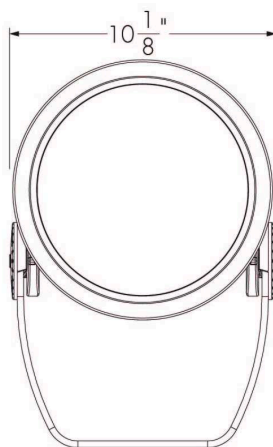
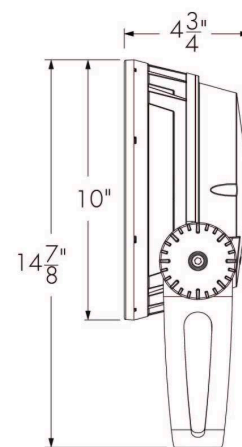


Project Name \_\_\_\_\_ Qty \_\_\_\_\_

Type \_\_\_\_\_ Catalog / Part Number \_\_\_\_\_



Front View



Side View

**Photometric Summary (Discrete RGBW40K)**

**Symmetric**

	Delivered output (lm)	Intensity (peak cd)
<b>VN (6°)</b>	2,642	137,663
<b>NS (10°)</b>	2,829	100,343
<b>NF (20°)</b>	2,795	26,212
<b>M (30°)</b>	2,555	11,552
<b>FL (40°)</b>	2,409	5,948
<b>WFL (60°)</b>	1,999	2,075
<b>Asymmetric</b>		
<b>NAS</b>	2,939	45,274 (@2.5°)
<b>WW</b>	2,434	10,817 (@5°)

1. Based on 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+ MRGBWP)**

**Symmetric**

	Delivered output (lm)	Intensity (peak cd)
<b>NS (10°)</b>	2,505	47,745
<b>NF (20°)</b>	2,370	15,378
<b>M (30°)</b>	2,322	8,565
<b>FL (40°)</b>	2,360	6,373
<b>WFL (60°)</b>	2,294	2,345
<b>VWFL (90°)</b>	2,089	1,064

1. Based on 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 Large Color Changing is an 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)**

**RGBA:** Discrete Red, Green Blue, Amber  
**RGBW30K:** Discrete Red, Green, Blue, White 30K  
**RGBW40K:** Discrete Red, Green, Blue, White 40K  
**RGB:** Discrete Red, Green, Blue

**Colors and Color Temperature (Opticolor™)**

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

**Colors and Color Temperature (Opticolor+®)**

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

**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)

**Optical Option**

**LSLH:** Linear Spread Lens Horizontal Distribution  
**LSLV:** Linear Spread Lens Vertical Distribution

**Photometric Summary (Opticolor MRGBA)**

**Symmetric**

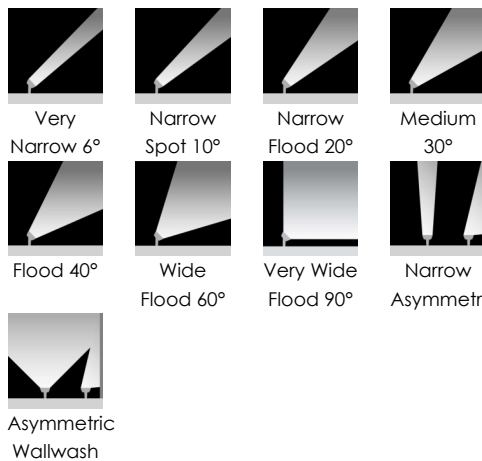
	Delivered output (lm)	Intensity (peak cd)
<b>NS (10°)</b>	2,465	46,981
<b>NF (20°)</b>	2,332	15,132
<b>M (30°)</b>	2,284	8,428
<b>FL (40°)</b>	2,322	6,271
<b>WFL (60°)</b>	2,257	2,308
<b>VWFL(90°)</b>	2,056	1,047

1. Based on 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**



<b>Option</b>	<b>SY:</b> Short Yoke <b>SRY:</b> Short Rotational Yoke <b>RY:</b> Rotational Yoke <b>3GV:</b> 3G ANSI C136.31-2010 Vibration Rating for Bridge Applications <b>CRC:</b> Corrosion-Resistant Coating for Hostile Environments
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<b>Cable Color</b>	<b>BK:</b> Black <b>WH:</b> White
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<b>Power Consumption</b>	50 W
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<b>Warranty</b>	5-year limited warranty
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**Performance**

<b>Maximum Delivered Output (Discrete)</b>	2,931 lm (RGB full output, NAS @ 2.5°, DMX/RDM) 2,880 lm (RGBW30K full output, NAS @ 2.5°, DMX/RDM) 2,939 lm (RGBW40K full output, NAS @ 2.5°, DMX/RDM) 2,401 lm (RGBA full output, NAS @ 2.5°, DMX/RDM)
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<b>Maximum Delivered Output (Opticolor)</b>	2,465 lm (MRGBA full output, NS 10°, DMX/RDM)
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<b>Maximum Delivered Output (Opticolor+)</b>	2,505 lm (MRGBWP full output, NS 10°, DMX/RDM)
--	--

<b>Maximum Delivered Intensity (Discrete)</b>	137,268 cd at nadir (RGB full output, VN 6°, DMX/RDM) 134,910 cd at nadir (RGBW30K full output, VN 6°, DMX/RDM) 137,663 cd at nadir (RGBW40K full output, VN 6°, DMX/RDM) 112,471 cd at nadir (RGBA full output, VN 6°, DMX/RDM)
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<b>Maximum Delivered Intensity (Opticolor)</b>	46,981 cd at nadir (MRGBA full output, NS 10°, DMX/RDM)
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<b>Maximum Delivered Intensity (Opticolor+)</b>	47,745 cd at nadir (MRGBWP full output, NS 10°, DMX/RDM)
---	--

<b>Illuminance at Distance (Discrete)</b>	Minimum 1 fc at 372 ft (RGB full output, VN 6°, DMX/RDM) Minimum 1 fc at 369 ft (RGBW30K full output, VN 6°, DMX/RDM) Minimum 1 fc at 373 ft (RGBW40K full output, VN 6°, DMX/RDM) Minimum 1 fc at 337 ft (RGBA full output, VN 6°, DMX/RDM)
---	---

<b>Illuminance at Distance (Opticolor)</b>	Minimum 1 fc at 217 ft (MRGBA full output, NS 10°, DMX/RDM)
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<b>Illuminance at Distance (Opticolor+)</b>	Minimum 1 fc at 219 ft (MRGBWP full output, NS 10°, DMX/RDM)
---	--

<b>Lumen Maintenance</b>	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
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**Physical**

<b>Housing Material</b>	Low copper content high pressure die-cast aluminum
<b>Yoke Material</b>	Heavy aluminum (standard yoke included)
<b>Lens Material</b>	Clear tempered glass
<b>Dome Lens Material</b>	Acrylic

**Color and Color Temperature**



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



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



Discrete Red,  
Green Blue,  
Amber



Discrete Red,  
Green, Blue,  
White 30K



Discrete Red,  
Green, Blue,  
White 40K



Discrete Red,  
Green, Blue



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

**Control**



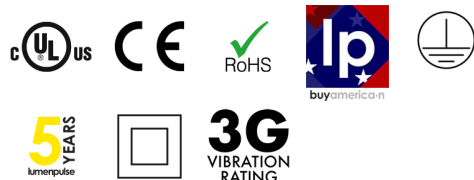
**Ratings**

IP66 IK10

**Lumecycle™ Program**



**Certifications**



<b>Hardware Material</b>	Stainless steel
<b>Gasket Material</b>	Silicone
<b>Surface Finish</b>	Electrostatically applied polyester powder coat
<b>Weight</b>	12 lbs
<b>EPA</b>	Front = 0.64 ft², Side = 0.21 ft²

**Electrical and Control**

<b>Voltage</b>	100 to 277 volts
<b>Fixture Cable</b>	Power and data in one cable
<b>Conductors</b>	3C #16-3 (LT control) 5C #16-5 (DALI8 control) 6C #14-3/ #24-3 (DMX/RDM control)
<b>Control</b>	Lumentalk, DMX/RDM Enabled, DALI 2 T8 Enabled Dimming 0.1%
<b>Resolution (DMX/RDM)</b>	Per fixture, 8-bit or 16-bit, 3 channels (RGB) or 4 channels (RGBW30K, RGBW40K, RGBA, MRGBA, MRGBWP and MRGROYWP)

**Environmental**

<b>Storage Temperature</b>	-40 °F to 158 °F (device must reach start-up temperature value before operating)
<b>Start-up Temperature</b>	-13 °F to 122 °F
<b>Operating Temperature</b>	-40 °F to 122 °F
<b>Ingress Protection Rating</b>	IP66 Wet location rated
<b>Impact Resistance Rating</b>	IK10
<b>Application Wind Speed</b>	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)**

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

### Important

#### Virtual Patent Marking Notice

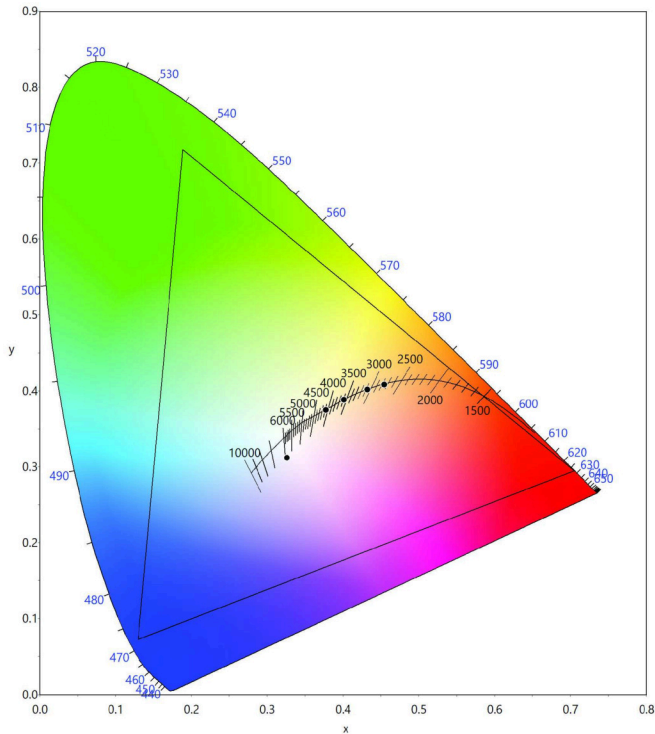
This website (<https://www.lmpg.com/patents-trademarks>) is provided to satisfy the virtual patent marking provisions of applicable jurisdictions. Some products listed may be covered by additional patents not referenced here.

### 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

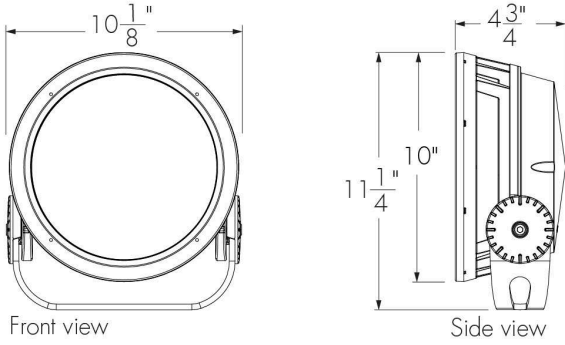
	Dominant Wavelength	Chromaticity	
		C <sub>x</sub>	C <sub>y</sub>
Red	~628nm	0.7050	0.2949
Green	~531nm	0.1885	0.7178
Blue	~471nm	0.1298	0.0726
Amber	~591nm	0.5755	0.4126

	C <sub>x</sub>	C <sub>y</sub>
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

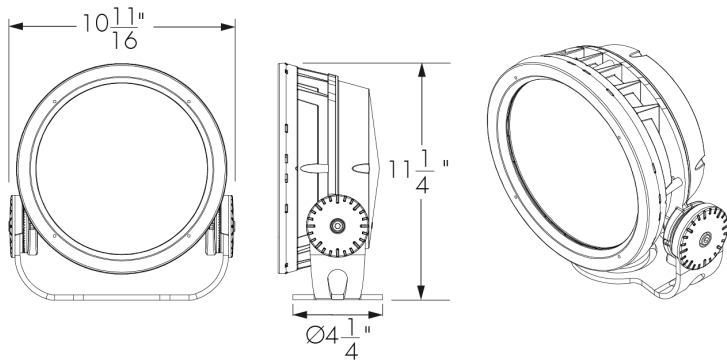
Values measured from Steady State Full on Optidrive @ 25°C ambient conditions.

**Mounting Options**

**SY - Short Yoke**

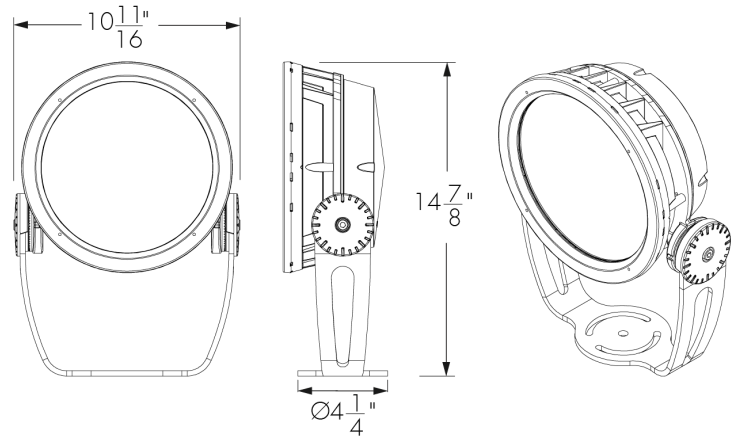


**SRY - Short Rotational Yoke**



Consult factory for use with TN2 mounting accessory.

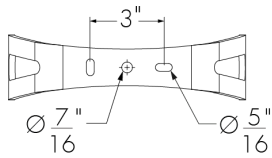
**RY - Rotational Yoke**



Consult factory for use with TN2 mounting accessory.

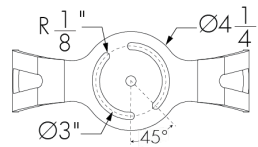
**Mounting Details**

**Mounting Hole Pattern - Standard And Short Yoke**



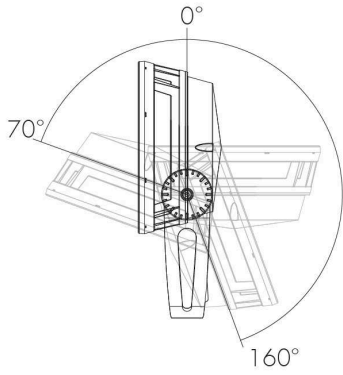
3 bolts are required for wind and vibration resistance, provided by others.

**Mounting Hole Pattern - Rotational Yoke**

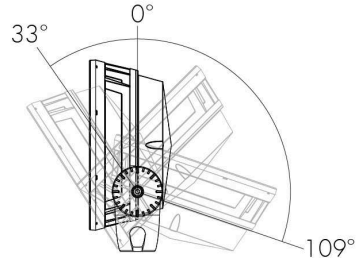


3 bolts are required for wind and vibration resistance, provided by others.

**Adjustable Pivot Limits**



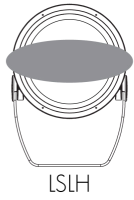
Standard yoke



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
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.

**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 VN, WFL, VWFL, NAS and WW optics.  
See 'Optical Accessories' section for field adjustable spread lens (LSLA).

**Beam Angles**

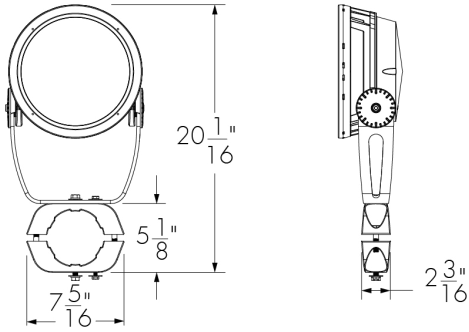
Optic installed in fixture	Beam angle with LSLH/LSLV
NS	11° x 61°
NF	19° x 66°
M	26° x 70°
FL	31° x 71°

LLF: 0.88\*

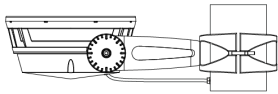
\*LLF may vary slightly by distribution chosen.

**Mounting Accessories (Order Separately)**

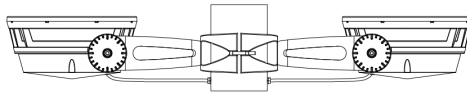
**Round Pole Mounting Accessory**



PM4 model shown. Consult factory for square pole section.



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

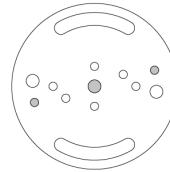
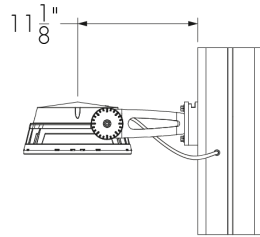
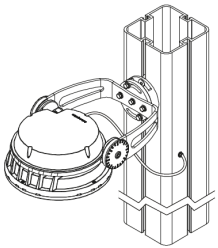


**PM4-2, PM4.5-2, PM5-2** - Round pole mounting accessory - twin fixtures  
\*One bracket assembly is supplied per 2 fixtures unless otherwise specified.

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

Consult factory for other pole diameters.

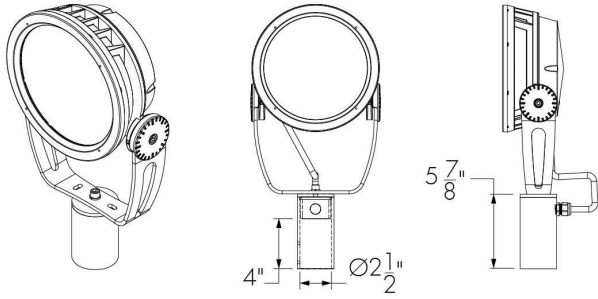
**PLTU - Universal Yoke**



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

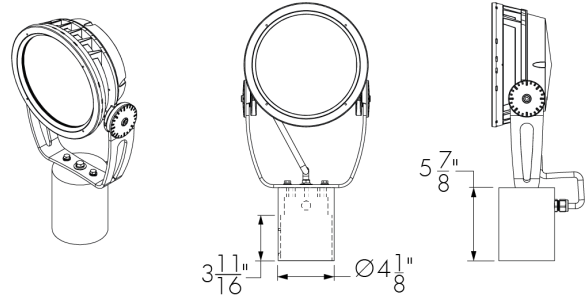
The mounting holes used for this fixture are shown in gray.

Tenon Adapter



**TN2** - Tenon adapter to fit on 2 3/8 in O.D. tenon

Vertical mounting only. Consult factory for horizontal mounting.  
Consult factory for use with RY or SRY mounting options.



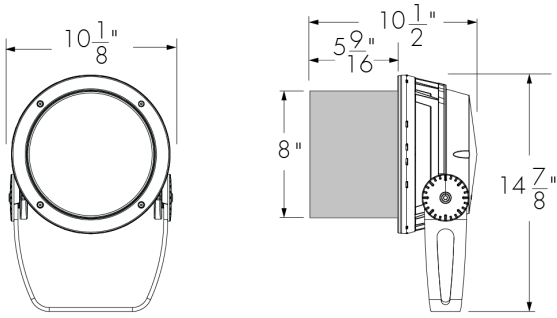
**TN4** - Tenon adapter to fit on 4 in O.D. tenon

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.

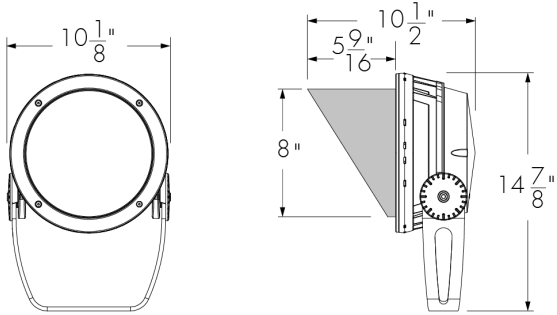
**SN - Snoot**



**LBLSN-FINISH-BK-OPTIONS (CRC)**

Interior surface painted black. Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

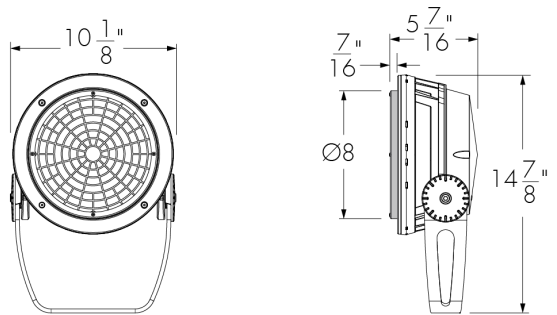
**VS - Visor**



**LBLVS-FINISH-BK-OPTIONS (CRC)**

Interior surface painted black. Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

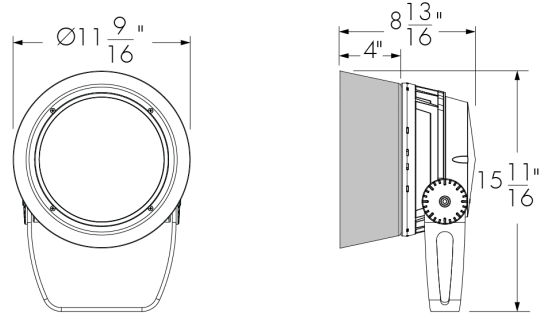
**WG - Wire Guard**



**LBLWG-FINISH-OPTIONS (CRC)**

Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

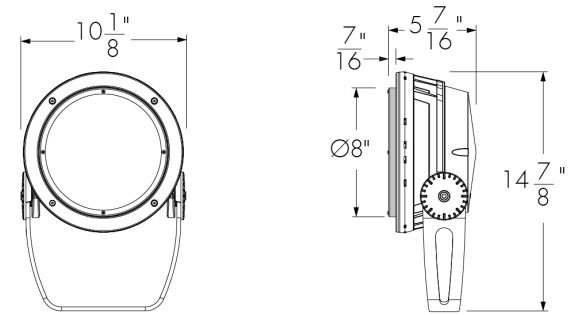
**SNW - Snoot Wide**



**LBLSNW-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**



**LBLLSLA-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		LBLSNLSLA	N/A*	LBLVLSLA
Wire guard		LBLSNWG	N/A	LBLVSWG

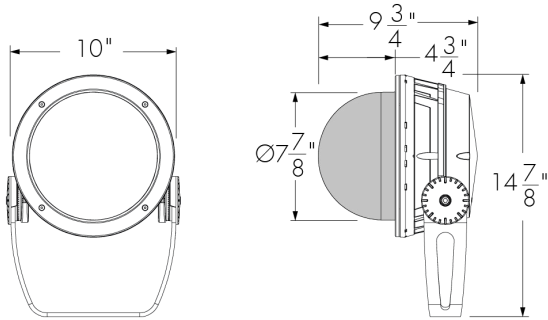
Accessory combinations must be ordered together on a single line

Ex: A snoot + wire guard combination order code is LBLSNWG-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.

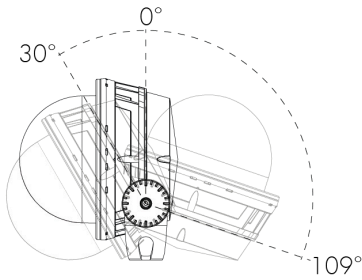
**DM - Dome Lens**



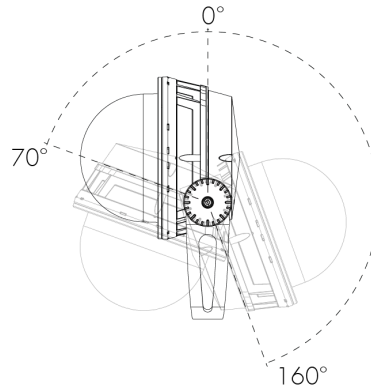
**LBLDM-FINISH-OPTIONS (CRC)**

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**



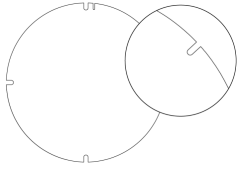
Dome Lens is available with WFL Optic only. The WFL optic must be specified for the fixture.

Dome Lens cannot be combined with other optical accessories.

Dome Lens will affect beam distribution. Consult factory for application support and photometric performance.

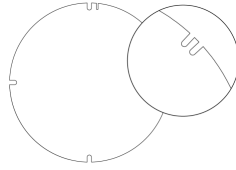
**Diffuser Lenses (Intended for Mockup Purposes Only, Order Separately)**

**Diffuser Lens 1 (1 Notch)**



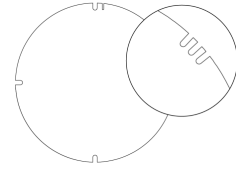
147677

**Diffuser Lens 2 (2 Notches)**



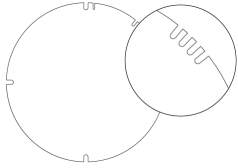
147678

**Diffuser Lens 3 (3 Notches)**



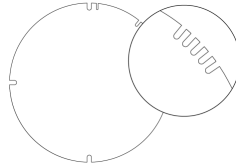
147679

**Diffuser Lens 4 (4 Notches)**



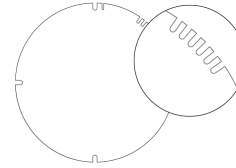
147680

**Diffuser Lens 5 (5 Notches)**



147681

**Diffuser Lens 6 (6 Notches)**



147682

**Final Distribution Using Diffuser Lenses**

**Final Distribution Using Diffuser Lens**

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				
VN (6°)	NS		NF	M	FL	WFL
NS (10°)				FL	WFL	
NF (20°)						
M (30°)				FL		
FL (40°)					WFL	
WFL (60°)						WVFL
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.

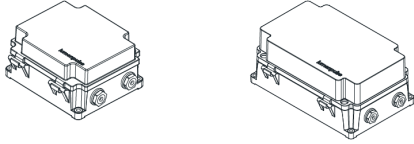
The diffuser lenses are intended for mockup purposes only. A lens holder is required to install a diffuser lens on the fixture, order separately using the following names: **LBS**: LBSLSLA-FINISH-LBALK **LBM/LBMP**: LBMLSLSLA-FINISH-LBALK **LBL/LBLP**: LBLLSLSLA-FINISH-LBALK **LBG/LBGP**: LBGLSLA-FINISH-LBALK **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.

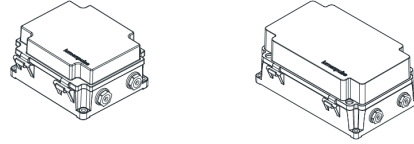
**Control Boxes (Order Separately)**

**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.

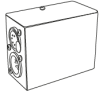
**EXPERT - Pharos® Expert Control Kit**



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.

**EPA Guide**

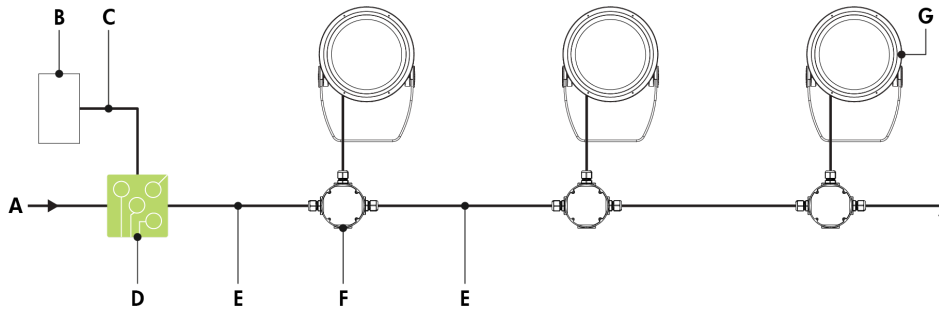
	<b>LBL</b> 	<b>LBL with Snoot</b> 	<b>LBL with Visor</b> 	<b>LBL with Snoot Wide</b> 	<b>LBL with Dome Lens</b> 
<b>EPA front (sq ft)</b>	0.642	0.642	0.642	1.016	0.642
<b>EPA side (sq ft)</b>	0.214	0.473	0.473	0.452	0.300

## Typical Wiring Diagrams

### Wiring Color Code

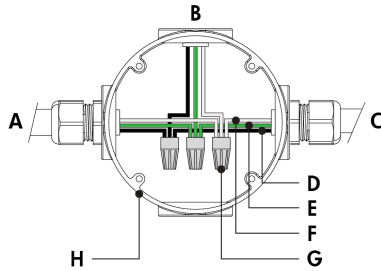
UL Color Code	USE
Green	Ground
Black	Line
White	Line/Neutral
Red or Purple	0-10V / Data +
Orange	0-10V / Data -
Gray	Signal common (DMX/RDM only)

### 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 Large

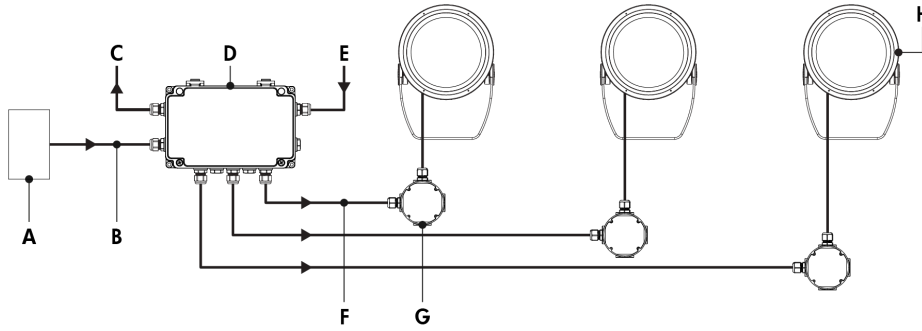
### Lumentalk (LT) - Wiring Detail



- 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)

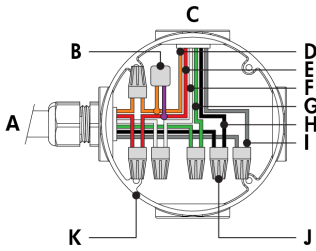
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Lumentalk enabled fixtures must be commissioned using LumentalkID software and a LID. Consult factory for details.
- Maximum of 1 transmitter (Lumentranslator or Lumenlink) per system.
- No third party 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.
- 50 watts per fixture.

**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 (wiring by others)
- G** - Junction box (by others)
- H** - Lumenbeam Large

**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)

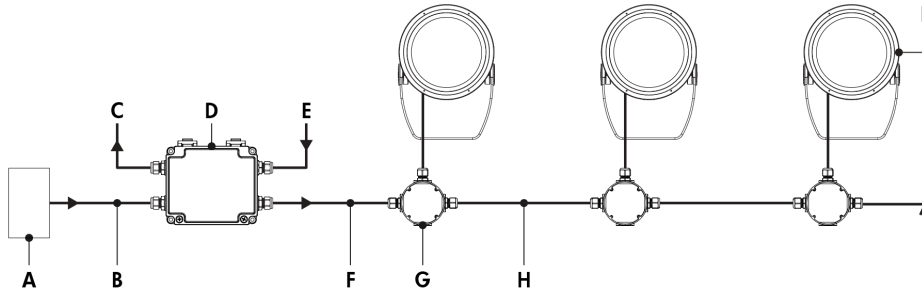
**Maximum Fixture Count Per Run**

Configuration/Voltage	120V	208V	240V	277V
<b>LBL</b>	18	28	32	32

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

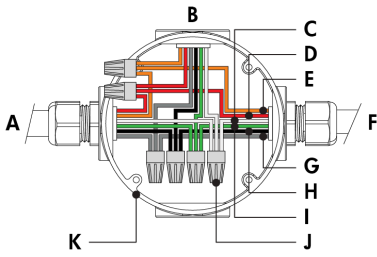
- Consult CBX installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run.
- Maximum of 4 DMX/RDM repeaters/CBX cascading in line.
- Maximum of 6 outputs per CBX-ST.
- RGB color mixture option requires 3 DMX addresses. 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.
- 50 watts per fixture.

**Daisy Chain Layout (DMX/RDM)**



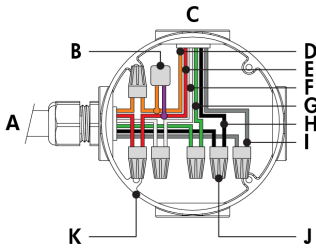
- A** - DMX/RDM controller (order separately from Lumenpulse, or by others)
- B** - Data input (Belden 9841 or equivalent, by others)
- C** - Data output to next CBX (optional, not isolated/not boosted)
- D** - CBX-DS
- E** - Power input (100-277V AC, wiring by others)
- F** - Power and data output to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

**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)

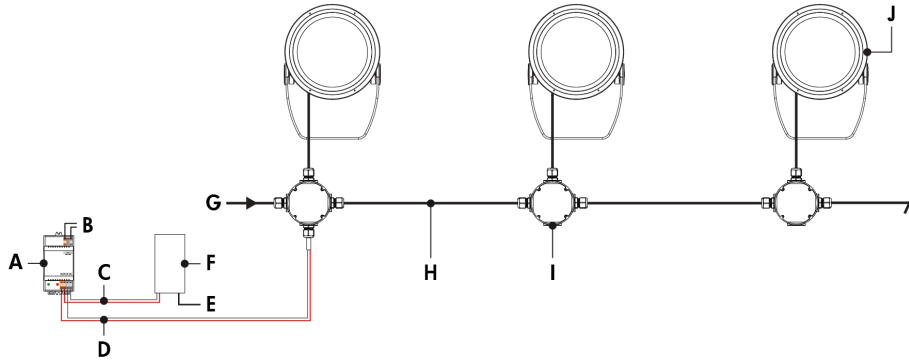
**Maximum Fixture Count Per Run**

Configuration/Voltage	120V	208V	240V	277V
<b>LBL</b>	18	28	32	32

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

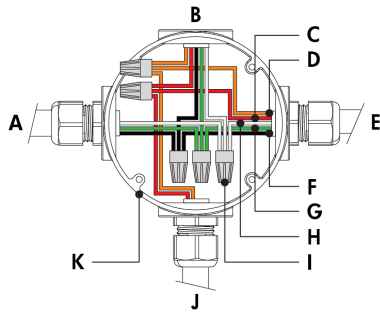
- Consult CBX installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run.
- Maximum of 4 DMX/RDM repeaters/CBX cascading 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. 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. Two (2x) DMX lumenterminators included per CBX-DS. See installation instructions for details.
- 50 watts per fixture.

**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 Large

**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.
- 50 watts per fixture.

How to Order

Housing	Voltage	Color and Color Temperature (1)	Optic	Optical Option (14) (16) (17)	Finish	Control	Option	Certification	Cable Length (24) (30)	Cable Color	Buy American Act
LBL Lumenbeam™ Large	100 100 Volts	<b>MRGBWP</b> Opticolor+® Mix-at-Source Red, Green, Blue Plus White Settable Range 24K to 65K (2) (3) (4) (5) (6)  <b>MRGBA</b> Opticolor™ Mix-at-Source Red, Green, Blue, PC Amber (3) (7)  <b>RGBA</b> Discrete Red, Green, Blue, Amber  <b>RGBW30K</b> Discrete Red, Green, Blue, White 30K (2)  <b>RGBW40K</b> Discrete Red, Green, Blue, White 40K (2)  <b>RGB</b> Discrete Red, Green, Blue  <b>MRGROYWP</b> Opticolor+® Mix-at-Source Red, Green, Royal Blue Plus White Settable Range 24K to 65K (2) (3) (4) (5) (6) (8) (9)	VN Very Narrow 6° (10) (11)	LSLH Linear Spread Lens Horizontal Distribution (15)	BK Black Sandtex®	LT Lumentalk (21) (22)	SY Short Yoke	UL UL Compliant	3FT 3 ft (24) (30)	BK Black	BAA Buy American (31) (32)
	120 120 Volts		NS Narrow Spot 10° (10)	BRZ Bronze Sandtex®	DMX/RDM DMX/RDM Enabled Dimming (23) (24)	SRV Short Rotational Yoke (24)	CE CE Compliant (29)	10FT 10 ft	WH White (31)		
	208 208 Volts		NF Narrow Flood 20° (10)	SLV Linear Spread Lens Vertical Distribution (15)	SI Silver Sandtex®	RY Rotational Yoke (24)	CEII CE Compliant Class II Double Insulated (29)	20FT 20 ft			
	220 220 Volts		M Medium 30° (10)	WH Smooth White	DALIT8 DALI 2 T8 Enabled Dimming 0.1% (5) (25)	3GV 3G ANSI C136.31-2010 Vibration Rating for Bridge Applications	30FT 30 ft				
	240 240 Volts		FL Flood 40° (10)	BKTX Textured Black	3GV 3G ANSI C136.31-2010 Vibration Rating for Bridge Applications	50FT 50 ft					
	277 277 Volts		WFL Wide Flood 60° (10) (12)	BRZTX Textured Bronze Non-Metallic	CRC Corrosion-Resistant Coating (27) (28)	70FT 70 ft					
			VWFL Very Wide Flood 90° (10) (13)	GRATX Textured Medium Gray		100FT 100 ft					
			NAS Narrow Asymmetric (10) (11)	GRNTX Textured Green							
			WW Asymmetric Wallwash (10) (11)	WHTX Textured White							
				CC Custom Color & Finish (16) (19) (20)							

Notes:

- White Channel Set Point or Warm Dimming Range is adjustable at commissioning. Consult Opticolor+ Personality Guide for details.
- Consult factory for the availability of more color and CCT options.
- Not available for VN, NAS and WW optics.
- 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.
- Consult factory for DALI T8 applications with MRGBWP or MRGROYWP and a CCT other than 3000K.
- MRGBWP and MRGROYWP can be configured to MRGB via RDM, consult factory for more details.
- Consult factory for the availability of more color and CCT options (e.g. royal blue).
- Longer lead time of 10-12 weeks.
- Consult factory for photometric performance.
- Factory installed, not interchangeable on site.
- Not available with MRGBA, MRGBWP and MRGROYWP color temperature options.
- A dome lens accessory is available, order separately. For compatibility, a WFL optic must be specified for the fixture.
- Available with MRGBA, MRGBWP and MRGROYWP color temperature options only.
- Optical options are factory installed and cannot be changed in the field.
- Field adjustable spread lens optical accessory available, order separately.
- Not available with WFL, NAS and WW optics when combined with RGB color temperature option.
- Not available with VN, WFL, VWFL, NAS and WW optics when combined with MRGBA, MRGBWP or MRGROYWP color temperature options.
- 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.
- Setup charges apply for RAL colors. Consult factory for details.
- Longer lead times can be expected for custom RAL color finishes.
- A Lumentranslator 2 (LTL2) and LumenID (LID) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.
- Not available with Class II double insulated option.
- A control box (CBX) and LumenID (LID) must be specified.
- Maximum of 3 ft cable length for daisy chain DMX applications with CBX-DS.
- DALI 2 T8 controller required, provided by others. DALI 2 T8 control uses a single DALI short address.
- Consult factory for applications with 3GV requirements.
- Use only when exposed to salt spray. This option is not required for normal outdoor exposure.
- Setup charges apply. Consult factory for details.
- Consult European specification sheets and installation instructions for CE and CE Class II wiring information.
- 3 ft cable length is standard unless otherwise specified.
- Not available with CE or CEII certification options.
- Contact your Lumenpulse Sales Representative for more information on order volume details.