**Project Name** _____    **Qty** _____
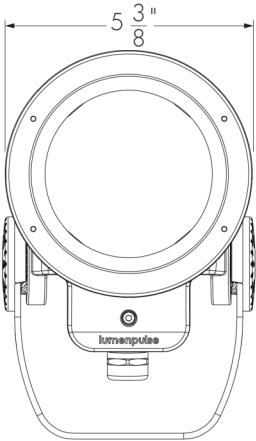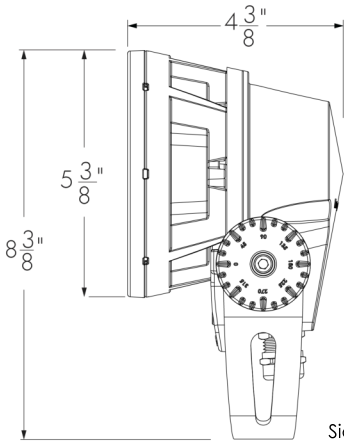
**Type** _____    **Catalog / Part Number** _____





Front View



Side View

## Photometric Summary (Discrete RGB)

### Symmetric

|  | Delivered output (lm) | Intensity (peak cd) |
|---|---|---|
| **VN (6°)** | 734 | 35,285 |
| **NS (10°)** | 706 | 24,627 |
| **NF (20°)** | 646 | 5,477 |
| **M (30°)** | 619 | 2,859 |
| **FL (40°)** | 601 | 1,704 |
| **WFL (60°)** | 488 | 396 |

### Asymmetric

|  | | |
|---|---|---|
| **NAS** | 659 | 10,507 (@2.5°) |
| **WW** | 605 | 2,681 |

Based on RGB full output.
Photometric performance is measured externally in compliance with IESNA LM-79-24.
Refer to Photometric Guide on Lumenpulse website for information on other color temperatures.

## Photometric Summary (Opticolor+ MRGBWP)

### Symmetric

|  | Delivered output (lm) | Intensity (peak cd) |
|---|---|---|
| **NS (10°)** | 678 | 11,925 |
| **NF (20°)** | 628 | 4,070 |
| **M (30°)** | 613 | 2,313 |
| **FL (40°)** | 635 | 1,679 |
| **WFL (60°)** | 602 | 609 |

Based on MRGBWP full output, white set to 3000K.
Photometric performance is measured externally in compliance with IESNA LM-79-24.
Refer to Photometric Guide on Lumenpulse website for information on other color temperatures.

## Description

The Lumenbeam Small Color Changing is a compact, 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

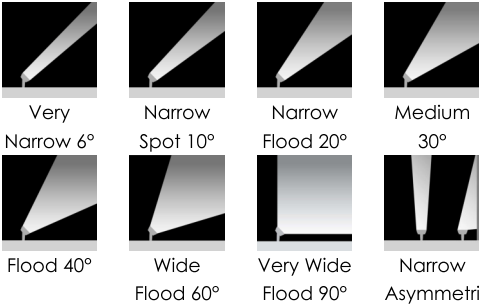| | |
|---|---|
| **Colors and Color Temperature (Discrete)** | **RGB:** RGB |
| **Colors and Color Temperature (Opticolor™)** | **MRGBA:** Opticolor Cluster with MRGBA (Red, Green, Blue, Amber) |
| **Colors and Color Temperature (Opticolor+™)** | **MRGBWP:** Opticolor+™ Mix-at-Source Red, Green, Blue Plus White Settable Range 24K to 65K<br>**MRGBWP Typical Color Rendering:**<br>2400K-5000K: 90+ CRI<br>2400K-6500K: 80+ CRI |
| **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** | **LSLH:** Linear Spread Lens Horizontal Distribution<br>**LSLV:** Linear Spread Lens Vertical Distribution |
| **Mounting Option** | **SK:** Stake Mounting<br>**KN:** Knuckle Mounting<br>**CN:** Canopy Mounting Option (for Mounting on a Standard Round Junction Box) |

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## Photometric Summary (Opticolor MRGBA)

### Symmetric

|  | Delivered output (lm) | Intensity (peak cd) |
|---|---|---|
| **NS (10°)** | 668 | 11,746 |
| **NF (20°)** | 619 | 4,009 |
| **M (30°)** | 604 | 2,278 |
| **FL (40°)** | 625 | 1,654 |
| **WFL (60°)** | 593 | 600 |

Based on MRGBA full output.
Photometric performance is measured externally in compliance with IESNA LM-79-24.
Refer to 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

## Color and Color Temperature

RGB Red Green Blue    opticolor™    opticolor+™

## Control

DMX/RDM    DALI T8

## Ratings

IP66    IK07

## Certifications

c(UL)us    CE    lp buyamerica-n    ✓ RoHS    ⏚

☐    5 YEARS lumenpulse    3G VIBRATION RATING

| Option | **RY:** Rotational Yoke<br>**3GV:** 3G ANSI C136.31-2010 Vibration Rating for Bridge Applications<br>**CRC:** Corrosion-Resistant Coating for Hostile Environments |
|---|---|
| **Cable Color** | **BK:** Black<br>**WH:** White |
| **Power Consumption** | 14 W (RGB), 16 W (MRGBA, MRGBWP) |
| **Warranty** | 5-year limited warranty |

## Performance

| **Maximum Delivered Output (Discrete)** | 734 lm (RGB full output, VN 6°, DMX/RDM) |
|---|---|
| **Maximum Delivered Output (Opticolor)** | 668 lm (MRGBA full output, NS 10°, DMX/RDM) |
| **Maximum Delivered Output (Opticolor+)** | 678 lm (MRGBWP full output, NS 10°, DMX/RDM) |
| **Maximum Delivered Intensity (Discrete)** | 35,285 cd at nadir (RGB full output, VN 6°, DMX/RDM) |
| **Maximum Delivered Intensity (Opticolor)** | 11,746 cd at nadir (MRGBA full output, NS 10°, DMX/RDM) |
| **Maximum Delivered Intensity (Opticolor+)** | 11,925 cd at nadir (MRGBWP full output, NS 10°, DMX/RDM) |
| **Illuminance at Distance (Discrete)** | Minimum 1 fc at 189 ft (RGB full output, VN 6°, DMX/RDM) |
| **Illuminance at Distance (Opticolor)** | Minimum 1 fc at 108 ft (MRGBA full output, NS 10°, DMX/RDM) |
| **Illuminance at Distance (Opticolor+)** | Minimum 1 fc at 109 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 |
|---|---|
| **Yoke Material** | Heavy aluminum |
| **Lens Material** | Clear tempered glass |
| **Dome Lens Material** | Acrylic |
| **Hardware Material** | Stainless steel |
| **Gasket Material** | Silicone |
| **Surface Finish** | Electrostatically applied polyester powder coat |
| **Weight** | 5.2 lbs |
| **EPA** | Front = 0.19 ft², Side = 0.11 ft² |

## Electrical and Control

| **Voltage** | 100 to 277 volts |
|---|---|
| **Fixture Cable** | Power and data in one cable |

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| Conductors | 5C #16-5 (DALIT8 control)<br>6C #14-3/ #24-3 (DMX/RDM 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 and MRGBWP) |

## 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 | IK07 |
| 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 Small Snoot, Lumenbeam Small Visor, Lumenbeam Small Linear Spread Lens Adjustable, Lumenbeam Small Wire Guard, Lumenbeam Small Dome Lens |
|---|---|
| Control Boxes | DMX/RDM enabled (Daisy Chain or Star Configuration), Ethernet enabled (Daisy Chain or Star Configuration), Lumentalk Data Bridge |
| Control Systems | Pharos® Lighting Control Kit (PHAROS) |
| 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.

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## Color Point Information

**MRGBWP**
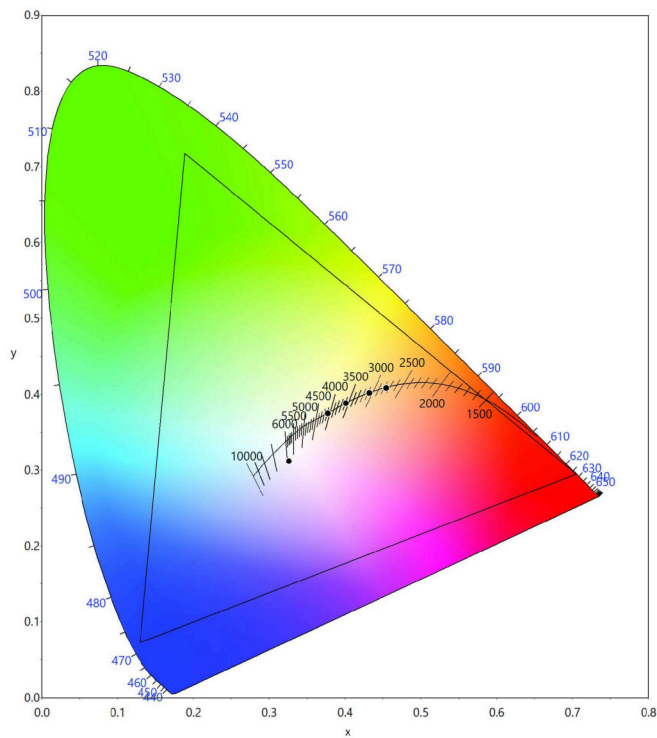


**Dominant Wavelength and Chromaticity**

| | 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 Options

**RY - Rotational Yoke**



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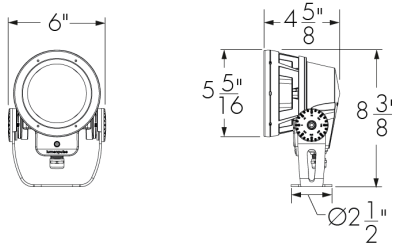
## Mounting Details

### Mounting Hole Pattern - Standard Yoke



$1\frac{1}{2}$"

$\varnothing\frac{7}{16}$"     $\varnothing\frac{5}{16}$"

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

### Mounting Hole Pattern - Rotational Yoke



$R\frac{1}{8}$"     $\varnothing 2\frac{1}{2}$"

$\varnothing 1\frac{1}{2}$"     45°

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

### Adjustable Pivot Limits



0°
75°
140°

## Mounting Options

### SK - Stake Mounting



$9\frac{1}{8}$"
$17\frac{3}{8}$"



0°
-60°
105°
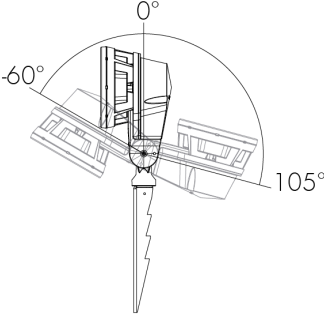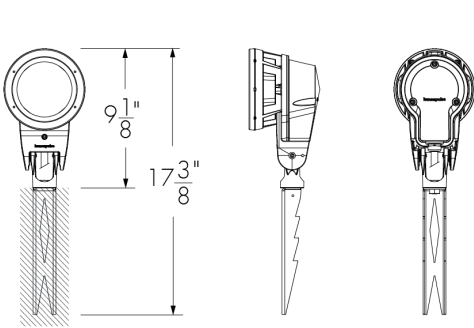
Adjustable Pivot Limits

### KN - Knuckle Mounting



$10\frac{3}{8}$"
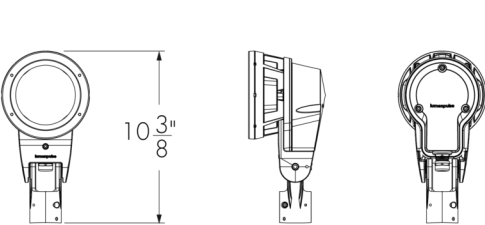
Suitable for 1/2 in, 3/4 in, and 1 in pipe diameter



0°
-40°
60°
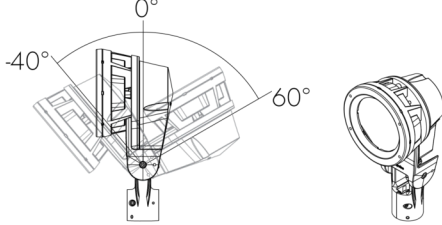
Adjustable Pivot Limits

## CN - Canopy Cover
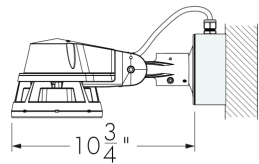
Suitable for standard round junction boxes, surface mounted
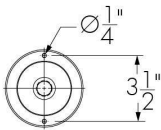
Mounting Hole Pattern
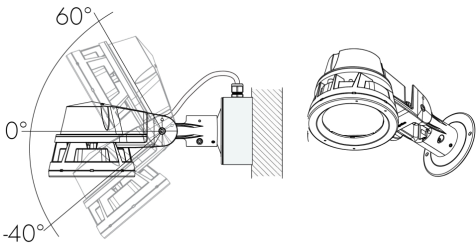
Adjustable Pivot Limits

## 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
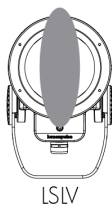
LSLV

### 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 VN, WFL, VWFL, 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



$13\frac{5}{8}$"

$5\frac{1}{8}$"

$7\frac{1}{4}$"

$2\frac{1}{8}$"
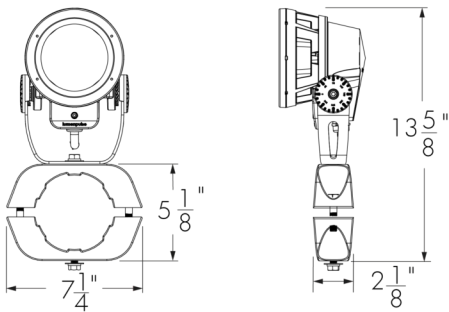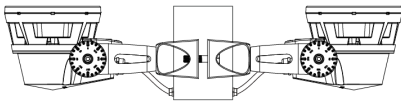
PM4 model shown.
Consult factory for square pole section.
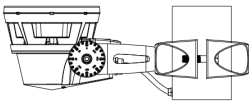




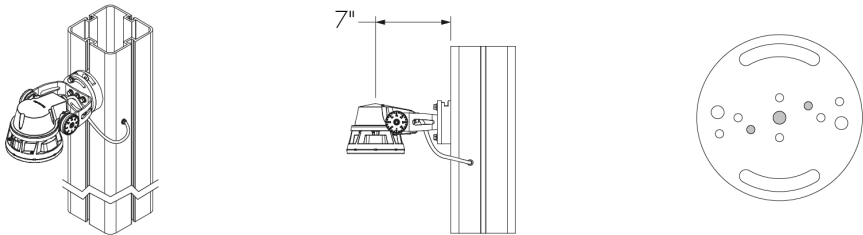**PM4-1, PM4.5-1, PM5-1 -** Round Pole Mounting Accessory - Single Fixture

**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** | $4" \pm \frac{1}{16}"$ | $4.5" \pm \frac{1}{16}"$ | $5" \pm \frac{1}{16}"$ |

Consult factory for other pole diameters.

### PLTU - Universal Yoke



7"



Refer to the Universal Yoke specification sheet and Pole installation instructions for more details. Square Lumentech profile shown.
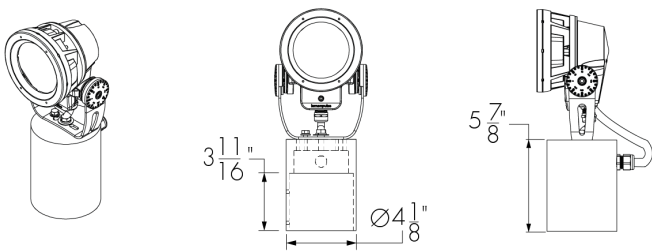
The mounting holes used for this fixture are shown in gray.

### Tenon Adapter



$3\frac{15}{16}$"

$\varnothing 2\frac{1}{2}$"

$5\frac{7}{8}$"
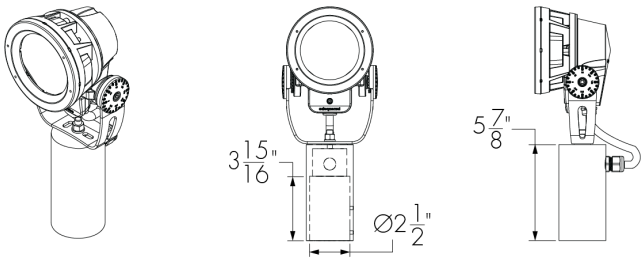
**TN2 -** Tenon Adapter to Fit on 2 3/8 in O.D. Tenon

Vertical mounting only. Consult factory for horizontal mounting.



$3\frac{11}{16}$"
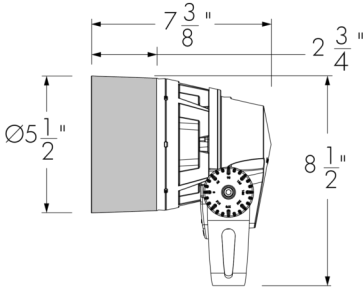
$\varnothing 4\frac{1}{8}$"

$5\frac{7}{8}$"

**TN4 -** Tenon Adpater to Fit on 4 in O.D. Tenon

Vertical mounting only. Consult factory for horizontal mounting.
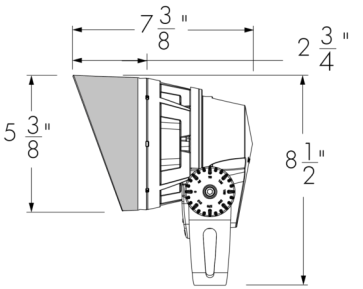
## Optical Accessories (Order Separately)

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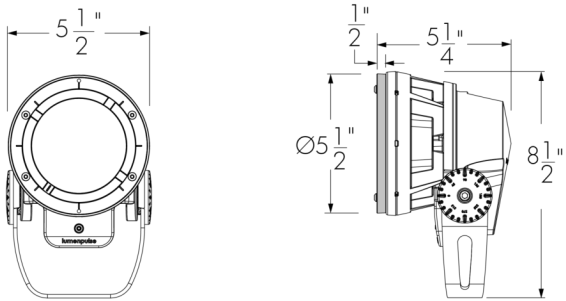
### SN - Snoot

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

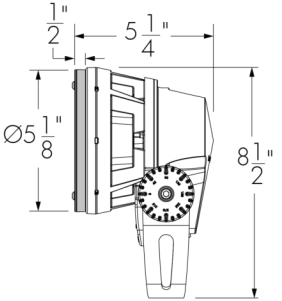### VS - Visor

LBSVS-**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

LBSLSLA-**FINISH**-**OPTIONS** (CRC)
Please specify the exterior **FINISH** from the list of finishes in the fixture order code.
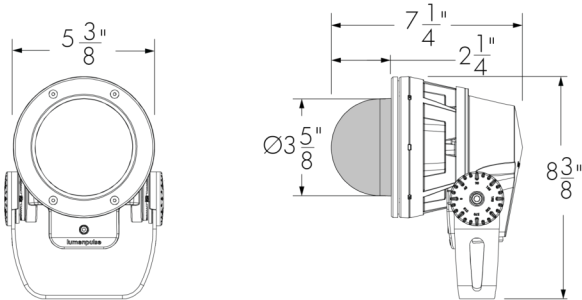
### WG - Wire Guard

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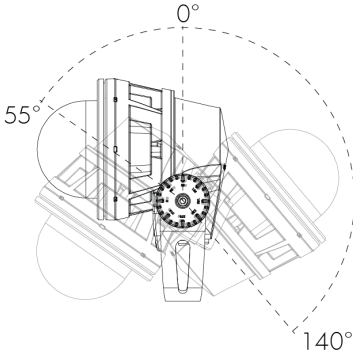Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

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

### DM - Dome Lens

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

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.

### Dome - Standard Yoke - Pivot limits

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## Accessory Combinations

| + | Snoot | Visor |
|---|---|---|
| **Linear spread lens adjustable** | LBSSNLSLA | LBSVSLSLA |
| **Wire guard** | LBSSNWG | LBSVSWG |

Accessory combinations must be ordered together on a single line. A maximum of two accessories can be combined per fixture. Ex: A snoot + wire guard combination order code is LBSSNWG-**FINISH**-BK-**OPTIONS**.
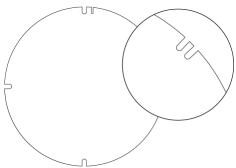
## Diffuser Lenses (Intended for Mockup Purposes Only, Order Separately)
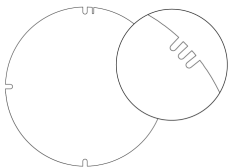
**Diffuser Lens 1 (1 Notch)**
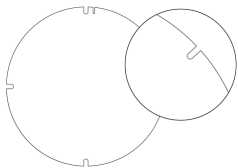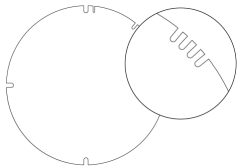
147665

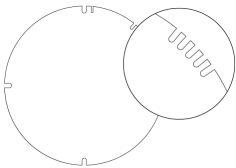**Diffuser Lens 2 (2 Notches)**

147666

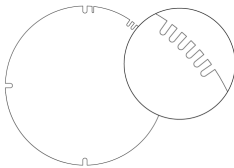**Diffuser Lens 3 (3 Notches)**

147667

**Diffuser Lens 4 (4 Notches)**

147668

**Diffuser Lens 5 (5 Notches)**

147669

**Diffuser Lens 6 (6 Notches)**

147670

## 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.

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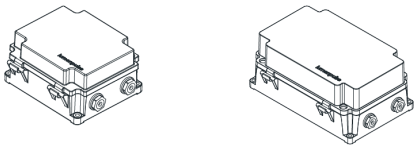2025.05.28 Copyright © 2025 LMPG Inc.
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## Control Boxes (Order Separately)

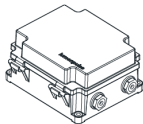### CBX-DMX/RDM - DMX/RDM Enabled (Daisy Chain or Star Configuration)
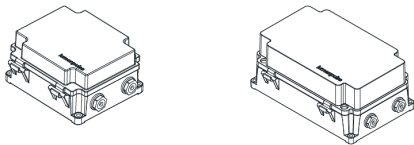
DMX/RDM control box. Up to six power and data outputs to fixtures or fixture runs. Consult CBX specification sheet and installation instructions for details. Lumenterminators provided with CBX (2x for Daisy Chain configuration, 6x for Star configuration), consult factory to order spares.

### LDB - Lumentalk Data Bridge

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

### 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.
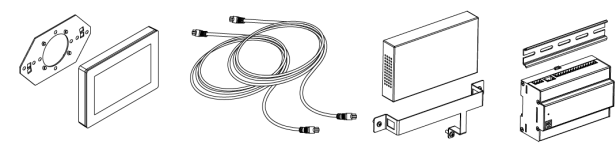
## Control Systems (Order Separately)

### 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.

## Diagnostic And Addressing Tools (Order Separately)

### LID - LumenID

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

## EPA Guide

| | LBS | LBS with Snoot | LBS with Visor | LBS with Dome Lens |
|---|---|---|---|---|
| **EPA front (sq ft)** | 0.188 | 0.188 | 0.188 | 0.188 |
| **EPA side (sq ft)** | 0.113 | 0.186 | 0.176 | 0.133 |

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## 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)
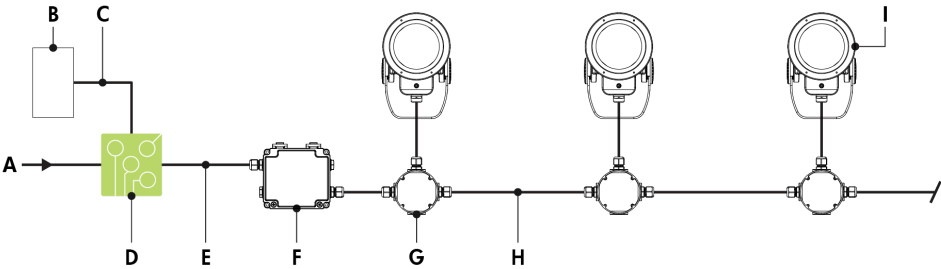


**A -** Power input (100-277V AC, wiring by others)
**B -** DMX/RDM controller (order separately from Lumenpulse, or by others)
**C -** Data wiring (by others)
**D -** Lumentranslator 2 (LTL2-DMX)
**E -** Power wiring (by others)
**F -** Lumentalk Data Bridge (LDB-DMX)
**G -** Junction box (by others)
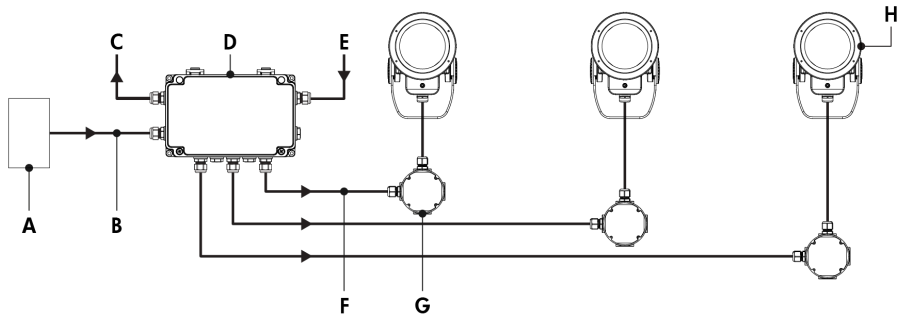**H -** Power and data wiring (by others)
**I -** Lumenbeam Small

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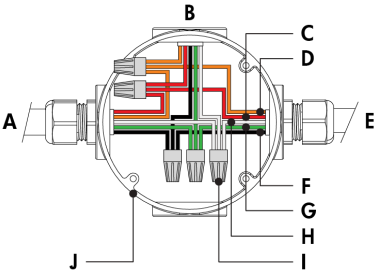


**A -** From Lumentalk Data Bridge (control over power line via Lumentalk system) or from previous fixture
**B -** To fixture
**C -** 0-10 V + / Data +
**D -** 0-10 V - / Data -
**E -** To next fixture
**F -** Line
**G -** Ground
**H -** Line/Neutral
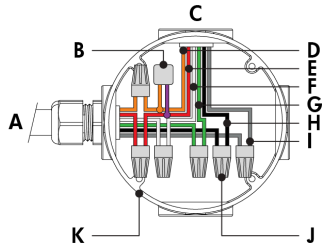**I -** Wire-nut (by others)
**J -** Junction box (by others)

- 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-LT. 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.
- 14 watts per fixture (RGB), 16 watts per fixture (MRGBA, MRGBWP).

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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 (by others)
**G -** Junction box (by others)
**H -** Lumenbeam Small

## 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 |
|---|---|---|---|---|
| **LBS** | 32 | 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. MRGBA and MRGBWP 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.
- 14 watts per fixture (RGBW), 16 watts per fixture (MRGBA, MRGBWP).

## Daisy Chain Layout (DMX/RDM)
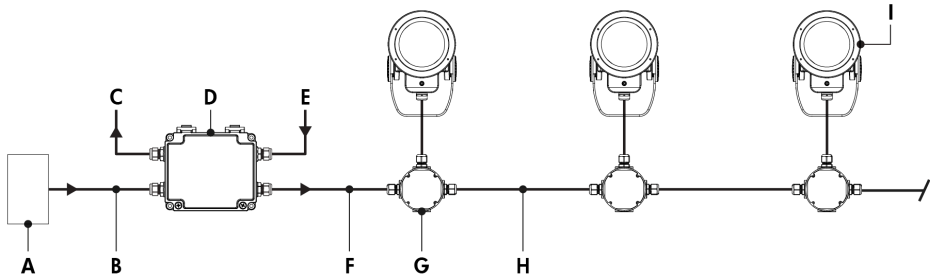


**A -** DMX/RDM controller (order separately from Lumenpulse, or by others)
**B -** Data input (Belden 9841 or equivalent, by others)
**C -** Data output to next CBX (optional, not isolated/not boosted)
**D -** CBX-DS
**E -** Power input (100-277V AC, wiring by others)
**F -** Power and data output to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

## Daisy Chain Layout (DMX/RDM) - Wiring Detail (First or Middle of Run)
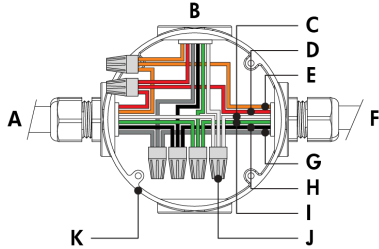


**A -** From CBX or previous fixture
**B -** To fixture
**C -** Neutral
**D -** Data +
**E -** Data -
**F -** To next fixture
**G -** Signal common
**H -** Line
**I -** Ground
**J -** Wire-nut (by others)
**K -** Junction box (by others)

## 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 |
|---|---|---|---|---|
| **LBS** | 32 | 32 | 32 | 32 |

Based on 15A maximum, 16AWG cable, fixtures spaced 10 ft on center, first fixture 50 ft from CBX.
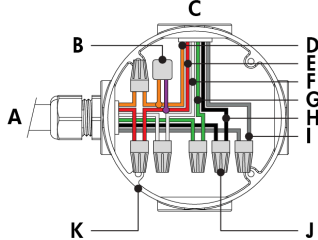
- Consult CBX installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run.
- Maximum of 4 DMX/RDM repeaters/CBX cascading 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. MRGBA and MRGBWP 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.
- 14 watts per fixture (RGBW), 16 watts per fixture (MRGBA, MRGBWP).

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**DALI 2 T8 (DALIT8)**
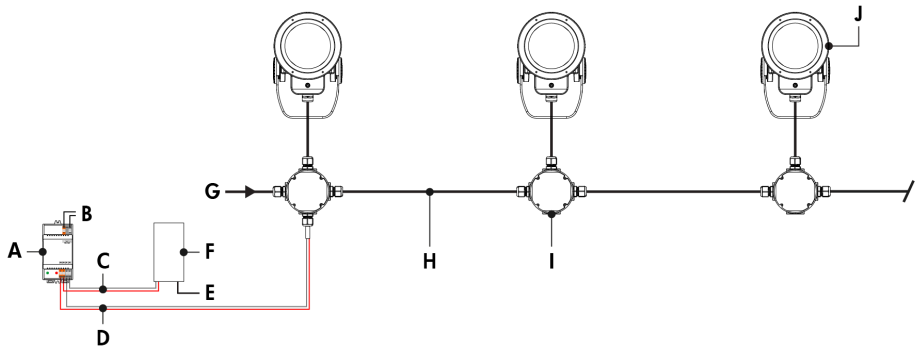


**A -** DALI bus power supply (by others)
**B -** Power input for DALI bus power supply (wiring by others)
**C -** Data output to DALI controller (wiring by others)
**D -** Data output to fixture (wiring by others)
**E -** Power input for DALI controller (if required, wiring by others)
**F -** DALI controller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

**DALI 2 T8 (DALIT8) - Wiring Detail**
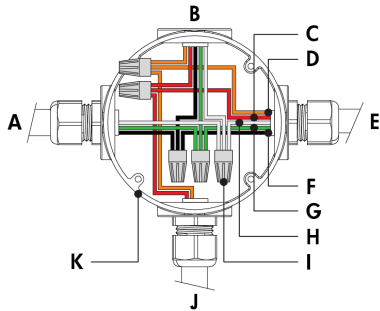


**A -** Power input or from previous fixture
**B -** To fixture
**C -** DA +
**D -** DA -
**E -** To next fixture
**F -** Line
**G -** Ground
**H -** Neutral
**I -** Wire-nut (by others)
**J -** From DALI controller (by others)
**K -** Junction box (by others)

- 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.
- 14 watts per fixture (RGBW), 16 watts per fixture (MRGBA, MRGBWP).

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## How to Order

| Housing | Voltage | Color and Color Temperature | Optic | Optical Option (11) (13) (14) | Finish | Control (18) (21) | Mounting Option (23) | Option | Certification | Cable Length (20) (31) | Cable Color | Buy America.n Act |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LBS** Lumenbeam™ Small | **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 | **RGB** RGB<br><br>**MRGBA** Opticolor with MRGBA Amber (1) (2)<br><br>**MRGBWP** MRGBWP With Opticolor+™ (Red, Green, Blue and Configurable White 2400-6500K) (1) (2) (3) (4) (5) | **VN** Very Narrow 6° (6) (7)<br><br>**NS** Narrow Spot 10° (6)<br><br>**NF** Narrow Flood 20° (6)<br><br>**M** Medium 30° (6)<br><br>**FL** Flood 40° (6)<br><br>**WFL** Wide Flood 60° (6) (8)<br><br>**VWFL** Very Wide Flood 90° (6) (9) (10)<br><br>**NAS** Narrow Asymmetric (6) (7)<br><br>**WW** Asymmetric Wallwash (6) (7) | **LSLH** Linear Spread Lens Horizontal Distribution (12)<br><br>**LSLV** Linear Spread Lens Vertical Distribution (12) | **BK** Black Sandtex®<br><br>**BRZ** Bronze Sandtex®<br><br>**SI** Silver Sandtex®<br><br>**WH** Smooth White<br><br>**BKTX** Textured Black<br><br>**BRZTX** Textured Bronze Non-Metallic<br><br>**GRATX** Textured Medium Gray<br><br>**GRNTX** Textured Green<br><br>**WHTX** Textured White<br><br>**CC** Custom Color & Finish (15) (16) (17) | **DMX/RDM** DMX/RDM Enabled Dimming (19) (20)<br><br>**DALIT8** DALI 2 T8 Enabled Dimming 0.1% (5) (22) | **SK** Stake Mounting<br><br>**KN** Knuckle Mounting<br><br>**CN** Canopy Mounting Option | **RY** Rotational Yoke (24) (25)<br><br>**3GV** 3G ANSI C136.31-2010 Vibration Rating for Bridge Applications (26)<br><br>**CRC** Corrosion-Resistant Coating (27) (28) | **UL** UL Compliant<br><br>**CE** CE Compliant (29) (30)<br><br>**CEII** CE Compliant Class II Double Insulated (7) (29) | **3FT** 3 ft (20) (31)<br><br>**10FT** 10 ft<br><br>**20FT** 20 ft<br><br>**30FT** 30 ft<br><br>**50FT** 50 ft<br><br>**70FT** 70 ft<br><br>**100FT** 100 ft | **BK** Black<br><br>**WH** White (32) | **BAA** Buy America.n (32) (33) |

## 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. MRGBWP can be configured to MRGB via RDM, consult factory for more details.
4. 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.
5. Consult factory for DALIT8 applications with MRGBWP and a CCT other than 3000K.
6. Factory installed, not interchangeable on site.
7. Not available with MRGBA and MRGBWP color temperature options.
8. A dome lens accessory is available, order separately. For compatibility, a WFL optic must be specified for the fixture.
9. Available with MRGBA and MRGBWP color temperature options only.
10. Consult factory for photometric performance.
11. Optical options are factory installed and cannot be changed in the field.
12. Field adjustable spread lens optical accessory available, order separately.
13. Not available with WFL, NAS and WW optics when combined with RGB color temperature option.
14. Not available with VN, WFL, VWFL, NAS and WW optics when combined with MRGBA or MRGBWP color temperature options.
15. 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 K7 colors, other RAL textures and glosses, or to match alternate color charts. Final color matching results may vary.
16. Setup charges apply for RAL colors. Consult factory for details.
17. Longer lead times can be expected for custom RAL color finishes.
18. 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.
19. A control box (CBX) and LumenID (LID) must be specified.
20. Maximum of 3 ft cable length for daisy chain DMX applications with CBX-DS.
21. A Lumentranslator 2 (LTL2) and LumenID (LID) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.
22. DALI 2 T8 controller required, provided by others. DALI2 T8 control uses a single DALI short address.
23. The standard yoke is provided unless an alternate mounting option is specified as part of the order code.
24. Consult factory for applications with 3GV requirements.
25. The Rotational Yoke cannot be combined with any other mounting option.
26. 3GV option is available for standard yoke mounting only.
27. Use only when exposed to salt spray. This option is not required for normal outdoor exposure.
28. Setup charges apply. Consult factory for details.
29. Consult European specification sheets and installation instructions for CE and CE Class II wiring information.
30. Not available with DALIT8 control option when combined with RGB color temperature option.
31. 3 ft cable length is standard unless otherwise specified.
32. Not available with CE or CEII certification options.
33. Contact your Lumenpulse Sales Representative for more information on order volume details.