

Project Name

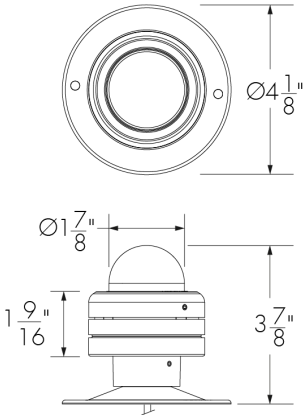
Qty

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]
ALL CCT	55	2.1	26.2

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

Average Luminance

Angle	45° (Cd/m²)	90° (Cd/m²)
45°	1015	1015
55°	1171	1171
65°	1454	1454
75°	2105	2105
85°	5397	5397

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

Colors and Color Temperatures



Control

ON/OFF DMXrdm

Ratings

IP66 IK10
*Dome lens is IK09 rated

Lumencycle™ Program



Description

The Lumendome Nano 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. White pixels are available in 4 color temperatures - 2700K, 3000K, 3500K and 4000K - and are controllable via DMX/RDM.

Features

Color and Color Temperature	2700K, 3000K, 3500K, 4000K
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 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)
Color Consistency	2 SDCM
Color Rendering	CRI 80+

Physical

Housing Material	Low copper content machined aluminum
Lens Material	High impact UV protected polycarbonate

Certifications







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	On/Off Control, DMX/RDM Enabled
Resolution (DMX/RDM)	Per fixture, 8-bit or 16-bit

Accessories (Order Separately)

Control	DMX/RDM Control Box
Power Supply Box	Power supply 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	IK09 (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.

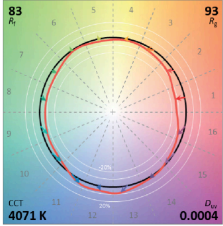
Lumencycle™ Program

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>.

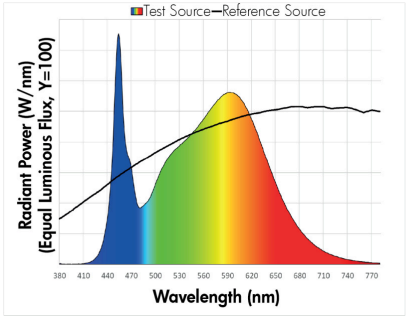
Chromaticity Data

TM-30 - 4000K

CCT	CIE	TM-30
4000K	R_a	83
	R_g	93
	R_f	0.0004

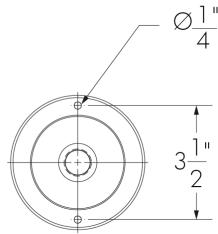
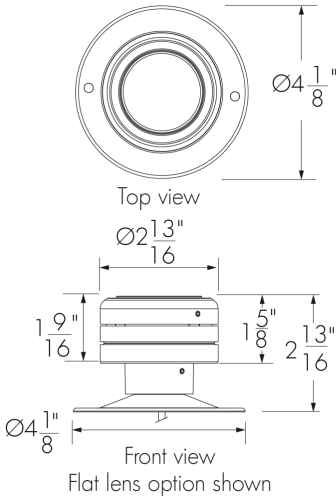
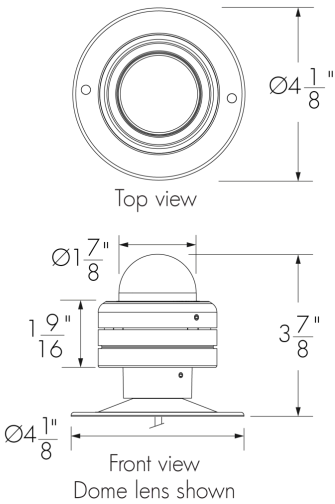


Spectral Power Distribution



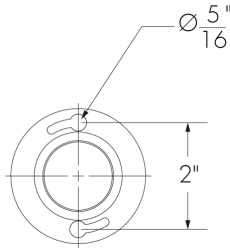
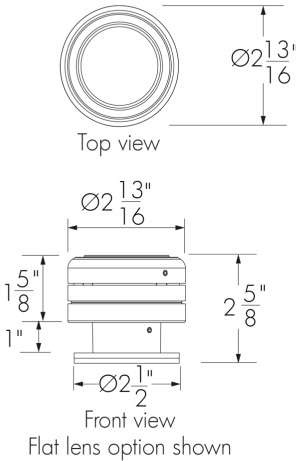
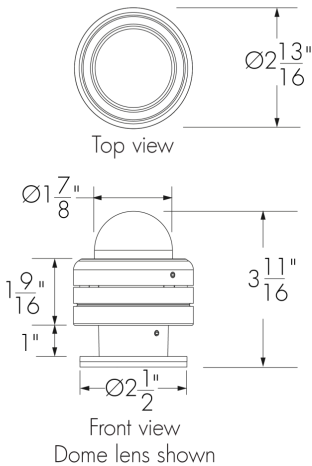
Mounting Options

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



Mounting base
screw hole pattern

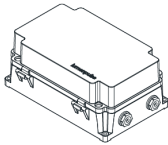
WM - Wall Mounting



Mounting base
screw hole pattern

Control And Power Supply Boxes (Order Separately)

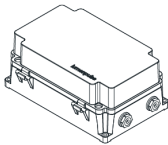
CBX60-100 - DMX/RDM Control Box



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.

Power Supply And Dimming Boxes (Order Separately)

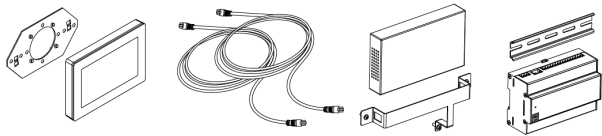
PSX60-100 - Power Supply Box



Power supply box. Up to six low voltage power outputs to fixtures or fixture runs. Consult PSX60, PSX100 specification sheet for details.

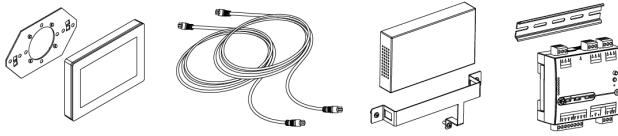
Control Systems (Order Separately)

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



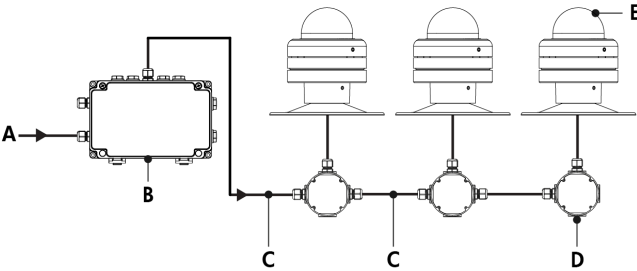
The updated LumenID (LID) is an all-in-one diagnostic and addressing solution for both DMX/RDM and Lumentalk (LT) systems. Engineered for versatility, it streamlines commissioning and troubleshooting across protocols—no need for multiple tools. Cable option may vary; please consult factory. For complete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

Typical Wiring Diagrams

Wiring Color Code

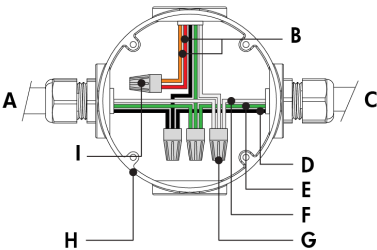
UL Color Code	USE
Green	Ground
Black	Power 48V +
White	Power 48V -
Red/Purple	Data +
Orange	Data -

On/Off Control (NO)



- A - Power input (100-277V, wiring by others)
- B - PSX100- 48V
- C - Power wiring (by others)
- D - Junction box (by others)
- E - Lumendome nano

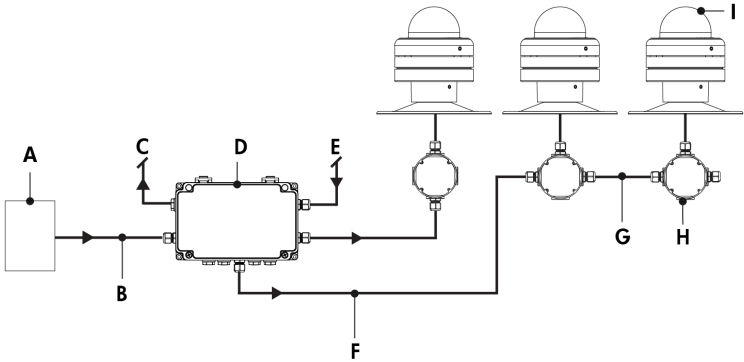
On/Off Control (NO) - Wiring Detail



- A - From PSX100 or previous fixture
- B - Not required
- C - To fixture
- D - 48V +
- E - Ground
- F - 48V -
- G - Wire-nuts (by others)
- H - Junction box (by others)
- I - Always tie wires together

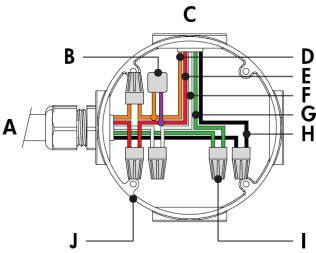
- Maximum distance and quantity of fixtures per PSX100 48V: maximum of 32 Lumendome nano.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- 2 watts DC (total consumption varies according to remote power supply efficiency).

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

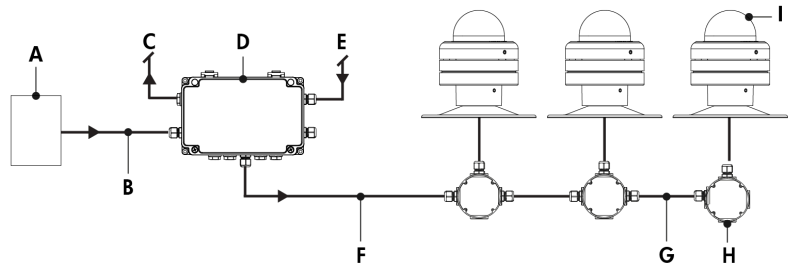
Star Layout (DMX/RDM) - Wiring Detail



- 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)

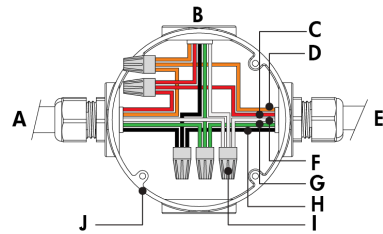
- Consult CBX60 & CBX100 installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures per CBX.
- Each fixture requires 1 DMX address.
- 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)



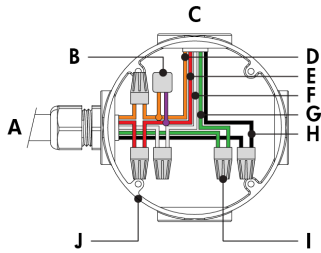
- A - DMX/RDM controller (order separately from Lumenpulse, or by others)
- B - Data input (Belden 9841 or equivalent, by others)
- C - Data output to next CBX (optional, not isolated/not boosted)
- D - CBX100 - 48V
- E - Power input (100-277V, wiring by others)
- F - Power and data output to fixture (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/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.
- Each fixture requires 1 DMX address.
- 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 Lumendome™ Nano ⁽¹⁾	48V 48V ⁽²⁾	27K 2700K 30K 3000K 35K 3500K 40K 4000K	BK Black Sandtex® BRZ Bronze Sandtex® SI Silver Sandtex® WH Smooth White CC Custom Color & Finish ⁽³⁾ ⁽⁴⁾ ⁽⁵⁾	NO On/Off Control ⁽⁶⁾ DMX/RDM DMX/RDM Enabled Dimming ⁽⁷⁾	CN Canopy Mounting Option ⁽⁸⁾ WM Wall mounting option	CRC Corrosion-Resistant Coating ⁽⁹⁾ ⁽¹⁰⁾ FTL Flat lens CE CE (European certification) ⁽¹¹⁾

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

5. Longer lead times can be expected for custom RAL color finishes.
6. A PSX60 or PSX100 must be specified.

7. A CBX60 or CBX100 and a LID must be specified.

8. For mounting on a standard round junction box.

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

10. Setup charges apply. Consult factory for details.

11. Consult European specification sheet and installation instructions for CE wiring information.