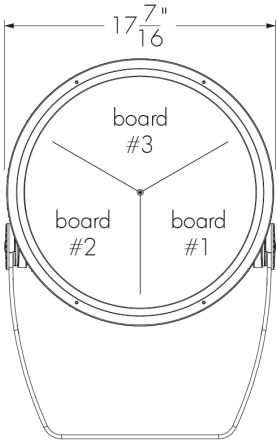


Project Name

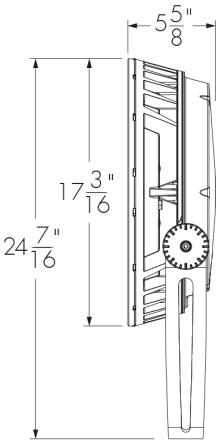
Qty

Type

Catalog / Part Number



Front view



Side view

Photometric Summary (Discrete HO RGBW40K)

Symmetric		
	Delivered output (lm)	Intensity (peak cd)
XN (3°)	9,712	948,870
VN (6°)	10,507	610,676
NS (10°)	10,567	363,527
NF (20°)	9,418	78,396
M (30°)	8,932	40,371
FL (40°)	8,558	22,744
WFL (60°)	8,609	8,936
Asymmetric		
NAS	7,745	114,798 (@2.5°)
WW	8,583	39,444 (@5°)

1. Based on HO 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+ RO MRGBWP)

Symmetric		
	Delivered output (lm)	Intensity (peak cd)
NS (10°)	8,093	133,173
NF (20°)	6,998	44,359
M (30°)	6,896	25,055
FL (40°)	7,087	18,982
WFL (60°)	6,736	6,795
VWFL(90°)	6,307	3,212

1. Based on RO 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 XLarge Color Changing is an IP66-rated luminaire for lighting landscapes, trees, columns, monuments, and architectural details. The system offers numerous options including two outputs (RO and HO), 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

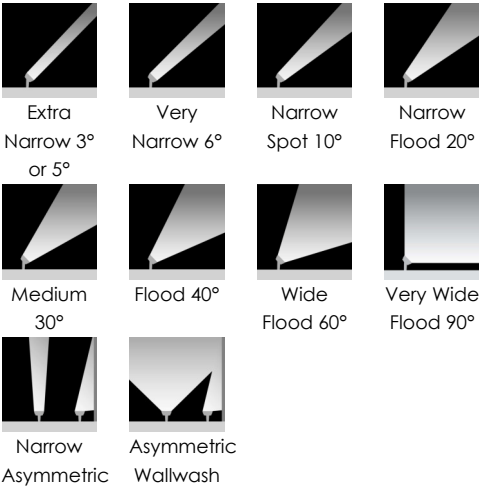
Colors and Color Temperature (Discrete)	RGBA: Discrete Red, Green Blue, Amber
	RGBW30K: Discrete Red, Green, Blue, White 30K
	RGBW40K: Discrete Red, Green, Blue, White 40K
Colors and Color Temperature (Opticolor™)	RGB: Discrete Red, Green, Blue
	MRGBA: Opticolor™ Mix-at-Source Red, Green, Blue, PC Amber
	MRGBWP: Opticolor+® Mix-at-Source Red, Green, Blue Plus White Settable Range 24K to 65K
Colors and Color Temperature (Opticolor+®)	MRGBWP Typical Color Rendering: 2700K-5000K: 90+ CRI 2500K-6500K: 80+ CRI
	MRGROYWP: Opticolor+® Mix-at-Source Red, Green, Royal Blue Plus White Settable Range 24K to 65K
Optics (Nominal Distribution)	XN: XN (3° or 5°)
	VN: VN (6°)
	NS: NS (10°)
	NF: NF (20°)
	M: M (30°)
	FL: FL (40°)
	WFL: WFL (60°)
	VWFL: VWFL (90°)
	NAS: NAS (Narrow Asymmetric)
	WW: WW (Asymmetric Wallwash)

Photometric Summary (Opticolor RO MRGBA)

Symmetric		
	Delivered output (lm)	Intensity (peak cd)
NS (10°)	7,745	127,447
NF (20°)	6,697	42,451
M (30°)	6,599	23,978
FL (40°)	6,782	18,166
WFL (60°)	6,447	6,503
VWFL(90°)	6,035	3,074

1. Based on RO 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



Optical Option	LSLH: Linear Spread Lens Horizontal Distribution LSLV: Linear Spread Lens Vertical Distribution
Option	SY: Short Yoke SRY: Short Rotational Yoke RY: Rotational Yoke 3GV: 3G ANSI C136.31-2010 Vibration Rating for Bridge Applications CRC: Corrosion-Resistant Coating for Hostile Environments
Cable Color	BK: Black WH: White
Power Consumption	140 W (RO RGB, RO RGBW30K and RGBW40K versions) 145 W (RO MRGBA, RO MRGBWP and RO MRGROYWP versions) 205 W (HO RGB, HO RGBW30K, HO RGBW40K and HO RGBA versions)
Warranty	5-year limited warranty
Performance	
Maximum Delivered Output (Discrete)	7,765 lm (RO RGB full output, XN 5°, DMX/RDM) 7,424 lm (RO RGBW30K full output, XN 3°, DMX/RDM) 7,575 lm (RO RGBW40K full output, XN 3°, DMX/RDM) 6,189 lm (RO RGBA full output, NS XN 3°, DMX/RDM) 9,955 lm (HO RGB full output, XN 5°, DMX/RDM) 10,355 lm (HO RGBW30K full output, NS 10°, DMX/RDM) 10,567 lm (HO RGBW40K full output, NS 10°, DMX/RDM) 8,633 lm (HO RGBA full output, NS 10°, DMX/RDM)
Maximum Delivered Output (Opticolor)	7,745 lm (RO MRGBA full output, NS 10°, DMX/RDM)
Maximum Delivered Output (Opticolor+)	8,093 lm (RO MRGBWP full output, NS 10°, DMX/RDM)
Maximum Delivered Intensity (Discrete)	460,073 cd at nadir (RO RGB full output, XN 5°, DMX/RDM) 725,316 cd at nadir (RO RGBW30K full output, XN 3°, DMX/RDM) 740,119 cd at nadir (RO RGBW40K full output, XN 3°, DMX/RDM) 604,677 cd at nadir (RO RGBA full output, XN 3°, DMX/RDM) 589,837 cd at nadir (HO RGB full output, XN 5°, DMX/RDM) 929,893 cd at nadir (HO RGBW30K full output, XN 3°, DMX/RDM) 948,870 cd at nadir (HO RGBW40K full output, XN 3°, DMX/RDM) 775,227 cd at nadir (HO RGBA full output, XN 3°, DMX/RDM)
Maximum Delivered Intensity (Opticolor)	127,447 cd at nadir (RO MRGBA full output, NS 10°, DMX/RDM)
Maximum Delivered Intensity (Opticolor+)	133,173 cd at nadir (RO MRGBWP full output, NS 10°, DMX/RDM)

Color and Color Temperature



opticolor+®

Opticolor+®
Mix-at-Source
Red, Green,
Blue Plus White
Settable
Range 24K to
65K



opticolor™

Opticolor™
Mix-at-Source
Red, Green,
Blue, PC
Amber



R4BA
Red Green Blue Amber

Discrete Red,
Green Blue,
Amber



R3BW
Red Green Blue White
30K

Discrete Red,
Green, Blue,
White 30K



R3BW
Red Green Blue White
40K

Discrete Red,
Green, Blue,
White 40K



R3B
Red Green Blue

Discrete Red,
Green, Blue



opticolor+®

Opticolor+®
Mix-at-Source
Red, Green,
Royal Blue Plus
White Settable
Range 24K to
65K

Control



DMX/RDM



Ratings

IP66 IK09

Lumencycle™ Program



Certifications





Illuminance at Distance (Discrete)

Minimum 1 fc at 681 ft (RO RGB full output, XN 5°, DMX/RDM)
Minimum 1 fc at 855 ft (RO RGBW30K full output, XN 3°, DMX/RDM)
Minimum 1 fc at 864 ft (RO RGBW40K full output, XN 3°, DMX/RDM)
Minimum 1 fc at 781 ft (RO R4BA full output, XN 3°, DMX/RDM)
Minimum 1 fc at 771 ft (HO RGB full output, XN 5°, DMX/RDM)
Minimum 1 fc at 968 ft (HO RGBW30K full output, XN 3°, DMX/RDM)
Minimum 1 fc at 978 ft (HO RGBW40K full output, XN 3°, DMX/RDM)
Minimum 1 fc at 884 ft (HO R4BA full output, XN 3°, DMX/RDM)

Illuminance at Distance (Opticolor)

Minimum 1 fc at 357 ft (RO MR4BA full output, NS 10°, DMX/RDM)

Illuminance at Distance (Opticolor+)

Minimum 1 fc at 365 ft (RO MRGBWP full output, NS 10°, DMX/RDM)

Lumen Maintenance

L70 (15K) > 90,000 hrs Ta 25 °C (TM-21 reported)
L70 > 150,000 hrs Ta 25 °C (projected)*
L90 (15K) = 55,400 hrs Ta 25 °C (TM-21 reported)
L90 = 55,400 hrs Ta 25 °C (projected)*
*Estimated based on in-situ case temperature and LM-80 report

Physical

Housing Material	Low copper content high pressure die-cast aluminum
Yoke Material	Steel (standard yoke included)
Lens Material	Clear tempered glass
Dome Lens Material	Acrylic
Hardware Material	Stainless steel
Gasket Material	Silicone
Surface Finish	Electrostatically applied polyester powder coat
Weight	38 lbs
EPA	Front = 1.93 ft², Side = 0.45 ft²

Electrical and Control

Voltage	100 to 277 volts
Fixture Cable	Power and data in one cable
Conductors	3C #16-3 (LT control) 6C #14-3/ #24-3 (DMX/RDM control) 5C #16-5 (DALIT8 control)
Control	Lumentalk, DMX/RDM Enabled, DALI 2 T8 Enabled Dimming 0.1%

Resolution (DMX/RDM)	Per board or fixture (configured with LumenID V3 software), 8-bit or 16-bit, 3 channels (RGB) or 4 channels (RGBW30K, RGBW40K, RGBA, MRGBA, MRGBWP and MRGROYWP)
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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 Wet location rated
Impact Resistance Rating	IK09
Application Wind Speed	Luminaires were designed based on AASHTO 2018 (50 ft, 150 mph) 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. Consult factory for zones with higher wind speeds or higher mounting heights. See Optical Accessories section for exception.

Accessories (Order Separately)

Optical Accessories	Lumenbeam LBX Snoot, Lumenbeam LBX Snoot Wide, Lumenbeam LBX Visor, Lumenbeam LBX Linear Spread Lens Adjustable, Lumenbeam LBX Wire Guard, Lumenbeam LBX Dome Lens
Control Boxes	DMX/RDM enabled (Daisy Chain or Star Configuration), Ethernet enabled (Daisy Chain or Star Configuration)
Control Systems	Pharos® Designer Lighting Control Kit (PHAROS), Pharos® Express Control Kit (EXPERT)
Diagnostic and Addressing Tools	LumenID (LID)

Operation and Maintenance

Lumencycle™ Program	Lumencycle-enabled fixtures are designed for serviceability and circular lifecycle management. Lumenpulse will provide factory refurbishment programs, allowing luminaires to be restored and redeployed rather than replaced.
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Important

Virtual Patent Marking Notice

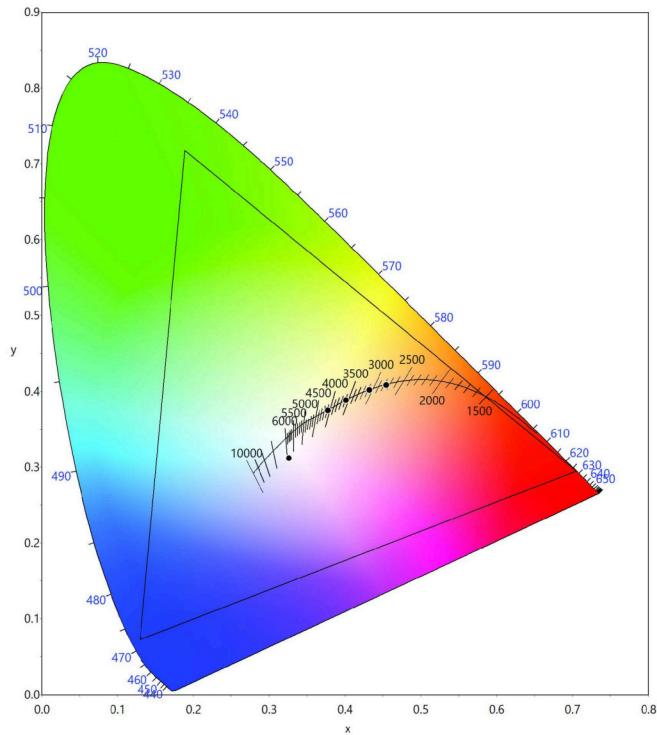
This website (<https://www.lmpg.com/patents-trademarks>) is provided to satisfy the virtual patent marking provisions of applicable jurisdictions. Some products listed may be covered by additional patents not referenced here.

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>.

Color Point Information

MRGBWP



Dominant Wavelength and Chromaticity

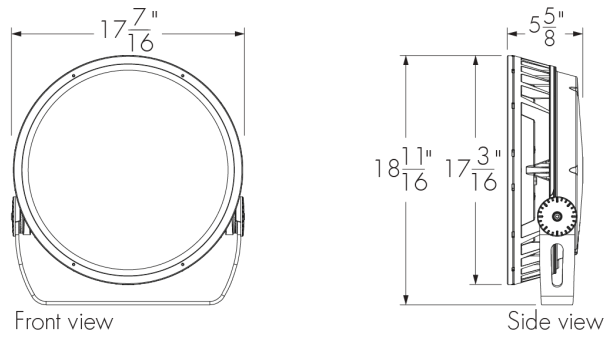
	Dominant Wavelength	Chromaticity	
		Cx	Cy
Red	~628nm	0.7050	0.2949
Green	~531nm	0.1885	0.7178
Blue	~471nm	0.1298	0.0726
Amber	~591nm	0.5755	0.4126

	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

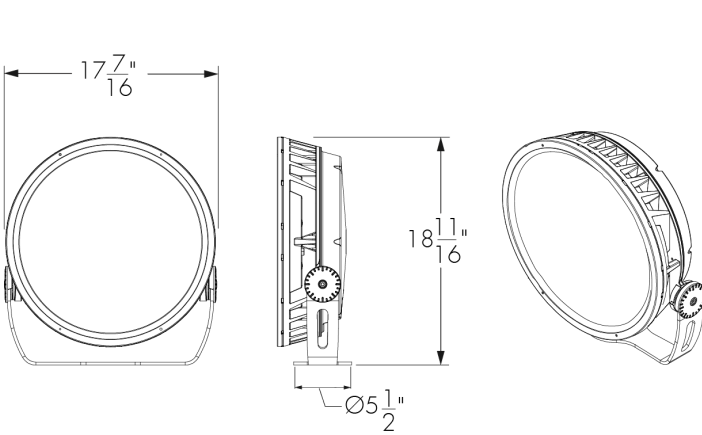
Values measured from Steady State Full on Optidrive @ 25°C ambient conditions.

Mounting Options

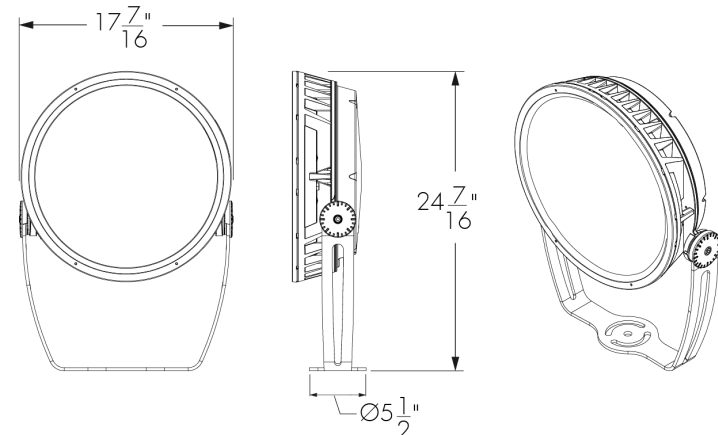
SY - Short Yoke



SRY - Short Rotational Yoke



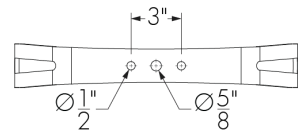
RY - Rotational Yoke



The combination of Short Rotational Yoke or Rotational Yoke and Snoot Wide can be installed in zones with wind speeds up to 120 mph (50 ft). Consult factory for zones with wind speeds higher than 120 mph or different mounting heights.

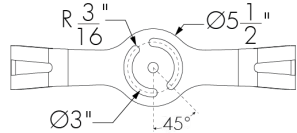
Mounting Details

Mounting Hole Pattern - Standard And Short Yoke



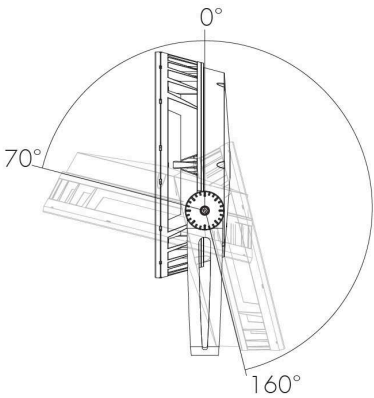
3 bolts are required for wind and vibration resistance, provided by others.

Mounting Hole Pattern - Rotational Yoke

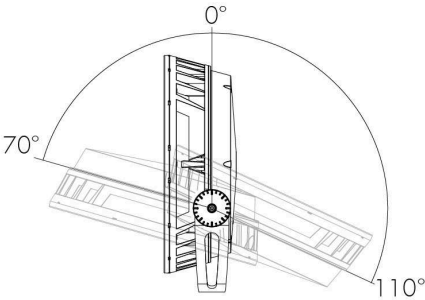


3 bolts are required for wind and vibration resistance, provided by others.

Adjustable Pivot Limits (Adjustable In 6 Degree Increments)



Standard Yoke



Short Yoke

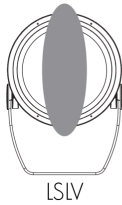
Optical Options – Discrete

LSLH - Linear Spread Lens Horizontal Distribution



LSLH - Linear spread lens horizontal distribution

LSLV - Linear Spread Lens Vertical Distribution



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).

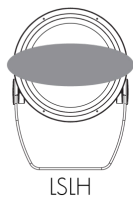
Beam Angles

Optic installed in fixture	Beam angle with LSLH/LSLV
XN	5° x 60°
VN	8° x 50°
NS	9° x 56°
NF	17° x 57°
M	27° x 68°
FL	37° x 74°

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

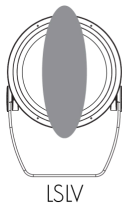
Optical Options - Opticolor™ and Opticolor+

LSLH - Linear Spread Lens Horizontal Distribution



LSLH - Linear spread lens horizontal distribution

LSLV - Linear Spread Lens Vertical Distribution



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).

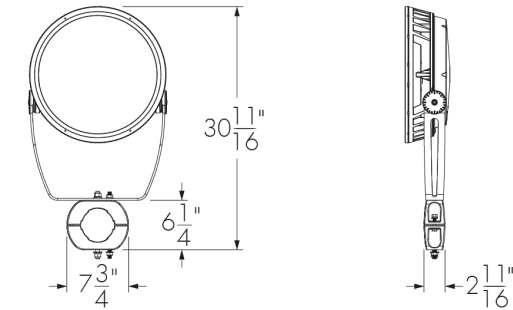
Beam Angles

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°

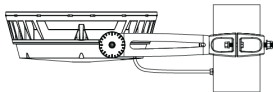
LLF: 0.88*
*LLF may vary slightly by distribution chosen.

Mounting Accessories (Order Separately)

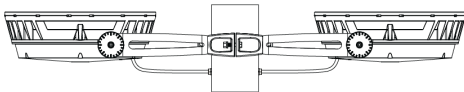
Round Pole Mounting Accessory



PM4 model shown.
Consult factory for square pole section.



PM4-1, PM4.5-1, PM5-1 - Round pole mounting
accessory - single fixture

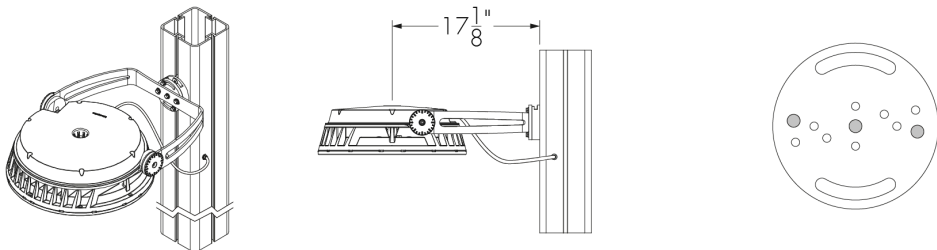


PM4-2, PM4.5-2, PM5-2 - Round pole mounting
accessory - twin fixtures
*One bracket assembly is supplied per 2 fixtures
unless otherwise specified.

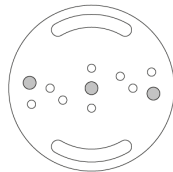
	PM4	PM4.5	PM5
For pole Ø	4" ± 1/16	4.5" ± 1/16	5" ± 1/16

Consult factory for other pole diameters.

PLTU - Universal Yoke

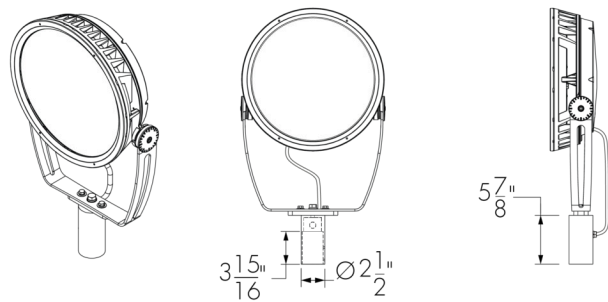


Refer to the Universal Yoke specification sheet and Pole installation instructions
for more details. Square Lumentech profile shown.

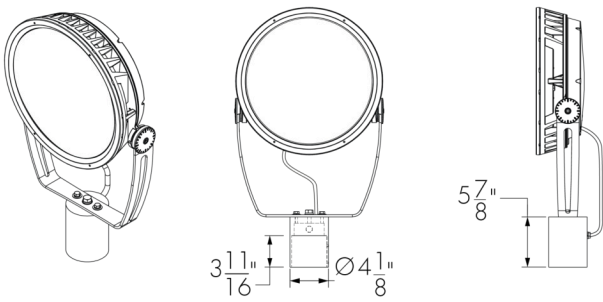


The mounting holes used for this fixture are shown in gray.

Tenon Adapter



TN2 - Tenon adapter to fit on 2 3/8 in O.D. tenon
Vertical mounting only. Consult factory for horizontal mounting.

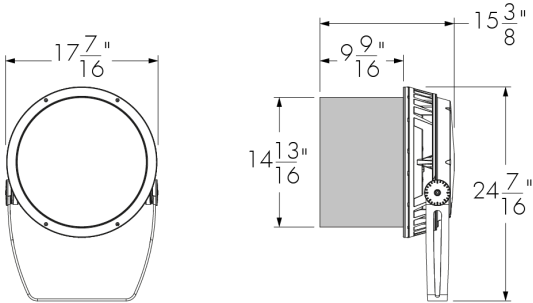


TN4 - Tenon adapter to fit on 4 in O.D. tenon
Vertical mounting only. Consult factory for horizontal mounting.

Optical Accessories (Order Separately)

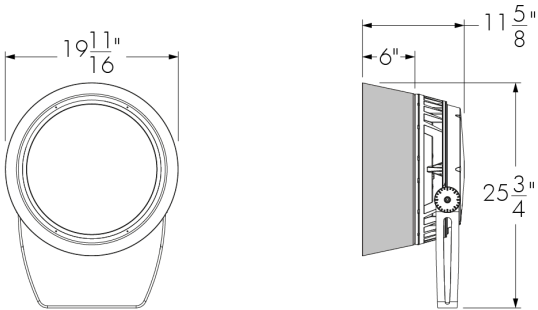
Installed optical accessories will affect the maximum pivot limits for each mounting option, consult factory for details.

SN - Snoot



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

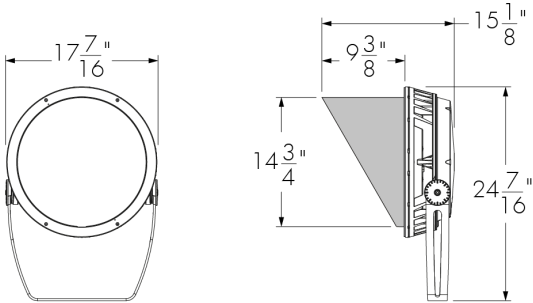
SNW - Snoot Wide



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

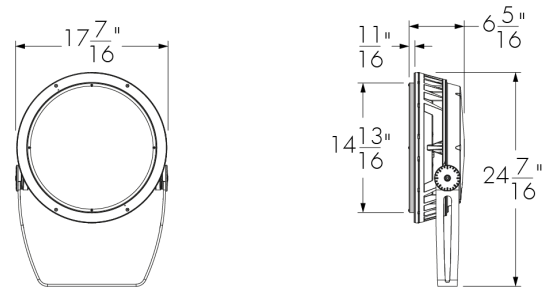
The combination of Short Rotational Yoke or Rotational Yoke and Snoot Wide can be installed in zones with wind speeds up to 120 mph (50 ft). Consult factory for zones with wind speeds higher than 120 mph or different mounting heights.

VS - Visor



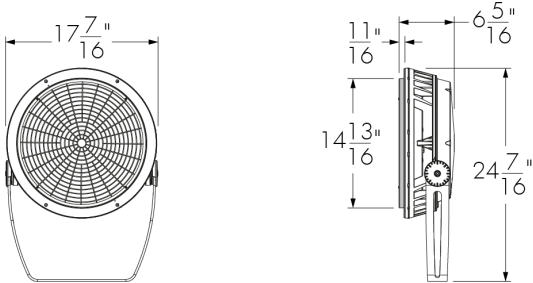
LBXVS-FINISH-BK-OPTIONS (CRC)
Interior surface painted black. Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

LSLA - Linear Spread Lens Adjustable



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

WG - Wire Guard



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

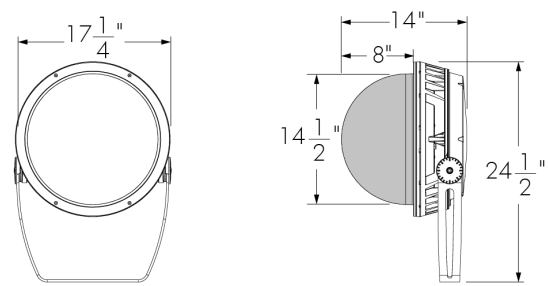
Accessory Combinations

	+	Snoot	Snoot wide	Visor
Linear spread lens adjustable		LBXSNLSLA	N/A *	LBXVLSLA
Wire guard		LBXSNWG	N/A	LBXVSWG

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

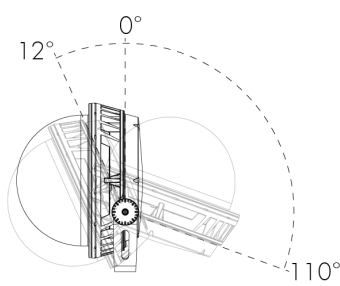
Installed optical accessories will affect the maximum pivot limits for each mounting option, consult factory for details.

DM - Dome Lens

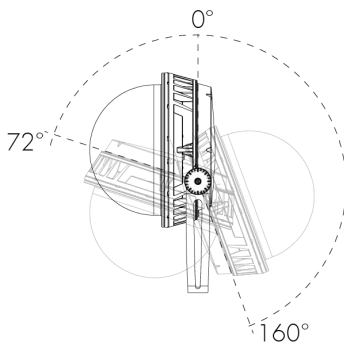


LBXDM-FINISH-OPTIONS (CRC)
Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

Dome - Short Yoke - Pivot limits

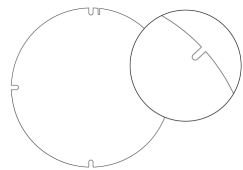
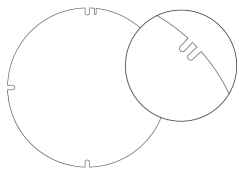
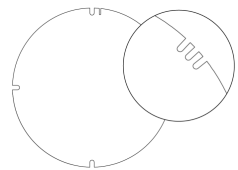
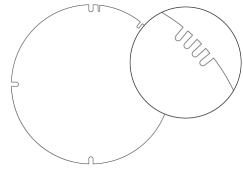
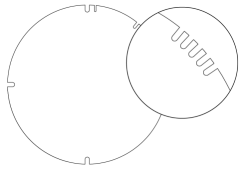
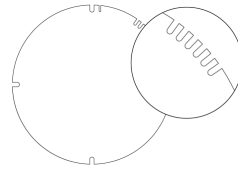


Dome - Standard Yoke - Pivot limits



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.

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

Diffuser Lens 1 (1 Notch)	Diffuser Lens 2 (2 Notches)	Diffuser Lens 3 (3 Notches)
		
147689	147690	147691
Diffuser Lens 4 (4 Notches)	Diffuser Lens 5 (5 Notches)	Diffuser Lens 6 (6 Notches)
		
147692	147693	147694

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°)						

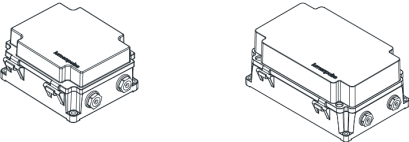
Choose a diffuser lens based on the desired final beam distribution. Refer to the 6-digit part numbers above to order diffuser lenses individually. To order a complete set of 6 diffuser lenses in a bag, refer to the following item names: **LBS**: LBALK-S **LBM/LBMP**: LBALK-M **LBL/LBLP**: LBALK-L **LBG/LBGP**: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

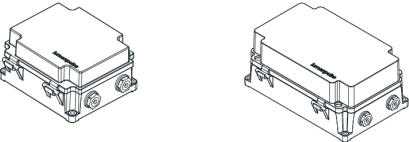
Control Boxes (Order Separately)

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.

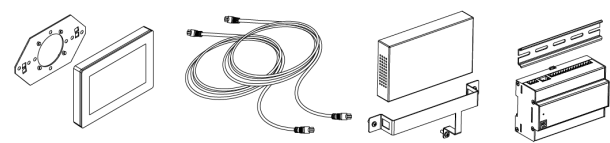
CBX-ENET - Ethernet Enabled (Daisy Chain or Star Configuration)



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.

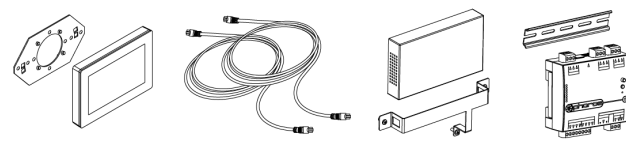
Control Systems (Order Separately)

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® Express 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.

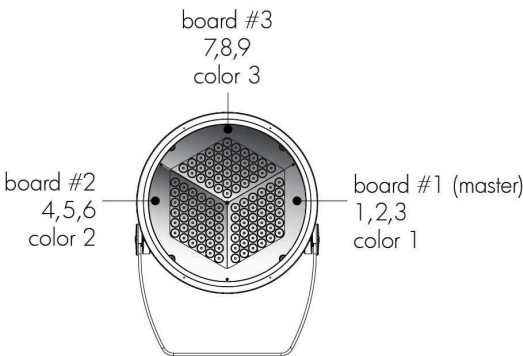
EPA Guide

	LBX 	LBX with Snoot 	LBX with Visor 	LBX with Snoot Wide 	LBX with Dome Lens 
EPA front (sq ft)	1.925	1.925	1.925	2.994	1.925
EPA side (sq ft)	0.448	1.183	1.183	1.026	0.738

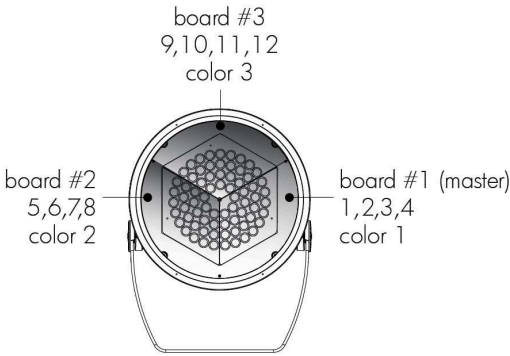
Resolution Details (Discrete)

Resolution Per Board: Each Board is Addressed Independently

DMX Addresses:



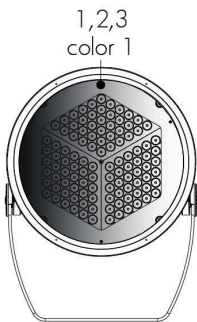
RGB color mixing option



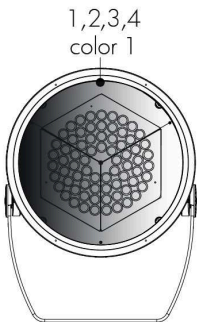
RGBW30K, RGBW40K and RGBA color mixing options

Resolution Per Fixture: Each Fixture Is Addressed Independently

DMX Addresses:



RGB color mixing option

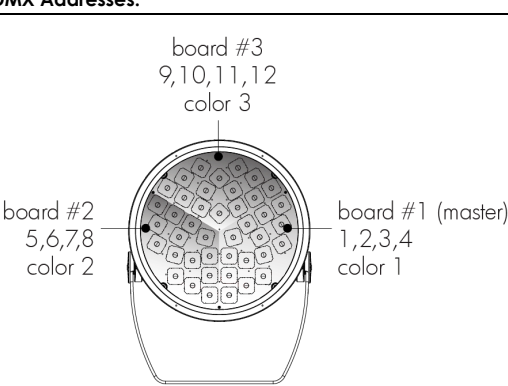


RGBW30K, RGBW40K and RGBA color mixing options

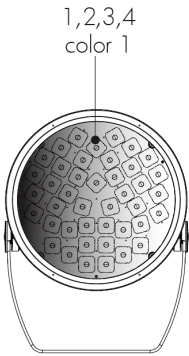
Fixture resolution can be configured on-site within the LumenID V3 software.

Resolution Details (Opticolor and Opticolor+)

Resolution Per Board: Each Board is Addressed Independently
DMX Addresses:



MRGBA, MRGBWP and MRGROYWP color mixing options



MRGBA, MRGBWP and MRGROYWP color mixing options

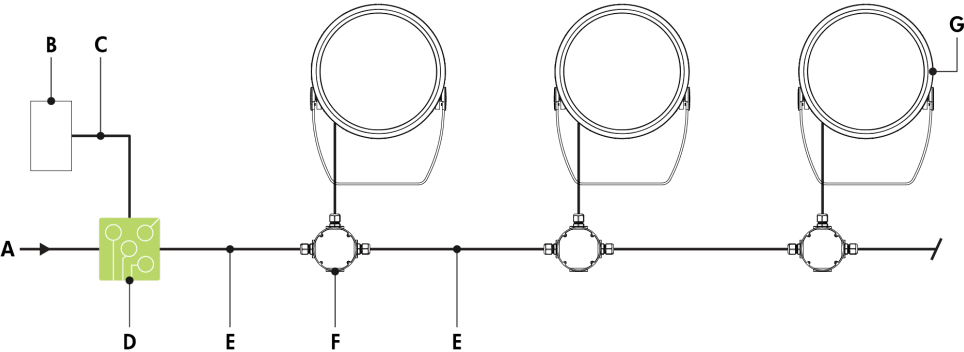
Fixture resolution can be configured on-site within the LumenID V3 software.

Typical Wiring Diagrams

Wiring Color Code

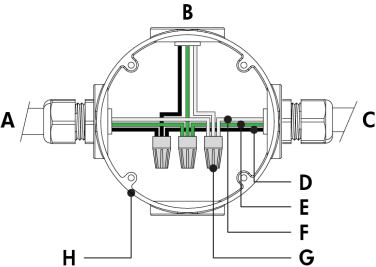
UL Color Code	USE
Green	Ground
Black	Line
White	Line/Neutral
Red or Purple	0-10V / Data +
Orange	0-10V / Data -
Gray	Signal common (DMX/RDM only)

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 - Junction box (by others)
- G - Lumenbeam LBX

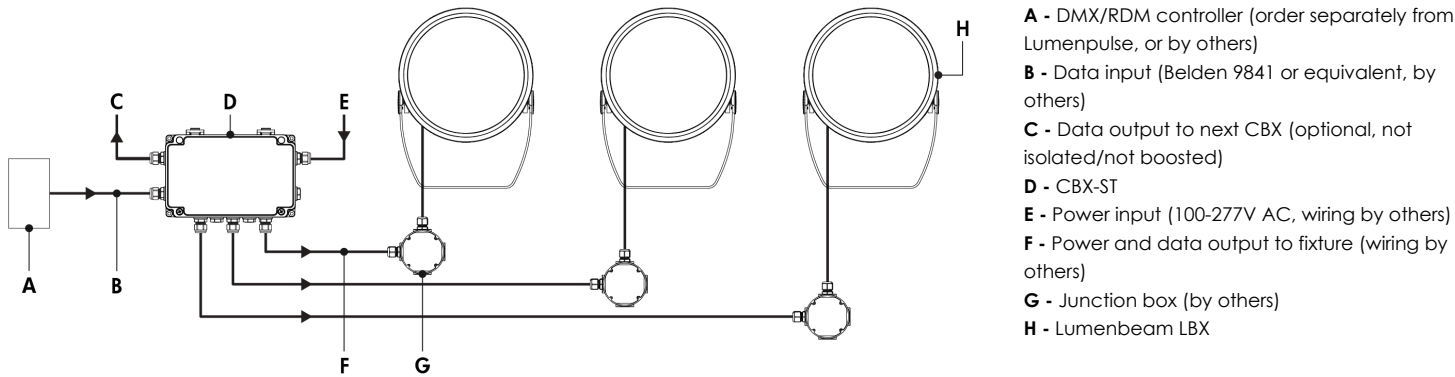
Lumentalk (LT) - Wiring Detail



- 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.
- Regular Output version: 140 W per fixture (RO RGB, RO RGBW30K and RGBW40K), 145 W per fixture (RO MRGBA, RO MRGBWP and RO MRGROYWP).
- High Output version: 205 watts per fixture (HO RGB, HO RGBW30K, HO RGBW40K and HO RGBA).

Star Layout (DMX/RDM)



Star Layout (DMX/RDM) - Wiring Detail



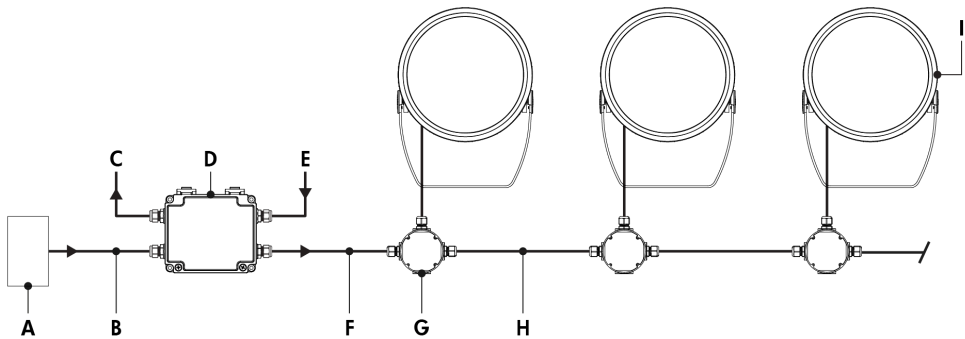
Maximum Fixture Count Per Run

Configuration/Voltage	120V	208V	240V	277V
LBX RO	8	12	14	16
LBX HO	5	9	10	11

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

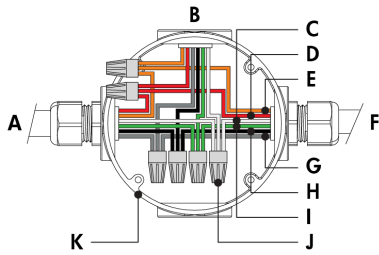
- Consult CBX installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run.
- Maximum of 4 DMX/RDM repeaters/CBX cascading in line.
- Maximum of 6 outputs per CBX-ST.
- RGB color mixture option requires 3 DMX addresses. RGBW30K and RGBW40K, RGBA, MRGBA, MRGBWP and MRGROYWP 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.
- Regular Output version: 140 W per fixture (RO RGB, RO RGBW30K and RGBW40K), 145 W per fixture (RO MRGBA, RO MRGBWP and RO MRGROYWP).
- High Output version: 205 watts per fixture (HO RGB, HO RGBW30K, HO RGBW40K and HO RGBA).

Daisy Chain Layout (DMX/RDM)



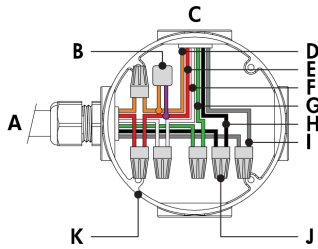
- A - DMX/RDM controller (order separately from Lumenpulse, or by others)
- B - Data input (Belden 9841 or equivalent, by others)
- C - Data output to next CBX (optional, not isolated/not boosted)
- D - CBX-DS
- E - Power input (100-277V AC, wiring by others)
- F - Power and data output to fixture (wiring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

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)

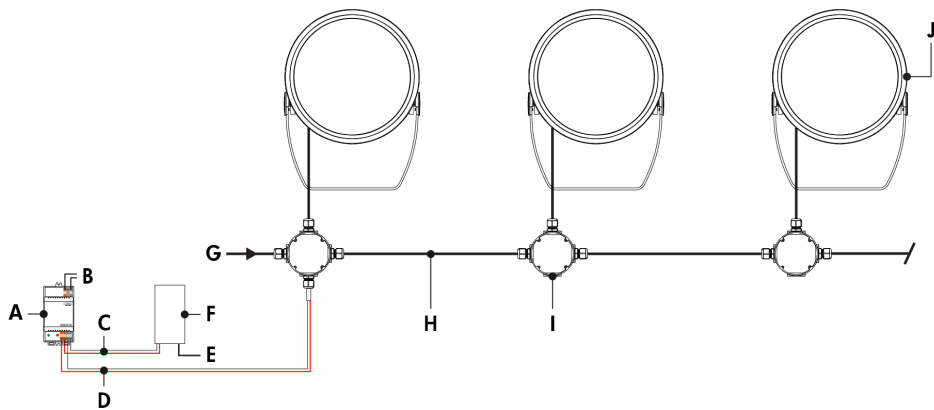
Maximum Fixture Count Per Run

Configuration/Voltage	120V	208V	240V	277V
LBX RO	8	12	14	16
LBX HO	5	9	10	11

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

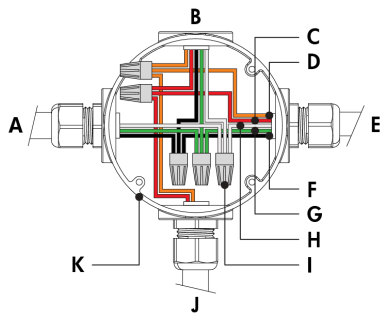
- Consult CBX installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run.
- Maximum of 4 DMX/RDM repeaters/CBX cascading 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 option requires 3 DMX addresses. RGBW30K and RGBW40K, RGBA, MRGBA, MRGBWP and MRGROYWP 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.
- Regular Output version: 140 W per fixture (RO RGB, RO RGBW30K and RGBW40K), 145 W per fixture (RO MRGBA, RO MRGBWP and RO MRGROYWP).
- High Output version: 205 watts per fixture (HO RGB, HO RGBW30K, HO RGBW40K and HO RGBA).

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 LBX

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.
- Regular Output version: 140 W per fixture (RO RGB, RO RGBW30K and RGBW40K), 145 W per fixture (RO MRGBA, RO MRGBWP and RO MRGROYWP).
- High Output version: 205 watts per fixture (HO RGB, HO RGBW30K, HO RGBW40K and HO RGBWA).

How to Order

Housing	Voltage	Color and Color Temperature ⁽²⁾	Optic1	Optic2	Optic3	Optical Option ^{(19) (21)}	Finish	Control	Option
LBX RO Lumenbeam™ XLarge, Regular Output, 140-145W	100 100 Volts	MRGBWP Opticolor+® Mix-at-Source Red, Green, Blue Plus White Settable Range 24K to 65K ^{(3) (4) (5) (6) (7)}	XN Extra Narrow 3° or 5° ^{(1) (12) (13)}	XN Extra Narrow 3° or 5° ^{(1) (12) (13)}	XN Extra Narrow 3° or 5° ^{(1) (12) (13)}	LSLH Linear Spread Lens Horizontal Distribution ⁽²⁰⁾	BK Black Sandtex®	LT Lumentalk ^{(25) (26)}	SY Short Yoke
LBX HO Lumenbeam™ XLarge, High Output, 205W ⁽¹⁾	120 120 Volts		VN Very Narrow 6° ^{(1) (15)}	VN Very Narrow 6° ^{(1) (15)}	VN Very Narrow 6° ^{(1) (15)}	LSLV Linear Spread Lens Vertical Distribution ⁽²⁰⁾	BRZ Bronze Sandtex®	DMX/RDM DMX/RDM Enabled Dimming ^{(27) (28)}	SRY Short Rotational Yoke
	208 208 Volts		NS Narrow Spot 10° ⁽¹³⁾	NS Narrow Spot 10° ⁽¹³⁾	NS Narrow Spot 10° ⁽¹³⁾		SI Silver Sandtex®	DALIT8 DALI 2 T8 Enabled Dimming 0.1% ^{(7) (29)}	RY Rotational Yoke
	220 220 Volts	MRGBA Opticolor™ Mix-at-Source Red, Green, Blue, PC Amber ^{(8) (9)}	NF Narrow Flood 20° ⁽¹³⁾	NF Narrow Flood 20° ⁽¹³⁾	NF Narrow Flood 20° ⁽¹³⁾		WH Smooth White		3GV 3G ANSI C136.31-2010 Vibration Rating for Bridge Applications
	240 240 Volts	RGBA Discrete Red, Green Blue, Amber	M Medium 30° ^{(13) (14)}	M Medium 30° ^{(13) (14)}	M Medium 30° ^{(13) (14)}		BKTX Textured Black		CRC Corrosion-Resistant Coating ^{(30) (31)}
	277 277 Volts	RGBW30K Discrete Red, Green, Blue, White 30K ⁽⁹⁾	FL Flood 40° ⁽¹³⁾	FL Flood 40° ⁽¹³⁾	FL Flood 40° ⁽¹³⁾		BRZTX Textured Bronze Non-Metallic		
		RGBW40K Discrete Red, Green, Blue, White 40K ⁽⁹⁾	WFL Wide Flood 60° ^{(13) (15) (16)}	WFL Wide Flood 60° ^{(13) (15) (16)}	WFL Wide Flood 60° ^{(13) (15) (16)}		GRATX Textured Medium Gray		
		RGBW40K Discrete Red, Green, Blue, White 40K ⁽⁹⁾	VWFL Very Wide Flood 90° ^{(13) (15) (17) (18)}	VWFL Very Wide Flood 90° ^{(13) (15) (17) (18)}	VWFL Very Wide Flood 90° ^{(13) (15) (17) (18)}		GRNTX Textured Green		
		RGB Discrete Red, Green, Blue	NAS Narrow Asymmetric ⁽¹³⁾	NAS Narrow Asymmetric ⁽¹³⁾	NAS Narrow Asymmetric ⁽¹³⁾		WHTX Textured White		
		MRGROYWP Opticolor+® Mix-at-Source Red, Green, Royal Blue Plus White Settable Range 24K to 65K ^{(3) (4) (5) (6) (7) (10) (11)}	WW Asymmetric Wallwash ^{(1) (13)}	WW Asymmetric Wallwash ^{(1) (13)}	WW Asymmetric Wallwash ^{(1) (13)}		CC Custom Color & Finish ^{(22) (23) (24)}		

Notes:

1. Not available with MRGBA, MRGBWP and MRGROYWP color temperature options.
2. White Channel Set Point or Warm Dimming Range is adjustable at commissioning. Consult Opticolor® Personality Guide for details.
3. Not available with XN, VN, NAS and WW optics.
4. Consult factory for the availability of more color and CCT options.
5. MRGBWP and MRGROYWP can be configured to MRGB via RDM, consult factory for more details.
6. 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, LumenID software and onsite commissioning. Additionally, with Opticolor™ the white CCT is configurable in the field from 2200K-8000K.
7. Consult factory for DALI T8 applications with MRGBWP or MRGROYWP and a CCT other than 3000K.
8. Not available for VN, NAS and WW optics.
9. Consult factory for availability of other color options such as Royal Blue.
10. Consult factory for photometric performance.
11. Longer lead time of 10-12 weeks.
12. Nominal distribution is 3° for RGBW30K, RGBW40K and RGBA color options, and 5° for RGB.
13. Factory installed, not interchangeable on site.
14. Cannot be combined with other optics when RGB, RGBW30K, RGBW40K and RGBA color temperatures are specified.
15. Cannot be combined with other optics.
16. A dome lens accessory is available, order separately. For compatibility, a WFL optic must be specified for the fixture.
17. Not available for LBX HO.
18. Available with MRGBA, MRGBWP and MRGROYWP color temperature options only.
19. Optical options are factory installed and cannot be changed in the field.
20. Field adjustable spread lens optical accessory available, order separately.
21. Not available with WFL, VWFL, NAS and WW optics.
22. 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.
23. Setup charges apply for RAL colors. Consult factory for details.
24. Longer lead times can be expected for custom RAL color finishes.
25. A Lumentranslator 2 (LT2) and LumenID (LID) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.
26. Not available with Class II double insulated option.
27. A control box (CBX) and LumenID (LID) must be specified.
28. Maximum of 3 ft cable length for daisy chain DMX applications with CBX-DS.
29. DALI 2 T8 controller required, provided by others. DALI 2 T8 control uses a single DALI short address.
30. Use only when exposed to salt spray. This option is not required for normal outdoor exposure.
31. Setup charges apply. Consult factory for details.

How to Order

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Certification	Cable Length (28) (33)	Cable Color	Buy America.n Act
UL UL Compliant	3FT 3 ft (28) (33)	BK Black	BAA Buy America.n (34)
CE CE Compliant (32)	10FT 10 ft	WH White (34)	(35)
	20FT 20 ft		
CEII CE Compliant Class II Double Insulated (32)	30FT 30 ft		
	50FT 50 ft		
	70FT 70 ft		
	100FT 100 ft		

Notes:

28. Maximum of 3 ft cable length for daisy chain DMX applications with C8X-DS.

32. Consult European specification sheets and installation instructions for CE and CE Class II wiring information.

33. 3 ft cable length is standard unless otherwise specified.
34. Not available with CE or CEII certification options.

35. Contact your Lumenpulse Sales Representative for more information on order volume details.