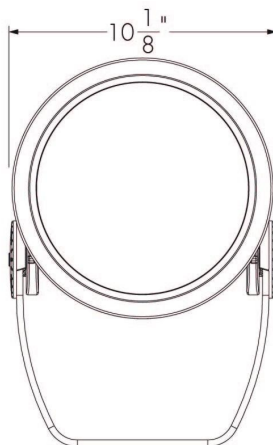
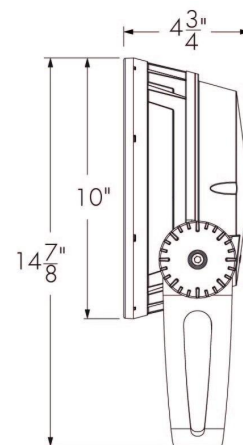


Project Name _____ Qty _____

Type _____ Catalog / Part Number _____



Front view



Side view

Photometric Summary

Symmetric

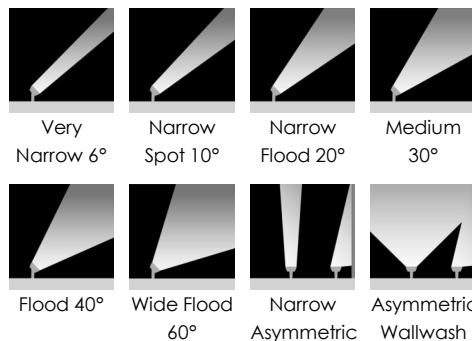
	Delivered output (lm)	Intensity (peak cd)
VN (6°)	3,335	173,787
NS (10°)	3,570	126,603
NF (20°)	3,522	33,089
M (30°)	3,233	14,616
FL (40°)	3,037	7,496
WFL (60°)	2,525	2,622

Asymmetric

NAS	3,711	57,155 (@2.5°)
WW	3,071	13,650 (@5°)

Based on DWH full output, DMX/RDM configuration.
Photometric performance is measured in compliance with IESNA LM-79-08.

Optic



Description

The Lumenbeam Large Dynamic White is an IP66-rated luminaire for lighting landscapes, trees, columns, monuments, and architectural details with a special feature that enables the selection of any color temperature from 2200K to 3000K or from 2700K to 6500K. This dynamic feature gives designers and their clients the freedom to alter the ambiance of a space in response to the time of day or the way a space is used. A number of other options are on offer: optics for flood or accent lighting, as well as accessories, spread lenses, and controls. The luminaire also has an anti-corrosion option for use in harsh, chemical, or coastal environments.

Features

Color and Color Temperature	Dynamic warm white (2200K to 3000K), Dynamic white (2700K to 6500K)
Optics (Nominal Distribution)	VN (6°), NS (10°), NF (20°), M (30°), FL (40°), WFL (60°), NAS (Narrow Asymmetric), WW (Asymmetric Wallwash)
Optical Option	Linear spread lens horizontal distribution, Linear spread lens vertical distribution
Option	Short Yoke 3G ANSI C136.31-2010 Vibration Rating for bridge applications Corrosion-resistant coating for hostile environments
Cable Color	Black, White
Power Consumption	50 W
Warranty	5-year limited warranty

Performance

Maximum Delivered Output	2,872 lm (DWH full output, NAS, DMX/RDM) 3,711 lm (DWH full output, NAS, DMX/RDM)
---------------------------------	--

Color and Color Temperature



D_{ww}
Dynamic warm white
(2200K to 3000K)

D_{wh}
Dynamic white
(2700K to 6500K)

Control

DIM/DTW DMX/RDM1 DMX/RDM

**DALI 2
T8**

Ratings

IP66 IK10

Certifications



5 YEARS
lumenpulse

3G
VIBRATION RATING

Maximum Delivered Intensity 134,511 cd at nadir (DWW full output, VN 6°, DMX/RDM)
173,787 cd at nadir (DWH full output, VN 6°, DMX/RDM)

Illuminance at Distance Minimum 1 fc at 368 ft (DWW full output, VN 6°, DMX/RDM)
Minimum 1 fc at 419 ft (DWH full output, VN 6°, DMX/RDM)

Lumen Maintenance L70 120,000 hrs (Ta 25 °C)

Physical

Housing Material Low copper content high pressure die-cast aluminum

Yoke Material Heavy aluminum (standard yoke included)

Lens Material Clear tempered glass

Hardware Material Stainless steel

Gasket Material Silicone

Surface Finish Electrostatically applied polyester powder coat

Weight 12 lbs

EPA Front = 0.64 sq ft, Side = 0.21 sq ft

Electrical and control

Voltage 100 to 277 volts

Fixture Cable Power and data in one cable

Conductors 3C #16-3 (LT control), 5C #16-5 (DIM/DTW, DALI28 control), 6C #14-3/ #24-3 (DMX/RDM1, DMX/RDM control)

Control Lumentalk, Dim to Warm via 0-10V (2700K to 2200K), Dim to Warm via single-channel DMX/RDM (2700K to 2200K), DMX/RDM enabled 3-channel color temperature control, DALI 2 T8 control

Resolution (DMX/RDM) Per fixture, 8-bit or 16-bit

Dynamic Warm Color Temperature Mixing 36 LEDs (12x 2200K, 12x 2700K, 12x 3000K)

Dynamic White Color Temperature Mixing 36 LEDs (12x 2700K, 12x 4000K, 12x 6500K)

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 IK10

Application Wind Speed 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)

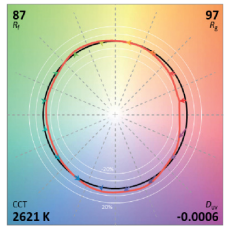
Optical Accessories Snoot, Snoot wide, Visor, Linear Spread Lens Adjustable, Wire guard

Control Boxes	DMX/RDM enabled (daisy chain or star configuration), Ethernet enabled (daisy chain or star configuration)
Control Systems	Lumentone™ 2 (LTN2), Pharos® kit (PHAROS)
Diagnostic and Addressing Tools	LumenID (LID), LumentalkID (LIDLTL)

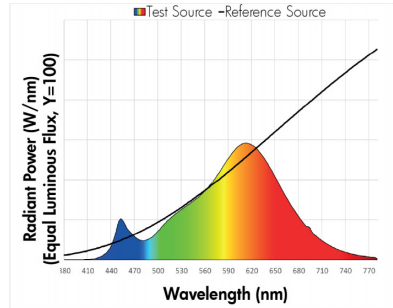
Chromaticity Data

TM-30 - DWW

CCT	CIE		TM-30	
DWW	R _a	86	87	R _f
Full Output	R _g	26	97	R _g

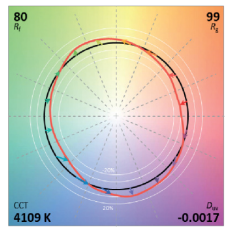


DWW Spectral Power Distribution

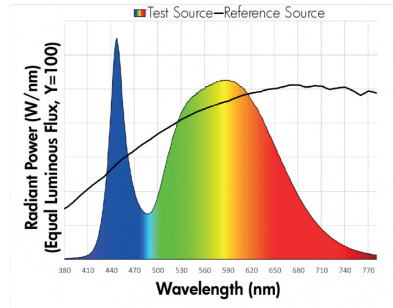


TM-30 - DWH

CCT	CIE		TM-30	
DWH	R _a	81	80	R _f
Full Output	R _g	22	99	R _g

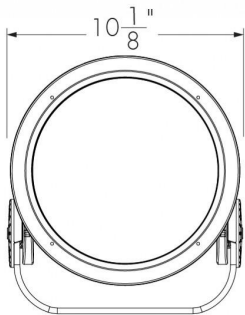


DWH Spectral Power Distribution

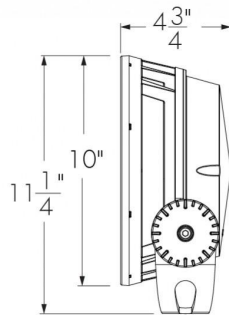


Mounting Options

SY - Short Yoke



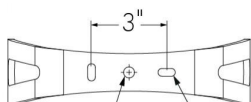
Front view

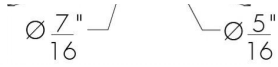


Side view

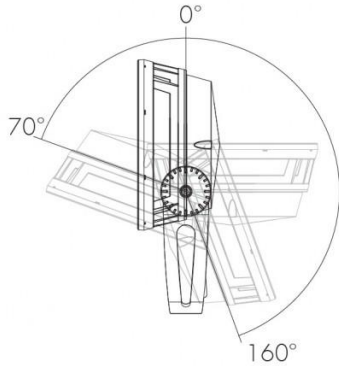
Mounting Details

Mounting Hole Pattern - Standard and Short Yoke

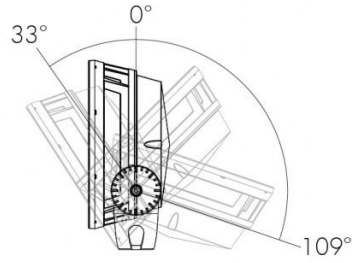




Adjustable Pivot Limits



Standard yoke



Short yoke

Optical Options

LSLH - Linear Spread Lens Horizontal Distribution



LSLH

LSLH - Linear spread lens horizontal distribution

LSLV - Linear Spread Lens Vertical Distribution



LSLV

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°

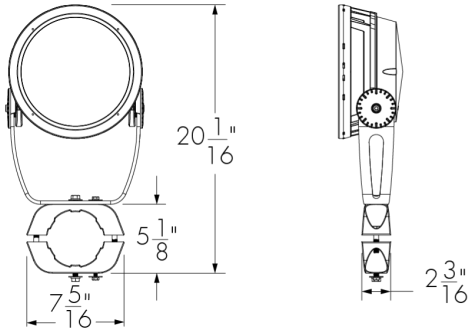
LLF: 0.88*

*LLF may vary slightly by distribution chosen.

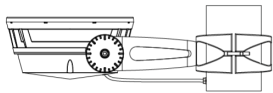
Factory installed, not adjustable on site. Not available for WFL, NAS and WW optics.
See 'Optical Accessories' section for field adjustable spread lens (LSLA).

Mounting Accessories (Order Separately)

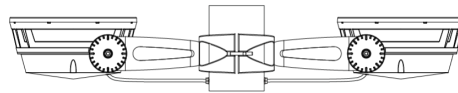
Round Pole Mounting Accessory



PM4 model shown. Consult factory for square pole section.



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

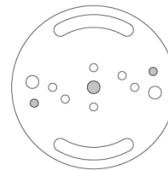
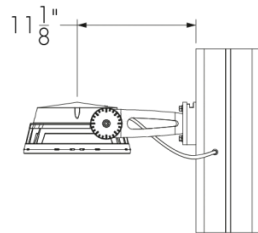
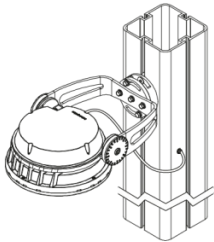


PM4-2, PM4.5-2, PM5-2 - Round pole mounting accessory - twin fixtures
*One bracket assembly is supplied per 2 fixtures unless otherwise specified.

	PM4	PM4.5	PM5
For pole Ø	$4" \pm \frac{1}{16}$	$4.5" \pm \frac{1}{16}$	$5" \pm \frac{1}{16}$

Consult factory for other pole diameters.

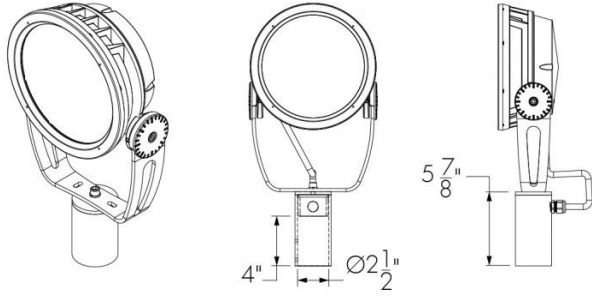
PLTU - Universal Yoke



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

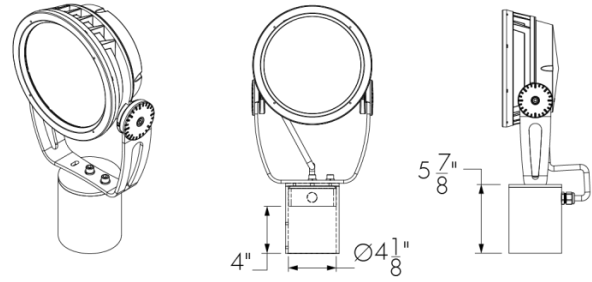
The mounting holes used for this fixture are shown in gray.

Tenon Adapter



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

Vertical mounting only. Consult factory for horizontal mounting.



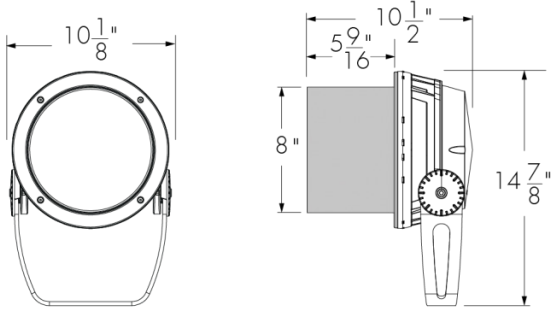
TN4 - Tenon adapter to fit on 4 in O.D. tenon

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.

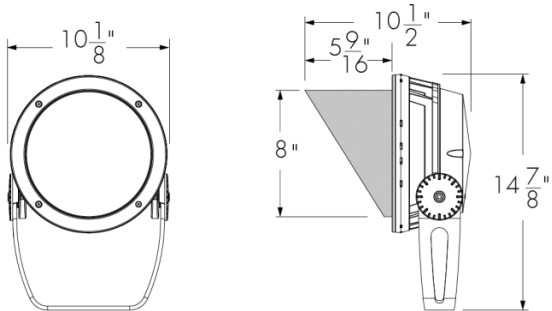
SN - Snoot



LBSN-FINISH-BK-OPTIONS (CRC)

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

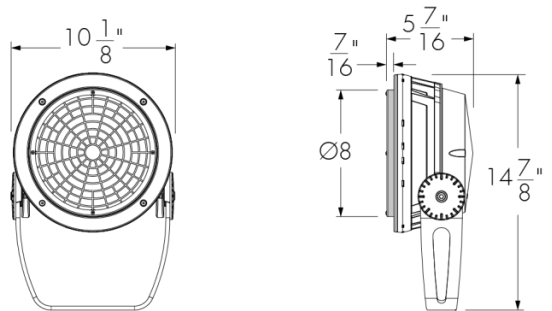
VS - Visor



LBLVS-FINISH-BK-OPTIONS (CRC)

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

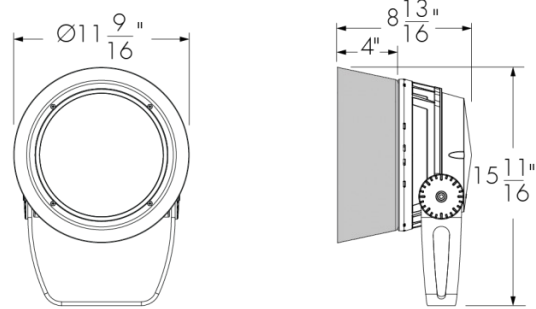
WG - Wire Guard



LBLWG-FINISH-OPTIONS (CRC)

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

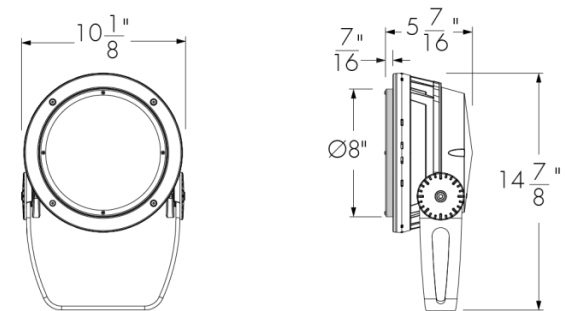
SNW - Snoot Wide



LBSNW-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	LBSNLSLA	N/A*	LBLVLSLA
Wire guard	LBSNSWG	N/A	LBLVSWG

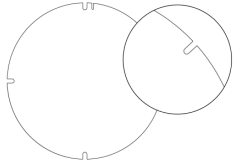
Accessory combinations must be ordered together on a single line

Ex: A snoot + wire guard combination order code is LBSNSWG-**FINISH-BK-OPTIONS**. A maximum of two accessories can be combined per fixture.

*Consult factory for a linear spread lens adjustable + snoot wide combination.

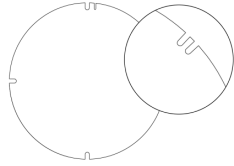
Diffuser Lenses (Intended for Mockup Purposes only, Order Separately)

Diffuser Lens 1 (1 Notch)



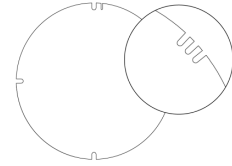
147677

Diffuser Lens 2 (2 Notches)



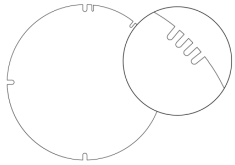
147678

Diffuser Lens 3 (3 Notches)



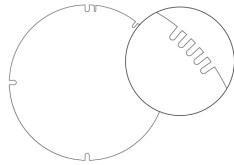
147679

Diffuser Lens 4 (4 Notches)



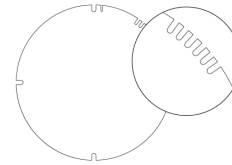
147680

Diffuser Lens 5 (5 Notches)



147681

Diffuser Lens 6 (6 Notches)



147682

Final Distribution Using Diffuser Lenses

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					
NS (10°)			NF	M	FL	WFL
NF (20°)						
M (30°)				FL		
FL (40°)					WFL	
WFL (60°)						

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.

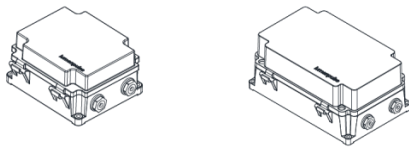
The diffuser lenses are intended for mockup purposes only. A lens holder is required to install a diffuser lens on the fixture, order separately using the following names: **LBS**: LBSLSLA-FINISH-LBALK **LBM/LBMP**: LBMLSLA-FINISH-LBALK **LBL/LBLP**: LBLLSLA-FINISH-LBALK **LBG/LBGP**: LBGLSLA-FINISH-LBALK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

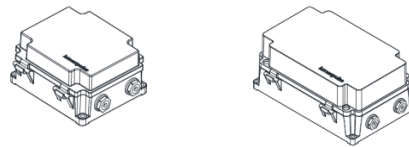
Control Boxes (Order Separately)

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)

LTN2 - Lumentone™ 2



Lumentone 2 is a simple pre-programmed DMX 512 controller with a push button rotary dial and live feedback.

PHAROS - Pharos® Kit



The Pharos kit, available for 1 or 2 DMX universes, allows for complete control of large lighting installations. 2 DMX universes kit shown.

Diagnostic and Addressing Tools (Order Separately)

LID - LumenID







LumenID is a diagnostic and addressing DMX/RDM tool. It must be specified on all DMX applications. Consult LID specification sheet for details.

LID-LT - LumentalkID



LumentalkID is a diagnostic and addressing tool. It must be specified for all Lumentalk (LT) applications. Consult LID-LT specification sheet for details.

EPA Guide

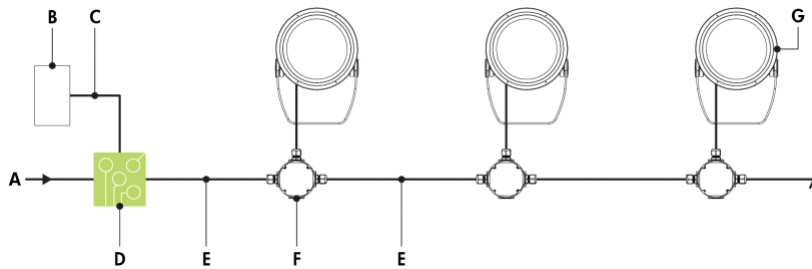
	LBL 	LBL with snoot 	LBL with visor 	LBL with snoot wide 
EPA front (sq ft)	0.642	0.642	0.642	1.016
EPA side (sq ft)	0.214	0.473	0.473	0.452

Typical Wiring Diagrams

Wiring Color Code

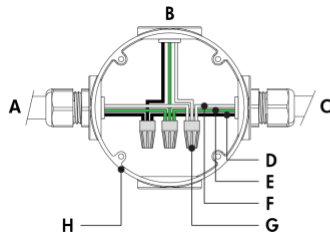
UL Color Code	USE
Green	Ground
Black	Line
White	Line/Neutral
Red or Purple	0-10V / Data +
Orange	0-10V / Data -
Gray	Signal common (DMX/RDM only)

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

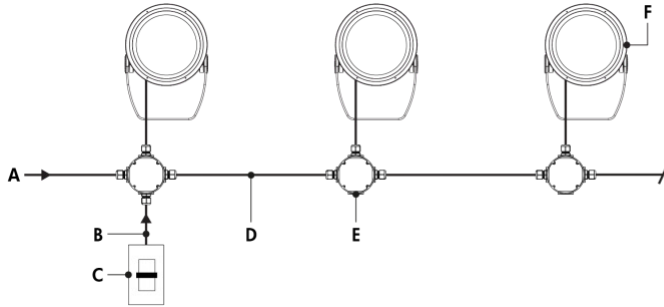


- A** - Power input (control over power line via Lumentalk system) or from previous fixture
- B** - To fixture
- C** - To next fixture
- D** - Line
- E** - Ground
- F** - Line/Neutral
- G** - Wire-nut (by others)
- H** - Junction box (by others)

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Lumentalk enabled fixtures must be commissioned using LumentalkID software and a LID-LT. 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.

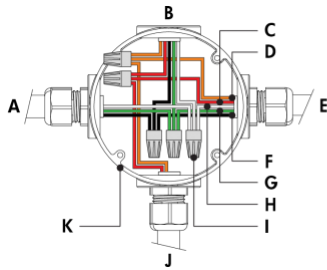
Dim to Warm via 0-10V (DIM/DTW*)

*Available for DWW version only, 2700K to 2200K



- A** - Power input (100-277V AC, wiring by others)
- B** - Data wiring (by others)
- C** - Dimmer (by others)
- D** - Power and data wiring (by others)
- E** - Junction box (by others)
- F** - Lumenbeam Large

Dim to Warm via 0-10V (DIM/DTW) - Wiring Detail

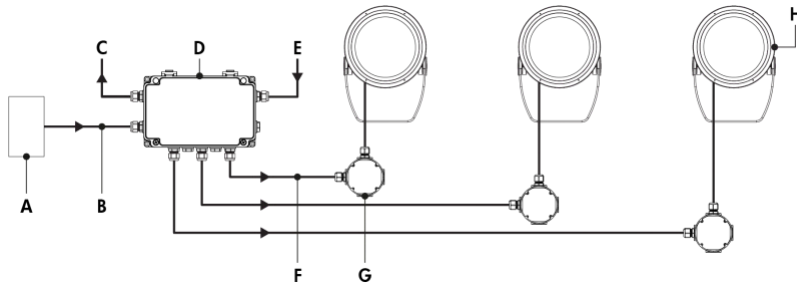


- A** - Power input or from previous fixture
- B** - To fixture
- C** - 0-10 V +
- D** - 0-10 V -
- E** - To next fixture
- F** - Line
- G** - Ground
- H** - Neutral
- I** - Wire-nut (by others)
- J** - From dimmer (by others)
- K** - Junction box (by others)

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- 0-10V mA ratings: passive dimmer (Current Sink): 3mA per fixture, active dimmer (Current Source): 0.5mA per fixture.
- 50 watts per fixture.

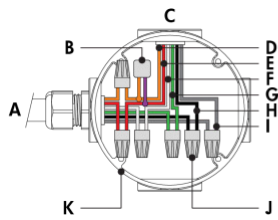
Star Layout (Dim to Warm via DMX/RDM1* or 3-channel DMX/RDM)

*Available for DWW version only, 2700K to 2200K



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

Star Layout (DMX/RDM1 or 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

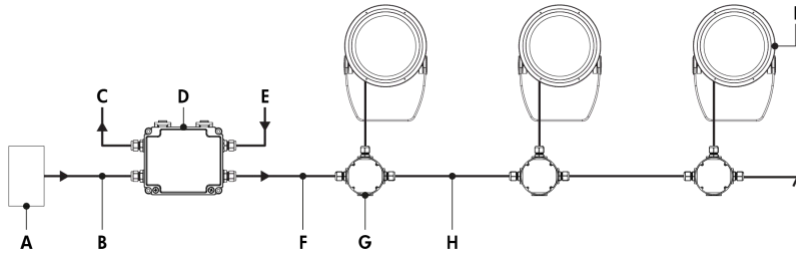
Configuration/Voltage	120V	208V	240V	277V
LBL	18	28	32	32

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.
- DMX/RDM1 control option requires 1 DMX address. DMX/RDM control option requires 3 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.

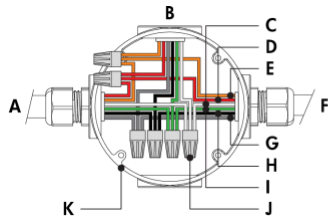
Daisy Chain Layout (Dim to Warm Via DMX/RDM1* or 3-channel DMX/RDM)

*Available for DWW Version Only, 2700K to 2200K



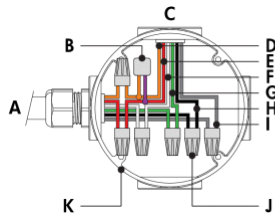
- A** - DMX/RDM controller (order separately from Lumenpulse, or by others)
- B** - Data input (Belden 9841 or equivalent, by others)
- C** - Data output to next CBX (optional, not isolated/not boosted)
- D** - CBX-DS
- E** - Power input (100-277V AC, wiring by others)
- F** - Power and data output to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

Daisy Chain Layout (DMX/RDM1 or 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/RDM1 or 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)

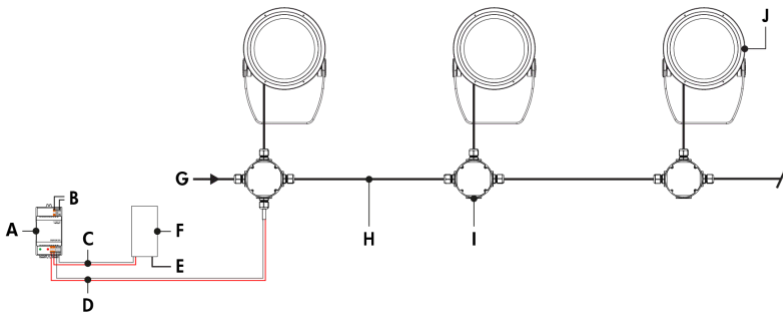
Maximum Fixture Count Per Run

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

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

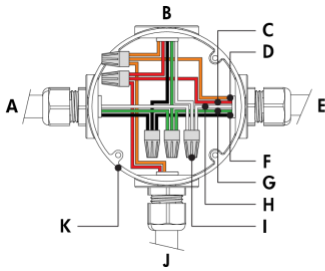
- Consult CBX installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run.
- Maximum of 4 DMX/RDM repeaters/CBX cascading 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.
- DMX/RDM1 control option requires 1 DMX address. DMX/RDM control option requires 3 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 controls.
- 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	Optic	Optical Option (2) (4)	Finish	Control	Option	Certification	Cable Length (12) (17)	Cable Color	Buy American Act						
LBL Lumenbeam™ Large	100 100 volts	DWW Dynamic warm white (2200K to 3000K) DWH Dynamic white (2700K to 6500K)	VN Very Narrow 6° (1)	LSLH Linear spread lens horizontal distribution (3) LSLV Linear spread lens vertical distribution (3)	BK Black Sandtex®	LT Lumentalk (8) (9)	SY Short Yoke	UL UL Compliant	3FT 3 ft (12) (17)	BK Black	BAA Buy American (18) (19)						
	120 120 volts		NS Narrow Spot 10° (1)									BRZ Bronze Sandtex®	DIM/DTW Dim to Warm via 0-10V (2700K to 2200K) (10)	3GV 3G ANSI C136.31-2010 Vibration Rating for bridge applications	CE CE Compliant (14)	10FT 10 ft	WH White (18)
	208 208 volts		NF Narrow Flood 20° (1)									SI Silver Sandtex®	DMX/RDM1 Dim to Warm via single-channel DMX/RDM (2700K to 2200K) (10) (11) (12)	CRC Corrosion-resistant coating (14) (15)	CEII CE compliant Class II double insulated (16)	20FT 20 ft	
	220 220 volts		M Medium 30° (1)									WH Smooth White	DMX/RDM 3-channel color temperature control via DMX/RDM (11) (12)		30FT 30 ft		
	240 240 volts		FL Flood 40° (1)									BKTX Textured Black	DALIT8 DALI 2 T8 control (13)		50FT 50 ft		
	277 277 volts		WFL Wide Flood 60° (1)									BRZTX Textured Bronze Non-Metallic			70FT 70 ft		
			NAS Narrow Asymmetric (1)									GRATX Textured Medium Gray			100FT 100 ft		
			WW Asymmetric Wallwash (1)									GRNTX Textured Green					
												WHTX Textured White					
												CC Custom Color & Finish (5) (6) (7)					

Notes:

1. Factory installed, not interchangeable on site.
2. Optical options are factory installed and cannot be changed in the field.
3. Field adjustable spread lens optical accessory available, order separately.
4. Not available with WFL, NAS and WW optics.
5. 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.
6. Setup charges apply for RAL colors. Consult factory for details.
7. Longer lead times can be expected for custom RAL color finishes.
8. A Lumentranslator 2 (LTL2) and LumentalkID (LIDL2) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.
9. Not available with Class II double insulated option.
10. Available for DWW color temperature option only.
11. A control box (CBX) and LumenID (LID) must be specified.
12. Maximum of 3 ft cable length for daisy chain DMX applications with CBX-DS.
13. DALI 2 T8 controller required, provided by others. DALI2 T8 control uses a single DALI short address.
14. Use only when exposed to salt spray. This option is not required for normal outdoor exposure.
15. Setup charges apply. Consult factory for details.
16. Consult European specification sheets and installation instructions for CE and CE Class II wiring information.
17. 3 ft cable length is standard unless otherwise specified.
18. Not available with CE or CEII certification options.
19. Contact your Lumenpulse Sales Representative for more information on order volume details.