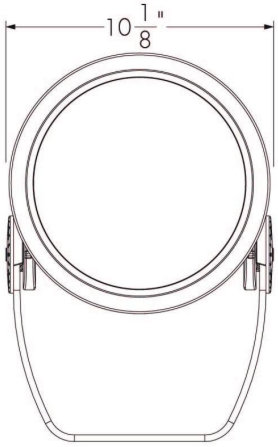
lumenbeam

Large
LBL

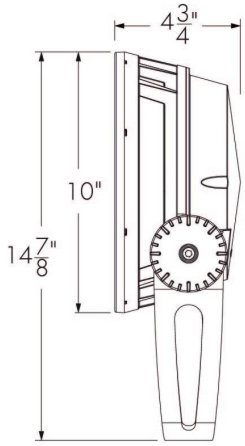
WHITE AND STATIC COLORS

Project Name _____ **Qty** _____

Type _____ **Catalog / Part Number** _____



Front view



Side view

Photometric Summary

Symmetric

	Delivered output (lm)	Intensity (peak cd)
XN (3°)	4,259	593,580
VN (6°)	3,314	172,676
NS (10°)	5,543	82,608
NF (20°)	5,673	53,203
M (30°)	5,198	28,246
FL (40°)	4,648	11,469
WFL (60°)	4,626	4,677

Asymmetric

NAS	3,687	56,790 (@2.5°)
WW	4,544	13,924 (@5°)

Based on 4000K configuration.
Photometric performance is measured in compliance with IESNA LM 79-08.

Description

The Lumenbeam Large is an IP66-rated luminaire for lighting landscapes, trees, columns, monuments, and architectural details. It has numerous options, including optics for flood or accent lighting, a choice of color temperatures and colors, 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.

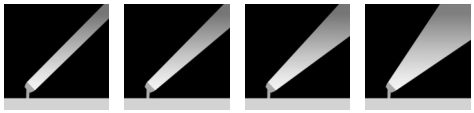
Features

Color and Color Temperature	2200K, 2700K, 3000K, 3500K, 4000K, 5700K, Red, Green, Blue
Optics (Nominal Distribution)	XN (3°), 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	5,673 lm (4000K, NF 20°)
Maximum Delivered Intensity	593,580 cd at nadir (4000K, XN 3°)
Illuminance at Distance	Minimum 1 fc at 774 ft (4000K, XN 3°)
Color Consistency	3 SDCM
Color Rendering	Minimum CRI 80

Optic



Extra Narrow 3° | Very Narrow 6° | Narrow Spot 10° | Narrow Flood 20°

Medium 30° | Flood 40° | Wide Flood 60° | Narrow Asymmetric

Asymmetric Wallwash

Color and Color Temperature

2200K | 2700K | 3000K | 3500K | 4000K | 5700K

Red | Green | Blue

Control

ON/OFF | lumentalk | 0-10V

DALI | EcoSystem Enabled | DMX/RDM

Ratings

IP66 IK10

Certifications

Lumen Maintenance

L70 > 250,000 hrs (Ta 25 °C) (> 80,000 hrs for XN 3°, VN 6°, NAS optics only)

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 (NO, LT control), 5C #16-5 (DIM, DALI, ES control), 6C #14-3/ #24-3 (DMX/RDM control)
Control	On/Off Control, Lumentalk, 0-10V Dimming, DALI dimming, Lutron® EcoSystem® Enabled dimming, DMX/RDM enabled
Resolution (DMX/RDM)	Per fixture, 8-bit or 16-bit

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

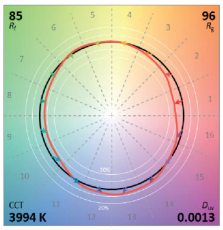
Accessories (Order Separately)

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 (LIDLT)

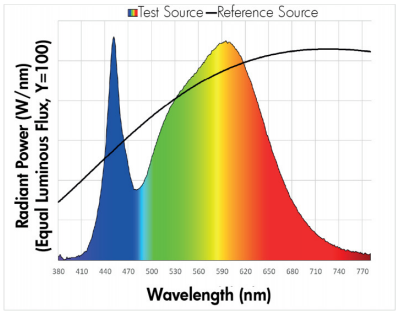
Chromaticity Data

TM-30 - 4000K

CCT	CIE		TM-30	
4000K	R_a	83	85	R_f
	R_9	14	96	R_g

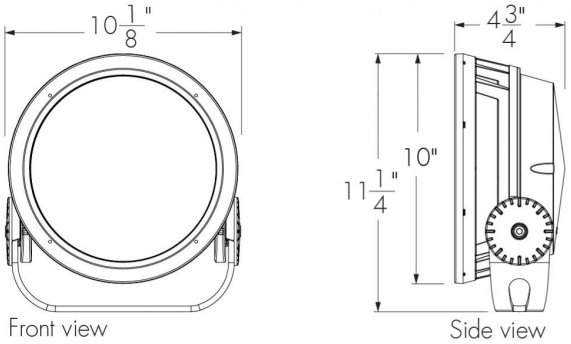


Spectral Power Distribution



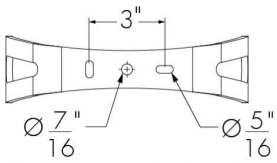
Mounting Options

SY - Short Yoke

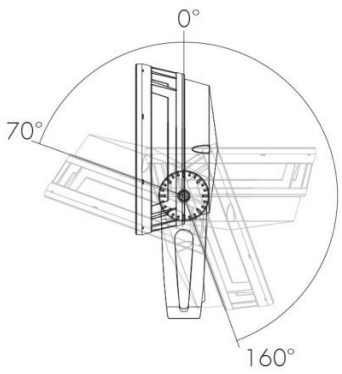


Mounting Details

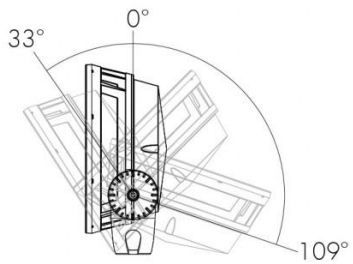
Mounting Hole Pattern - Standard And Short Yoke



Adjustable Pivot Limits



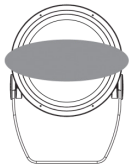
Standard yoke



Short yoke

Optical Options

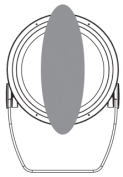
LSLH - Linear Spread Lens Horizontal Distribution



LSLH

LSLH - Linear spread lens horizontal distribution

LSLV - Linear Spread Lens Vertical Distribution



LSLV

Beam Angles

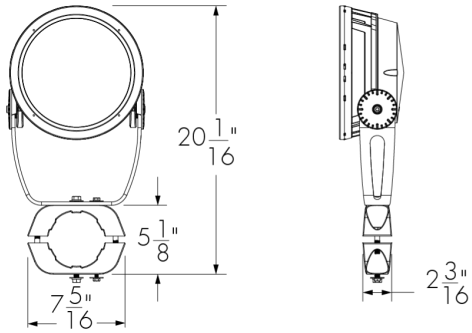
Optic installed in fixture	Beam angle with LSLH/LSLV
XN	5° x 60°
VN	7° x 60°
NS	13° x 66°
NF	16° x 62°
M	23° x 65°
FL	33° x 70°

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

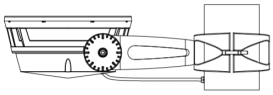
Factory installed, not adjustable on site. Not available for WFL, NAS and WW optics.
See 'Optical Accessories' section for field adjustable spread lens (LSLA).

Mounting Accessories (Order Separately)

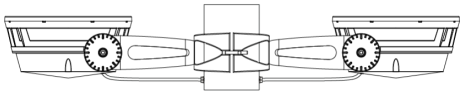
Round Pole Mounting Accessory



PM4 model shown. Consult factory for square pole section.



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

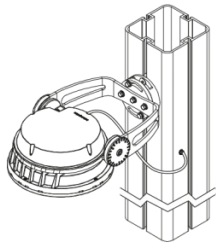


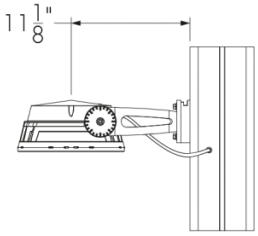
PM4-2, **PM4.5-2**, **PM5-2 -** Round pole mounting accessory - twin fixtures
*One bracket assembly is supplied per 2 fixtures unless otherwise specified.

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

Consult factory for other pole diameters.

PLTU - Universal Yoke

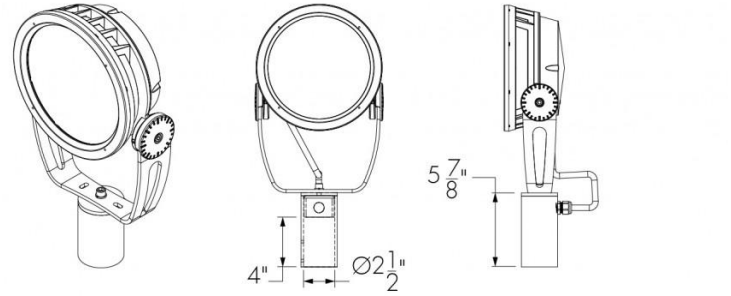




Refer to the Universal Yoke specification sheet and Pole installation instructions for more details. Square Lumentech profile shown.

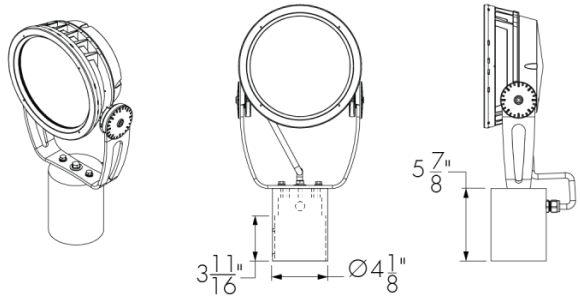
The mounting holes used for this fixture are shown in gray.

Tenon Adapter



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

Vertical mounting only. Consult factory for horizontal mounting.



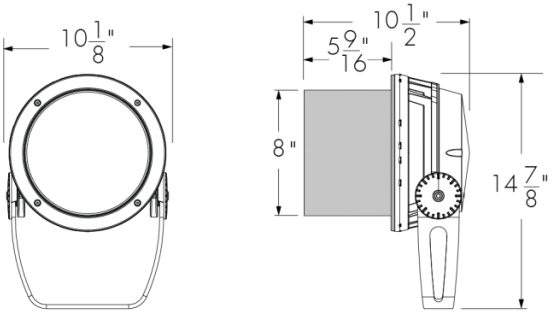
TN4 - Tenon adpater to fit on 4 in O.D. tenon

Vertical mounting only. Consult factory for horizontal mounting.

Optical Accessories (Order Separately)

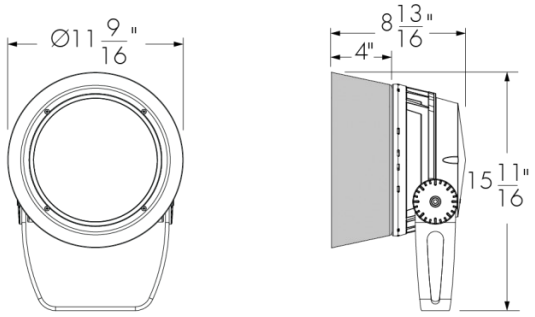
Installed optical accessories will affect the maximum pivot limits for each mounting option, consult factory for details.

SN - Snoot



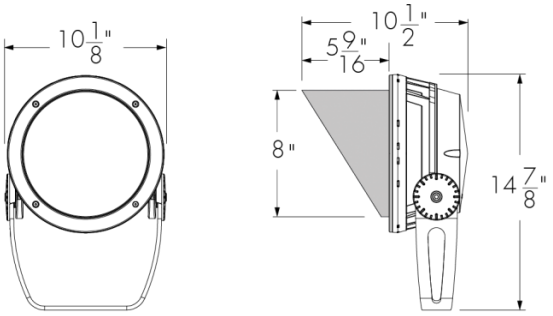
LBLSN-**FINISH**-BK-**OPTIONS** (CRC)
Interior surface painted black. Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

SNW - Snoot Wide



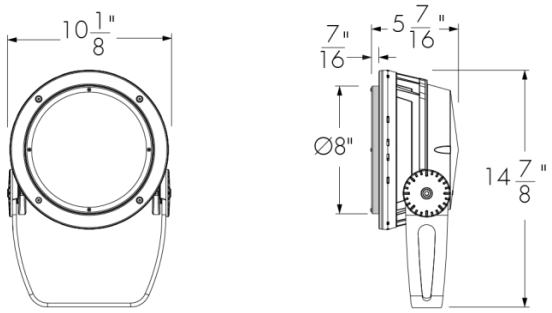
LBLSNW-**FINISH**-BK-**OPTIONS** (CRC)
Interior surface painted black. Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

VS - Visor



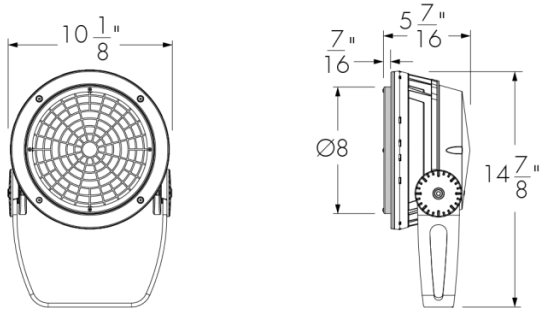
LBLVS-**FINISH**-BK-**OPTIONS** (CRC)
Interior surface painted black. Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

LSLA - Linear Spread Lens Adjustable



LBLLSLA-**FINISH**-**OPTIONS** (CRC)
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.

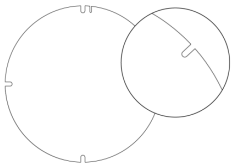
Accessory Combinations

+	Snoot	Snoot wide	Visor
Linear spread lens adjustable	LBLSNLSLA	N/A*	LBLVSLSLA
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.

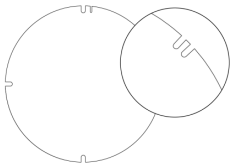
Diffuser Lenses (Intended for Mockup Purposes Only, Order Separately)

Diffuser Lens 1 (1 Notch)



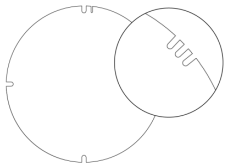
147677

Diffuser Lens 2 (2 Notches)



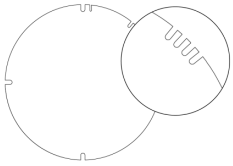
147678

Diffuser Lens 3 (3 Notches)



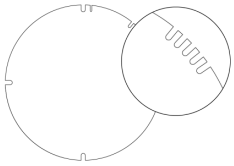
147679

Diffuser Lens 4 (4 Notches)



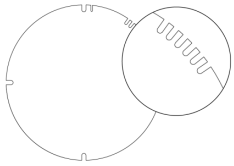
147680

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	**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°)						

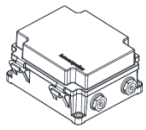
Choose a diffuser lens based on the desired final beam distribution. Refer to the 6-digit part numbers above to order diffuser lenses individually. To order a complete set of 6 diffuser lenses in a bag, refer to the following item names: **LBS:** LBALK-S **LBM/LBMP:** LBALK-M **LBL/LBLP**: LBALK-L **LBG/LBGP:**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

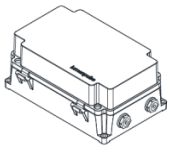
The diffuser lenses are intended for mockup purposes only. A lens holder is required to install a diffuser lens on the fixture, order separately using the following names: **LBS:** LBSLSLA-**FINISH**-LBALK **LBM/LBMP:** LBMLSLA-**FINISH**-LBALK **LBL/LBLP:** LBLLSLA-**FINISH**-LBALK **LBG/LBGP:** LBGLSLA-**FINISH**-LBALK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

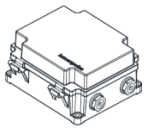
CBX-DMX/RDM - DMX/RDM Enabled (Daisy Chain or Star Configuration)

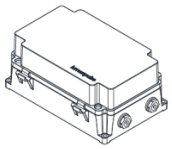




DMX/RDM control box. Up to six power and data outputs to fixtures or fixture runs. Consult CBX specification sheet and installation instructions for details. Lumenterminators provided with CBX (2x for daisy chain configuration, 6x for star configuration), consult factory to order spares.

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





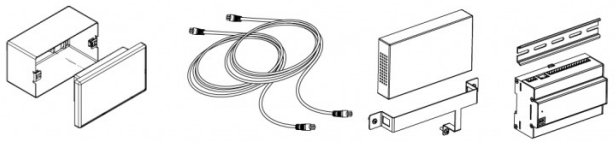
Ethernet control box. Up to four power and data outputs to fixture or fixture runs. Consult Ethernet CBX specification sheet and installation instructions for details.

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

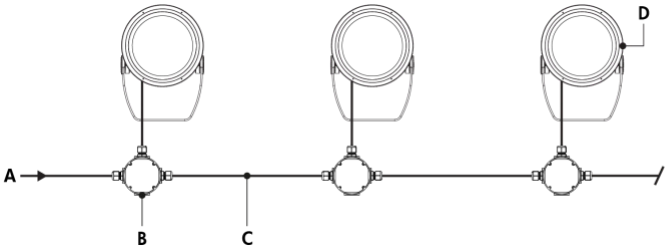
	LBL	LBL with snoot	LBL with visor	LBL with snoot wide
				
EPA front (sq ft)	0.642	0.642	0.642	1.016
EPA side (sq ft)	0.214	0.473	0.473	0.452

Typical Wiring Diagrams

Wiring Color Code

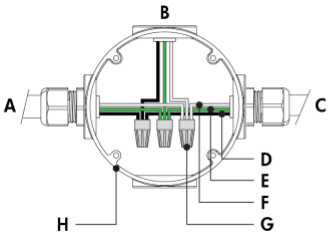
UL Color Code	USE
Green	Ground
Black	Line
White	Line/Neutral
Red or Purple	0-10V / Data +
Orange	0-10V / Data -
Gray	Signal common (DMX/RDM only)

On/Off Control (NO)



A - Power input (100-277V AC, wiring by others)
B - Junction box (by others)
C - Power wiring (by others)
D - Lumenbeam Large

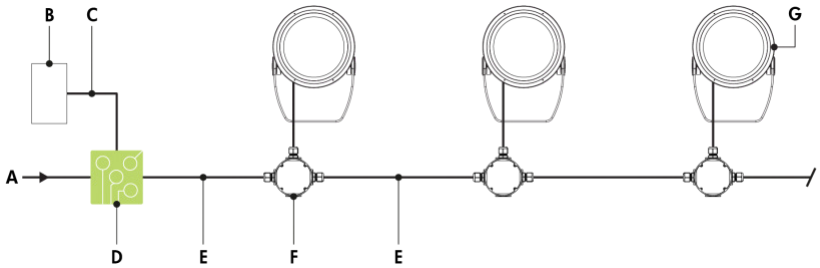
On/Off Control (NO) - Wiring Detail



A - Power input 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)

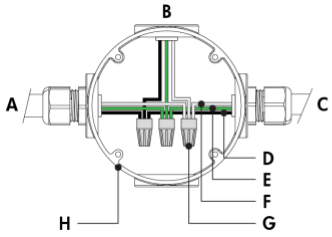
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- 50 watts per fixture.

Lumentalk (LT)



A - Power input (100-277V AC, wiring by others)
B - Dimmer/controller (order separately from Lumenpulse, or by others)
C - Data wiring (by others)
D - Lumentranslator 2 (LTL2-DIM, -DMX, -TRIAC, -DALI)
E - Power wiring (by others)
F - Junction box (by others)
G - Lumenbeam Large

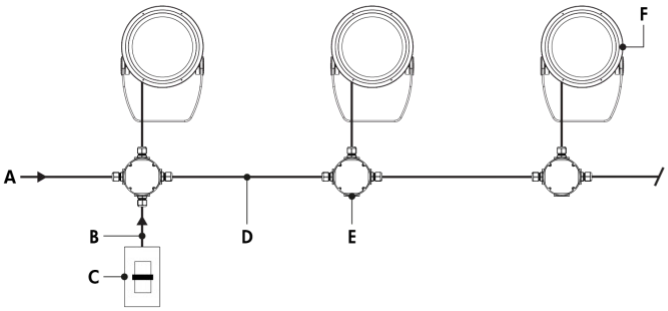
Lumentalk (LT) - Wiring Detail



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)

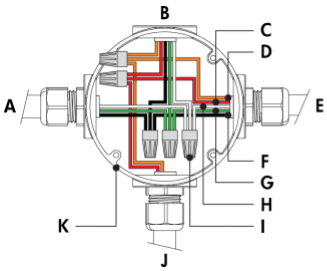
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Lumentalk enabled fixtures must be commissioned using LumentalkID software and a LID-LT. Consult factory for details.
- Maximum of 1 transmitter (Lumentranslator or Lumenlink) per system.
- No third party fixtures allowed on the same circuit.
- For DMX applications: 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.
- Consult factory for DALI Lumentalk applications.
- 1% minimum dimming value.
- 50 watts per fixture.

0-10V Dimming (DIM)



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

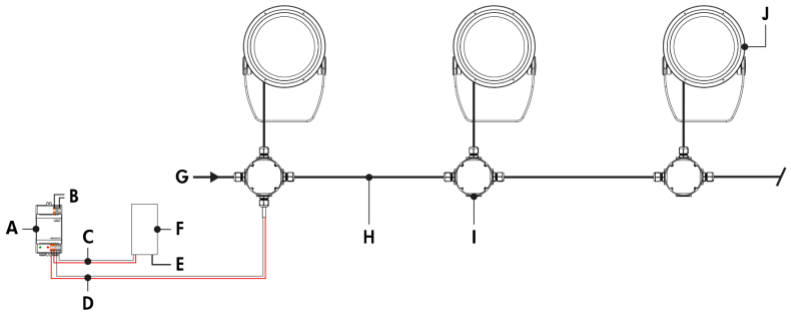
0-10V Dimming (DIM) - Wiring Detail



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)

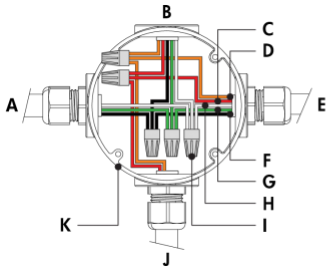
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- 0-10V mA ratings: passive dimmer (Current Sink): 3mA per fixture, active dimmer (Current Source): 0.5mA per fixture.
- 1% minimum dimming value.
- 50 watts per fixture.

DALI Dimming (DALI)



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

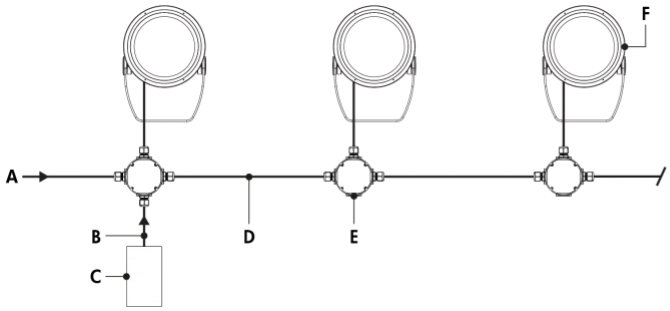
DALI Dimming (DALI) - Wiring Detail



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)

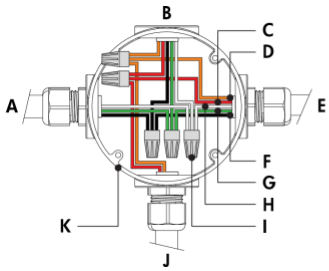
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Maximum of 64 DALI fixtures per DALI loop.
- Commissioning may be required based on the selection of 3rd party DALI controller. Controller and commissioning provided by others.
- 1% minimum dimming value.
- 50 watts per fixture.

Lutron® EcoSystem® Enabled Dimming (ES)



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

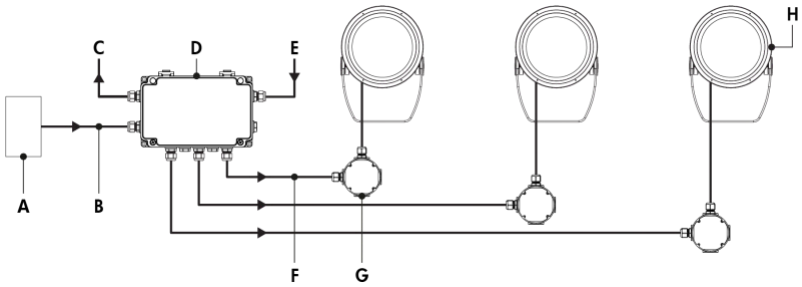
Lutron® EcoSystem® Enabled Dimming (ES) - Wiring Detail



A - Power input or from previous fixture
B - To fixture
C - Data +
D - Data -
E - To next fixture
F - Line
G - Ground
H - Neutral
I - Wire-nut (by others)
J - From Lutron® EcoSystem® controller (by others)
K - Junction box (by others)

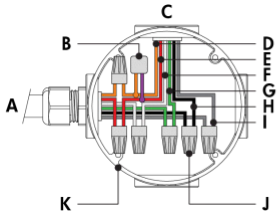
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Each Lutron® EcoSystem® enabled fixture has its own address; for the example shown, there are a total of 3 EcoSystem® addresses.
- 1% minimum dimming value.
- 50 watts per fixture.

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)

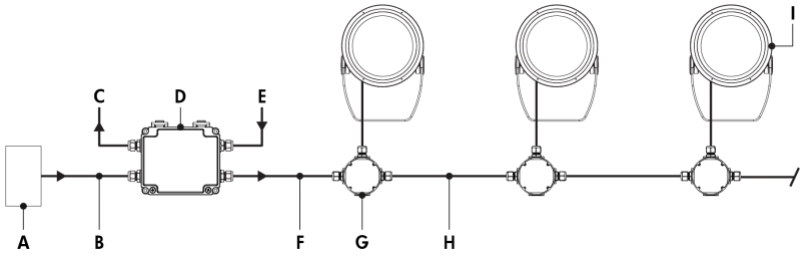
Maximum Fixture Count Per Run

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

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

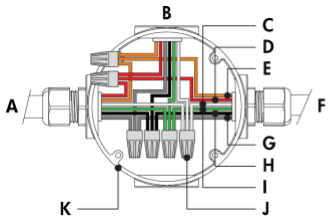
- Consult CBX installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run.
- Maximum of 4 DMX/RDM repeaters/CBX cascading in line.
- Maximum of 6 outputs per CBX-ST.
- Each fixture requires 1 DMX address.
- 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.
- 1% minimum dimming value.
- 50 watts per fixture.

Daisy Chain Layout (DMX/RDM)



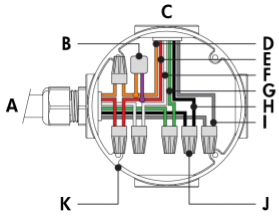
A - DMX/RDM controller (order separately from Lumenpulse, or by others)
B - Data input (Belden 9841 or equivalent, by others)
C - Data output to next CBX (optional, not isolated/not boosted)
D - CBX-DS
E - Power input (100-277V AC, wiring by others)
F - Power and data output to fixture (wiring by others)
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
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.
- Each fixture requires 1 DMX address.
- 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.
- 1% minimum dimming value.
- 50 watts per fixture.

How to Order

Housing	Voltage	Color and Color Temperature (1)	Optic	Optical Option (5) (7)	Finish	Control	Option	Certification	Cable Length (14) (18)	Cable Color	Buy America.n Act
LBL Lumenbeam™ Large	**100** 100 volts **120** 120 volts **208** 208 volts **220** 220 volts **240** 240 volts **277** 277 volts	**22K** 2200K **27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K **57K** 5700K **RD** Red (2) (3) **GR** Green (2) (3) **BL** Blue (2) (3)	**XN** Extra Narrow 3° (4) **VN** Very Narrow 6° (4) **NS** Narrow Spot 10° (4) **NF** Narrow Flood 20° (4) **M** Medium 30° (4) **FL** Flood 40° (4) **WFL** Wide Flood 60° (4) **NAS** Narrow Asymmetric (4) **WW** Asymmetric Wallwash (4)	**LSLH** Linear Spread Lens Horizontal Distribution (6) **LSLV** Linear Spread Lens Vertical Distribution (6)	**BK** Black Sandtex® **BRZ** Bronze Sandtex® **SI** Silver Sandtex® **WH** Smooth White **BKTX** Textured Black **BRZTX** Textured Bronze Non-Metallic **GRATX** Textured Medium Gray **GRNTX** Textured Green **WHTX** Textured White **CC** Custom Color & Finish (8) (9) (10)	**NO** On/Off Control **LT** Lumentalk (11) (12) **DIM** 0-10V Dimming **DALI** DALI dimming **ES** Lutron® EcoSystem® Enabled dimming (12) **DMX/RDM** DMX/RDM Enabled (13) (14)	**SY** Short Yoke **3GV** 3G ANSI C136.31-2010 Vibration Rating for Bridge Applications **CRC** Corrosion-resistant coating (15) (16)	**UL** UL Compliant **CE** CE Compliant (17) **CEII** CE compliant Class II double insulated (17)	**3FT** 3 ft (14) (18) **10FT** 10 ft **20FT** 20 ft **30FT** 30 ft **50FT** 50 ft **70FT** 70 ft **100FT** 100 ft	**BK** Black **WH** White (19)	**BAA** Buy America.n (19) (20)

Notes:

1. Consult factory for availability of static Royal Blue, Amber, 6500K and 90+ CRI.
2. Static colors made to order 8-10 weeks.
3. Not available for XN optic.
4. Factory installed, not interchangeable on site.
5. Optical options are factory installed and cannot be changed in the field.
6. Field adjustable spread lens optical accessory available, order separately.
7. Not available with WFL, NAS and WW optics.
8. 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.
9. Setup charges apply for RAL colors. Consult factory for details.
10. Longer lead times can be expected for custom RAL color finishes.
11. A Lumentranslator 2 (LTL2) and LumentalkID (LIDLT) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.
12. Not available with Class II double insulated option.
13. A control box (CBX) and LumenID (LID) must be specified.
14. Maximum of 3 ft cable length for daisy chain DMX applications with CBX-DS.
15. Use only when exposed to salt spray. This option is not required for normal outdoor exposure.
16. Setup charges apply. Consult factory for details.
17. Consult European specification sheets and installation instructions for CE and CE Class II wiring information.
18. 3 ft cable length is standard unless otherwise specified.
19. Not available with CE or CEII certification options.
20. Contact your Lumenpulse Sales Representative for more information on order volume details.