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

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





Front View



Side View
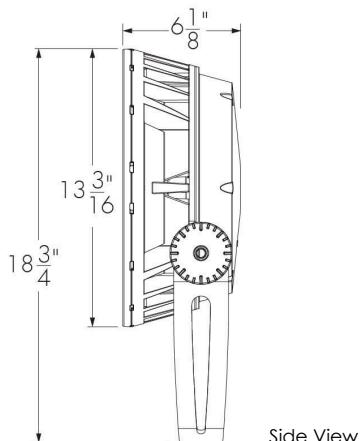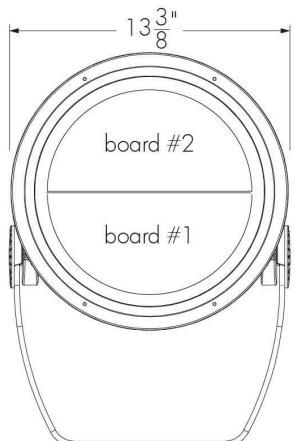
## Photometric Summary (Discrete RGBW40K)

### Symmetric

|  | Delivered output (lm) | Intensity (peak cd) |
|---|---|---|
| XN (3°) | 4,669 | 430,170 |
| VN (6°) | 5,079 | 351,460 |
| NS (10°) | 5,049 | 189,556 |
| NF (20°) | 4,425 | 37,332 |
| M (30°) | 4,483 | 18,931 |
| FL (40°) | 4,465 | 12,309 |
| WFL (60°) | 4,599 | 4,775 |
| **Asymmetric** | | |
| NAS | 3,829 | 63,368 (@2.5°) |
| WW | 4,303 | 18,755 (@5°) |

[1.] Based on RGBW40K full output.

[2.] Photometric performance is measured in compliance with IESNA LM-79-24.

[3.] Refer to the Lumenbeam Color Changing Photometric Guide on Lumenpulse website for information on other color temperatures.

## Photometric Summary (Opticolor+ MRGBWP)

### Symmetric

|  | Delivered output (lm) | Intensity (peak cd) |
|---|---|---|
| NS (10°) | 4,891 | 86,649 |
| NF (20°) | 4,375 | 28,226 |
| M (30°) | 4,255 | 15,349 |
| FL (40°) | 4,405 | 11,899 |
| WFL (60°) | 4,233 | 4,330 |
| VWFL (90°) | 3,903 | 1,988 |

[1.] Based on MRGBWP full output, white set to 3000K.

[2.] Photometric performance is measured in compliance with IESNA LM-79-24.

[3.] Refer to the Lumenbeam Color Changing Photometric Guide on Lumenpulse website for information on other color temperatures.

## Description

The Lumenbeam Grande Color 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 color 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

| | |
|---|---|
| **Colors and Color Temperature (Discrete)** | **RGBA:** Discrete Red, Green Bue, Amber<br>**RGBW30K:** Discrete Red, Green, Blue, White 30K<br>**RGBW40K:** Discrete Red, Green, Blue, White 40K<br>**RGB:** Discrete Red, Green, Blue |
| **Colors and Color Temperature (Opticolor™)** | **MRGBA:** Opticolor™ Mix-at-Source Red, Green, Blue, PC Amber |
| **Colors and Color Temperature (Opticolor+™)** | **MRGBWP:** Opticolor+™ Mix-at-Source Red, Green, Blue Plus White Settable Range 24K to 65K<br>**MRGBWP Typical Color Rendering:**<br>2700K-5000K: 90+ CRI<br>2500K-6500K: 80+ CRI<br>**MRGRBWP:** Opticolor+™ Mix-at-Source Red, Green, Royal Blue Plus White Settable Range 24K to 65K |
| **Optics (Nominal Distribution)** | **XN:** XN (3° or 5°)<br>**VN:** VN (6°)<br>**NS:** NS (10°)<br>**NF:** NF (20°)<br>**M:** M (30°)<br>**FL:** FL (40°)<br>**WFL:** WFL (60°)<br>**VWFL:** VWFL (90°)<br>**NAS:** NAS (Narrow Asymmetric)<br>**WW:** WW (Asymmetric Wallwash) |

**lumenpulse™**

1220 Marie-Victorin Blvd., Longueuil, QC, J4G 2H9, CAN  |  **T** 514.937.3003  |  1.877.937.3003  |  info@lumenpulse.com
www.lumenpulse.com   www.lumenpulse.com/products/5368

1 / 20

## Photometric Summary (Opticolor MRGBA)

### Symmetric

|  | Delivered output (lm) | Intensity (peak cd) |
|---|---|---|
| **NS (10°)** | 4,754 | 84,223 |
| **NF (20°)** | 4,253 | 27,435 |
| **M (30°)** | 4,136 | 14,919 |
| **FL (40°)** | 4,282 | 11,566 |
| **WFL (60°)** | 4,114 | 4,209 |
| **VWFL (90°)** | 3,794 | 1,932 |

[1.] Based on MRGBA full output.

[2.] Photometric performance is measured in compliance with IESNA LM-79-24.

[3.] Refer to the Lumenbeam Color Changing Photometric Guide on Lumenpulse website for information on other color temperatures.

## Optic
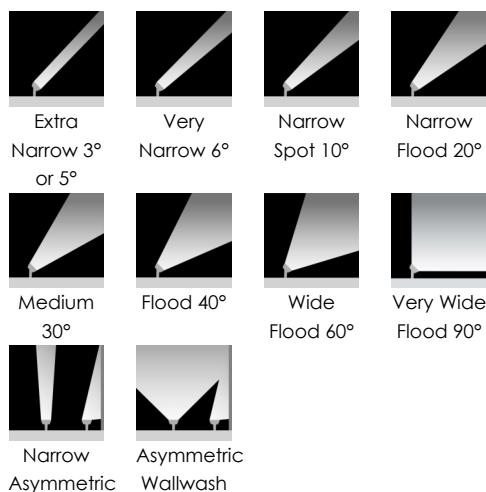


| | | | |
|---|---|---|---|
| Extra Narrow 3° or 5° | Very Narrow 6° | Narrow Spot 10° | Narrow Flood 20° |
| Medium 30° | Flood 40° | Wide Flood 60° | Very Wide Flood 90° |
| Narrow Asymmetric | Asymmetric Wallwash | | |

| | |
|---|---|
| **Optical Option** | **LSLH:** Linear Spread Lens Horizontal Distribution |
| | **LSLV:** Linear Spread Lens Vertical Distribution |
| **Option** | **SY:** Short Yoke |
| | **SRY:** Short Rotational Yoke |
| | **RY:** Rotational Yoke |
| | **3GV:** 3G ANSI C136.31-2010 Vibration Rating for Bridge Applications |
| | **CRC:** Corrosion-Resistant Coating for Hostile Environments |
| **Cable Color** | **BK:** Black |
| | **WH:** White |
| **Power Consumption** | 86 to 100 W (see Power Consumption table for details) |
| **Warranty** | 5-year limited warranty |

## Performance

| | |
|---|---|
| **Maximum Delivered Output (Discrete)** | 5,143 lm (RGB full output, VN 6°, DMX/RDM) |
| | 4,977 lm (RGBW30K full output, VN 6°, DMX/RDM) |
| | 5,079 lm (RGBW40K full output, VN 6°, DMX/RDM) |
| | 4,149 lm (RGBA full output, VN 6°, DMX/RDM) |
| **Maximum Delivered Output (Opticolor)** | 4,754 lm (MRGBA full output, NS 10°, DMX/RDM) |
| **Maximum Delivered Output (Opticolor+)** | 4,891 lm (MRGBWP full output, NS 10°, DMX/RDM) |
| **Maximum Delivered Intensity (Discrete)** | 357,498 cd at nadir (RGB full output, XN 5°, DMX/RDM) |
| | 421,567 cd at nadir (RGBW30K full output, XN 3°, DMX/RDM) |
| | 430,170 cd at nadir (RGBW40K full output, XN 3°, DMX/RDM) |
| | 351,449 cd at nadir (RGBA full output, XN 3°, DMX/RDM) |
| **Maximum Delivered Intensity (Opticolor)** | 84,223 cd at nadir (MRGBA full output, NS 10°, DMX/RDM) |
| **Maximum Delivered Intensity (Opticolor+)** | 86,649 cd at nadir (RGBW30K full output, XN 3°, DMX/RDM) |
| **Illuminance at Distance (Discrete)** | Minimum 1 fc at 600 ft (RGB full output, XN 5°, DMX/RDM) |
| | Minimum 1 fc at 652 ft (RGBW30K full output, XN 3°, DMX/RDM) |
| | Minimum 1 fc at 659 ft (RGBW40K full output, XN 3°, DMX/RDM) |
| | Minimum 1 fc at 595 ft (RGBA full output, XN 3°, DMX/RDM) |
| **Illuminance at Distance (Opticolor)** | Minimum 1 fc at 290 ft (MRGBA full output, NS 10°, DMX/RDM) |
| **Illuminance at Distance (Opticolor+)** | Minimum 1 fc at 294 ft (MRGBWP full output, NS 10°, DMX/RDM) |
| **Lumen Maintenance** | L70 (15K) > 90,000 hrs Ta 25 °C (TM-21 reported) |
| | L70 > 150,000 hrs Ta 25 °C (projected)* |
| | L90 (15K) = 55,400 hrs Ta 25 °C (TM-21 reported) |
| | L90 = 55,400 hrs Ta 25 °C (projected)* |
| | *Estimated based on in-situ case temperature and LM-80 report |

## Physical

| | |
|---|---|
| **Housing Material** | Low copper content high pressure die-cast aluminum |
| **Yoke Material** | Heavy aluminum (standard yoke included) |
| **Lens Material** | Clear tempered glass |

**lumenpulse™**

1220 Marie-Victorin Blvd., Longueuil, QC, J4G 2H9, CAN | **T** 514.937.3003 | 1.877.937.3003 | info@lumenpulse.com
www.lumenpulse.com    www.lumenpulse.com/products/5368

## Color and Color Temperature

**Opticolor+™**
Mix-at-Source Red, Green, Blue Plus White Settable Range 24K to 65K

**Opticolor™**
Mix-at-Source Red, Green, Blue, PC Amber

**RGBA** Red Green Blue Amber
Discrete Red, Green Bue, Amber

**RGBW 30K** Red Green Blue White
Discrete Red, Green, Blue, White 30K

**RGBW 40K** Red Green Blue White
Discrete Red, Green, Blue, White 40K

**RGB** Red Green Blue
Discrete Red, Green, Blue

**Opticolor+™**
Mix-at-Source Red, Green, Royal Blue Plus White Settable Range 24K to 65K

## Control

lumentalk   DMX/RDM   DALI T8

## Ratings

IP66    IK09

## Certifications

| Dome Lens Material | Acrylic |
|---|---|
| **Hardware Material** | Stainless steel |
| **Gasket Material** | Silicone |
| **Surface Finish** | Electrostatically applied polyester powder coat |
| **Weight** | 24 lbs |
| **EPA** | Front = 1.12 ft², Side = 0.34 ft² |

## Electrical and Control

| Voltage | 100 to 277 volts |
|---|---|
| **Fixture Cable** | Power and data in one cable |
| **Conductors** | 3C #16-3 (LT control) <br> 5C #16-5 (DALIT8 control) <br> 6C #14-3/ #24-3 (DMX/RDM control) |
| **Control** | Lumentalk, DMX/RDM Enabled, DALI 2 T8 Enabled Dimming 0.1% |
| **Resolution (DMX/RDM)** | Per board or fixture (configured with LumenID V3 software), 8-bit or 16-bit, 3 channels (RGB) or 4 channels (RGBW30K, RGBW40K, RGBA, MRGBA, MRGBWP and MRGRBWP) |

## Environmental

| Storage Temperature | -40 °F to 158 °F (device must reach start-up temperature value before operating) |
|---|---|
| **Start-up Temperature** | -13 °F to 122 °F |
| **Operating Temperature** | -40 °F to 122 °F |
| **Ingress Protection Rating** | IP66 <br> Wet location rated |
| **Impact Resistance Rating** | IK09 |
| **Application Wind Speed** | Luminaires were designed based on AASHTO 2013 standard to ensure highest quality and safety. Installation should be validated by a local project engineer to ensure the luminaires are suitable for the wind speed and exposure of the specific application |

## Accessories (Order Separately)

| Optical Accessories | Lumenbeam Grande Snoot, Lumenbeam Grande Snoot Wide, Lumenbeam Grande Visor, Lumenbeam Grande Linear Spread Lens Adjustable, Lumenbeam Grande Wire Guard, Lumenbeam Grande Dome Lens |
|---|---|
| **Control Boxes** | DMX/RDM enabled (Daisy Chain or Star Configuration), Ethernet enabled (Daisy Chain or Star Configuration) |
| **Control Systems** | Pharos® Designer Lighting Control Kit (PHAROS), Pharos® Expert Control Kit (EXPERT) |
| **Diagnostic and Addressing Tools** | LumenID (LID) |

## Important

**Virtual Patent Marking Notice**

This website (https://www.lmpg.com/patents-trademarks) is provided to satisfy the virtual patent marking provisions of applicable jurisdictions. Some products listed may be covered by additional patents not referenced here.

## Power Consumption

| Control Option | Color and Color Temperature | Optic | Wattage (W) |
|---|---|---|---|
| LT<br>DMX/RDM<br>DALIT8 | RGB | XN/NAS | 100 |
| | | VN/NS/NF/M/FL/WFL/<br>VWFL/WW | 86 |
| LT<br>DMX/RDM<br>DALIT8 | RGBW, RGBA | XN/NAS | 96 |
| | | VN/NS/NF/M/FL/WFL/<br>VWFL/WW | 90 |
| LT<br>DMX/RDM<br>DALIT8 | MRGBA, MRGBWP,<br>MRGRBWP | NS/NF/M/FL/WFL/VWFL | 100 |

## Color Point Information

**MRGBWP**
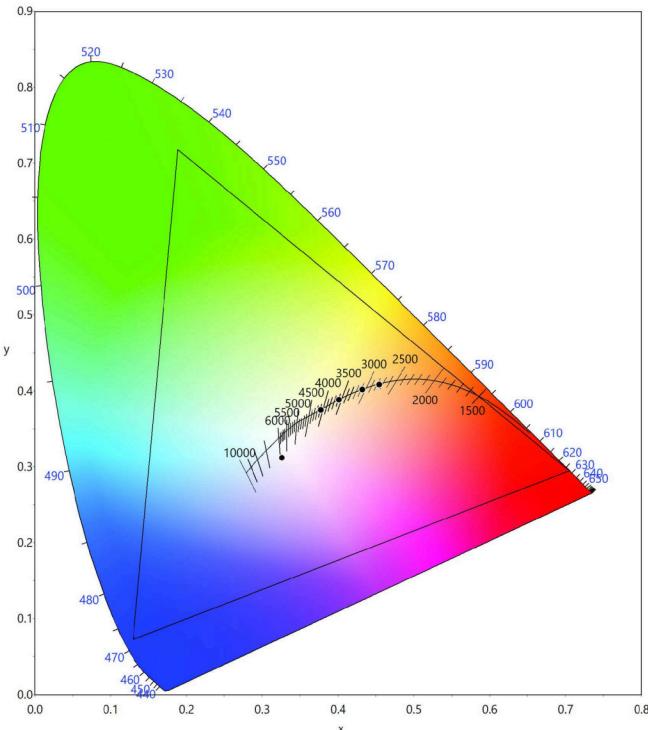


**Dominant Wavelength and Chromaticity**

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

| | Cx | Cy |
|---|---|---|
| **MRGBWP Full On** | 0.3261 | 0.3121 |
| **27K Optidrive** | 0.4545 | 0.4081 |
| **30K Optidrive** | 0.4318 | 0.4017 |
| **35K Optidrive** | 0.4010 | 0.3883 |
| **40K Optidrive** | 0.3773 | 0.3747 |

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

**lumenpulse**™

1220 Marie-Victorin Blvd., Longueuil, QC, J4G 2H9, CAN  |  **T** 514.937.3003  |  1.877.937.3003  |  info@lumenpulse.com
www.lumenpulse.com     www.lumenpulse.com/products/5368

LMPG Inc. reserves the right to make changes to this product at any time without prior notice and such modification shall be effective immediately.
2025.11.27 Copyright © 2025 LMPG Inc.
JC - R30

4 / 20

## Mounting Options

### SY - Short Yoke



13 $\frac{3}{8}$ "

6 $\frac{1}{8}$ "

13 $\frac{15}{16}$ "

Front view

Side view

### SRY - Short Rotational Yoke



13 $\frac{3}{8}$ "

14 $\frac{1}{8}$ "

∅5"

### RY - Rotational Yoke



13 $\frac{3}{8}$ "

18 $\frac{3}{4}$ "

∅5"
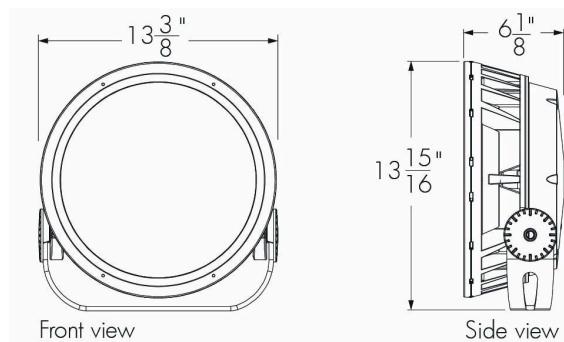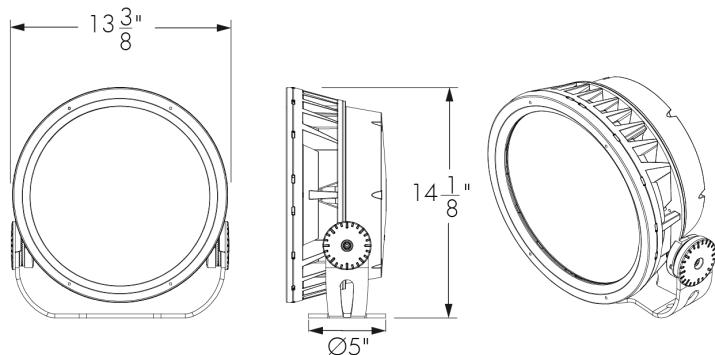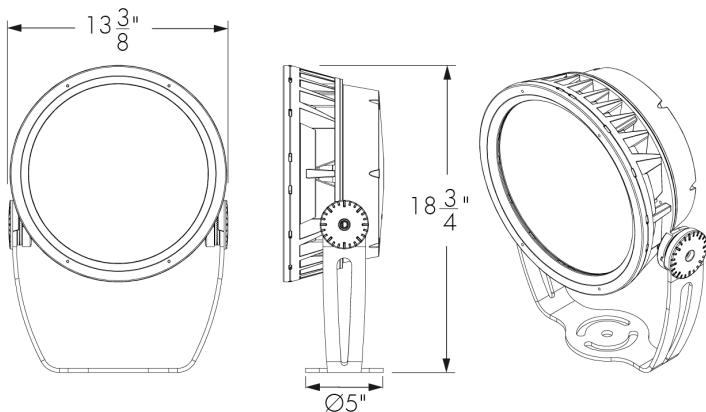
## Mounting Details

### Mounting Hole Pattern - Standard And Short Yoke



3"

∅ $\frac{1}{2}$ "

∅ $\frac{5}{8}$ "
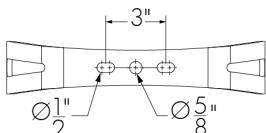
3 bolts are required for wind and vibration resistance, provided by others.

### Mounting Hole Pattern - Rotational Yoke



R $\frac{3}{16}$ "

∅5

∅3"

45°
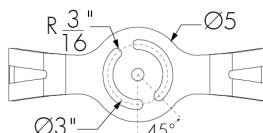
3 bolts are required for wind and vibration resistance, provided by others.

## Adjustable Pivot Limits (Adjustable In 6 Degree Increments)
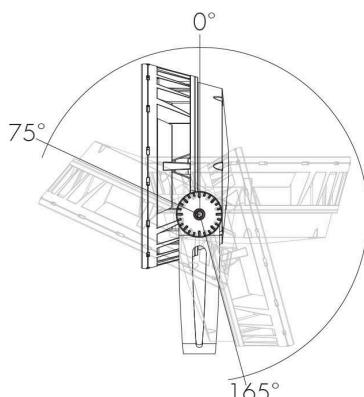


Standard Yoke



Short Yoke

lumenpulse™

1220 Marie-Victorin Blvd., Longueuil, QC, J4G 2H9, CAN   |   **T** 514.937.3003   |   1.877.937.3003   |   info@lumenpulse.com
**www.lumenpulse.com**      **www.lumenpulse.com/products/5368**

LMPG Inc. reserves the right to make changes to this product at any time without prior notice and such modification shall be effective immediately.
2025.11.27 Copyright © 2025 LMPG Inc.
JC - R30

6 / 20
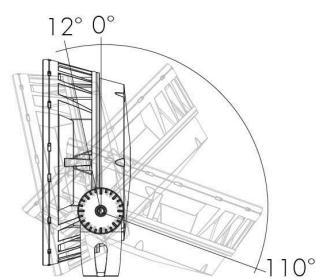
## Optical Options – Discrete

**LSLH - Linear Spread Lens Horizontal Distribution**
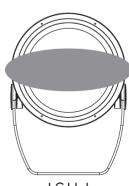
LSLH

LSLH - Linear spread lens horizontal distribution

**LSLV - Linear Spread Lens Vertical Distribution**
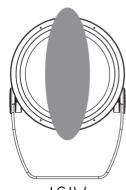
LSLV

**Beam Angles**

| Optic installed in fixture | Beam angle with LSLH/LSLV |
|---|---|
| **XN** | 5° x 60° |
| **VN** | 8° x 50° |
| **NS** | 9° x 56° |
| **NF** | 17° x 57° |
| **M** | 27° x 68° |
| **FL** | 37° x 74° |

LLF: 0.88*

*LLF may vary slightly by distribution chosen.

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

## Optical Options - Opticolor™ and Opticolor+

**LSLH - Linear Spread Lens Horizontal Distribution**
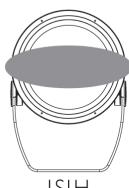
LSLH

LSLH - Linear spread lens horizontal distribution

**LSLV - Linear Spread Lens Vertical Distribution**

LSLV

**Beam Angles**

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

LLF: 0.88*

*LLF may vary slightly by distribution chosen.

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

**lumenpulse**™

1220 Marie-Victorin Blvd., Longueuil, QC, J4G 2H9, CAN   |   **T** 514.937.3003   |   1.877.937.3003   |   info@lumenpulse.com
www.lumenpulse.com      www.lumenpulse.com/products/5368

7 / 20

## Mounting Accessories (Order Separately)

**Round Pole Mounting Accessory**



25"

6 1/4"

7 3/4"

2 11/16"
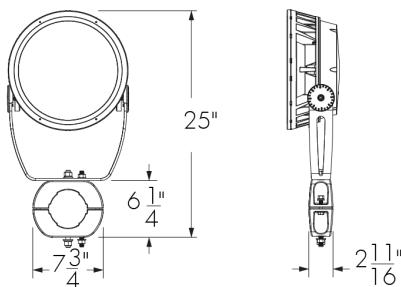
PM4 model shown.
Consult factory for square pole section.
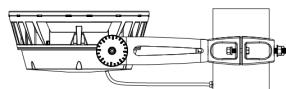
**PM4-1, PM4.5-1, PM5-1 -** Round pole mounting accessory - single fixture
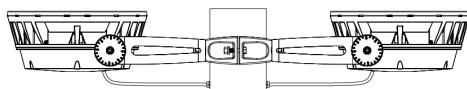
**PM4-5, PM4.5-2, PM5-2 -** Round pole mounting accessory - twin fixtures
*One bracket assembly is supplied per 2 fixtures unless otherwise specified.

| For pole Ø | PM4 | PM4.5 | PM5 |
|---|---|---|---|
| | 4" ± 1/16" | 4.5" ± 1/16" | 5" ± 1/16" |

Consult factory for other pole diameters.

**PLTU - Universal Yoke**



13 3/8"
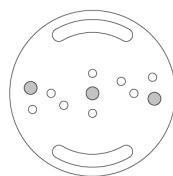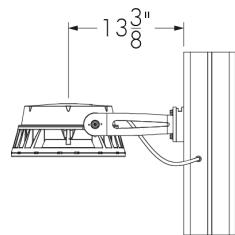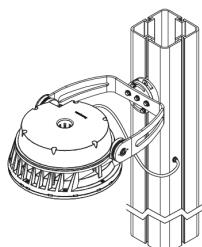
Refer to the Universal Yoke specification sheet and Pole installation instructions for more details. Square Lumentech profile shown.

The mounting holes used for this fixture are shown in gray.

**Tenon Adapter**



3 15/16"  Ø 2 1/2"  5 7/8"
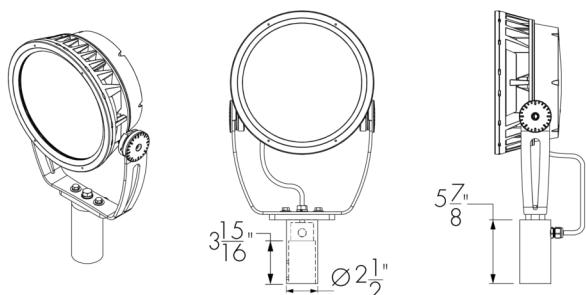
**TN2 -** Tenon adapter to fit on 2 3/8 in O.D. tenon

Vertical mounting only. Consult factory for horizontal mounting.

3 11/16"  Ø 4 1/8"  5 7/8"
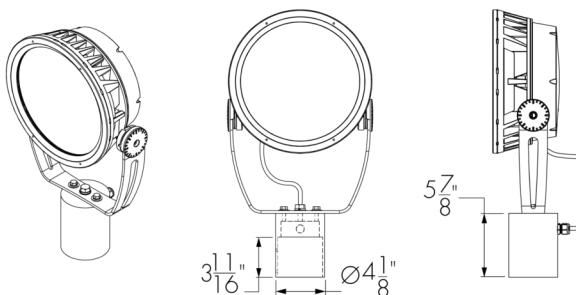
**TN4 -** Tenon adpater to fit on 4 in O.D. tenon

Vertical mounting only. Consult factory for horizontal mounting.

**lumenpulse**™

1220 Marie-Victorin Blvd., Longueuil, QC, J4G 2H9, CAN | **T** 514.937.3003 | 1.877.937.3003 | info@lumenpulse.com
www.lumenpulse.com    www.lumenpulse.com/products/5368

LMPG Inc. reserves the right to make changes to this product at any time without prior notice and such modification shall be effective immediately.
2025.11.27 Copyright © 2025 LMPG Inc.
JC - R30

8 / 20

## Optical Accessories (Order Separately)

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

**SN - Snoot**
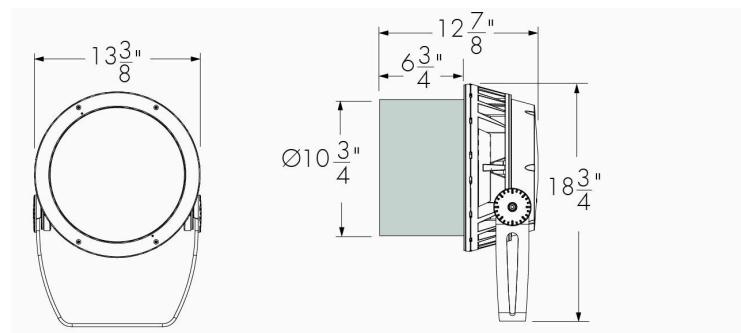


LBGSN-**FINISH**-BK-**OPTIONS** (CRC)
Interior surface painted black. Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

**SNW - Snoot Wide**
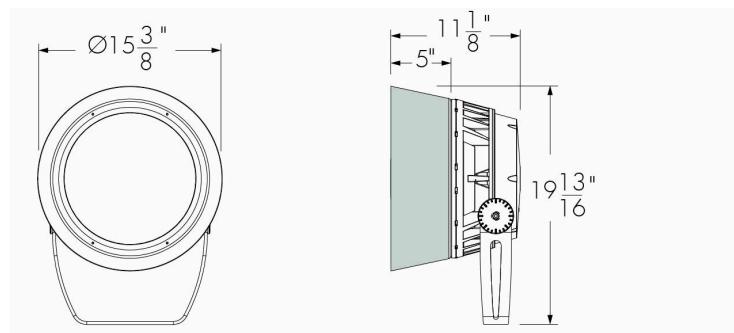


LBGSNW-**FINISH**-BK-**OPTIONS** (CRC)
Interior surface painted black. Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

**VS - Visor**



LBGVS-**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**
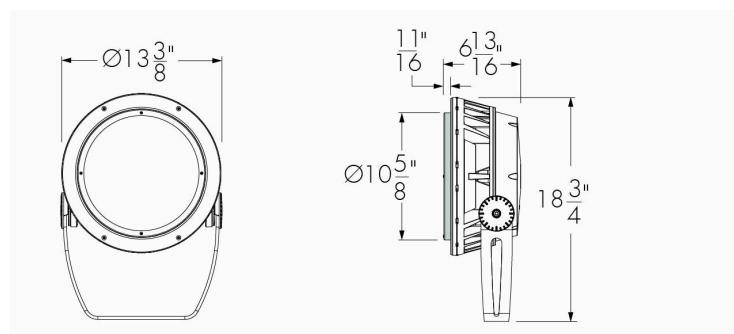


LBGLSLA-**FINISH**-**OPTIONS** (CRC)
Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

**WG - Wire Guard**



LBGWG-**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** | LBGSNLSLA | N/A* | LBGVSLSLA |
| **Wire guard** | LBGSNWG | N/A | LBGVSWG |

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

**lumenpulse**™

1220 Marie-Victorin Blvd., Longueuil, QC, J4G 2H9, CAN | **T** 514.937.3003 | 1.877.937.3003 | info@lumenpulse.com
www.lumenpulse.com    www.lumenpulse.com/products/5368

9 / 20

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

**DM - Dome Lens**
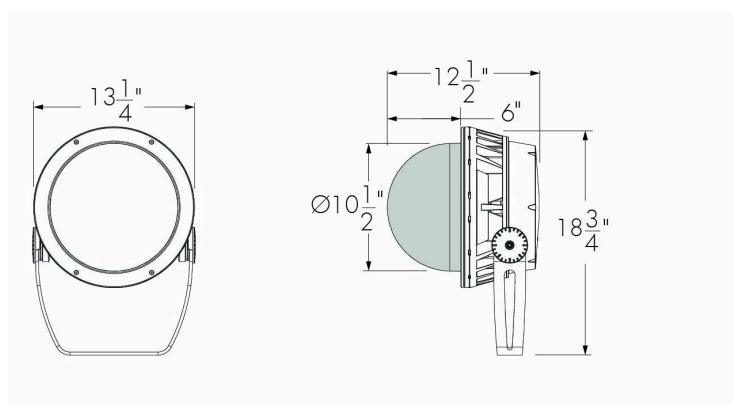


LBGDM-**FINISH**-**OPTIONS** (CRC)
Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

**Dome - Short Yoke - Pivot limits**
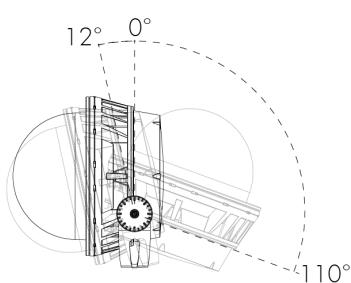


**Dome - Standard Yoke - Pivot limits**
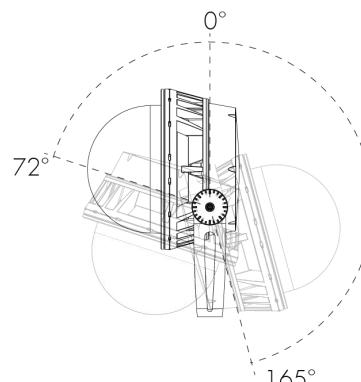


Dome Lens is available with WFL Optic only. The WFL optic must be specified for the fixture.

Dome Lens cannot be combined with other optical accessories.

Dome Lens will affect beam distribution. Consult factory for application support and photometric performance.

lumenpulse™

1220 Marie-Victorin Blvd., Longueuil, QC, J4G 2H9, CAN   |   **T** 514.937.3003   |   1.877.937.3003   |   info@lumenpulse.com
www.lumenpulse.com      www.lumenpulse.com/products/5368

10 / 20

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

**Diffuser Lens 1 (1 Notch)**
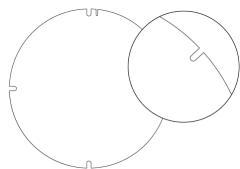
147683

**Diffuser Lens 2 (2 Notches)**
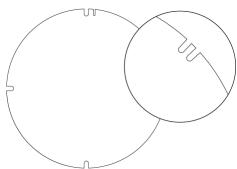
147684

**Diffuser Lens 3 (3 Notches)**
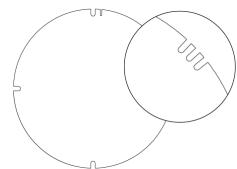
147685

**Diffuser Lens 4 (4 Notches)**
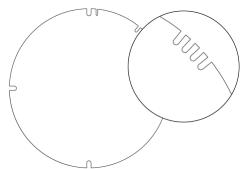
147686

**Diffuser Lens 5 (5 Notches)**
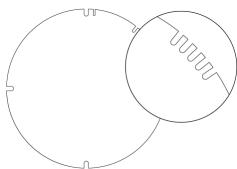
147687

**Diffuser Lens 6 (6 Notches)**
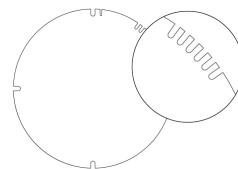
147688

## Final Distribution Using Diffuser Lenses

| Original Distribution on Fixture | Final Distribution Using Diffuser Lens | | | | | |
|---|---|---|---|---|---|---|
| | **Diffuser Lens 1** 1 Notch | **Diffuser Lens 2** 2 Notches | **Diffuser Lens 3** 3 Notches | **Diffuser Lens 4** 4 Notches | **Diffuser Lens 5** 5 Notches | **Diffuser Lens 6** 6 Notches |
| **XN (4°/5°)** | VN | NS | NF | M | FL | WFL |
| **VN (6°)** | NS | | | | | |
| **NS (10°)** | | | | | | |
| **NF (20°)** | | | | | | |
| **M (30°)** | | | | FL | WFL | |
| **FL (40°)** | | | | | | |
| **WFL (60°)** | | | | | | VWFL |
| **VWFL (90°)** | | | | | | |

Choose a diffuser lens based on the desired final beam distribution. Refer to the 6-digit part numbers above to order diffuser lenses individually. To order a complete set of 6 diffuser lenses in a bag, refer to the following item names: **LBS:** LBALK-S **LBM/LBMP:** LBALK-M **LBL/LBLP**: LBALK-L **LBG/LBGP:** LBALK-G **LBX/LBXP:** LBALK-X.

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: **LBS:** LBSLSLA-**FINISH**-LBALK **LBM/LBMP:** LBMLSLA-**FINISH**-LBALK **LBL/LBLP:** LBLLSLA-**FINISH**-LBALK **LBG/LBGP:** LBGLSLA-**FINISH**-LBALK **LBX/LBXP:** LBXLSLA-**FINISH**-LBALK

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.

**lumenpulse™**

1220 Marie-Victorin Blvd., Longueuil, QC, J4G 2H9, CAN | **T** 514.937.3003 | 1.877.937.3003 | info@lumenpulse.com
www.lumenpulse.com     www.lumenpulse.com/products/5368

11 / 20

## Control Boxes (Order Separately)

**CBX-DMX/RDM - DMX/RDM Enabled (Daisy Chain or Star Configuration)**
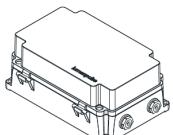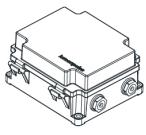
DMX/RDM control box. Up to six power and data outputs to fixtures or fixture runs. Consult CBX specification sheet and installation instructions for details. Lumenterminators provided with CBX (2x for Daisy Chain configuration, 6x for Star configuration), consult factory to order spares.

**CBX-ENET - Ethernet Enabled (Daisy Chain or Star Configuration)**
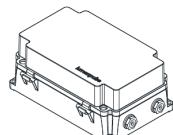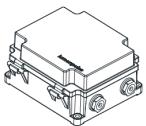
Ethernet control box. Up to four power and data outputs to fixture or fixture runs. Consult Ethernet CBX specification sheet and installation instructions for details.

## Control Systems (Order Separately)

**PHAROS - Pharos® Designer Lighting Control Kit**

The Pharos Designer Lighting Contol Kit, available for 1 or 2 DMX universes, allows for complete control of large lighting installations.

**EXPERT - Pharos® Expert Control Kit**

The Pharos Expert Control Kit, available for 1, 2, 4 or 6 DMX universes, allows for complete control of large lighting installations.

## Diagnostic And Addressing Tools (Order Separately)

**LID - LumenID**

The updated LumenID (LID) is an all-in-one diagnostic and addressing solution for both DMX/RDM and Lumentalk (LT) systems. Engineered for versatility, it streamlines commissioning and troubleshooting across protocols—no need for multiple tools. Cable option may vary; please consult factory. For complete details, refer to the LID specification sheet.

1220 Marie-Victorin Blvd., Longueuil, QC, J4G 2H9, CAN  |  **T** 514.937.3003  |  1.877.937.3003  |  info@lumenpulse.com
www.lumenpulse.com    www.lumenpulse.com/products/5368

12 / 20

## EPA Guide

| | LBG | LBG with Snoot | LBG with Visor | LBG with Snoot Wide | LBG with Dome Lens |
|---|---|---|---|---|---|
| **EPA front (sq ft)** | 1.117 | 1.117 | 1.117 | 1.800 | 1.117 |
| **EPA side (sq ft)** | 0.341 | 0.740 | 0.726 | 0.733 | 0.491 |

## Resolution Details (Discrete)

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

board #2
4,5,6
color 2

board #1
1,2,3
color 1

RGB color mixing option

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

board #1
1,2,3,4
color 1
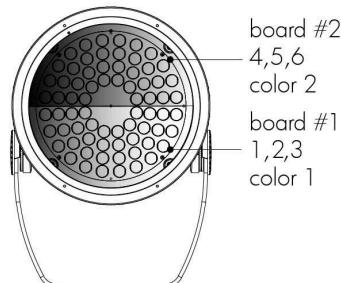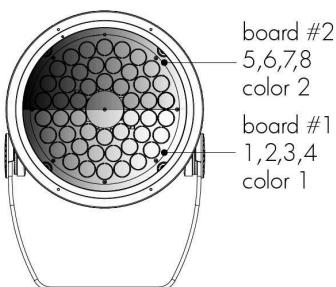
RGBW30K, RGBW40K and RGBA color mixing options

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

1,2,3
color 1

RGB color mixing option

1,2,3,4
color 1

RGBW30K, RGBW40K and RGBA color mixing options

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

**lumenpulse**™

1220 Marie-Victorin Blvd., Longueuil, QC, J4G 2H9, CAN   |   **T** 514.937.3003   |   1.877.937.3003   |   info@lumenpulse.com
www.lumenpulse.com      www.lumenpulse.com/products/5368

LMPG Inc. reserves the right to make changes to this product at any time without prior notice and such modification shall be effective immediately.
2025.11.27 Copyright © 2025 LMPG Inc.
JC - R30

13 / 20

## Resolution Details (Opticolor and Opticolor+)

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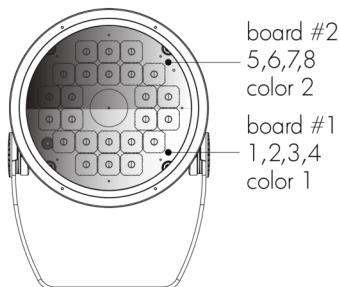


board #2
5,6,7,8
color 2

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

MRGBA, MRGBWP and MRGRBWP color mixing options

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

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



1,2,3,4
color 1
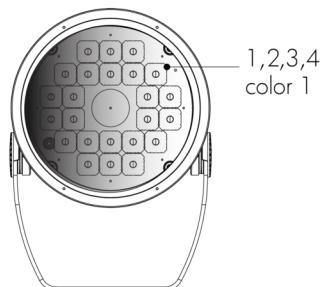
MRGBA, MRGBWP and MRGRBWP color mixing options

## Typical Wiring Diagrams

### Wiring Color Code

| UL Color Code | USE |
|---|---|
| Green | Ground |
| Black | Line |
| White | Line/Neutral |
| Red or Purple | 0-10V / Data + |
| Orange | 0-10V / Data - |
| Gray | Signal common (DMX/RDM only) |

### Lumentalk (LT)
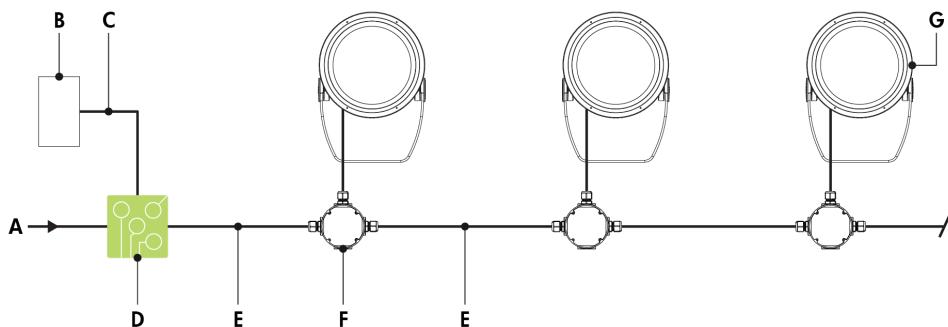


**A -** Power input (100-277V AC, wiring by others)
**B -** DMX/RDM controller (order separately from Lumenpulse, or by others)
**C -** Data wiring (by others)
**D -** Lumentranslator 2 (LTL2-DMX)
**E -** Power wiring (by others)
**F -** Junction box (by others)
**G -** Lumenbeam Grande

### Lumentalk (LT) - Wiring Detail
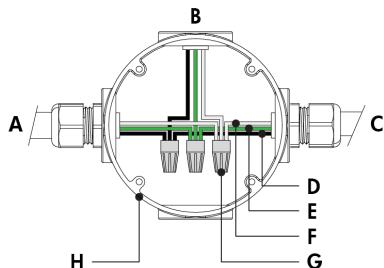


**A -** Power input (control over power line via Lumentalk system) or from previous fixture
**B -** To fixture
**C -** To next fixture
**D -** Line
**E -** Ground
**F -** Line/Neutral
**G -** Wire-nut (by others)
**H -** Junction box (by others)

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Lumentalk enabled fixtures must be commissioned using LumentalkID software and a LID. 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 colors is 1 minute). Consult factory for applications that require additional capabilities.
- 86 to 100 watts per fixture, see Power Consumption table for details.
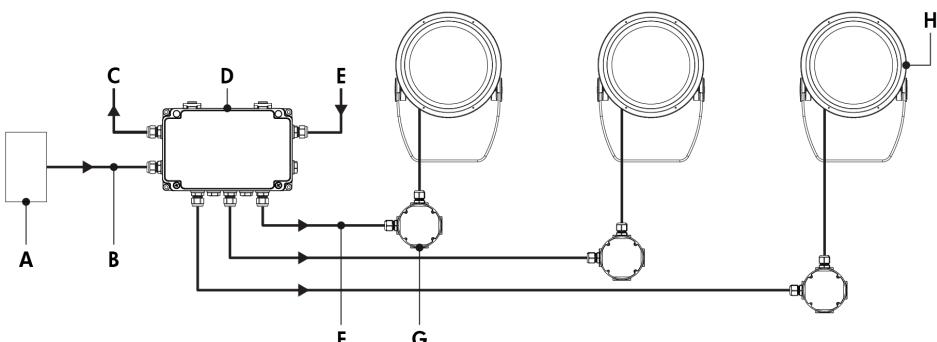
1220 Marie-Victorin Blvd., Longueuil, QC, J4G 2H9, CAN | **T** 514.937.3003 | 1.877.937.3003 | info@lumenpulse.com
www.lumenpulse.com   www.lumenpulse.com/products/5368

LMPG Inc. reserves the right to make changes to this product at any time without prior notice and such modification shall be effective immediately.
2025.11.27 Copyright © 2025 LMPG Inc.
JC - R30

15 / 20

## 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 Grande

## Star Layout (DMX/RDM) - Wiring Detail



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

## Maximum Fixture Count Per Run

| Configuration/Voltage | 120V | 208V | 240V | 277V |
|---|---|---|---|---|
| **LBG** | 10 | 16 | 18 | 21 |

Based on 15A maximum, 16AWG cable, fixtures spaced 10 ft on center, first fixture 50 ft from CBX.

- Consult CBX installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run.
- Maximum of 4 DMX/RDM repeaters/CBX cascading in line.
- Maximum of 6 outputs per CBX-ST.
- RGB color mixture option requires 3 DMX addresses. RGBW30K and RGBW40K, RGBA, MRGBA, MRGBWP and MRGRBWP color mixture options require 4 DMX addresses.
- DMX terminator is required at the end of each run to maintain data integrity. Six (6x) DMX lumenterminators included per CBX-ST. See installation instructions for details.
- 86 to 100 watts per fixture, see Power Consumption table for details.

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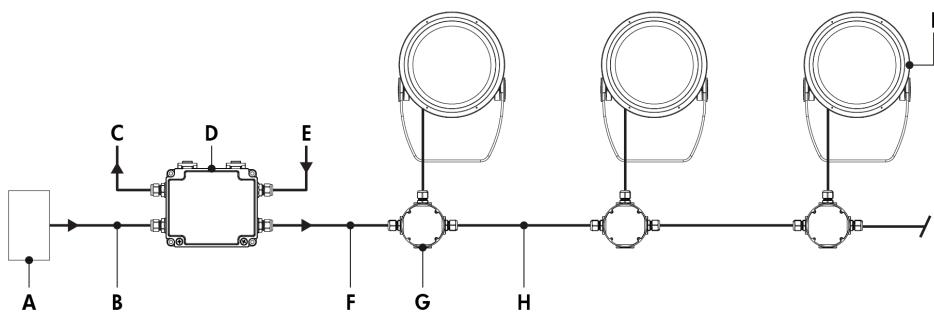
A - DMX/RDM controller (order separately from Lumenpulse, or by others)
B - Data input (Belden 9841 or equivalent, by others)
C - Data output to next CBX (optional, not isolated/not boosted)
D - CBX-DS
E - Power input (100-277V AC, wiring by others)
F - Power and data output to fixture (wiring by others)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

**Daisy Chain Layout (DMX/RDM) - Wiring Detail (First or Middle of Run)**
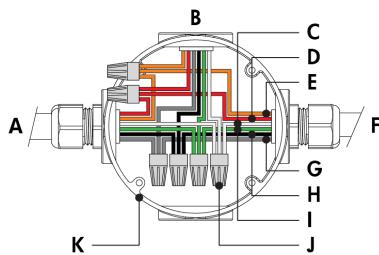
A - From CBX or previous fixture
B - To fixture
C - Neutral
D - Data +
E - Data -
F - To next fixture
G - Signal common
H - Line
I - Ground
J - Wire-nut (by others)
K - Junction box (by others)

**Daisy Chain Layout (DMX/RDM) - Wiring Detail (End of Run)**
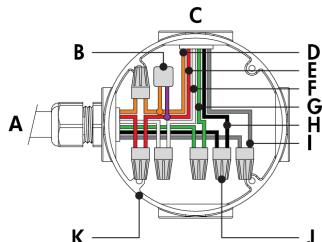
A - From CBX or previous fixture
B - Lumenterminator
C - To fixture
D - Data -
E - Data +
F - Neutral
G - Ground
H - Line
I - Signal common
J - Wire-nut (by others)
K - Junction box (by others)

**Maximum Fixture Count Per Run**

| Configuration/Voltage | 120V | 208V | 240V | 277V |
|---|---|---|---|---|
| **LBG** | 10 | 16 | 18 | 21 |

Based on 15A maximum, 16AWG cable, fixtures spaced 10 ft on center, first fixture 50 ft from CBX.

- Consult CBX installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run.
- Maximum of 4 DMX/RDM repeaters/CBX cascading in line.
- Maximum of 1 output per CBX-DS.
- Maximum of 3 ft cable length between fixture and next junction box for daisy chain layout.
- RGB color mixture option requires 3 DMX addresses. RGBW30K and RGBW40K, RGBA, MRGBA, MRGBWP and MRGRBWP color mixture options require 4 DMX addresses.
- DMX terminator is required at the end of each run to maintain data integrity. Two (2x) DMX lumenterminators included per CBX-DS. See installation instructions for details.
- 86 to 100 watts per fixture, see Power Consumption table for details.

## DALI 2 T8 (DALIT8)
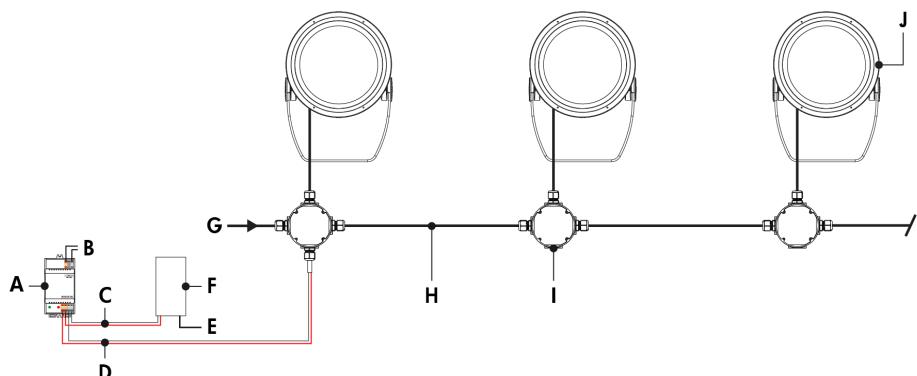


**A -** DALI bus power supply (by others)
**B -** Power input for DALI bus power supply (wiring by others)
**C -** Data output to DALI controller (wiring by others)
**D -** Data output to fixture (wiring by others)
**E -** Power input for DALI controller (if required, wiring by others)
**F -** DALI controller (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 Grande

## DALI 2 T8 (DALIT8) - Wiring Detail
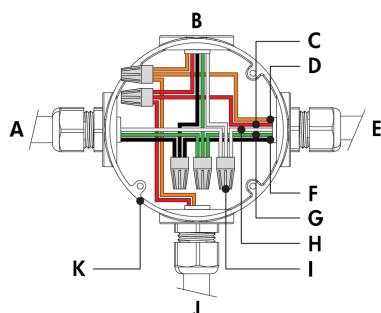


**A -** Power input or from previous fixture
**B -** To fixture
**C -** DA +
**D -** DA -
**E -** To next fixture
**F -** Line
**G -** Ground
**H -** Neutral
**I -** Wire-nut (by others)
**J -** From DALI controller (by others)
**K -** Junction box (by others)

- 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 for color controls and Tc for dim to warm and tunable white.
- Commissioning may be required based on the selection of 3rd party DALI controller. Controller and commissioning provided by others.
- 86 to 100 watts per fixture, see Power Consumption table for details.

**lumenpulse**™

1220 Marie-Victorin Blvd., Longueuil, QC, J4G 2H9, CAN   |   **T** 514.937.3003   |   1.877.937.3003   |   info@lumenpulse.com
**www.lumenpulse.com**      **www.lumenpulse.com/products/5368**

18 / 20

## How to Order

| Housing | Voltage | Color and Color Temperature | Optic1 | Optic2 | Optical Option [19] [21] [22] |
|---|---|---|---|---|---|
| **LBG** Lumenbeam™ Grande | **100** 100 Volts<br><br>**120** 120 Volts<br><br>**208** 208 Volts<br><br>**220** 220 Volts<br><br>**240** 240 Volts<br><br>**277** 277 Volts | **MRGBWP** Opticolor+™ Mix-at-Source Red, Green, Blue Plus White Settable Range 24K to 65K [1] [2] [3] [4] [5]<br><br>**MRGBA** Opticolor™ Mix-at-Source Red, Green, Blue, PC Amber [6] [7]<br><br>**RGBA** Discrete Red, Green Bue, Amber<br><br>**RGBW30K** Discrete Red, Green, Blue, White 30K [7]<br><br>**RGBW40K** Discrete Red, Green, Blue, White 40K [7]<br><br>**RGB** Discrete Red, Green, Blue<br><br>**MRGRBWP** Opticolor+™ Mix-at-Source Red, Green, Royal Blue Plus White Settable Range 24K to 65K [1] [2] [3] [5] [8] [9] [10] | **XN** Extra Narrow 3° or 5° [11] [12] [13]<br><br>**VN** Very Narrow 6° [12] [13]<br><br>**NS** Narrow Spot 10° [12]<br><br>**NF** Narrow Flood 20° [12]<br><br>**M** Medium 30° [12] [14]<br><br>**FL** Flood 40° [12]<br><br>**WFL** Wide Flood 60° [12] [15] [16]<br><br>**VWFL** Very Wide Flood 90° [12] [15] [17]<br><br>**NAS** Narrow Asymmetric [12] [18]<br><br>**WW** Asymmetric Wallwash [12] [18] | **XN** Extra Narrow 3° or 5° [11] [12] [13]<br><br>**VN** Very Narrow 6° [12] [13]<br><br>**NS** Narrow Spot 10° [12]<br><br>**NF** Narrow Flood 20° [12]<br><br>**M** Medium 30° [12] [14]<br><br>**FL** Flood 40° [12]<br><br>**WFL** Wide Flood 60° [12] [15] [16]<br><br>**VWFL** Very Wide Flood 90° [12] [15] [17]<br><br>**NAS** Narrow Asymmetric [12] [18]<br><br>**WW** Asymmetric Wallwash [12] [18] | **LSLH** Linear Spread Lens Horizontal Distribution [20]<br><br>**LSLV** Linear Spread Lens Vertical Distribution [20] |

## Notes:

1. Not available with XN, VN, NAS and WW optics.
2. Consult factory for the availability of more color and CCT options.
3. Fixtures are shipped from the factory in Optidrive™ Mode. Normal Mode can be activated onsite for DMX/RDM and LT fixtures. For DMX/RDM applications, Optidrive Mode requires a LumenID, LumenID software and onsite commissioning. For LT applications, Optidrive Mode requires a LumenID, LumentalkID software and onsite commissioning. Additionally, with Opticolor+™ the white CCT is configurable in the field from 2200K-8000K.
4. Not available for LBXP HO.
5. For DALI T8 applications with MRGBWP or MRGRBWP and a CCT other than 3000K.
6. Not available for VN, NAS and WW optics.
7. Consult factory for availability of other color options such as Royal Blue.
8. MRGBWP and MRGRBWP can be configured to MRGB via RDM, consult factory for more details.
9. Longer lead time of 10-12 weeks.
10. Consult factory for photometric performance.

11. Nominal distribution is 3° for RGBW30K, RGBW40K and RGBA color options, and 5° for RGB.
12. Factory installed, not interchangeable on site.
13. Not available with MRGBA and MRGBWP color temperature options.
14. Cannot be combined with other optics when RGB, RGBW30K, RGBW40K and RGBA color temperatures are specified.
15. Cannot be combined with other optics.
16. A dome lens accessory is available, order separately. For compatibility, a WFL optic must be specified for the fixture.
17. Available with MRGBA, MRGBWP and MRGRBWP color temperature options only.
18. Not available with MRGBA, MRGBWP and MRGRBWP color temperature options.
19. Optical options are factory installed and cannot be changed in the field.
20. Field adjustable spread lens optical accessory available, order separately.
21. Not available with WFL, NAS and WW optics when combined with RGB color temperature option.
22. Not available with VN, WFL, VWFL, NAS and WW optics when combined with MRGBA or MRGBWP color temperature options.

**lumenpulse**™

1220 Marie-Victorin Blvd., Longueuil, QC, J4G 2H9, CAN | **T** 514.937.3003 | 1.877.937.3003 | info@lumenpulse.com
www.lumenpulse.com | www.lumenpulse.com/products/5368

19 / 20

# How to Order

| Finish | Control | Option | Certification | Cable Length [29] [35] | Cable Color | Buy America.n Act |
|---|---|---|---|---|---|---|
| **BK**<br>Black Sandtex® | **LT**<br>Lumentalk [26] [27] | **SY**<br>Short Yoke | **UL**<br>UL Compliant | **3FT**<br>3 ft [29] [35] | **BK**<br>Black | **BAA**<br>Buy America.n [36] [37] |
| **BRZ**<br>Bronze Sandtex® | **DMX/RDM**<br>DMX/RDM Enabled Dimming [28] [29] | **SRY**<br>Short Rotational Yoke [31] | **CE**<br>CE Compliant [34] | **10FT**<br>10 ft | **WH**<br>White [36] | |
| **SI**<br>Silver Sandtex® | **DALIT8**<br>DALI 2 T8 Enabled Dimming 0.1% [5] [30] | **RY**<br>Rotational Yoke [31] | **CEII**<br>CE Compliant Class II Double Insulated [34] | **20FT**<br>20 ft | | |
| **WH**<br>Smooth White | | **3GV**<br>3G ANSI C136.31-2010 Vibration Rating for Bridge Applications | | **30FT**<br>30 ft | | |
| **BKTX**<br>Textured Black | | **CRC**<br>Corrosion-Resistant Coating [32] [33] | | **50FT**<br>50 ft | | |
| **BRZTX**<br>Textured Bronze Non-Metallic | | | | **70FT**<br>70 ft | | |
| **GRATX**<br>Textured Medium Gray | | | | **100FT**<br>100 ft | | |
| **GRNTX**<br>Textured Green | | | | | | |
| **WHTX**<br>Textured White | | | | | | |
| **CC**<br>Custom Color & Finish [23] [24] [25] | | | | | | |

## Notes:

**5.** Consult factory for DALI T8 applications with MRGBWP or MRGRBWP and a CCT other than 3000K.

**23.** Lumenpulse offers a wide selection of RAL CLASSIC (K7) colors with a smooth texture and high-gloss finish. Please consult factory for a list of available K7 colors, other RAL textures and glosses, or to match alternate color charts. Final color matching results may vary.

**24.** Setup charges apply for RAL colors. Consult factory for details.

**25.** Longer lead times can be expected for custom RAL color finishes.

**26.** A Lumentranslator 2 (LTL2) and LumenID (LID) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.

**27.** Not available with Class II double insulated option.

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

**29.** Maximum of 3 ft cable length for daisy chain DMX applications with CBX-DS.

**30.** DALI 2 T8 controller required, provided by others. DALI 2 T8 control uses a single DALI short address.

**31.** Consult factory for applications with 3GV requirements.

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

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

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

**35.** 3 ft cable length is standard unless otherwise specified.

**36.** Not available with CE or CEII certification options.

**37.** Contact your Lumenpulse Sales Representative for more information on order volume details.

**lumenpulse**™

1220 Marie-Victorin Blvd., Longueuil, QC, J4G 2H9, CAN | **T** 514.937.3003 | 1.877.937.3003 | info@lumenpulse.com
www.lumenpulse.com | www.lumenpulse.com/products/5368

20 / 20