# Specification Sheet

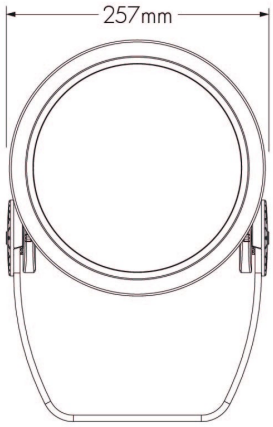
**lumenbeam**
**Large**
**LBL**

COLOUR CHANGING

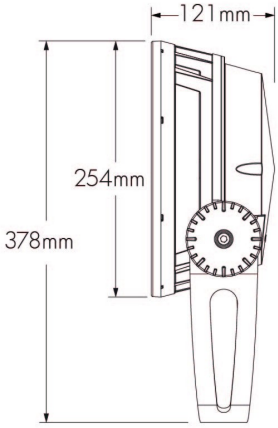
**Project Name** _____ **Qty** _____

**Type** _____ **Catalog / Part Number** _____






Front view




Side view

## Photometric Summary

**Symmetric**

| | Delivered output (lm) | Intensity (peak cd) |
|---|---|---|
| **VN (6°)** | 2073* | 108,001* |
| **NS (10°)** | 2220* | 78,722* |
| **NF (20°)** | 2193* | 20,564* |
| **M (30°)** | 2005* | 9063* |
| **FL (40°)** | 1890* | 4666* |
| **WFL (60°)** | 1568* | 1628* |

**Asymmetric**

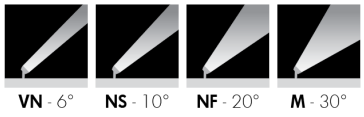
| | Delivered output (lm) | Intensity (peak cd) |
|---|---|---|
| **NAS** | 2306* | 35,519* |
| **WW** | 1910* | 8487* |

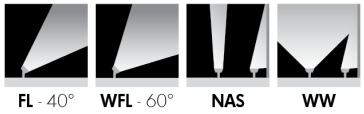
Based on RGBW full output, DMX/RDM configuration.

Photometric performance is measured in compliance with IESNA LM-79-08.

*Estimated. Consult website for the latest photometric files.

## Optics




## Colours and Colour Temperatures

RGB RGBW RGBA

## Controls

lumentalk DMXrdm DALI T8

## Ratings

IP66 IK10

## Description

The Lumenbeam Large Colour Changing is an IP66-rated luminaire for lighting landscapes, trees, columns, monuments, and architectural details. The system offers numerous options including optics for flood or accent lighting, a choice of RGB, RGBW or RGBA colour mixing, as well as various accessories, spread lenses, and controls. The luminaire also has an anti-corrosion option for use in harsh, chemical, or coastal environments.

## Features

| | |
|---|---|
| **Colour and Colour Temperature** | Additive RGB, Additive RGB + white 4000K, Additive RGB + amber |
| **Optics (nominal distribution)** | VN (6°), NS (10°), NF (20°), M (30°), FL (40°), WFL (60°), NAS (Narrow Asymmetric), WW (Asymmetric Wallwash) |
| **Optical Option** | Linear spread lens horizontal distribution, Linear spread lens vertical distribution |
| **Options** | Short Yoke, 3G ANSI C136.31-2010 Vibration Rating for bridge applications, Corrosion-resistant coating for hostile environments |
| **Cable Colour** | Black, White |
| **Power Consumption** | 50 W |
| **Warranty** | 5-year limited warranty |

## Performance

| | |
|---|---|
| **Maximum Delivered Output** | 2306 lm (RGBW full output, NAS, DMX/RDM) |
| **Maximum Delivered Intensity** | 108,001 cd at nadir (RGBW full output, VN 6°, DMX/RDM) |
| **Illuminance at Distance** | Minimum 1 lx at 329 m (RGBW full output, VN 6°, DMX/RDM) |
| **Lumen Maintenance** | L70 B50 120,000 hrs (Ta 25 °C) |

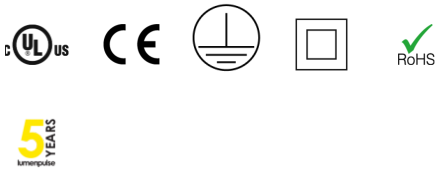
## Physical

| | |
|---|---|
| **Housing Material** | Low copper content high pressure die-cast aluminium |
| **Yoke Material** | Heavy aluminium (standard yoke included) |
| **Lens Material** | Clear tempered glass |
| **Hardware Material** | Stainless steel |
| **Gasket Material** | Silicone |

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info@lumenpulse.com **www.lumenpulsegroup.com** **www.lumenpulse.com/products/1388**

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## Certifications




| | |
|---|---|
| **Surface Finish** | Electrostatically applied polyester powder coat |
| **Weight** | 5.44 kg |
| **EPA** | Front = 0.06 sq m, Side = 0.02 sq m |

## 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), 5C: 5 x 1,5 $mm^2$ (DALIT8 control), 6C: 3 x 1,5 $mm^2$/ 3 x 0,20 $mm^2$ (DMX/RDM control) |
| **Inrush Current (peak)** | 55A @230VAC |
| **Control** | Lumentalk, DMX/RDM enabled, DALI-2 dimming Type 8 |
| **Resolution (DMX/RDM)** | Per fixture, 8-bit or 16-bit, 3 channels (RGB) or 4 channels (RGBW, RGBA) |
| **RGB Colour Mixing** | 36 LEDs (12x Red, 12x Green, 12x Blue) |
| **RGBW Colour Mixing** | 28 LEDs (7x Red, 7x Green, 7x Blue, 7x White 4000K) |
| **RGBA Colour Mixing** | 28 LEDs (7x Red, 7x Green, 7x Blue, 7x Amber) |

## Environmental

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

## Accessories (order separately)

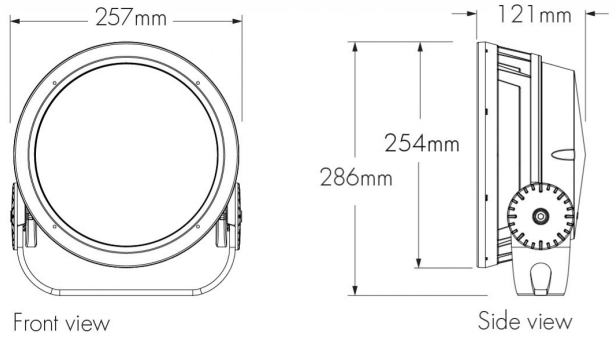
| | |
|---|---|
| **Optical Accessories** | Snoot, Snoot wide, Lumenbeam Large Visor, Linear spread lens adjustable, Wire guard |
| **Control Boxes** | DMX/RDM enabled (daisy chain or star configuration), Ethernet enabled (daisy chain or star configuration) |
| **Control Systems** | Pharos® kit |
| **Diagnostic and Addressing Tools** | LumenID, LumentalkID |



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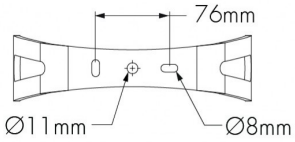
## Mounting options

**SY - Short yoke**

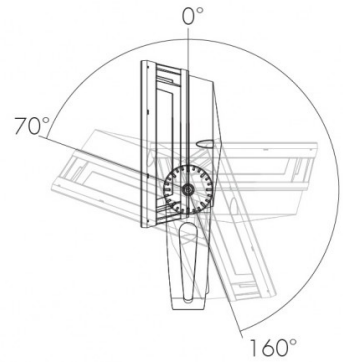



## Mounting details

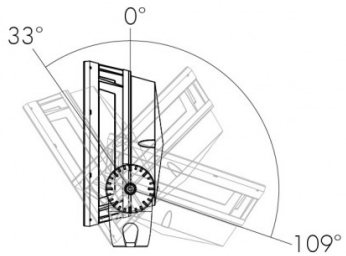
**Mounting hole pattern - standard and short yoke**




**Adjustable pivot limits (adjustable in 6 degree increments)**



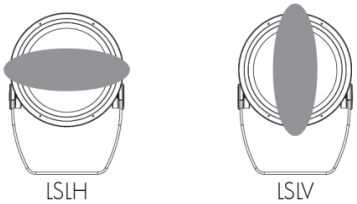

Standard yoke




Short yoke

## Optical options

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




| | Beam angle with LSLH/LSLV |
|---|---|
| **VN** | 7° x 60° |
| **NS** | 13° x 66° |
| **NF** | 16° x 62° |
| **M** | 23° x 65° |
| **FL** | 33° x 70° |

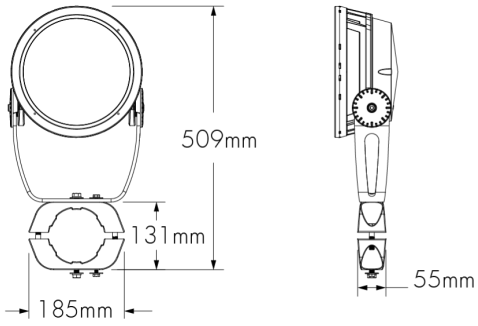
Factory installed, not adjustable on site. Not available for WFL, NAS and WW optics.
See 'Optical Accessories' section for field adjustable spread lens (LSLA).



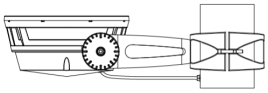
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## Mounting accessories (order separately)

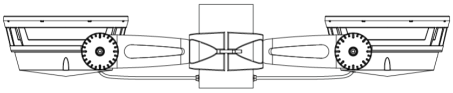
**Round pole mounting accessory**




PM4 model shown. Consult factory for square pole section.



**PM4-1, PM4.5-1, PM5-1 -** Round pole mounting accessory - single fixture

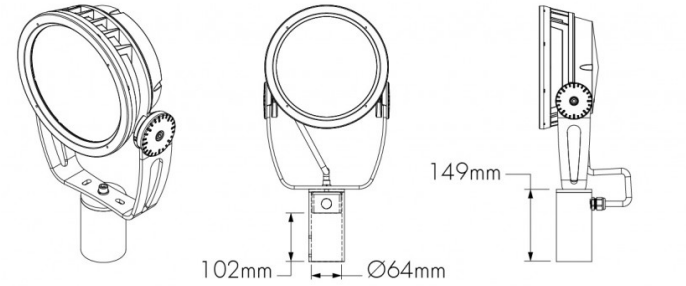


**PM4-2, PM4.5-2, PM5-2 -** Round pole mounting accessory - twin fixtures
*One bracket assembly is supplied per 2 fixtures unless otherwise specified.

| | PM4 | PM4.5 | PM5 |
|---|---|---|---|
| For pole Ø | 101.6mm ± 1.6mm | 114.3mm ± 1.6mm | 127mm ± 1.6mm |

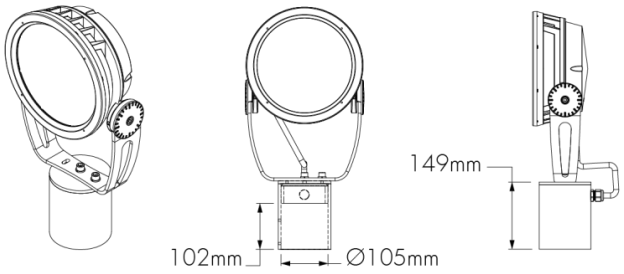
Consult factory for other pole diameters.

**Tenon adapter**




**TN2 -** Tenon adapter to fit on 60 mm O.D. tenon

Vertical mounting only. Consult factory for horizontal mounting.




**TN4 -** Tenon adpater to fit on 102 mm O.D. tenon

Vertical mounting only. Consult factory for horizontal mounting.

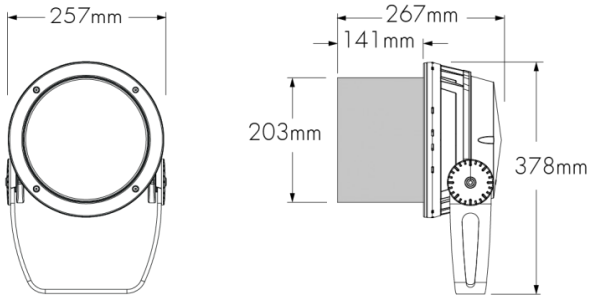


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## Optical accessories (order separately)

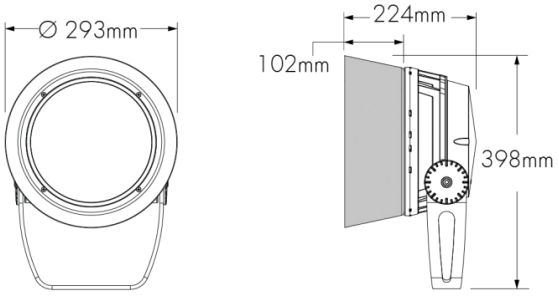
Installed optical accessories will affect the maximum pivot limits for each mounting option, consult factory for details.

**SN - Snoot**



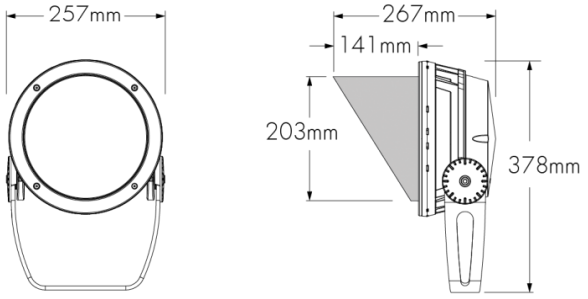

LBLSN-**FINISH**-BK-**OPTIONS** (CRC)
Interior surface painted black. Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

**SNW - Snoot wide**



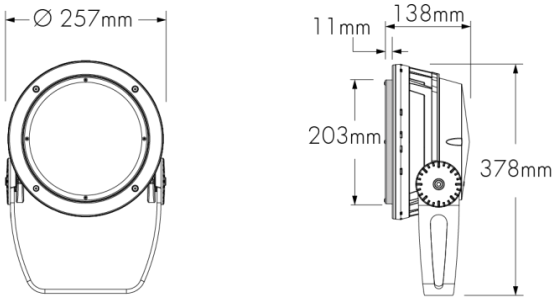

LBLSNW-**FINISH**-BK-**OPTIONS** (CRC)
Interior surface painted black. Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

**VS - Visor**



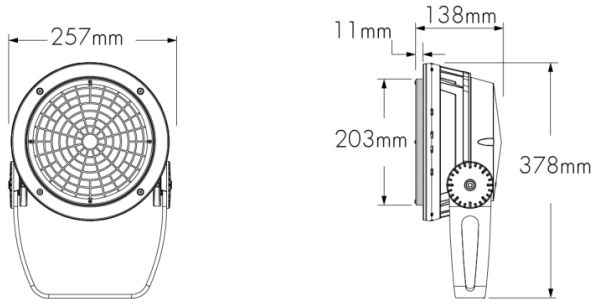

LBLVS-**FINISH**-BK-**OPTIONS** (CRC)
Interior surface painted black. Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

**LSLA - Linear spread lens adjustable**




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

**WG - Wire guard**




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

**Accessory combinations**

| + | Snoot | Snoot wide | Visor |
|---|---|---|---|
| **Linear spread lens adjustable** | LBLSNLSLA | N/A* | LBLVSLSLA |
| **Wire guard** | LBLSNWG | N/A | LBLVSWG |

Accessory combinations must be ordered together on a single line
Ex: A snoot + wire guard combination order code is LBLSNWG-**FINISH**-BK-**OPTIONS**. A maximum of two accessories can be combined per fixture.
*Consult factory for a linear spread lens adjustable + snoot wide combination.



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## Cables (order separately)

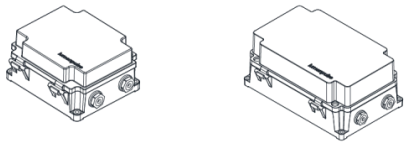
**3P3DC - 3 Conductor Power and 3 Conductor Data Cable**



**CERTIFICATION**: UL or CE
**LENGTH**: 15.2 m, 30.5 m, 45.7 m, 61 m or complete spool of cable 76.2 m

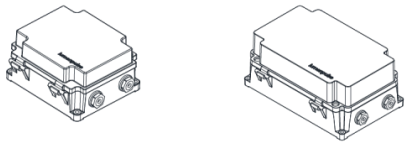
## Control boxes (order separately)

**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.

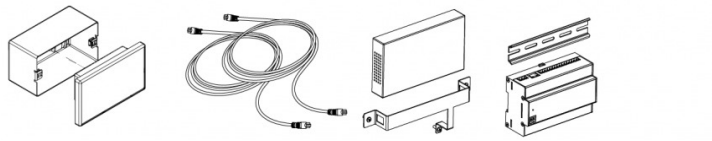
**CBX-ENET - Ethernet enabled (daisy chain or star configuration)**



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)

**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.



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## EPA Guide

| | LBL | LBL with snoot | LBL with visor | LBL with snoot wide |
|---|---|---|---|---|
| |  |  |  |  |
| **EPA front ($m^2$)** | 0.060 | 0.060 | 0.060 | 0.094 |
| **EPA side ($m^2$)** | 0.020 | 0.044 | 0.044 | 0.042 |

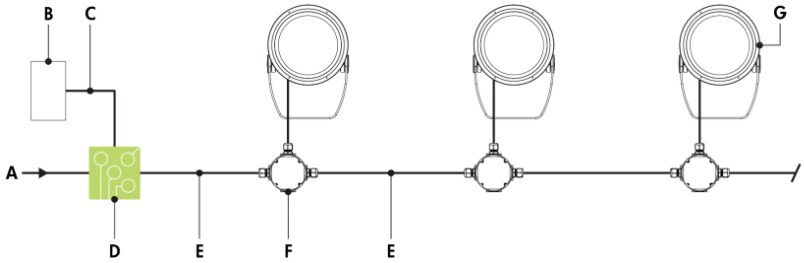
## Typical wiring diagrams

**Wiring colour code**

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

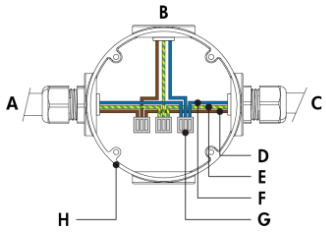
| CE Class II Colour Code | | USE |
|---|---|---|
| All other controls | DMX/RDM | |
| Brown | Brown | Line |
| Blue | Blue | Line/Neutral |
| Black 1 | Grey | Signal common (DMX/RDM only) |
| Black 2 | Black or Purple | 1-10V / Data + |
| Grey | Grey or Orange | 1-10V / Data - |
| N/A | Yellow/Green | Ground (do not connect) |

**Lumentalk (LT)**




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

**Lumentalk (LT) - wiring detail - CE**



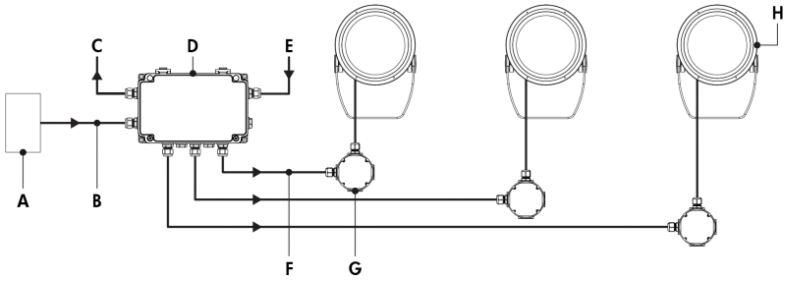

**A -** Power input (control over power line via Lumentalk system) or from previous fixture
**B -** To fixture
**C -** To next fixture
**D -** Line
**E -** Ground
**F -** Line/Neutral
**G -** Terminal connector (by others)
**H -** Junction box (by others)

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


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info@lumenpulse.com **www.lumenpulsegroup.com** **www.lumenpulse.com/products/1388**

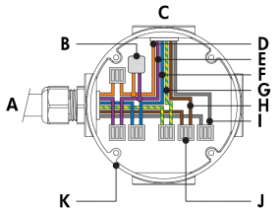
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**Star Layout (DMX/RDM)**



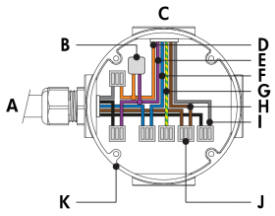

**A -** DMX/RDM controller (order separately from Lumenpulse, or by others)
**B -** Data input (Belden 9841 or equivalent, by others)
**C -** Data output to next CBX (optional, not isolated/not boosted)
**D -** CBX-ST
**E -** Power input (100-277V AC, wiring by others)
**F -** Power and data output to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

**Star Layout (DMX/RDM) - wiring detail - CE**




**A -** From CBX
**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
**B -** Lumenterminator
**C -** To fixture
**D -** Data -
**E -** Data +
**F -** Neutral
**G -** Ground (do not connect)
**H -** Line
**I -** Signal common
**J -** Terminal connector (by others)
**K -** Junction box (by others)

**Maximum fixture count per run**

| Configuration/Voltage | 120V | 208V | 240V | 277V |
|---|---|---|---|---|
| **LBL** | 18 | 28 | 32 | 32 |

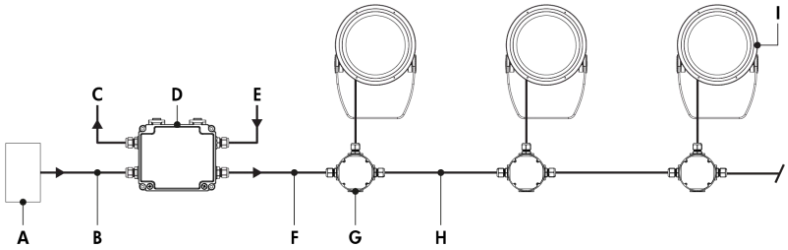
Based on 16A maximum, 1,5 $mm^2$ cable, fixtures spaced 3 m on centre, first fixture 15 m from CBX.

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



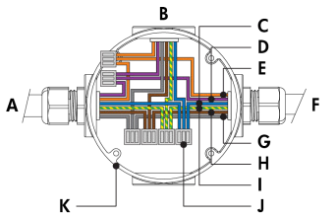
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**Daisy Chain Layout (DMX/RDM)**



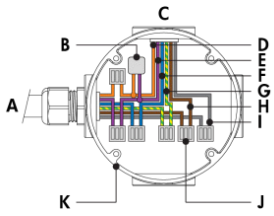

**A -** DMX/RDM controller (order separately from Lumenpulse, or by others)
**B -** Data input (Belden 9841 or equivalent, by others)
**C -** Data output to next CBX (optional, not isolated/not boosted)
**D -** CBX-DS
**E -** Power input (100-277V AC, wiring by others)
**F -** Power and data output to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

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



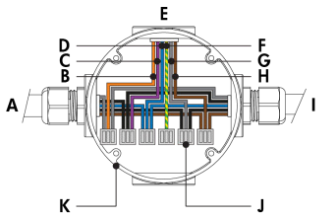

**A -** From CBX or previous fixture
**B -** To fixture
**C -** Neutral
**D -** Data +
**E -** Data -
**F -** To next fixture
**G -** Signal common
**H -** Line
**I -** Ground
**J -** Terminal connector (by others)
**K -** Junction box (by others)

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



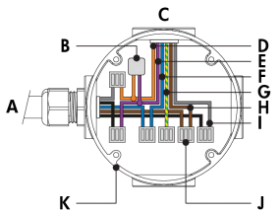

**A -** From CBX or previous fixture
**B -** Lumenterminator
**C -** To fixture
**D -** Data -
**E -** Data +
**F -** Neutral
**G -** Ground
**H -** Line
**I -** Signal common
**J -** Terminal connector (by others)
**K -** Junction box (by others)

**Daisy Chain Layout (DMX/RDM) - wiring detail (first or middle of run) - CE Class II**




**A -** From CBX or previous fixture
**B -** Data -
**C -** Data +
**D -** Neutral
**E -** To fixture
**F -** Ground (do not connect)
**G -** Signal common
**H -** Line
**I -** To next fixture
**J -** Terminal connector (by others)
**K -** Junction box (by others)

**Daisy Chain Layout (DMX/RDM) - wiring detail (end of run) - CE Class II**




**A -** From CBX
**B -** Lumenterminator
**C -** To fixture
**D -** Data -
**E -** Data +
**F -** Neutral
**G -** Ground (do not connect)
**H -** Line
**I -** Signal common
**J -** Terminal connector (by others)
**K -** Junction box (by others)



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**Maximum fixture count per run**

| Configuration/Voltage | **120V** | **208V** | **240V** | **277V** |
|---|---|---|---|---|
| **LBL** | 18 | 28 | 32 | 32 |

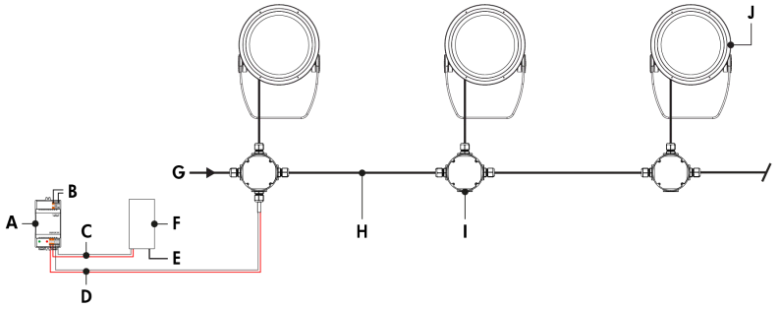
Based on 16A maximum, 1,5 $mm^2$ cable, fixtures spaced 3 m on centre, first fixture 15 m from CBX.

- Consult CBX installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Run length calculations are based on a voltage drop of no more than 25V.
- The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run.
- Maximum of 4 DMX/RDM repeaters/CBX cascading in line.
- Maximum of 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. RGBW colour mixture option requires 4 DMX addresses. RGBA colour mixture option requires 4 DMX addresses.
- DMX terminator is required at the end of each run to maintain data integrity. Two (2x) DMX lumenterminators included per CBX-DS. See installation instructions for details.
- 50 watts per fixture.



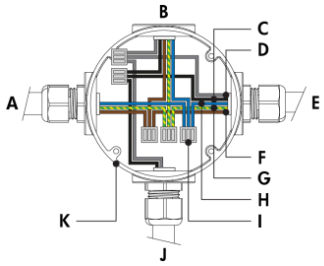
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**DALI-2 dimming Type 8 (DALIT8)**



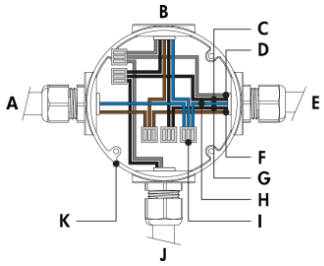

**A -** DALI bus power supply (by others)
**B -** Power input for DALI bus power supply (wiring by others)
**C -** Data output to DALI controller (wiring by others)
**D -** Data output to fixture (wiring by others)
**E -** Power input for DALI controller (if required, wiring by others)
**F -** DALI controller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

**DALI-2 dimming Type 8 (DALIT8) - wiring detail - CE**




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

**DALI-2 dimming Type 8 (DALIT8) - wiring detail - CE Class II**




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

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Maximum of 64 DALI fixtures per DALI loop.
- The Lumenbeam responds to RGBWAF controls.
- Commissioning may be required based on the selection of 3rd party DALI controller. Controller and commissioning provided by others.
- 50 watts per fixture.


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## How to order

| Housing | Voltage | Colour and Colour Temperature | Optics | Optical Option (2) (4) | Finish | Control | Options | Certification | Cable Length (11) (15) | Cable Colour |
|---|---|---|---|---|---|---|---|---|---|---|
| **LBL**<br>Lumenbeam™ Large | **100**<br>100 volts<br>**120**<br>120 volts<br>**208**<br>208 volts<br>**220**<br>220 volts<br>**240**<br>240 volts<br>**277**<br>277 volts | **RGB**<br>Additive RGB<br>**RGBW**<br>Additive RGB + white 4000K standard. 2700K, 3000K and 3500K available, consult factory. (1)<br>**RGBA**<br>Additive RGB + amber | **VN**<br>Very Narrow 6°<br>**NS**<br>Narrow Spot 10°<br>**NF**<br>Narrow Flood 20°<br>**M**<br>Medium 30°<br>**FL**<br>Flood 40°<br>**WFL**<br>WF 60°<br>**NAS**<br>Narrow Asymmetric<br>**WW**<br>Asymmetric Wallwash | **LSLH**<br>Linear spread lens horizontal distribution (3)<br>**LSLV**<br>Linear spread lens vertical distribution (3) | **BK**<br>Black Sandtex®<br>**BRZ**<br>Bronze Sandtex®<br>**SI**<br>Silver Sandtex®<br>**WH**<br>Smooth white<br>**BKTX**<br>Textured black<br>**BRZTX**<br>Textured bronze non-metallic<br>**GRATX**<br>Textured medium grey<br>**GRNTX**<br>Textured green<br>**WHTX**<br>Textured white<br>**CC**<br>Custom colour and finish (please specify RAL colour) (5) (6) (7) | **LT**<br>Lumentalk (8) (9)<br>**DMX/RDM**<br>DMX/RDM enabled (10) (11)<br>**DALIT8**<br>DALI-2 dimming Type 8 (12) | **SY**<br>Short Yoke<br>**3GV**<br>3G ANSI C136.31-2010 Vibration Rating for bridge applications<br>**CRC**<br>Corrosion-resistant coating for hostile environments (13) | **UL**<br>UL compliant (14)<br>**CE**<br>CE compliant<br>**CEII**<br>CE compliant Class II double insulated | **1M**<br>1 m (11) (15)<br>**5M**<br>5 m<br>**10M**<br>10 m<br>**15M**<br>15 m<br>**20M**<br>20 m<br>**30M**<br>30 m | **BK**<br>Black<br>**WH**<br>White (16) |

**Notes:**

**1.** Longer lead times apply for Royal Blue, 2700K, 3000K and 3500K white colour temperature mixes.
**2.** Optical options are factory installed and cannot be changed in the field.
**3.** Field adjustable spread lens optical accessory available, order separately.
**4.** Not available with WFL, NAS and WW optics.
**5.** 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.
**6.** Charges apply for RAL colours. Consult factory for details.
**7.** Longer lead times can be expected for custom RAL colour finishes.
**8.** A Lumentranslator 2 and LumentalkID (LIDLT) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.
**9.** Not available with Class II double insulated option.
**10.** A control box (CBX) and LumenID (LID) must be specified.
**11.** Maximum of 1 m cable length for daisy chain DMX applications with CBX-DS.
**12.** DALI-2 Type 8 controller required, provided by others.
**13.** Use only when exposed to salt spray and harsh chemicals. This option is not required for normal outdoor exposure.
**14.** Consult North American specification sheets and installation instructions for UL wiring information.
**15.** 1 m cable length is standard unless otherwise specified.
**16.** Not available with CE or CEII certification options.

lumenpulse™

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