

Project Name

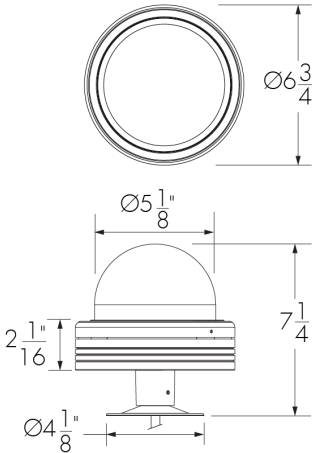
Qty

Type

Catalog / Part Number



Dome lens & Canopy mounting options shown



Top view

Front view

Photometric Summary

Delivered output (lm)	Power (W)	Efficacy (lm/W)
109	10.2	10.7

Average Luminance

Angle	45° (cd/m²)	90° (cd/m²)
45°	611	611
55°	691	691
65°	839	839
75°	1193	1193
85°	2996	2996

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

Colors and Color Temperatures



Control



Ratings

IP66 IK10
Dome lens is IK07 rated

Lumencycle™ Program



Description

The 6 in Lumendome Medium Colour Changing is part 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 fixed 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	12 watts DC power (total consumption varies according to remote power supply efficiency)
Warranty	5-year limited warranty
Option	Corrosion-Resistant Coating for Hostile Environments Flat lens CE (certification covers European Economic Area)

Performance

Lumen Maintenance	L95 21,000 hrs (Ta 25 °C) L95 13,000 hrs (Ta 40 °C)
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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

Certifications



Weight	3.41 lbs
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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® Designer 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 Wet location rated
Impact Resistance Rating	IK07 (Dome lens) IK10
Environment	Dry/damp/wet location

Important

Virtual Patent Marking Notice

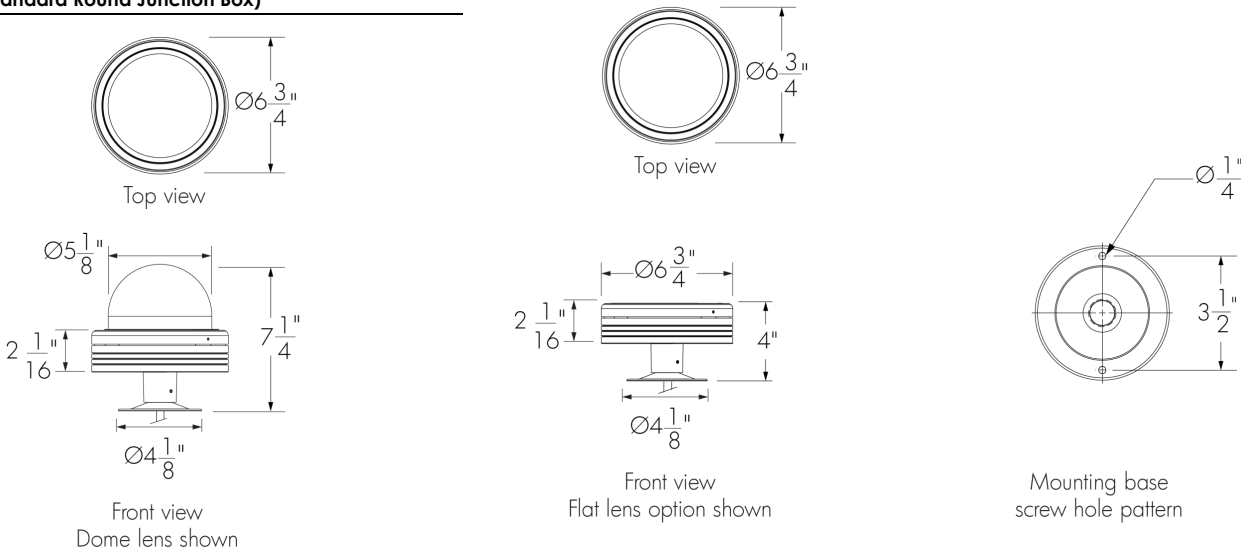
This website (<https://www.lmpg.com/patents-trademarks>) is provided to satisfy the virtual patent marking provisions of applicable jurisdictions. Some products listed may be covered by additional patents not referenced here.

Lumencycle™ Program

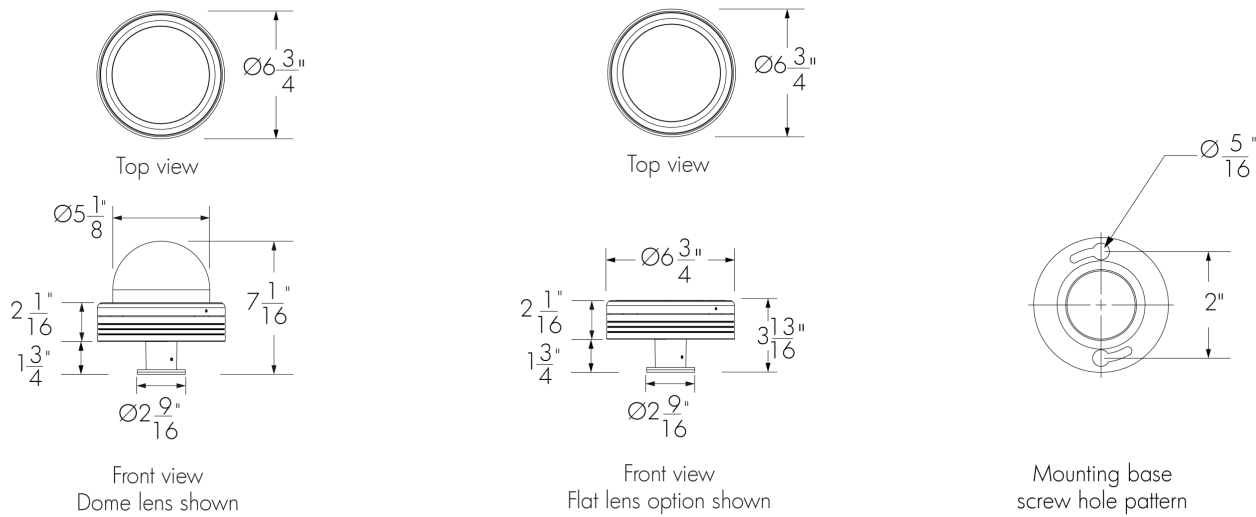
Lumencycle is a comprehensive program designed to maximize the life of Lumenpulse fixtures while preserving their performance, quality, and design intent. Built around three pillars—Repair, Restore, and Recycle—the program provides clear pathways to maintain existing installations, restore fixtures, and responsibly manage them at end of life. For full program details, visit <https://www.lumenpulse.com/lumencycle>.

Mounting Options

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

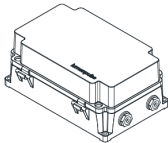


WM - Wall Mounting



Control And Power Supply Boxes (Order Separately)

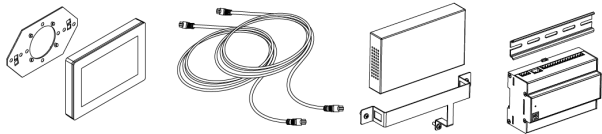
CBX60-100 - DMX/RDM Control Box



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 Control 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



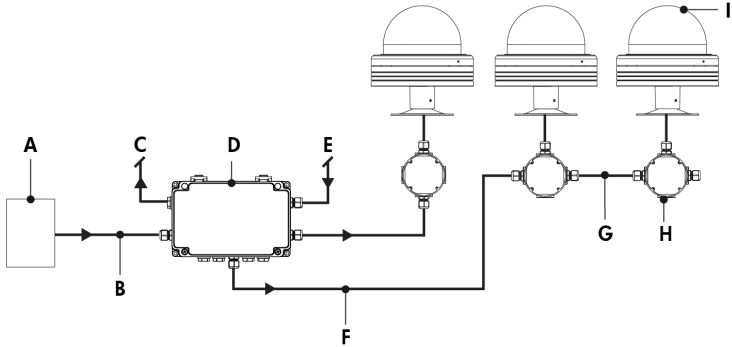
The updated LumenID (LID) is an all-in-one diagnostic and addressing solution for both DMX/RDM and Lumentalk (LT) systems. Engineered for versatility, it streamlines commissioning and troubleshooting across protocols—no need for multiple tools. Cable option may vary; please consult factory. For complete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

Typical Wiring Diagrams

Wiring Color Code

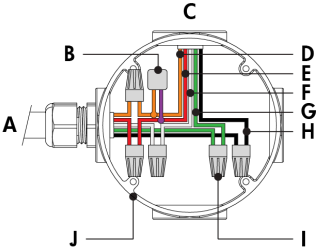
UL Color Code	USE
Green	Ground
Black	Power 48V +
White	Power 48V -
Red/Purple	Data +
Orange	Data -

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 medium

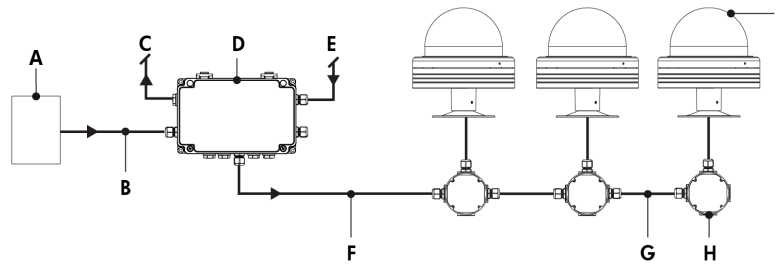
Star Layout (DMX/RDM) - Wiring Detail



- 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)

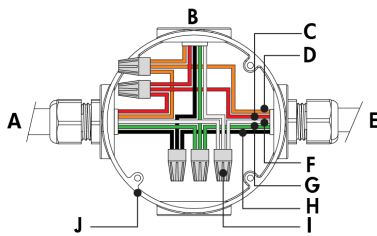
- Consult CBX60 and CBX100 installation instructions for additional wiring detail.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures per CBX.
- RGB color mixture option requires 3 DMX addresses.
- Maximum number of fixtures per run depends on the power supply. For CBX100, 48V: maximum of 7 Lumendome medium.
- 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.
- 12 watts DC (total consumption varies according to remote power supply efficiency).

Daisy Chain Layout (DMX/RDM)



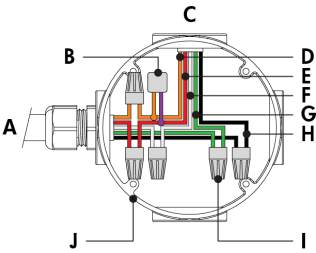
- A** - DMX/RDM controller (order separately from Lumenpulse, or by others)
- B** - Data input (Belden 9841 or equivalent, by others)
- C** - Data output to next CBX (optional, not isolated/not boosted)
- D** - CBX100 - 48V
- E** - Power input (100-277V, wiring by others)
- F** - Power and data output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

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/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 7 Lumendome medium.
- 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.
- 12 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
LMDM Lumendome™ Medium ⁽¹⁾	48V 48V ⁽²⁾	RGB RGB	BK Black Sandtex® BRZ Bronze Sandtex® SI Silver Sandtex® WH Smooth White CC Custom Color & Finish ⁽³⁾ ⁽⁴⁾ ⁽⁵⁾	DMX/RDM DMX/RDM Enabled Dimming ⁽⁶⁾	CN Canopy Mounting Option ⁽⁷⁾ WM Wall mounting option	CRC Corrosion-Resistant Coating ⁽⁸⁾ ⁽⁹⁾ FTL Flat lens CE CE (European certification) ⁽¹⁰⁾

Notes:

1. Consult factory for products that are BAA-approved (Buy American 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.