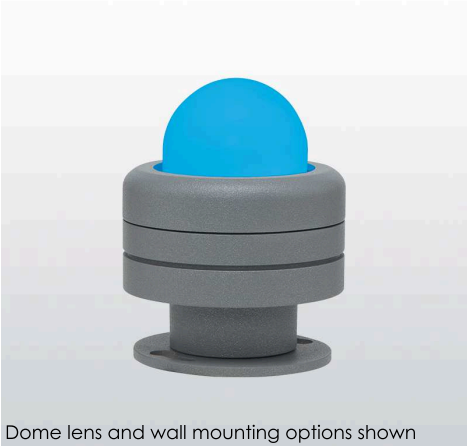
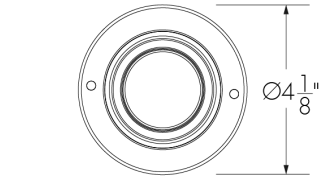
**Project Name** _____ **Qty** _____

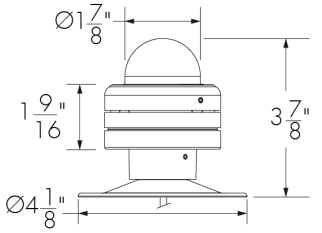
**Type** _____ **Catalog / Part Number** _____



Dome lens and wall mounting options shown




Top view




Front view

## Photometric Summary

| Delivered output (lm) | Power (W) | Efficacy (lm/W) |
|---|---|---|
| 17 | 1.4 | 12.3 |

**Average Luminance**

| Angle | 45° (cd/m²) | 90° (cd/m²) |
|---|---|---|
| **45°** | 310 | 310 |
| **55°** | 363 | 363 |
| **65°** | 454 | 454 |
| **75°** | 665 | 665 |
| **85°** | 1698 | 1698 |

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

## Colors and Color Temperatures

RGB
Red Green Blue

## Control

DMXrdm

## Ratings

IP66 IK10

*Dome lens is IK09 rated

## Certifications

cULus CE RoHS 5 YEARS lumenpulse

## Description

The Lumendome Nano Colour Changing is the 2 in member of a family of direct-view pixel luminaires designed for creative urban concepts such as media facades, low-density video displays and environmental graphics. In contrast to LED strings and mesh systems, Lumendomes can be arranged in any formation, enabling flexibility and closer integration with architecture. Pixels are available in RGB and are controllable via DMX/RDM.

## Features

| | |
|---|---|
| **Color and Color Temperature** | RGB |
| **Optics** | Domed lens, Flat lens |
| **Mounting Options** | Canopy Mounting Option (for Mounting on a Standard Round Junction Box), Wall mounting option |
| **Power Consumption** | 2 watts DC (total consumption varies according to remote power supply efficiency) |
| **Warranty** | 5-year limited warranty |
| **Option** | Corrosion-Resistant Coating for Hostile Environments<br>Flat lens<br>CE (certification covers European Economic Area) |

## Performance

| | |
|---|---|
| **Lumen Maintenance** | L95 21,000 hrs (Ta 25 °C)<br>L95 13,000 hrs (Ta 40 °C) |

## Physical

| | |
|---|---|
| **Housing Material** | Low copper content machined aluminum |
| **Lens Material** | High impact UV protected polycarbonate |
| **Gasket Material** | Silicone |
| **Surface Finish** | Electrostatically applied polyester powder coat |

| | |
|---|---|
| **Weight** | 1.1 lbs |

## Electrical and Control

| | |
|---|---|
| **Voltage** | 48V DC, remote driver & data supply available for 100-277V AC (not included) |
| **Fixture Cable** | Power and data in one cable, 3 ft cable |
| **Leader Cable Conductor** | 5C #18-5 |
| **Control** | DMX/RDM Enabled |
| **Resolution (DMX/RDM)** | Per fixture, 8-bit or 16-bit, 3 channels (RGB) |

## Accessories (Order Separately)

| | |
|---|---|
| **Control** | DMX/RDM Control Box |
| **Control Systems** | Pharos® Lighting Control Kit (PHAROS), Pharos® Expert Control Kit (EXPERT) |
| **Diagnostic and Addressing Tools** | LumenID (LID) |

## Environmental

| | |
|---|---|
| **Storage Temperature** | -40 °F to 185 °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 (dome lens)<br>IK10 |
| **Environment** | Dry/damp/wet location |

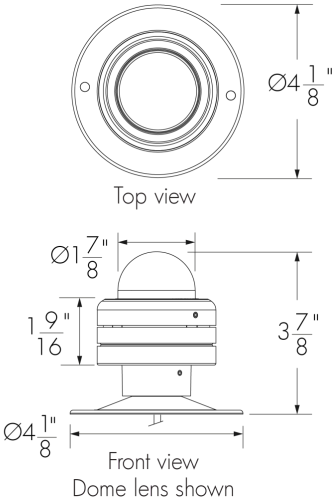
## Important

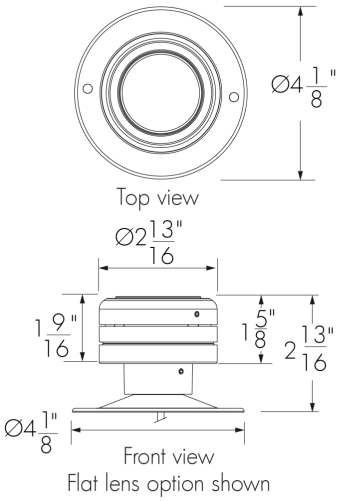
**Virtual Patent Marking Notice**

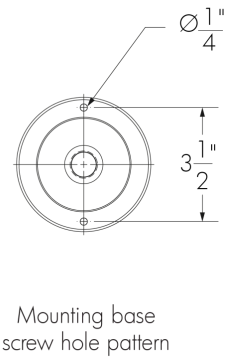
This website (https://www.lmpg.com/patents-trademarks) is provided to satisfy the virtual patent marking provisions of applicable jurisdictions. Some products listed may be covered by additional patents not referenced here.

## Mounting Options

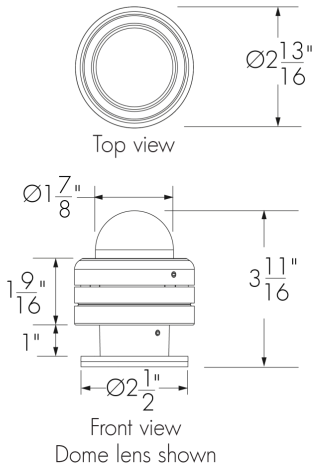
### CN - Canopy Mounting (For Mounting On A Standard Round Junction Box)

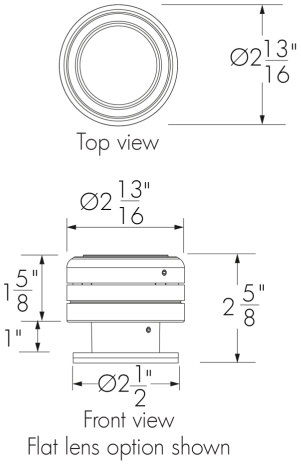


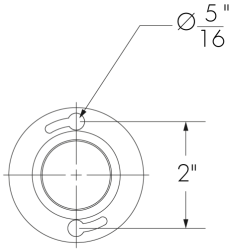




### WM - Wall Mounting

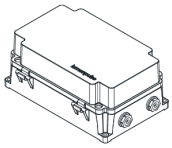


## Control And Power Supply Boxes (Order Separately)

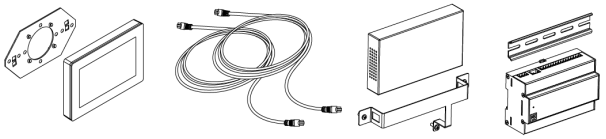
### CBX60-100 - DMX/RDM Control Box



DMX/RDM control box. Up to six low voltage power and data outputs to fixtures or fixture runs. Consult CBX60, CBX100 specification sheet for details.

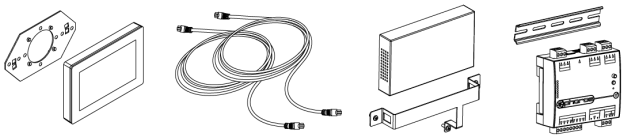
## Control Systems (Order Separately)

### 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.

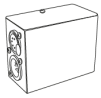
### EXPERT - Pharos® Expert Control Kit



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



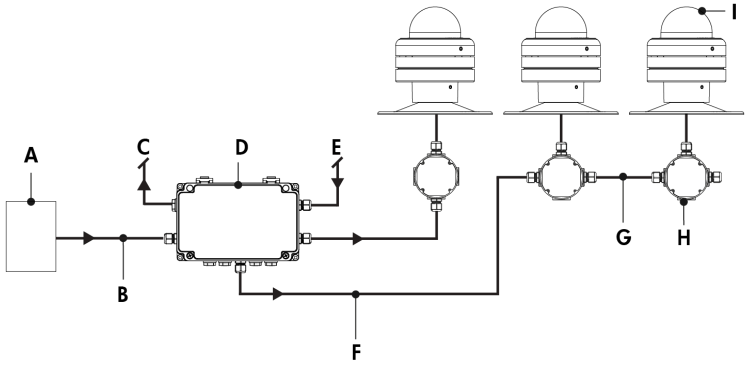
The updated LumenID (LID) is now your all-in-one diagnostic and addressing solution for both DMX/RDM and Lumentalk (LT) systems. Engineered for versatility, it streamlines commissioning and troubleshooting across protocols—no need for multiple tools. Consult the LID specification sheet for full details.

## Typical Wiring Diagrams

### Wiring Color Code

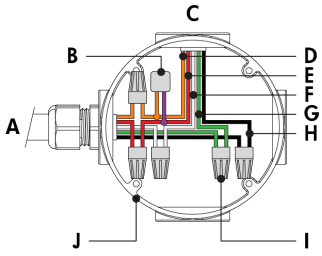
| UL Color Code | USE |
|---|---|
| Green | Ground |
| Black | Power 48V + |
| White | Power 48V - |
| Red/Purple | Data + |
| Orange | Data - |

### 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 -** CBX100 - 48V
**E -** Power input (100-277V, wiring by others)
**F -** Power and data output to fixture (wiring by others)
**G -** Power and data wiring (by others)
**H -** Junction box (by others)
**I -** Lumendome nano

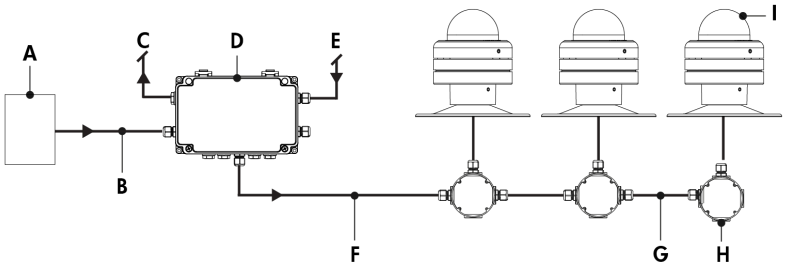
### Star Layout (DMX/RDM) - Wiring Detail




**A -** From CBX or previous fixture
**B -** Lumenterminator (use at the end of each run only)
**C -** To fixture
**D -** Data -
**E -** Data +
**F -** 48V -
**G -** Ground
**H -** 48V +
**I -** Wire-nuts (by others)
**J -** Junction box (by others)

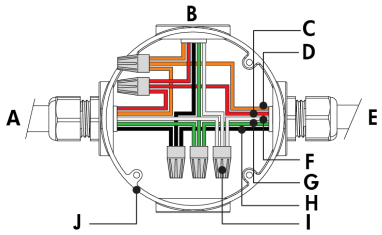
- Consult CBX60 and CBX100 installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures per CBX.
- RGB color mixture option requires 3 DMX addresses.
- Maximum number of fixtures per run depends on the power supply. For CBX100, 48V: maximum of 32 Lumendome nano.
- DMX terminator is required at the end of each run to maintain data integrity. (6x) DMX lumenterminators included per CBX60 or CBX100. See installation instructions for details.
- 2 watts DC (total consumption varies according to remote power supply efficiency).

### Daisy Chain Layout (DMX/RDM)



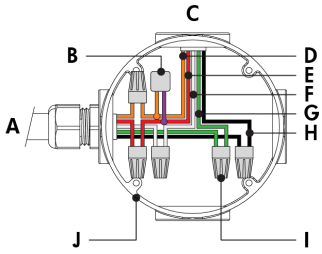

**A -** DMX/RDM controller (order separately from Lumenpulse, or by others)
**B -** Data input (Belden 9841 or equivalent, by others)
**C -** Data output to next CBX (optional, not isolated/not boosted)
**D -** CBX100 - 48V
**E -** Power input (100-277V, wiring by others)
**F -** Power and data output to fixture (wiring by others)
**G -** Power and data wiring (by others)
**H -** Junction box (by others)
**I -** Lumendome nano

### DMX/RDM - Wiring Detail (First Or Middle Of Run)




**A -** From CBX or previous fixture
**B -** To fixture
**C -** Data +
**D -** Data -
**E -** To next/from previous fixture
**F -** Power 48V -
**G -** Ground
**H -** Power 48V +
**I -** Wire-nuts (by others)
**J -** Junction box (by others)

### DMX/RDM - Wiring Detail (End Of Run)




**A -** From CBX or previous fixture
**B -** Lumenterminator
**C -** To fixture
**D -** Data -
**E -** Data +
**F -** 48V -
**G -** Ground
**H -** 48V +
**I -** Wire-nuts (by others)
**J -** Junction box (by others)

- Consult CBX60 and CBX100 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 per CBX.
- RGB color mixture option requires 3 DMX addresses.
- Maximum number of fixtures per run depends on the power supply. For CBX100, 48V: maximum of 32 Lumendome nano.
- DMX terminator is required at the end of each run to maintain data integrity. (6x) DMX lumenterminators included per CBX60 or CBX100. See installation instructions for details.
- 2 watts DC (total consumption varies according to remote power supply efficiency).

## How to Order

| Housing | Voltage | Color and Color Temperature | Finish | Control | Mounting Options | Option |
|---|---|---|---|---|---|---|
| **LMDN**<br>Lumendome™ Nano [1] | **48V**<br>48V [2] | **RGB**<br>RGB | **BK**<br>Black Sandtex®<br>**BRZ**<br>Bronze Sandtex®<br>**SI**<br>Silver Sandtex®<br>**WH**<br>Smooth White<br>**CC**<br>Custom Color & Finish [3] [4] [5] | **DMX/RDM**<br>DMX/RDM Enabled Dimming [6] | **CN**<br>Canopy Mounting Option [7]<br>**WM**<br>Wall mounting option | **CRC**<br>Corrosion-Resistant Coating [8] [9]<br>**FTL**<br>Flat lens<br>**CE**<br>CE (European certification) [10] |

## Notes:

**1.** Consult factory for products that are BAA-approved (Buy America.n Act).
**2.** Remote control and power supply required but not included.
**3.** 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.
**4.** Longer lead times can be expected for custom RAL color finishes.
**5.** Setup charges apply for RAL colors. Consult factory for details.
**6.** A CBX60 or CBX100 and a LID must be specified.
**7.** For mounting on a standard round junction box.
**8.** Use only when exposed to salt spray. This option is not required for normal outdoor exposure.
**9.** Setup charges apply. Consult factory for details.
**10.** Consult European specification sheet and installation instructions for CE wiring information.

lumenpulse™

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**www.lumenpulse.com** **www.lumenpulse.com/products/4945**