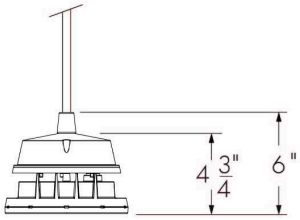
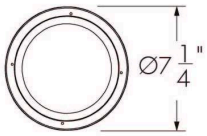
**Project Name** _____ **Qty** _____

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




Front View




Bottom View

## Photometric Summary (Discrete RGBW40K)

**Symmetric**

| | Delivered output (lm) | Intensity (peak cd) |
|---|---|---|
| VN (6°) | 1,572 | 76,932 |
| NS (10°) | 1,533 | 54,810 |
| NF (20°) | 1,411 | 11,384 |
| M (30°) | 1,356 | 6,270 |
| FL (40°) | 1,294 | 3,500 |
| WFL (60°) | 1,142 | 892 |

**Asymmetric**

| | | |
|---|---|---|
| NAS | 1,442 | 23,041 (@2.5°) |
| WW | 1,290 | 5,877 (@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°) | 1,158 | 22,488 |
| NF (20°) | 1,090 | 7,161 |
| M (30°) | 1,070 | 4,026 |
| FL (40°) | 1,107 | 2,959 |
| WFL (60°) | 1,089 | 1,112 |
| VWFL(90°) | 972 | 495 |

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 Medium Pendant Color Changing is an IP66-rated suspended luminaire luminaire for lighting landscapes 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 |
| **Mounting Length** | **12:** 12 in<br>**24:** 24 in<br>**36:** 36 in<br>**48:** 48 in |

## Photometric Summary (Opticolor MRGBA)

**Symmetric**

| | Delivered output (lm) | Intensity (peak cd) |
|---|---|---|
| **NS (10°)** | 1,139 | 22,105 |
| **NF (20°)** | 1,071 | 7,040 |
| **M (30°)** | 1,052 | 3,957 |
| **FL (40°)** | 1,088 | 2,908 |
| **WFL (60°)** | 1,070 | 1,093 |
| **VWFL(90°)** | 955 | 486 |

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


Very Narrow 6°


Narrow Spot 10°


Narrow Flood 20°


Medium 30°


Flood 40°


Wide Flood 60°


Very Wide Flood 90°


Narrow Asymmetric


Asymmetric Wallwash

| | |
|---|---|
| **Optics (Nominal Distribution)** | **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) |
| **Optical Option** | **LSLV:** Linear Spread Lens Vertical Distribution<br>**LSLH:** Linear Spread Lens Horizontal Distribution |
| **Option** | **CRC:** Corrosion-Resistant Coating for Hostile Environments |
| **Power Consumption** | 28 W (RGB, RGBW30K, RGBW40K, RGBA), 25W (MRGBA, MRGBWP and MRGRBWP) |
| **Warranty** | 5-year limited warranty |

## Performance

| | |
|---|---|
| **Maximum Delivered Output (Discrete)** | 1,598 lm (RGB full output, VN 6°, DMX/RDM)<br>1,540 lm (RGBW30K full output, VN 6°, DMX/RDM)<br>1,572 lm (RGBW40K full output, VN 6°, DMX/RDM)<br>1,284 lm (RGBA full output, VN 6°, DMX/RDM) |
| **Maximum Delivered Output (Opticolor)** | 1,139 lm (MRGBA full output, NS 10°, DMX/RDM) |
| **Maximum Delivered Output (Opticolor+)** | 1,158 lm (MRGBWP full output, NS 10°, DMX/RDM) |
| **Maximum Delivered Intensity (Discrete)** | 76,667 cd at nadir (RGB full output, VN 6°, DMX/RDM)<br>75,393 cd at nadir (RGBW30K full output, VN 6°, DMX/RDM)<br>76,932 cd at nadir (RGBW40K full output, VN 6°, DMX/RDM)<br>62,853 cd at nadir (RGBA full output, VN 6°, DMX/RDM) |
| **Maximum Delivered Intensity (Opticolor)** | 22,105 cd at nadir (MRGBA full output, NS 10°, DMX/RDM) |
| **Maximum Delivered Intensity (Opticolor+)** | 22,488 cd at nadir (MRGBWP full output, NS 10°, DMX/RDM) |
| **Illuminance at Distance (Discrete)** | Minimum 1 fc at 278 ft (RGB full output, VN 6°, DMX/RDM)<br>Minimum 1 fc at 276 ft (RGBW30K full output, VN 6°, DMX/RDM)<br>Minimum 1 fc at 279 ft (RGBW40K full output, VN 6°, DMX/RDM)<br>Minimum 1 fc at 252 ft (RGBA full output, VN 6°, DMX/RDM) |
| **Illuminance at Distance (Opticolor)** | Minimum 1 fc at 149 ft (MRGBA full output, NS 10°, DMX/RDM) |
| **Illuminance at Distance (Opticolor+)** | Minimum 1 fc at 150 ft (MRGBWP full output, NS 10°, DMX/RDM) |
| **Lumen Maintenance** | L70 (15K) > 90,000 hrs Ta 25 °C (TM-21 reported)<br>L70 > 150,000 hrs Ta 25 °C (projected)*<br>L90 (15K) = 55,400 hrs Ta 25 °C (TM-21 reported)<br>L90 = 55,400 hrs Ta 25 °C (projected)*<br>*Estimated based on in-situ case temperature and LM-80 report |

## Physical

| | |
|---|---|
| **Housing Material** | Low copper content high pressure die-cast aluminum |

## 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

Discrete Red, Green Bue, Amber

Discrete Red, Green, Blue, White 30K

Discrete Red, Green, Blue, White 40K

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 fixture IP54 canopy IK09

## Certifications

buyamerica-n

5 YEARS lumenpulse

| | |
|---|---|
| **Lens Material** | Clear tempered glass |
| **Hardware Material** | Stainless steel |
| **Gasket Material** | Silicone |
| **Surface Finish** | Electrostatically applied polyester powder coat |
| **Weight** | 6.7 lbs |

## Electrical and Control

| | |
|---|---|
| **Voltage** | 100 to 277 volts |
| **Fixture Cable** | Power and data cable goes through stem |
| **Conductors** | 3C #16-3 (LT control for MRGBA, MRGBWP and MRGRBWP)<br>6C #14-3/ #24-3 (DMX/RDM control)<br>5C #16-5 (DALIT8 control) |
| **Control** | DMX/RDM Enabled, DALI 2 T8 Enabled Dimming 0.1%, Lumentalk system is enabled with LDB accessory - see typical wiring diagrams for details |
| **Resolution (DMX/RDM)** | Per fixture, 8-bit or 16-bit, 3 channels (RGB) or 4 channels (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 fixture (wet location rated)<br>IP54 canopy (suitable for wet location, not suitable for water jet) |
| **Impact Resistance Rating** | IK09 |

## Accessories (Order Separately)

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

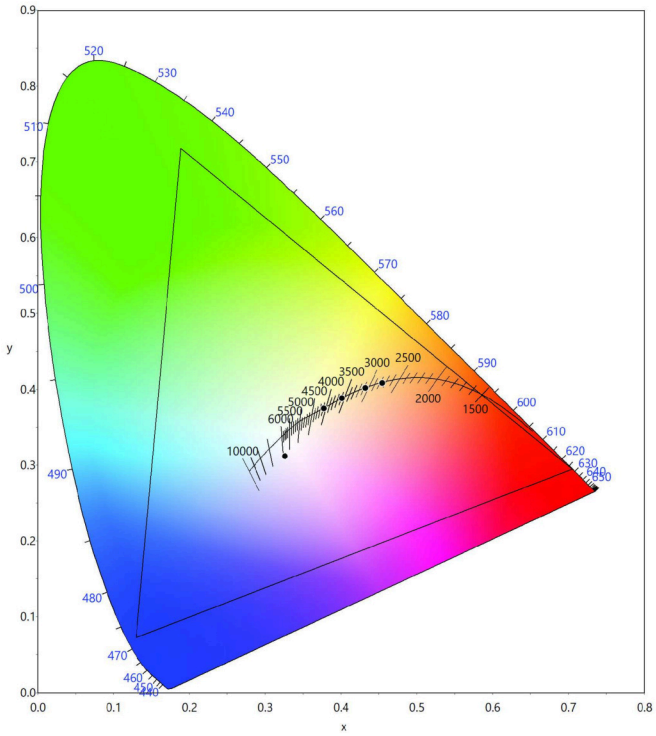
## Important

**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.

## Color Point Information

### MRGBWP




### Dominant Wavelength and Chromaticity

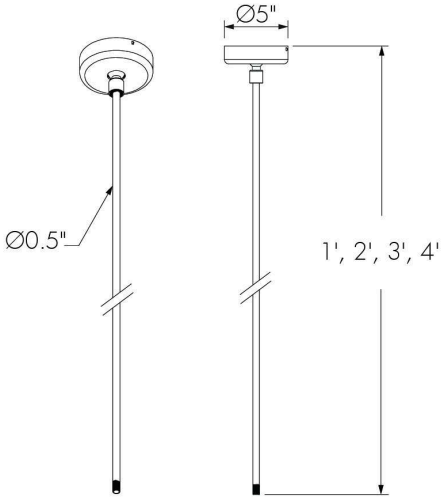
| | Dominant Wavelength | Chromaticity | |
|---|---|---|---|
| | | Cx | Cy |
| **Red** | ~628nm | 0.7050 | 0.2949 |
| **Green** | ~531nm | 0.1885 | 0.7178 |
| **Blue** | ~471nm | 0.1298 | 0.0726 |
| **Amber** | ~591nm | 0.5755 | 0.4126 |

| | 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.

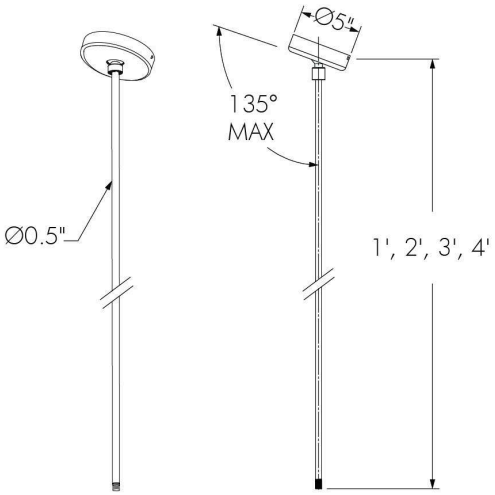
## Mounting Types

### SCAN - Standard Straight Stem Canopy




Not suitable when fixture is exposed to wind.
Suitable for under canopy installation only.
No vibration rating.

### ACAN - Adjustable Sloped Ceiling Canopy



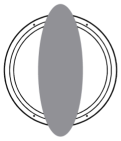

Not suitable when fixture is exposed to wind.
Suitable for under canopy installation only.
No vibration rating.

## Optical Options – Discrete

**LSLH - Linear Spread Lens Horizontal Distribution**

LSLH

**LSLV - Linear Spread Lens Vertical Distribution**



LSLV

**Beam Angles**

| Optic installed in fixture | 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° |

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

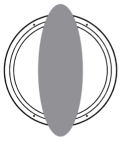
Factory installed, not adjustable on site. Not available for WFL, VWFL, NAS and WW optics.
See 'Optical Accessories' section for field adjustable spread lens (LSLA).

## Optical Options - Opticolor™ and Opticolor+

**LSLH - Linear Spread Lens Horizontal Distribution**

LSLH

**LSLV - Linear Spread Lens Vertical Distribution**



LSLV

**Beam Angles**

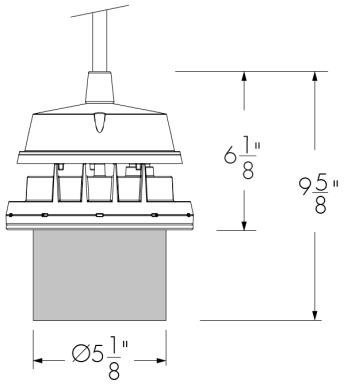
| Optic installed in fixture | Beam angle with LSLH/LSLV |
|---|---|
| **NS** | 11° x 61° |
| **NF** | 19° x 66° |
| **M** | 26° x 70° |
| **FL** | 31° x 71° |

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).

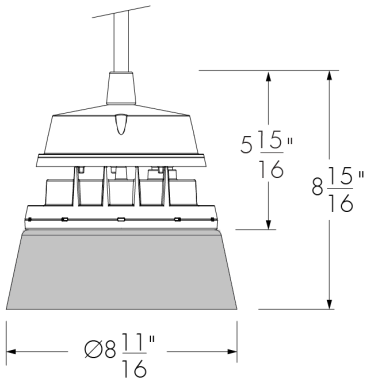
## Optical Accessories (Order Separately)

### SN - Snoot



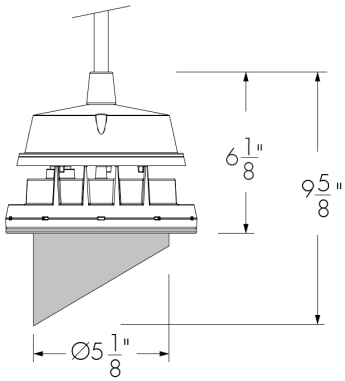

LBMSN-**FINISH**-BK-**OPTIONS** (CRC)
Interior surface painted black. Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

### SNW - Snoot Wide



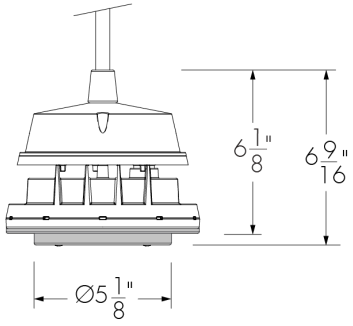

LBMSNW-**FINISH**-BK-**OPTIONS** (CRC)
Interior surface painted black. Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

### VS - Visor



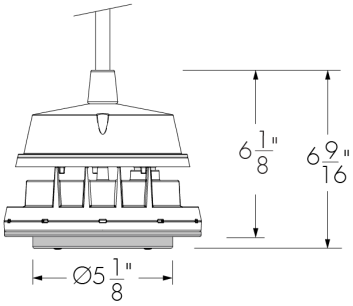

LBMVS-**FINISH**-BK-**OPTIONS** (CRC)
Interior surface painted black. Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

### LSLA - Linear Spread Lens Adjustable




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

### WG - Wire Guard




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

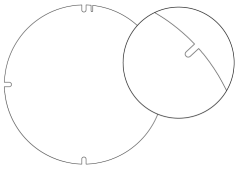
### Accessory Combinations

| + | Snoot | Snoot wide | Visor |
|---|---|---|---|
| **Linear spread lens adjustable** | LBMSNLSLA | N/A* | LBMVSLSLA |
| **Wire guard** | LBMSNWG | N/A | LBMVSWG |

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

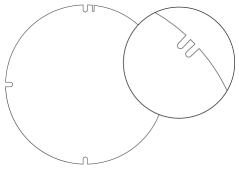
## Diffuser Lenses (Intended for Mockup Purposes Only, Order Separately)

**Diffuser Lens 1 (1 Notch)**



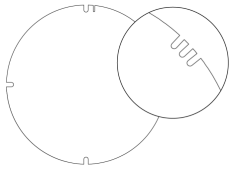
147671

**Diffuser Lens 2 (2 Notches)**



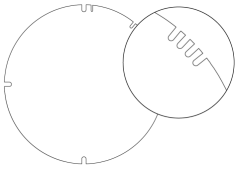
147672

**Diffuser Lens 3 (3 Notches)**



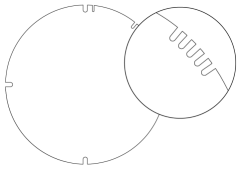
147673

**Diffuser Lens 4 (4 Notches)**



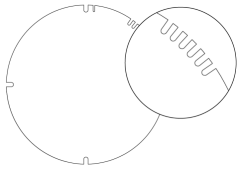
147674

**Diffuser Lens 5 (5 Notches)**



147675

**Diffuser Lens 6 (6 Notches)**



147676

## Final Distribution Using Diffuser Lenses

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

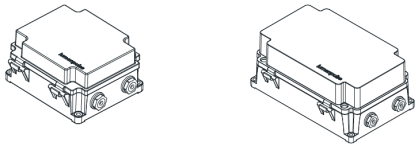
Choose a diffuser lens based on the desired final beam distribution. Refer to the 6-digit part numbers above to order diffuser lenses individually. To order a complete set of 6 diffuser lenses in a bag, refer to the following item names: **LBS:** LBALK-S **LBM/LBMP:** LBALK-M **LBL/LBLP**: LBALK-L **LBG/LBGP:**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

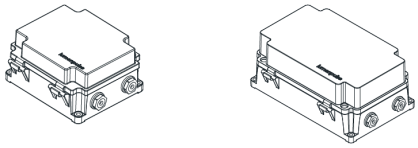
## Control Boxes (Order Separately)

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



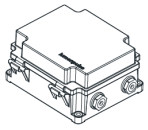
DMX/RDM control box. Up to six power and data outputs to fixtures or fixture runs. Consult CBX specification sheet and installation instructions for details. Lumenterminators provided with CBX (2x for Daisy Chain configuration, 6x for Star configuration), consult factory to order spares.

### 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.

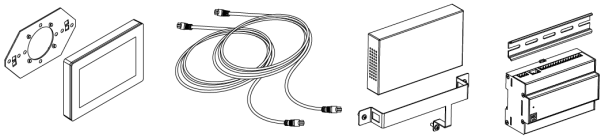
### LDB - Lumentalk Data Bridge



Lumentalk Data Bridge, 0-10V or DMX output. Consult LDB specification sheet for details.

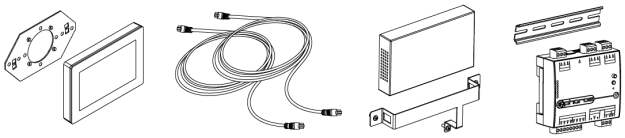
## Control Systems (Order Separately)

### 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.

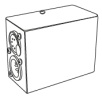
### EXPERT - Pharos® Expert Control Kit



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



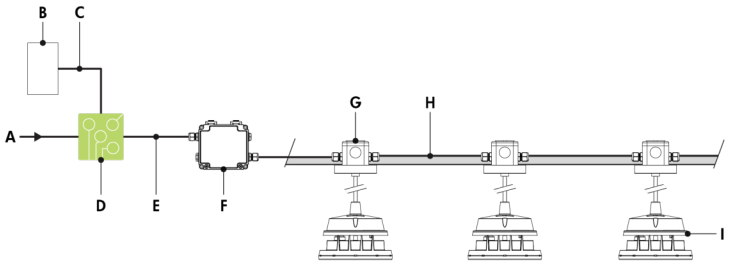
The updated LumenID (LID) is an all-in-one diagnostic and addressing solution for both DMX/RDM and Lumentalk (LT) systems. Engineered for versatility, it streamlines commissioning and troubleshooting across protocols—no need for multiple tools. Cable option may vary; please consult factory. For complete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

## Typical Wiring Diagrams

### Wiring Color Code

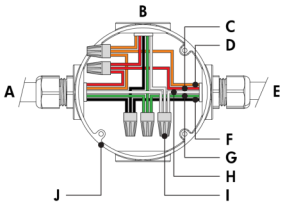
| UL Color Code | USE |
|---|---|
| Green | Ground |
| Black | Line |
| White | Line/Neutral |
| Red or Purple | 0-10V / Data + |
| Orange | 0-10V / Data - |
| Gray | Signal common (DMX/RDM only) |

### Lumentalk (LT) RGB-RGBW30K-RGBW40K-RGBA




**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 -** Lumentalk Data Bridge (LDB-DMX)
**G -** Junction box (by others)
**H -** Power and data wiring (by others)
**I -** Lumenbeam Medium Pendant

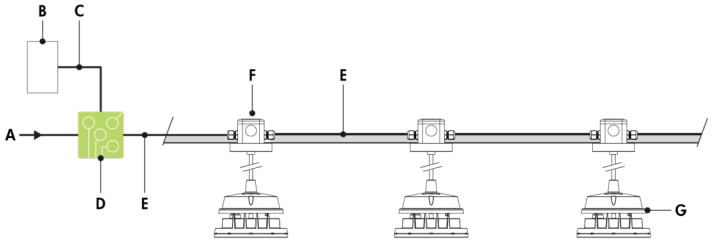
### Lumentalk (LT) - Wiring Detail Using LDB




**A -** From Lumentalk Data Bridge (control over power line via Lumentalk system) or from previous fixture
**B -** To fixture
**C -** 0-10 V + / Data +
**D -** 0-10 V - / Data -
**E -** To next fixture
**F -** Line
**G -** Ground
**H -** Line/Neutral
**I -** Wire-nut (by others)
**J -** Junction box (by others)

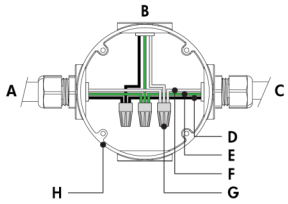
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Lumentalk Data Bridge required for Lumentalk system, see LDB installation instructions for details. Fixtures must be specified as DMX/RDM and the Lumentalk Data Bridge must be specified as DMX. 2-step commissioning process: 1 - DMX/RDM system using LumenID software and a LID, 2 - Lumentalk system using LumentalkID software and a LID. Consult factory for details.
- Maximum of 32 fixtures per LDB-DMX. Consult factory for details.
- 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.
- Maximum of 1 transmitter (Lumentranslator or Lumenlink) per system.
- No third party fixtures allowed on the same circuit.
- 28 watts per fixture (RGB, RGBW30K, RGBW40K, RGBA).

### Lumentalk (LT) MRGBA-MRGBWP-MRGRBWP




**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 MediumPendant

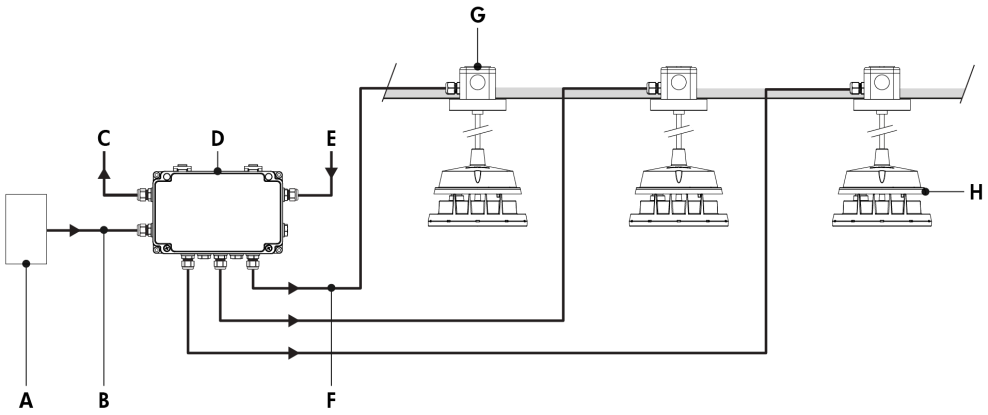
### Lumentalk (LT) - Wiring Detail




**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)

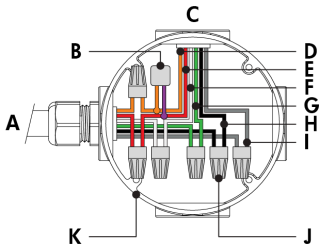
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Lumentalk enabled fixtures must be commissioned using LumentalkID software and a LID. Consult factory for details.
- Maximum of 1 transmitter (Lumentranslator or Lumenlink) per system.
- No third party 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.
- 25 watts per fixture (MRGBA, MRGBWP and MRGRBWP).

## 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 Medium Pendant

## 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)

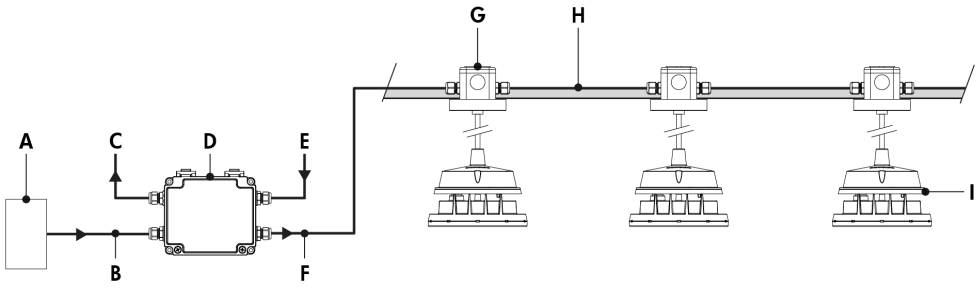
## Maximum Fixture Count Per Run

| Configuration/Voltage | 120V | 208V | 240V | 277V |
|---|---|---|---|---|
| **LBMP** | 29 | 32 | 32 | 32 |

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

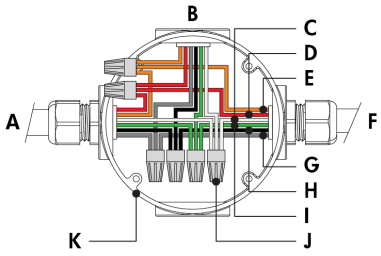
- Consult CBX installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run.
- Maximum of 4 DMX/RDM repeaters/CBX cascading in line.
- Maximum of 6 outputs per CBX-ST.
- RGB color mixture option requires 3 DMX addresses. RGBW30K, 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.
- 28 watts per fixture (RGB, RGBW30K, RGBW40K, RGBA), 25 watts per fixture (MRGBA, MRGBWP and MRGRBWP).

### Daisy Chain Layout (DMX/RDM)



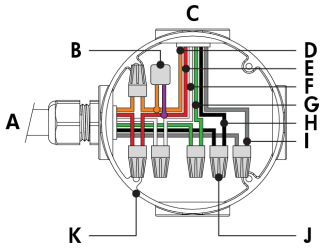

**A -** DMX/RDM controller (order separately from Lumenpulse, or by others)
**B -** Data input (Belden 9841 or equivalent, by others)
**C -** Data output to next CBX (optional, not isolated/not boosted)
**D -** CBX-DS
**E -** Power input (100-277V AC, wiring by others)
**F -** Power and data output to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

### 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)

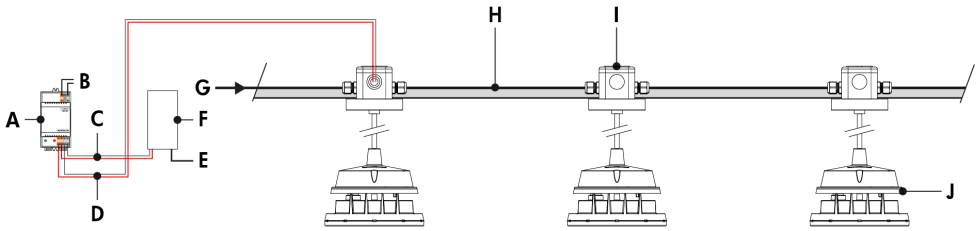
### Maximum Fixture Count Per Run

| Configuration/Voltage | 120V | 208V | 240V | 277V |
|---|---|---|---|---|
| **LBMP** | 29 | 32 | 32 | 32 |

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

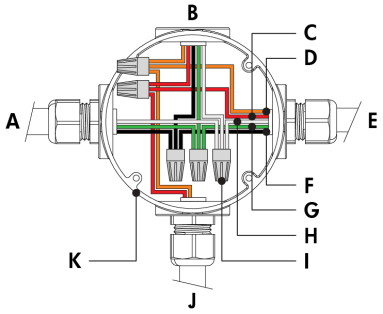
- Consult CBX installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run.
- Maximum of 4 DMX/RDM repeaters/CBX cascading 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, 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.
- 28 watts per fixture (RGB, RGBW30K, RGBW40K, RGBA), 25 watts per fixture (MRGBA, MRGBWP and MRGRBWP).

### 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 Medium Pendant

### 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.
- 28 watts per fixture (RGB, RGBW30K, RGBW40K, RGBA), 25 watts per fixture (MRGBA, MRGBWP and MRGRBWP).

## How to Order

| Housing | Voltage | Color and Color Temperature | Optic | Mounting Type | Mounting Length [14] | Optical Option [15] [17] | Finish | Control [21] [22] | Option | Certification | Buy America.n Act |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **LBMP** Lumenbeam™ Medium Pendant | **100** 100 Volts<br>**120** 120 Volts<br>**208** 208 Volts<br>**220** 220 Volts<br>**240** 240 Volts<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>**MRGBA** Opticolor™ Mix-at-Source Red, Green, Blue, PC Amber [1] [6]<br>**RGBA** Discrete Red, Green Bue, Amber<br>**RGBW30K** Discrete Red, Green, Blue, White 30K [6]<br>**RGBW40K** Discrete Red, Green, Blue, White 40K [6]<br>**RGB** Discrete Red, Green, Blue<br>**MRGRBWP** Opticolor+™ Mix-at-Source Red, Green, Royal Blue Plus White Settable Range 24K to 65K [1] [4] [7] [8] [9] | **VN** Very Narrow 6° [10] [11]<br>**NS** Narrow Spot 10° [10]<br>**NF** Narrow Flood 20° [10]<br>**M** Medium 30° [10]<br>**FL** Flood 40° [10]<br>**WFL** Wide Flood 60° [10]<br>**VWFL** Very Wide Flood 90° [10] [12] [13]<br>**NAS** Narrow Asymmetric [10] [11]<br>**WW** Asymmetric Wallwash [10] [11] | **SCAN** Straight Stem Canopy<br>**ACAN** Adjustable Sloped Ceiling Canopy | **12** 12 in<br>**24** 24 in<br>**36** 36 in<br>**48** 48 in | **LSLH** Linear Spread Lens Horizontal Distribution [16]<br>**LSLV** Linear Spread Lens Vertical Distribution [16] | **BK** Black Sandtex®<br>**BRZ** Bronze Sandtex®<br>**SI** Silver Sandtex®<br>**WH** Smooth White<br>**BKTX** Textured Black<br>**BRZTX** Textured Bronze Non-Metallic<br>**GRATX** Textured Medium Gray<br>**GRNTX** Textured Green<br>**WHTX** Textured White<br>**CC** Custom Color & Finish [18] [19] [20] | **LT** Lumentalk [13] [22] [23]<br>**DMX/RDM** DMX/RDM Enabled Dimming [24]<br>**DALIT8** DALI 2 T8 Enabled Dimming 0.1% [4] [25] | **CRC** Corrosion-Resistant Coating [26] [27] | **UL** UL Compliant<br>**CE** CE Compliant [28]<br>**CEII** CE Compliant Class II Double Insulated [28] | **BAA** Buy America.n [29] [30] |

## Notes:

**1.** Not available for VN, NAS and WW optics.
**2.** Consult factory for the availability of more color and CCT options (e.g. royal blue).
**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.** Consult factory for DALI T8 applications with MRGBWP or MRGRBWP and a CCT other than 3000K.
**5.** MRGBWP and MRGRBWP can be configured to MRGB via RDM, consult factory for more details.
**6.** Consult factory for availability of other color options such as Royal Blue.
**7.** Longer lead time of 10-12 weeks.
**8.** Consult factory for the availability of more color and CCT options.
**9.** Consult factory for photometric performance.
**10.** Factory installed, not interchangeable on site.
**11.** Not available with MRGBA, MRGBWP and MRGRBWP color temperature options.
**12.** Cannot be combined with other optics.
**13.** Available with MRGBA, MRGBWP and MRGRBWP color temperature options only.
**14.** Consult factory for custom stem lengths.
**15.** Optical options are factory installed and cannot be changed in the field.
**16.** Field adjustable spread lens optical accessory available, order separately.
**17.** Not available with WFL, VWFL, NAS and WW optics.
**18.** 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.
**19.** Setup charges apply for RAL colors. Consult factory for details.
**20.** Longer lead times can be expected for custom RAL color finishes.
**21.** For RGB, RGBW30K, RGBW40K and RGBA applications, a Lumentalk system is enabled with LDB-DMX accessory, DMX/RDM must be specified in the order code. See the typical wiring diagrams in the specification sheet for details.
**22.** A Lumentranslator 2 (LTL2) and LumenID (LID) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.
**23.** Not available with CEII certification option.
**24.** A control box (CBX) and LumenID (LID) must be specified.
**25.** DALI 2 T8 controller required, provided by others. DALI2 T8 control uses a single DALI short address.
**26.** Use only when exposed to salt spray. This option is not required for normal outdoor exposure.
**27.** Setup charges apply. Consult factory for details.
**28.** Consult European specification sheets and installation instructions for CE and CE Class II wiring information.
**29.** Not available with CE or CEII certification options.
**30.** Contact your Lumenpulse Sales Representative for more information on order volume details.