Tenon Adapter For 60 mm O.D. Pole



Vertical mounting only. Consult factory for horizontal mounting.

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

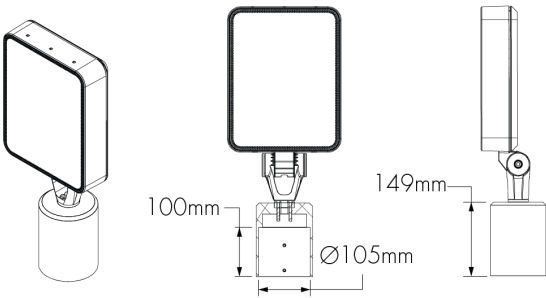


|             | RPM4/2             | RPM4.5/2           | RPM5/2           |
|-------------|--------------------|--------------------|------------------|
| For pole Ø  | 101.6mm<br>± 1.6mm | 114.3mm<br>± 1.6mm | 127mm<br>± 1.6mm |
| Bolt length | 146mm              | 159mm              | 178mm      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

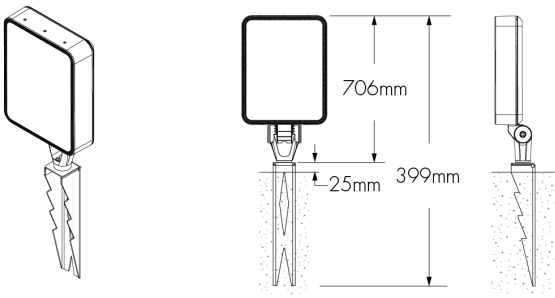
Consult factory for other pole diameters.  
Hardware included with accessory.

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

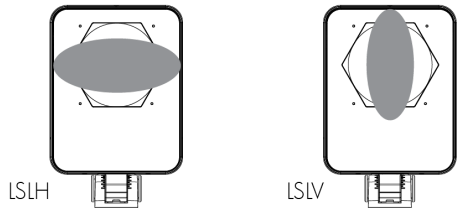


Vertical mounting only. Consult factory for horizontal mounting.

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

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



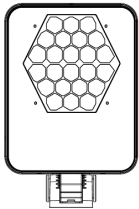
Factory installed, not adjustable on site. Not available for WFL, VWFL, NAS, WW, 2, 2 BLS, 3, 3BLS, 4, 4BLS and 5S optics.

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

|    | Beam angle with LSLH/LSLV |
|----|---------------------------|
| XN | 5° x 60°                  |
| 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, WW, 2, 2BLS, 3, 3BLS, 4, 4BLS and 5S optics.

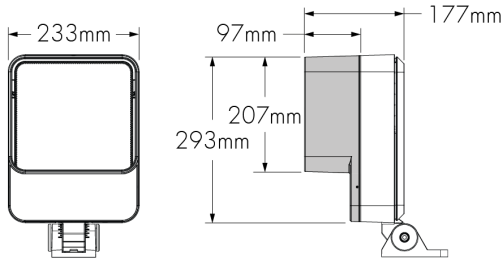
The addition of a honeycomb louvre will affect beam distribution. Consult factory for application support.

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

Optical Accessories (Factory Installed, Order Separately)

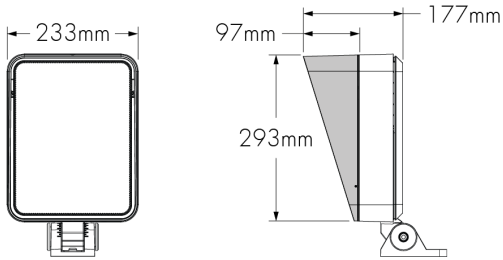
Installed optical accessories will affect the maximum pivot limits for each mounting option, consult factory for details.

SN - Snoot



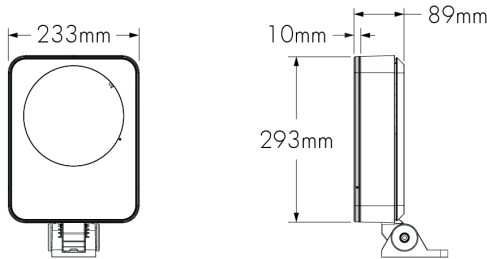
LQLSN-FINISH-BK-OPTIONS (CRC)  
Interior surface painted black. Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

VS - Visor



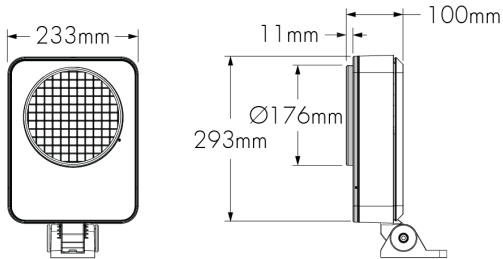
LQLVS-FINISH-BK-OPTIONS (CRC)  
Interior surface painted black. Please specify the exterior **FINISH** from the list of finishes in the fixture order code.  
  
The Visor is not recommended for the WW optic.

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.

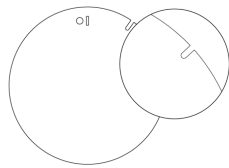
Accessory Combinations

|                               | + | 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.

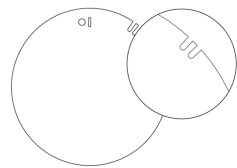
Diffuser Lenses (Intended for Mockup Purposes Only, Order Separately)

Diffuser Lens 1 (1 Notch)



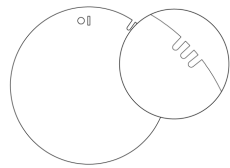
147707

Diffuser Lens 2 (2 Notches)



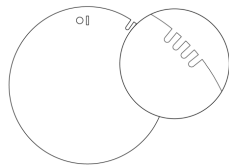
147708

Diffuser Lens 3 (3 Notches)



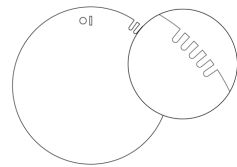
147709

Diffuser Lens 4 (4 Notches)



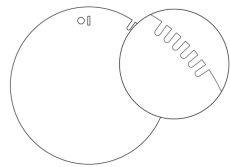
147710

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<br>1 Notch             | Diffuser Lens 2<br>2 Notches | Diffuser Lens 3<br>3 Notches | Diffuser Lens 4<br>4 Notches | Diffuser Lens 5<br>5 Notches | Diffuser Lens 6<br>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

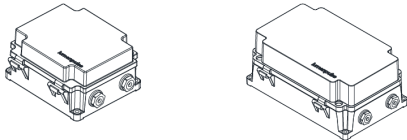
The diffuser lenses are intended for mockup purposes only. A lens holder is required to install a diffuser lens on the fixture, order separately using the following names: **LQS**: LQSLSLA-**FINISH**-LQALK **LQM**: LQMLSLA-**FINISH**-LQALK **LQL**: LQLLSLA-**FINISH**-LQALK **LQG**: LQGSLSLA-**FINISH**-LQALK

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.

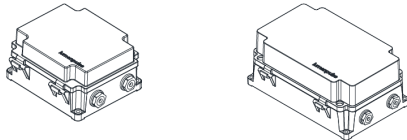
Control Boxes (Order Separately)

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.

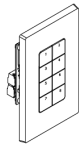
CBX-ENET - Ethernet Enabled (Daisy Chain or Star Configuration)



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.

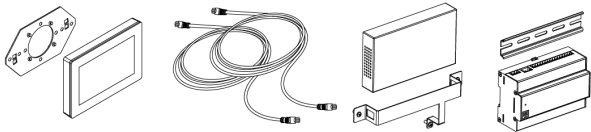
Control Systems (Order Separately)

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.

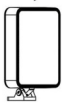
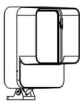
Diagnostic And Addressing Tools (Order Separately)

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.

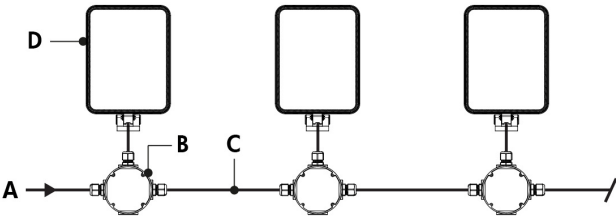
Typical Wiring Diagrams

Wiring Colour Code

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

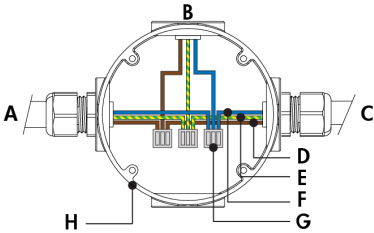
| CE Class II Colour Code | USE                          |
|-------------------------|------------------------------|
| Brown                   | Line 100-277V AC             |
| Blue                    | Line/Neutral                 |
| Black 1                 | Signal common (DMX/RDM only) |
| Black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

On/Off Control (NO)



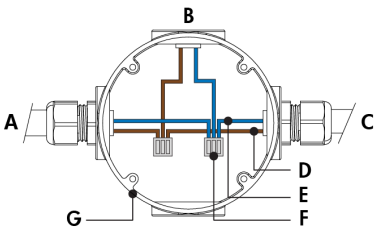
- A - Power input (100-277V, wiring by others)
- B - Junction box (by others)
- C - Power wiring (by others)
- D - Lumenquad Large

On/Off Control (NO) - Wiring Detail - CE



- A - Power input 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)

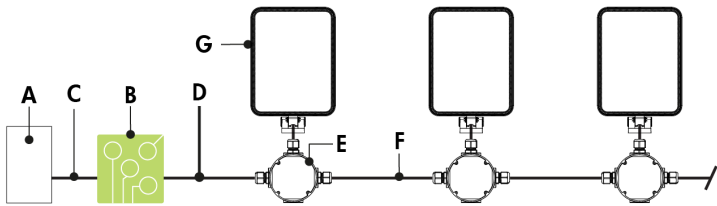
On/Off Control (NO) - Wiring Detail - CE Class II



- A - Power input or from previous fixture
- B - To fixture
- C - To next fixture
- D - Line
- E - Line/Neutral
- F - Terminal connector (by others)
- G - Junction box (by others)

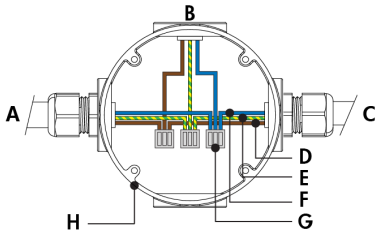
- Consult factory for specific applications and maximum fixture count/cable length recommendations. 50 watts per fixture.

Lumentalk (LT)



- A** - Dimmer/controller (order separately from Lumenpulse, or by others)
- B** - Lumentranslator 2 (LTL2-DIM, -DMX, -TRIAC, -DALI)
- 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

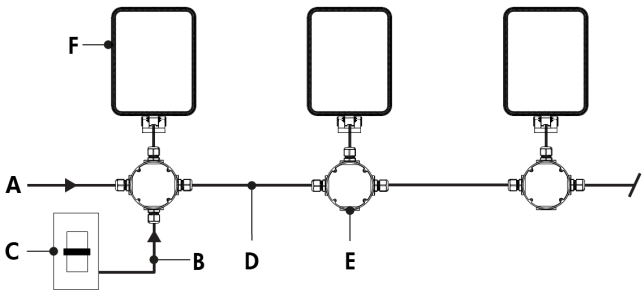
Lumentalk (LT) - Wiring Detail - CE



- 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)

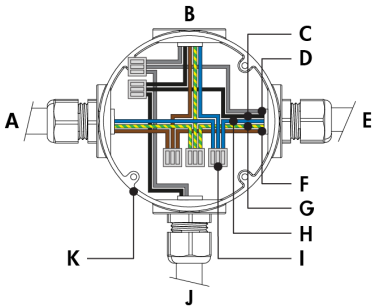
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Lumentalk enabled fixtures must be commissioned using LumentalkID software and a LID-LT. Consult factory for details.
- Maximum of 1 transmitter (Lumentranslator or Lumenlink) per system. No third party fixtures allowed on the same circuit.
- For DMX applications: 1 DMX controller per Lumentalk network, maximum of 48 DMX channels per Lumentalk network (minimum step transition update rate is 1 second, minimum fade time between two colours is 1 minute). Consult factory for applications that require additional capabilities.
- Consult factory for DALI Lumentalk applications.
- 1% minimum dimming value. 50 watts per fixture.

1-10V Dimming (DIM)



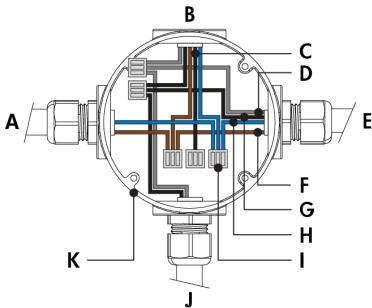
- A - Power input (100-277V, wiring by others)
- B - Data wiring (by others)
- C - Dimmer (by others)
- D - Power and data wiring (by others)
- E - Junction box (by others)
- F - Lumenquad Large

1-10V Dimming (DIM) - Wiring Detail - CE



- A - Power input or from previous fixture
- B - To fixture
- C - 1-10 V +
- D - 1-10 V -
- E - To next fixture
- F - Line
- G - Ground
- H - Neutral
- I - Terminal connector (by others)
- J - From dimmer (by others)
- K - Junction box (by others)

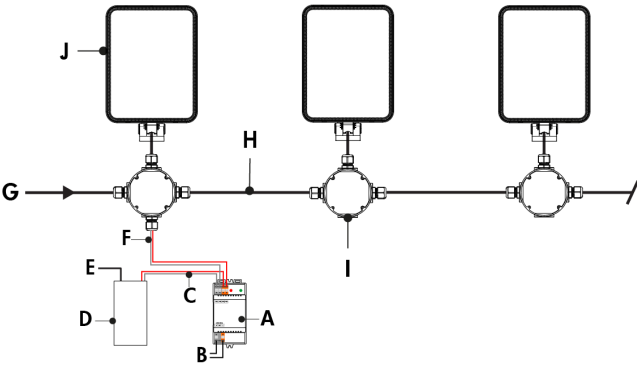
1-10V Dimming (DIM) - Wiring Detail - CE Class II



- A - Power input or from previous fixture
- B - To fixture
- C - Signal common (black 1)
- D - 1-10 V -
- E - To next fixture
- F - Line
- G - 1-10 V + (black 2)
- H - Neutral
- I - Terminal connector (by others)
- J - From dimmer (by others)
- K - Junction box (by others)

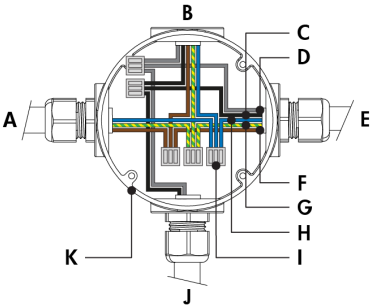
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- 1-10V mA ratings: passive dimmer (Current Sink): 3mA per fixture, active dimmer (Current Source): 0.5mA per fixture.
- 1% minimum dimming value. 50 watts per fixture.

DALI Dimming (DALI)



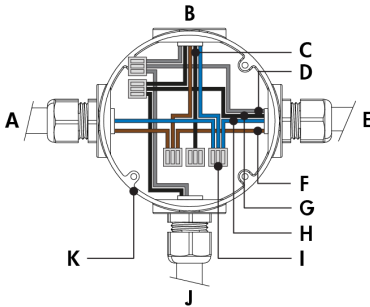
- A - DALI bus power supply
- B - Power input for DALI bus power supply (wiring by others)
- C - Data output to DALI controller (by others)
- D - DALI controller (by others)
- E - Power input for DALI controller (if required, wiring by others)
- F - Data wiring (by others)
- G - Power input (100-277V,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

DALI Dimming (DALI) - Wiring Detail - CE



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

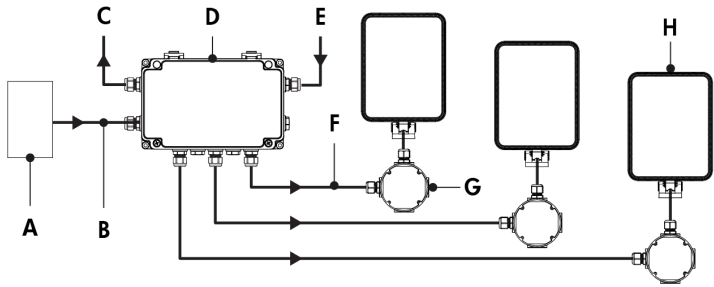
DALI Dimming (DALI) - Wiring Detail - CE Class II



- A - Power input or from previous fixture
- B - To fixture
- C - Signal common (black 1)
- D - DA -
- E - To next fixture
- F - Line
- G - DA + (black 2)
- 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.
- 1% minimum dimming value. 50 watts per fixture.
- Commissioning may be required based on the selection of 3rd party DALI controller. Controller and commissioning provided by others.

Star Layout (DMX/RDM)

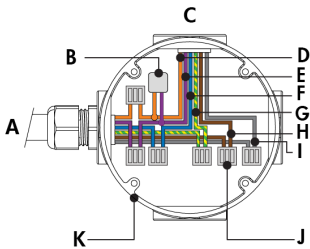


- A - DMX/RDM controller (order separately from Lumenpulse, or by others)
- B - Data input (Belden 9841 or equivalent, by others)
- C - Data output to next CBX (optional, not isolated/not boosted)
- D - CBX-ST
- E - Power input (100-277V, wiring by others)
- F - Power and data output to fixture (wiring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

Maximum Fixture Count

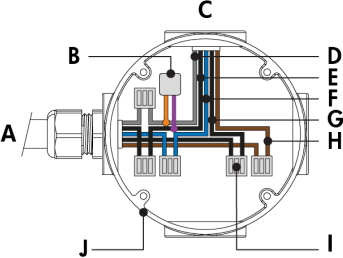
|                                                                                                                                                    |      |      |      |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|
| Maximum number of fixtures per run<br>(Based on 1.6A maximum, 1,5mm <sup>2</sup> 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

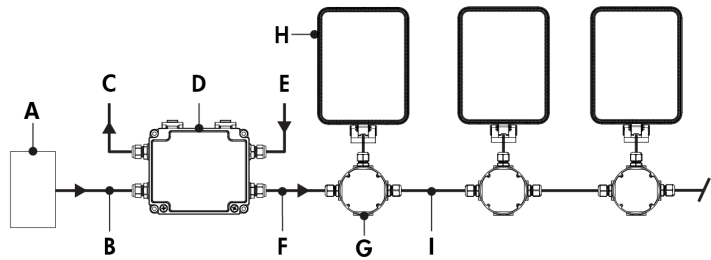


- A - From CBX or previous fixture
- B - Lumenterminator\*
- C - To fixture
- D - Data -
- E - Signal common (black 1)
- F - Neutral
- G - Data + (black 2)
- H - Line
- I - Terminal connector (by others)
- J - Junction box (by others)

- 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.
- Each fixture requires 1 DMX address.
- 1% minimum dimming value.
- 50 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.

Daisy Chain Layout (DMX/RDM)

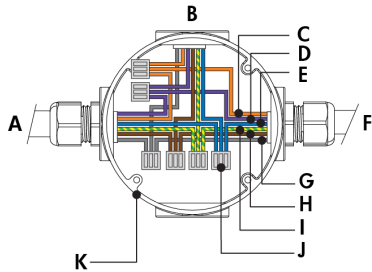


- A - DMX/RDM controller (order separately from Lumenpulse, or by others)
- B - Data input (Belden 9841 or equivalent, by others)
- C - Data output to next CBX (optional, not isolated/not boosted)
- D - CBX-DS
- E - Power input (100-277V, wiring by others)
- F - Power and data output to fixture (wiring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

Maximum Fixture Count

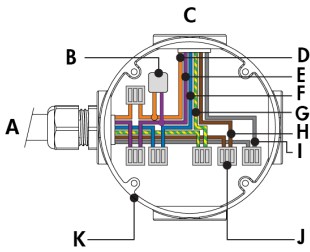
|                                                                                                                                                    |      |      |      |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|
| Maximum number of fixtures per run<br>(Based on 1.6A maximum, 1,5mm <sup>2</sup> 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



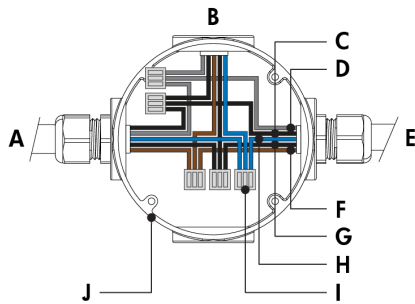
- A - From CBX or previous fixture
- B - To fixture
- C - Data -
- D - Data +
- E - Neutral
- F - To next fixture
- G - Signal common
- H - Line
- I - Ground
- J - Terminal connector (by others)
- K - Junction box (by others)

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



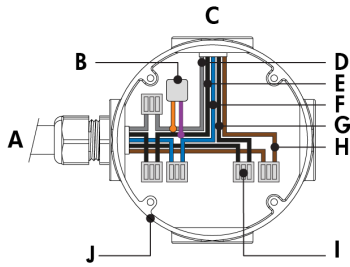
- A - From CBX or previous fixture
- B - Lumenterminator\*
- C - To fixture
- D - Data -
- E - Data +
- F - Neutral
- G - Ground
- H - Line
- I - Signal common
- J - Terminal connector (by others)
- K - Junction box (by others)

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)

- 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.
- Each fixture requires 1 DMX address.
- 1% minimum dimming value.
- 50 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 <sup>(1)</sup>                                                                                                                                                                                                                                                                                                                                 | Optic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Optical Option <sup>(7)</sup>                                                                                                                                                                              | Mounting Options <sup>(9)</sup> <sup>(10)</sup> <sup>(11)</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LQL<br>Lumenquad Large | <b>100</b><br>100 Volts<br><br><b>120</b><br>120 Volts<br><br><b>208</b><br>208 Volts<br><br><b>220</b><br>220 Volts<br><br><b>240</b><br>240 Volts<br><br><b>277</b><br>277 Volts | <b>22K</b><br>2200K<br><br><b>27K</b><br>2700K<br><br><b>30K</b><br>3000K<br><br><b>35K</b><br>3500K<br><br><b>40K</b><br>4000K<br><br><b>57K</b><br>5700K<br><br><b>RD</b><br>Red <sup>(2)</sup> <sup>(3)</sup> <sup>(4)</sup><br><br><b>GR</b><br>Green <sup>(2)</sup> <sup>(3)</sup> <sup>(4)</sup><br><br><b>BL</b><br>Blue <sup>(2)</sup> <sup>(3)</sup> <sup>(4)</sup> | <b>XN</b><br>Extra Narrow 3° <sup>(5)</sup><br><br><b>VN</b><br>Very Narrow 6° <sup>(5)</sup><br><br><b>NS</b><br>Narrow Spot 10° <sup>(5)</sup><br><br><b>NF</b><br>Narrow Flood 20° <sup>(5)</sup><br><br><b>M</b><br>Medium 30° <sup>(5)</sup><br><br><b>FL</b><br>Flood 40° <sup>(5)</sup><br><br><b>WFL</b><br>Wide Flood 60° <sup>(5)</sup><br><br><b>VWFL</b><br>Very Wide Flood 90° <sup>(5)</sup> <sup>(4)</sup><br><br><b>NAS</b><br>Narrow Asymmetric <sup>(5)</sup><br><br><b>WW</b><br>Asymmetric Wallwash <sup>(5)</sup><br><br><b>2</b><br>Type II (ME2-ME6, CE) <sup>(5)</sup><br><br><b>2BLS</b><br>Type II backlight shield (ME2-ME6, CE) <sup>(5)</sup><br><br><b>3</b><br>Type III (ME2-ME6, CE) <sup>(5)</sup><br><br><b>3BLS</b><br>Type III backlight shield (ME2-ME6, CE) <sup>(5)</sup><br><br><b>4</b><br>Type IV (ME2-ME6, CE, S) <sup>(5)</sup><br><br><b>4BLS</b><br>Type IV backlight shield (ME2-ME6, CE, S) <sup>(5)</sup><br><br><b>5S</b><br>Type VS (S) <sup>(5)</sup> | <b>LSLH</b><br>Linear Spread Lens Horizontal Distribution <sup>(8)</sup><br><br><b>LSLV</b><br>Linear Spread Lens Vertical Distribution <sup>(8)</sup><br><br><b>HL</b><br>Honeycomb Louver <sup>(8)</sup> | <b>SM</b><br>Surface Mount<br><br><b>WM</b><br>Wall Mount Bracket with Decorative Cover<br><br><b>WMNC</b><br>Wall Mount Bracket without Decorative Cover<br><br><b>WAM6</b><br>Wall Arm Mount 152 mm with Decorative Cover<br><br><b>WAM6NC</b><br>Wall Arm Mount 152 mm without Decorative Cover<br><br><b>WAM12</b><br>Wall Arm Mount 305 mm with Decorative Cover<br><br><b>WAM12NC</b><br>Wall Arm Mount 305 mm without Decorative Cover<br><br><b>WAM18</b><br>Wall Arm Mount 457 mm with Decorative Cover<br><br><b>WAM18NC</b><br>Wall Arm Mount 457 mm without Decorative Cover<br><br><b>WAM24</b><br>Wall Arm Mount 610 mm with Decorative Cover <sup>(12)</sup><br><br><b>WAM24NC</b><br>Wall Arm Mount 610 mm without Decorative Cover <sup>(12)</sup><br><br><b>WMRJB</b><br>Recessed JBOX Wall Mount with Decorative Cover<br><br><b>WMRJBNC</b><br>Recessed JBOX Wall Mount without Decorative Cover<br><br><b>WAMRJB6</b><br>Recessed JBOX Wall Arm Mount 152 mm with Decorative Cover<br><br><b>WAMRJB6NC</b><br>Recessed JBOX Wall Arm Mount 152 mm without Decorative Cover<br><br><b>WAMRJB12</b><br>Recessed JBOX Wall Arm Mount 305 mm with Decorative Cover<br><br><b>WAMRJB12NC</b><br>Recessed JBOX Wall Arm Mount 305 mm without Decorative Cover<br><br><b>WAMRJB18</b><br>Recessed JBOX Wall Arm Mount 457 mm with Decorative Cover<br><br><b>WAMRJB18NC</b><br>Recessed JBOX Wall Arm Mount 457 mm without Decorative Cover<br><br><b>WAMRJB24</b><br>Recessed JBOX Wall Arm Mount 610 mm with Decorative Cover<br><br><b>WAMRJB24NC</b><br>Recessed JBOX Wall Arm Mount 610 mm without Decorative Cover<br><br><b>RPM4/1</b><br>Round Pole Mount 102 mm<br><br><b>RPM4.5/1</b><br>Round Pole Mount 114 mm<br><br><b>RPM5/1</b><br>Round Pole Mount 127 mm<br><br><b>RPM4/2</b><br>Round Pole Mount 102 mm for two fixtures<br><br><b>RPM4.5/2</b><br>Round Pole Mount 114 mm for two fixtures<br><br><b>RPM5/2</b><br>Round Pole Mount 127 mm for two fixtures<br><br><b>TN2</b><br>Tenon Adapter for 60 mm O.D. Pole<br><br><b>TN4</b><br>Tenon Adapter for 102 mm O.D. Pole<br><br><b>SK</b><br>Stake Mount |

Notes:

1. Consult factory for availability of static Royal Blue, 6500K and 90+ CRI.

2. Not available for XN optic.

3. Static colours made to order 8-10 weeks.

4. Consult factory for availability with type 2, 2BLS, 3, 3BLS, 4, 4BLS and 5S distributions.

5. Factory installed, not interchangeable on site.

6. Consult factory for photometric performance.
7. Optical options are factory installed and cannot be changed in the field.

8. Not available for WFL, VWFL, NAS, WW, 2, 2BLS, 3, 3BLS, 4, 4BLS and 5S optics.

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

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

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

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

How to Order

| Finish                                                                              | Control                                                           | Option                                                                    | Certification                                         | Cable Length <sup>(18)</sup> <sup>(22)</sup> <sup>(24)</sup> |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------|
| <b>BK</b><br>Black Sandtex®                                                         | <b>NO</b><br>On/Off Control                                       | <b>CRC</b><br>Corrosion-Resistant Coating <sup>(19)</sup> <sup>(20)</sup> | <b>UL</b><br>UL Compliant <sup>(21)</sup>             | <b>1M</b><br>1 m <sup>(18)</sup> <sup>(23)</sup>             |
| <b>BRZ</b><br>Bronze Sandtex®                                                       | <b>LT</b><br>Lumentalk <sup>(16)</sup>                            |                                                                           | <b>CE</b><br>CE Compliant                             | <b>5M</b><br>5 m                                             |
| <b>SI</b><br>Silver Sandtex®                                                        | <b>DIM</b><br>1-10V Dimming                                       |                                                                           | <b>CEII</b><br>CE Compliant Class II Double Insulated | <b>10M</b><br>10 m                                           |
| <b>WH</b><br>Smooth White                                                           | <b>DALI</b><br>DALI Dimming                                       |                                                                           |                                                       | <b>15M</b><br>15 m                                           |
| <b>BKTX</b><br>Textured Black                                                       | <b>DMX/RDM</b><br>DMX/RDM Enabled <sup>(17)</sup> <sup>(18)</sup> |                                                                           |                                                       | <b>20M</b><br>20 m                                           |
| <b>BRZTX</b><br>Textured Bronze Non-Metallic                                        |                                                                   |                                                                           |                                                       | <b>30M</b><br>30 m                                           |
| <b>GRATX</b><br>Textured Medium Grey                                                |                                                                   |                                                                           |                                                       |                                                              |
| <b>GRNTX</b><br>Textured Green                                                      |                                                                   |                                                                           |                                                       |                                                              |
| <b>WHTX</b><br>Textured White                                                       |                                                                   |                                                                           |                                                       |                                                              |
| <b>CC</b><br>Custom Colour & Finish <sup>(13)</sup> <sup>(14)</sup> <sup>(15)</sup> |                                                                   |                                                                           |                                                       |                                                              |

Notes:

- 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.** A Lumentranslator 2 (LTL2) and LumentalkID (LIDL1) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.

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

**18.** Maximum of 1 m cable length for daisy chain DMX applications with CBX-DS.
- 19.** Use only when exposed to salt spray. This option is not required for normal outdoor exposure.

**20.** Setup charges apply. Consult factory for details.

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

**22.** 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.

**23.** Not available with WAM24 or WAM24NC mounting options.

**24.** 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.