

Project Name

Qty

Type

Catalog / Part Number



Photometric Summary (Discrete HO RGBW40K)

Symmetric

	Delivered output (lm)	Intensity (peak cd)
XN (3°)	9,712	948,870
VN (6°)	10,507	610,676
NS (10°)	10,567	363,527
NF (20°)	9,418	78,396
M (30°)	8,932	40,371
FL (40°)	8,558	22,744
WFL (60°)	8,609	8,936

Asymmetric

NAS	7,745	114,798
WW	8,583	39,444

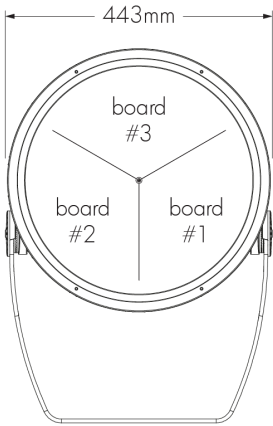
Based on HO RGBW40K full output.
Photometric performance is measured externally in compliance with IESNA LM-79-24.
Refer to Photometric Guide on Lumenpulse website for information on other color temperatures.

Photometric Summary (Opticolor+ RO MRGBWP)

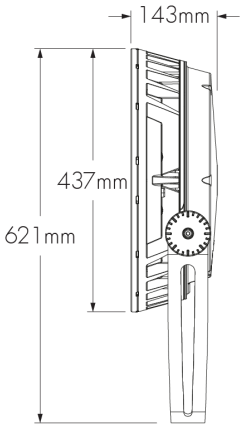
Symmetric

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

Based on RO MRGBWP full output, white set to 3000K.
Photometric performance is measured externally in compliance with IESNA LM-79-24.
Refer to Photometric Guide on Lumenpulse website for information on other color temperatures.



Front view



Side view

Description

The Lumenbeam XLarge Colour Changing is an IP66-rated luminaire for lighting landscapes, trees, columns, monuments, and architectural details. The system offers numerous options including two outputs (RO and HO), optics for flood or accent lighting; a choice of colour 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

Colours and Colour Temperature (Discrete)	RGB: RGB RGBW30K: RGB + White 3000K RGBW40K: RGB + White 4000K RGBA: RGB + Amber
Colours and Colour Temperature (Opticolor™)	MRGBA: Opticolor Cluster with MRGBA (Red, Green, Blue, Amber)
Colours and Colour Temperature (Opticolor+™)	MRGBWP: MRGBWP With Opticolor+™ (Red, Green, Blue and Configurable White 2700-6500K) MRGBWP Typical Colour Rendering: 2700K-5000K: 90+ CRI 5000K-6500K: 85+ CRI
Optics (Nominal Distribution)	XN: XN (3° or 5°) VN: VN (6°) NS: NS (10°) NF: NF (20°) M: M (30°) FL: FL (40°) WFL: WFL (60°) VWFL: VWFL (90°) NAS: NAS (Narrow Asymmetric) WW: WW (Asymmetric Wallwash)

Optical Option	LSLH: Linear Spread Lens Horizontal Distribution LSLV: Linear Spread Lens Vertical Distribution
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Photometric Summary (Opticolor RO MRGBA)

Symmetric

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

Based on RO MRGBA full output.
Photometric performance is measured externally in compliance with IESNA LM-79-24.
Refer to Photometric Guide on lumenpulse website for information on other color temperatures.

Optic



Extra
Narrow 3°
or 5°



Very
Narrow 6°



Narrow
Spot 10°



Narrow
Flood 20°



Medium
30°



Flood 40°



Wide
Flood 60°



Very Wide
Flood 90°



Narrow
Asymmetric



Asymmetric
Wallwash

Colour and Colour Temperature



RGB
Red Green Blue



30K
RGBW
Red Green Blue White



40K
RGBW
Red Green Blue White



RGBA
Red Green Blue Amber



opticolor™



opticolor+™

Control



lumen talk



DMX/RDM



DALI
T8

Ratings

IP66 IK09

Certifications



UL US



CE



RoHS



VIBRATION
RATING



5 YEARS
lumenpulse



3G
VIBRATION
RATING

Option	SY: Short Yoke SR Y: Short Rotational Yoke RY: Rotational Yoke 3GV: 3G ANSI C136.31-2010 Vibration Rating for Bridge Applications CRC: Corrosion-Resistant Coating for Hostile Environments
Cable Colour	BK: Black WH: White
Power Consumption	140 W (RO RGB, RO RGBW30K and RGBW40K versions) 145 W (RO MRGBA, RO MRGBWP versions) 205 W (HO RGB, HO RGBW30K, HO RGBW40K and HO RGBA versions)
Warranty	5-year limited warranty
Performance	
Maximum Delivered Output (Discrete)	7,765 lm (RO RGB full output, XN 5°, DMX/RDM) 7,424 lm (RO RGBW30K full output, XN 3°, DMX/RDM) 7,575 lm (RO RGBW40K full output, XN 3°, DMX/RDM) 6,189 lm (RO RGBA full output, NS XN 3°, DMX/RDM) 9,955 lm (HO RGB full output, XN 5°, DMX/RDM) 10,355 lm (HO RGBW30K full output, NS 10°, DMX/RDM) 10,567 lm (HO RGBW40K full output, NS 10°, DMX/RDM) 8,633 lm (HO RGBA full output, NS 10°, DMX/RDM)
Maximum Delivered Output (Opticolor)	7,745 lm (RO MRGBA full output, NS 10°, DMX/RDM)
Maximum Delivered Output (Opticolor+)	8,093 lm (RO MRGBWP full output, NS 10°, DMX/RDM)
Maximum Delivered Intensity (Discrete)	460,073 cd at nadir (RO RGB full output, XN 5°, DMX/RDM) 725,316 cd at nadir (RO RGBW30K full output, XN 3°, DMX/RDM) 740,119 cd at nadir (RO RGBW40K full output, XN 3°, DMX/RDM) 604,677 cd at nadir (RO RGBA full output, XN 3°, DMX/RDM) 589,837 cd at nadir (HO RGB full output, XN 5°, DMX/RDM) 929,893 cd at nadir (HO RGBW30K full output, XN 3°, DMX/RDM) 948,870 cd at nadir (HO RGBW40K full output, XN 3°, DMX/RDM) 775,227 cd at nadir (HO RGBA full output, XN 3°, DMX/RDM)
Maximum Delivered Intensity (Opticolor)	127,447 cd at nadir (RO MRGBA full output, NS 10°, DMX/RDM)
Maximum Delivered Intensity (Opticolor+)	133,173 cd at nadir (RO MRGBWP full output, NS 10°, DMX/RDM)
Illuminance at Distance (Discrete)	Minimum 1 lx at 681 m (RO RGB full output, XN 5°, DMX/RDM) Minimum 1 lx at 855 m (RO RGBW30K full output, XN 3°, DMX/RDM) Minimum 1 lx at 864 m (RO RGBW40K full output, XN 3°, DMX/RDM) Minimum 1 lx at 781 m (RO RGBA full output, XN 3°, DMX/RDM) Minimum 1 lx at 771 m (HO RGB full output, XN 5°, DMX/RDM) Minimum 1 lx at 968 m (HO RGBW30K full output, XN 3°, DMX/RDM) Minimum 1 lx at 978 m (HO RGBW40K full output, XN 3°, DMX/RDM) Minimum 1 lx at 884 m (HO RGBA full output, XN 3°, DMX/RDM)

Illuminance at Distance (Opticolor)	Minimum 1 lx at 352 m (RO MRGBA full output, NS 10°, DMX/RDM)
Illuminance at Distance (Opticolor+)	Minimum 1 lx at 365 m (RO MRGBWP full output, NS 10°, DMX/RDM)
Lumen Maintenance	L70 (15K) > 90,000 hrs Ta 25 °C (TM-21 reported) L70 > 150,000 hrs Ta 25 °C (projected)* L90 (15K) = 55,400 hrs Ta 25 °C (TM-21 reported) L90 = 55,400 hrs Ta 25 °C (projected)* *Estimated based on in-situ case temperature and LM-80 report

Physical

Housing Material	Low copper content high pressure die-cast aluminium
Yoke Material	Steel (standard yoke included)
Lens Material	Clear tempered glass
Dome Lens Material	Acrylic
Hardware Material	Stainless steel
Gasket Material	Silicone
Surface Finish	Electrostatically applied polyester powder coat
Weight	17.24 kg
EPA	Front = 0.18 m², Side = 0.04 m²

Electrical and Control

Voltage	100 to 277 volts
Fixture Cable	Power and data in one cable
Conductors	3C: 3 x 1,5 mm² (LT control) 6C: 3 x 1,5 mm²/ 3 x 0,20 mm² (DMX/RDM control) 5C: 5 x 1,5 mm² (DALI8 control)
Inrush Current (Peak)	LBX RO: 65A @230VAC LBX HO: 75A @230VAC
Control	Lumentalk, DMX/RDM Enabled, DALI 2 T8 Control
Resolution (DMX/RDM)	Per board or fixture (configured with LumenID V3 software), 8-bit or 16-bit, 3 channels (RGB) or 4 channels (MRGBA and MRGBWP)

Environmental

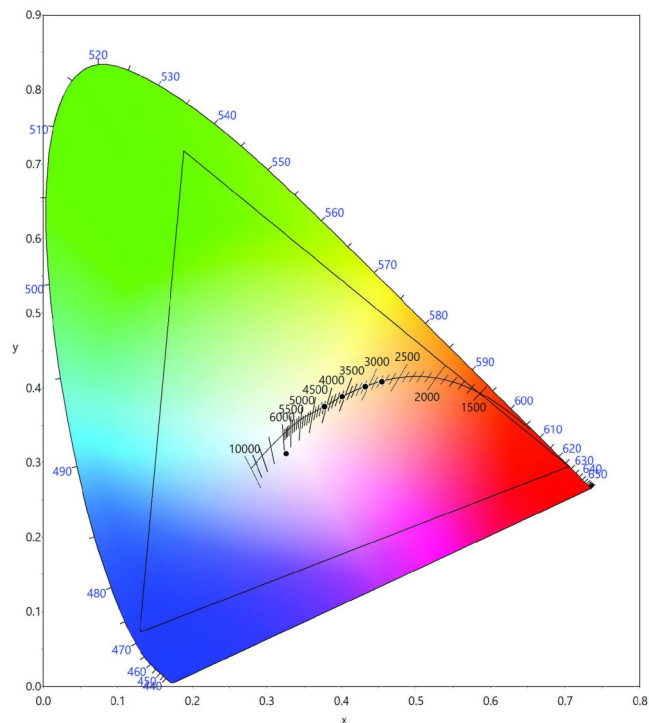
Storage Temperature	-40 °C to 70 °C (device must reach start-up temperature value before operating)
Start-up Temperature	-25 °C to 50 °C
Operating Temperature	-40 °C to 50 °C
Ingress Protection Rating	IP66
Impact Resistance Rating	IK09

Accessories (Order Separately)

Optical Accessories	Lumenbeam LBX Snoot, Lumenbeam LBX Snoot Wide, Lumenbeam LBX Visor, Lumenbeam LBX Linear Spread Lens Adjustable, Lumenbeam LBX Wire Guard, Lumenbeam LBX Dome Lens
Control Boxes	DMX/RDM enabled (Daisy Chain or Star Configuration), Ethernet enabled (Daisy Chain or Star Configuration)

Control Systems	Lumenscene™ (LSC), Pharos® Lighting Control Kit (PHAROS)
Diagnostic and Addressing Tools	LumenID (LID)

Colour Point Information

MRGBWP

Dominant Wavelength and Chromaticity

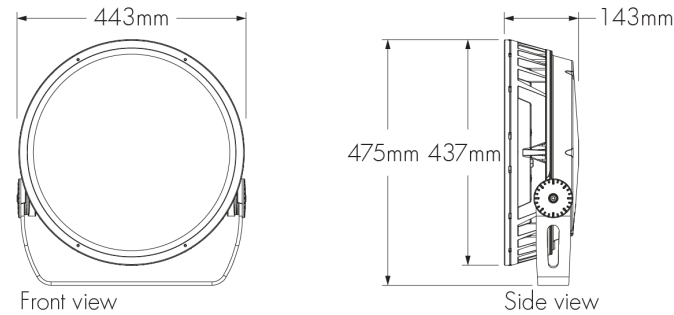
	Dominant Wavelength	Chromaticity	
		C _x	C _y
Red	~628nm	0.7050	0.2949
Green	~531nm	0.1885	0.7178
Blue	~471nm	0.1298	0.0726
Amber	~591nm	0.5755	0.4126

	Cx	Cy
MRGBWP Full On	0.3261	0.3121
27K Optidrive	0.4545	0.4081
30K Optidrive	0.4318	0.4017
35K Optidrive	0.4010	0.3883
40K Optidrive	0.3773	0.3747

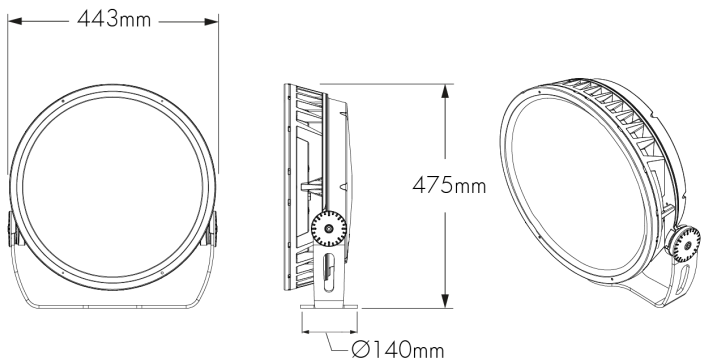
Values measured from Steady State Full on Optidrive @ 25°C ambient conditions.

Mounting Options

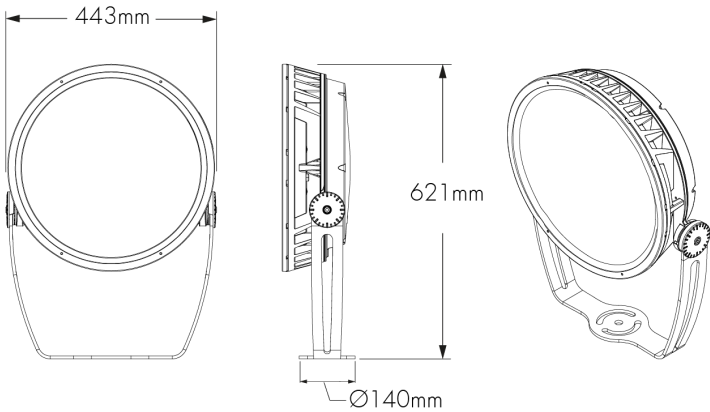
SY - Short Yoke



SRY - Short Rotational Yoke

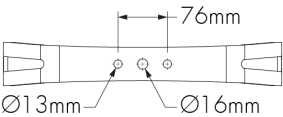


RY - Rotational Yoke



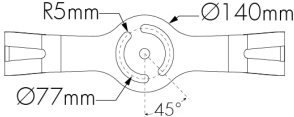
Mounting Details

Mounting Hole Pattern - Standard And Short Yoke



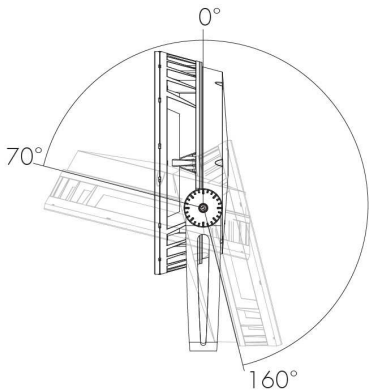
3 bolts are required for wind and vibration resistance, provided by others.

Mounting Hole Pattern - Rotational Yoke

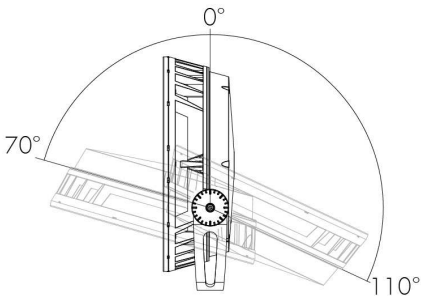


3 bolts are required for wind and vibration resistance, provided by others.

Adjustable Pivot Limits (Adjustable In 6 Degree Increments)



Standard Yoke



Short Yoke

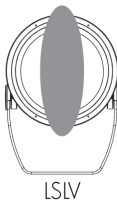
Optical Options – Discrete

LSLH - Linear Spread Lens Horizontal Distribution



LSLH - Linear spread lens horizontal distribution

LSLV - Linear Spread Lens Vertical Distribution



Beam Angles

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

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

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).

Optical Options - Opticolor™ and Opticolor+

LSLH - Linear Spread Lens Horizontal Distribution



LSLH - Linear spread lens horizontal distribution

LSLV - Linear Spread Lens Vertical Distribution



Beam Angles

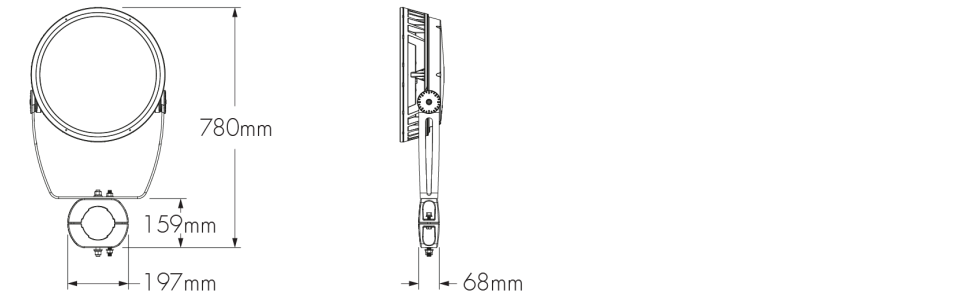
Optic installed in fixture	Beam angle with LSLH/LSLV
NS	11° x 61°
NF	19° x 66°
M	26° x 70°
FL	31° x 71°

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

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).

Mounting Accessories (Order Separately)

Round Pole Mounting Accessory



PM4 model shown.
Consult factory for square pole section.



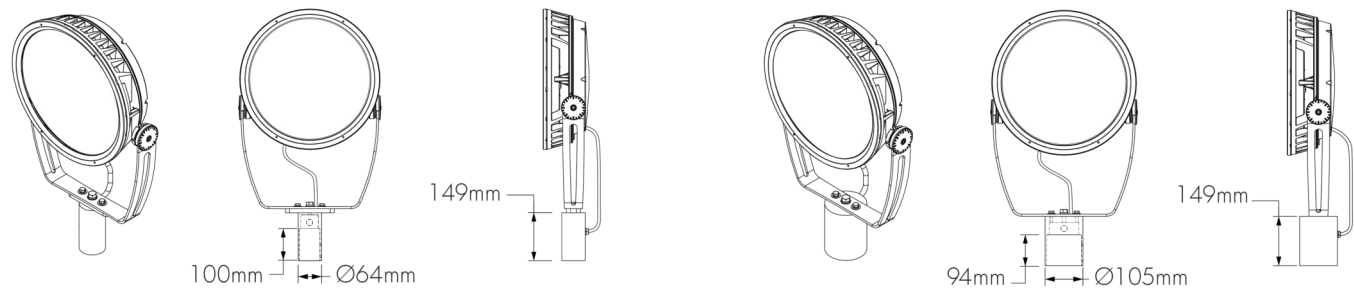
PM4-1, PM4.5-1, PM5-1 - Round pole mounting accessory - single fixture

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	101.6mm ± 1.6mm	114.3mm ± 1.6mm	127mm ± 1.6mm

Consult factory for other pole diameters.

Tenon Adapter



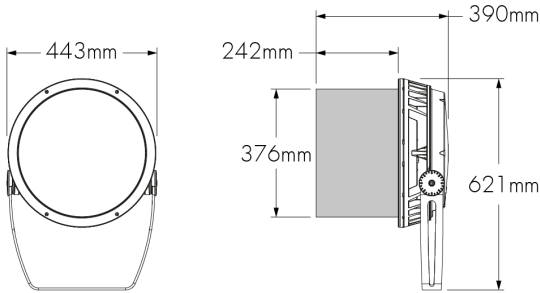
TN2 - Tenon adapter to fit on 60 mm O.D. tenon
Vertical mounting only. Consult factory for horizontal mounting.

TN4 - Tenon adapter to fit on 102 mm O.D. tenon
Vertical mounting only. Consult factory for horizontal mounting.

Optical Accessories (Order Separately)

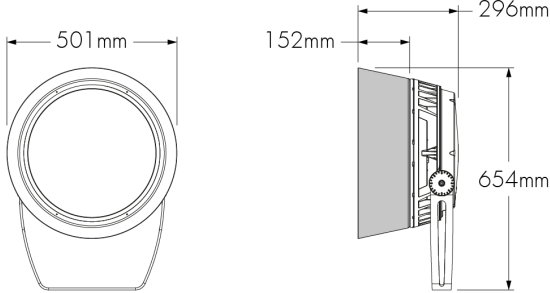
Installed optical accessories will affect the maximum pivot limits for each mounting option, consult factory for details.

SN - Snoot



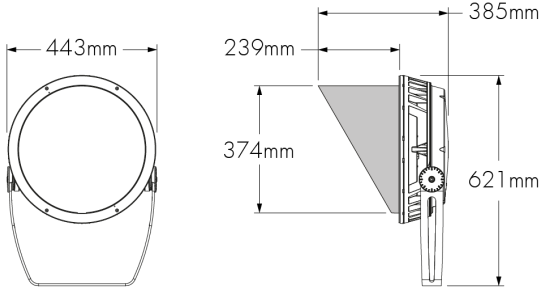
LBXSN-FINISH-BK-OPTIONS (CRC)
Interior surface painted black. Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

SNW - Snoot Wide



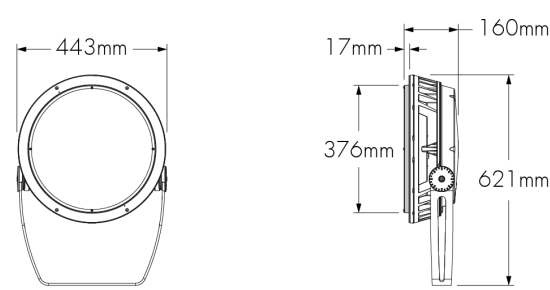
LBXSNW-FINISH-BK-OPTIONS (CRC)
Interior surface painted black. Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

VS - Visor



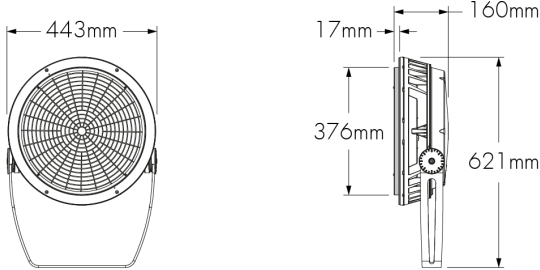
LBXVS-FINISH-BK-OPTIONS (CRC)
Interior surface painted black. Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

LSLA - Linear Spread Lens Adjustable



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

WG - Wire Guard



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

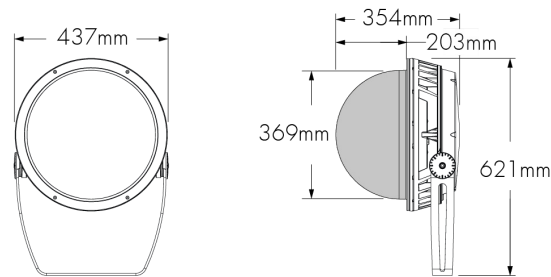
Accessory Combinations

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

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

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

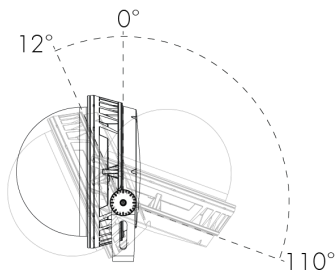
DM - Dome Lens



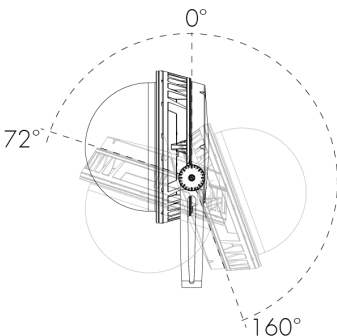
LBXDM-FINISH-OPTIONS (CRC)

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

Dome - Short Yoke - Pivot limits



Dome - Standard Yoke - Pivot limits



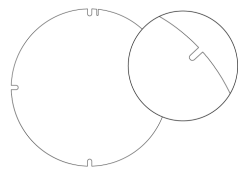
Dome Lens is available with WFL Optic only. The WFL optic must be specified for the fixture.

Dome Lens cannot be combined with other optical accessories.

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

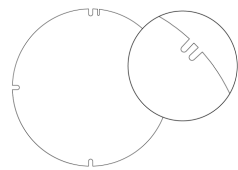
Diffuser Lenses (Intended for Mockup Purposes Only, Order Separately)

Diffuser Lens 1 (1 Notch)



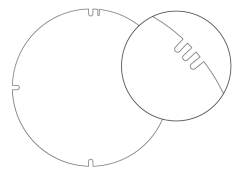
147689

Diffuser Lens 2 (2 Notches)



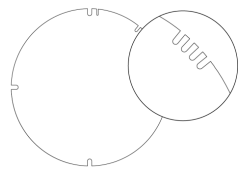
147690

Diffuser Lens 3 (3 Notches)



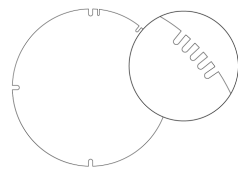
147691

Diffuser Lens 4 (4 Notches)



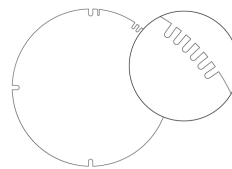
147692

Diffuser Lens 5 (5 Notches)



147693

Diffuser Lens 6 (6 Notches)



147694

Final Distribution Using Diffuser Lenses

	Final Distribution Using Diffuser Lens					
Original Distribution on Fixture	Diffuser Lens 1 1 Notch	Diffuser Lens 2 2 Notches	Diffuser Lens 3 3 Notches	Diffuser Lens 4 4 Notches	Diffuser Lens 5 5 Notches	Diffuser Lens 6 6 Notches
XN (4°/5°)	VN	NS	NF	M	FL	WFL
VN (6°)	NS					
NS (10°)						
NF (20°)						
M (30°)			FL	WFL		
FL (40°)						
WFL (60°)				VWFL		
VWFL (90°)						

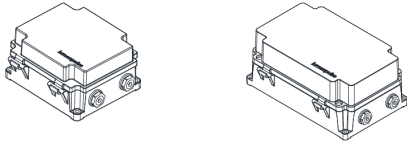
Choose a diffuser lens based on the desired final beam distribution. Refer to the 6-digit part numbers above to order diffuser lenses individually. To order a complete set of 6 diffuser lenses in a bag, refer to the following item names: **LBS:** LBALK-S **LBM/LBMP:** LBALK-M **LBL/LBLP:** LBALK-L **LBG/LBGP:**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

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

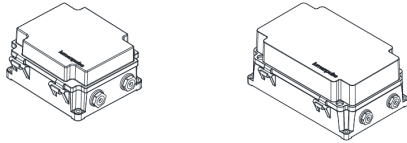
Control Boxes (Order Separately)

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.

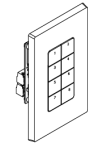
CBX-ENET - Ethernet Enabled (Daisy Chain or Star Configuration)



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.

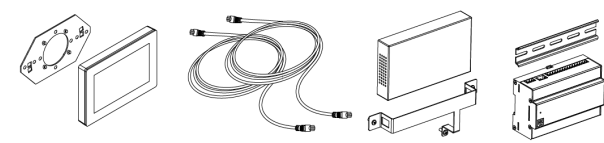
Control Systems (Order Separately)

Lumenscene



The Lumenscene, a user-friendly DMX/RDM lighting controller that includes eight preconfigured scene changes and can be programmed via RDM.

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.

EPA Guide

	LBX 	LBX with Snoot 	LBX with Visor 	LBX with Snoot Wide 	LBX with Dome Lens 
EPA front (m²)	0.179	0.179	0.179	0.278	0.179
EPA side (m²)	0.042	0.110	0.110	0.095	0.043

Resolution Details (Discrete)

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



RGB colour mixing option

RGBW30K , RGBW40K and RGBA colour mixing options

Resolution Per Fixture: Each Fixture Is Addressed Independently
DMX Addresses:



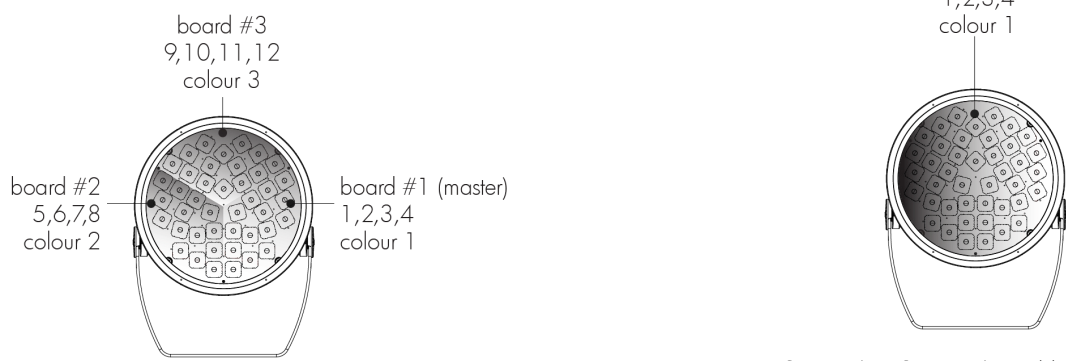
RGB colour mixing option

RGBW30K, RGBW40K and RGBA colour mixing options

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

Resolution Details (Opticolor and Opticolor+)

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



MRGBA and MRGBWP colour mixing options

MRGBA and MRGBWP colour mixing options

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

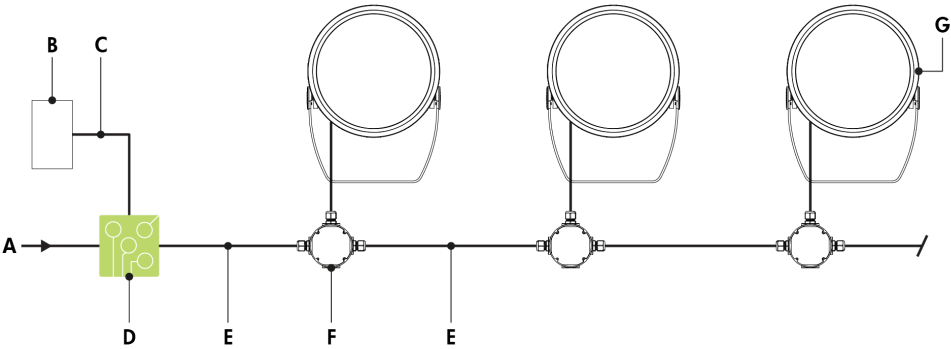
Typical Wiring Diagrams

Wiring Colour Code

CE Colour Code	USE
Yellow/Green	Ground
Brown	Line
Blue	Line/Neutral
Black or Purple	1-10V / Data +
Grey or Orange	1-10V / Data -
Grey	Signal common (DMX/RDM only)

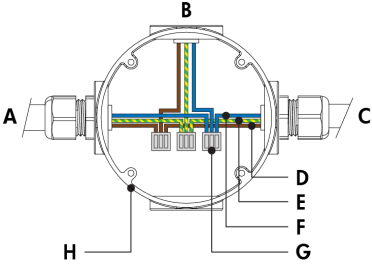
CE Class II Colour Code		USE
All other controls	DMX/RDM	
Brown	Brown	Line
Blue	Blue	Line/Neutral
Black 1	Grey	Signal common (DMX/RDM only)
Black 2	Black or Purple	1-10V / Data +
Grey	Grey or Orange	1-10V / Data -
N/A	Yellow/Green	Ground (do not connect)

Lumentalk (LT)



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

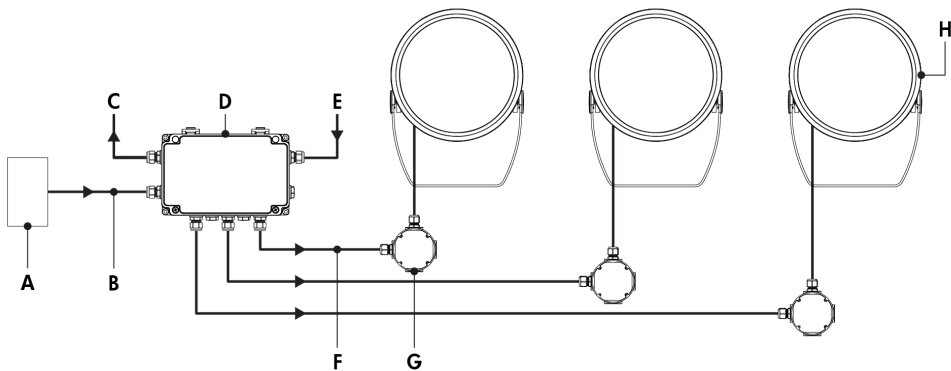
Lumentalk (LT) - Wiring Detail - CE



- 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 - Terminal connector (by others)
- H - Junction box (by others)

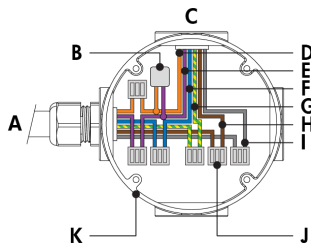
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Lumentalk enabled fixtures must be commissioned using LumentalkID software and a LID-LT. Consult factory for details.
- Maximum of 1 transmitter (Lumentranslator or Lumenlink) per system.
- No third 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 colours is 1 minute). Consult factory for applications that require additional capabilities.
- Regular Output version: 140 W per fixture (RO RGB, RO RGBW30K and RGBW40K), 145 W per fixture (RO MRGBA, RO MRGBWP).
- High Output version: 205 watts per fixture (HO RGB, HO RGBW30K, HO RGBW40K and HO RGBA).

Star Layout (DMX/RDM)



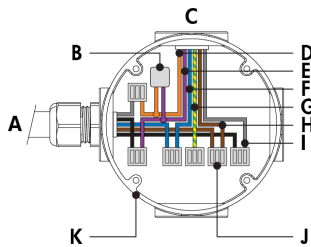
- A - DMX/RDM controller (order separately from Lumenpulse, or by others)
- B - Data input (Belden 9841 or equivalent, by others)
- C - Data output to next CBX (optional, not isolated/not boosted)
- D - CBX-ST
- E - Power input (100-277V AC, wiring by others)
- F - Power and data output to fixture (wiring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

Star Layout (DMX/RDM) - Wiring Detail - CE



- A - From CBX
- B - Lumenterminator
- C - To fixture
- D - Data -
- E - Data +
- F - Neutral
- G - Ground
- H - Line
- I - Signal common
- J - Terminal connector (by others)
- K - Junction box (by others)

Star Layout (DMX/RDM) - Wiring Detail - CE Class II



- A - From CBX
- B - Lumenterminator
- C - To fixture
- D - Data -
- E - Data +
- F - Neutral
- G - Ground (do not connect)
- H - Line
- I - Signal common
- J - Terminal connector (by others)
- K - Junction box (by others)

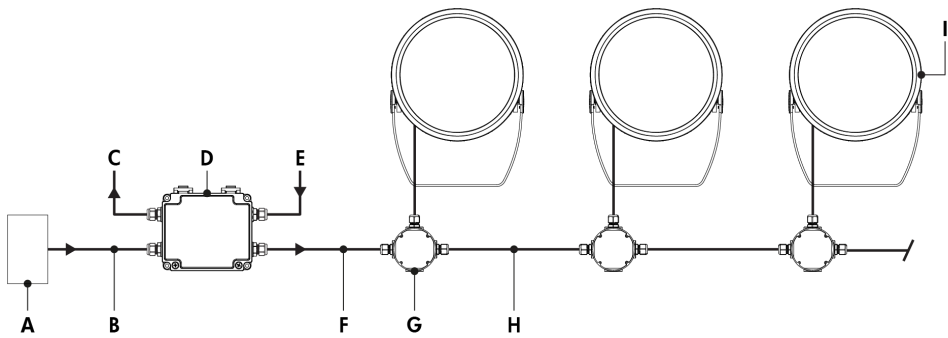
Maximum Fixture Count Per Run

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

Based on 16A maximum, 1,5 mm² cable, fixtures spaced 3 m on centre, first fixture 15 m from CBX.

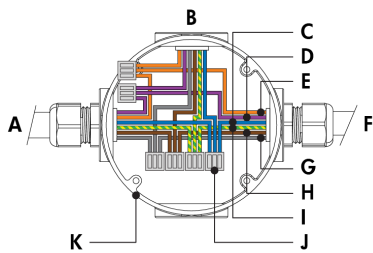
- Consult CBX installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Run length calculations are based on a voltage drop of no more than 25V.
- The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run.
- Maximum of 4 DMX/RDM repeaters/CBX cascading in line.
- Maximum of 6 outputs per CBX-ST.
- RGB colour mixture option requires 3 DMX addresses. RGBW30K and RGBW40K, RGBA, MRGBA and MRGBWP colour mixture options require 4 DMX addresses.
- DMX terminator is required at the end of each run to maintain data integrity. Six (6x) DMX lumenterminators included per CBX-ST. See installation instructions for details.
- Regular Output version: 140 W per fixture (RO RGB, RO RGBW30K and RGBW40K), 145 W per fixture (RO MRGBA, RO MRGBWP).
- High Output version: 205 watts per fixture (HO RGB, HO RGBW30K, HO RGBW40K and HO RGBA).

Daisy Chain Layout (DMX/RDM)



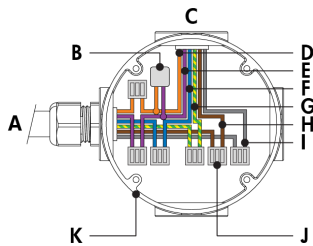
- A - DMX/RDM controller (order separately from Lumenpulse, or by others)
- B - Data input (Belden 9841 or equivalent, by others)
- C - Data output to next CBX (optional, not isolated/not boosted)
- D - CBX-DS
- E - Power input (100-277V AC, wiring by others)
- F - Power and data output to fixture (wiring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

Daisy Chain Layout (DMX/RDM) - Wiring Detail (First Or Middle Of Run) - CE



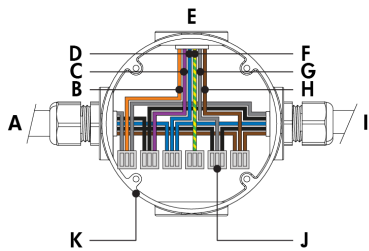
- A - From CBX or previous fixture
- B - To fixture
- C - Neutral
- D - Data +
- E - Data -
- F - To next fixture
- G - Signal common
- H - Line
- I - Ground
- J - Terminal connector (by others)
- K - Junction box (by others)

Daisy Chain Layout (DMX/RDM) - Wiring Detail (End Of Run) - CE



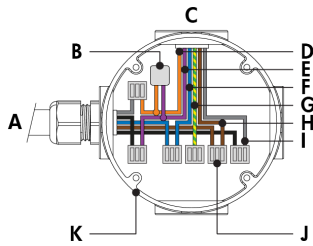
- A - From CBX or previous fixture
- B - Lumenterminator
- C - To fixture
- D - Data -
- E - Data +
- F - Neutral
- G - Ground
- H - Line
- I - Signal common
- J - Terminal connector (by others)
- K - Junction box (by others)

Daisy Chain Layout (DMX/RDM) - Wiring Detail (First or Middle of Run) - CE Class II



- A - From CBX or previous fixture
- B - Data -
- C - Data +
- D - Neutral
- E - To fixture
- F - Ground (do not connect)
- G - Signal common
- H - Line
- I - To next fixture
- J - Terminal connector (by others)
- K - Junction box (by others)

Daisy Chain Layout (DMX/RDM) - Wiring Detail (End of Run) - CE Class II



- A - From CBX
- B - Lumenterminator
- C - To fixture
- D - Data -
- E - Data +
- F - Neutral
- G - Ground (do not connect)
- H - Line
- I - Signal common
- J - Terminal connector (by others)
- K - Junction box (by others)

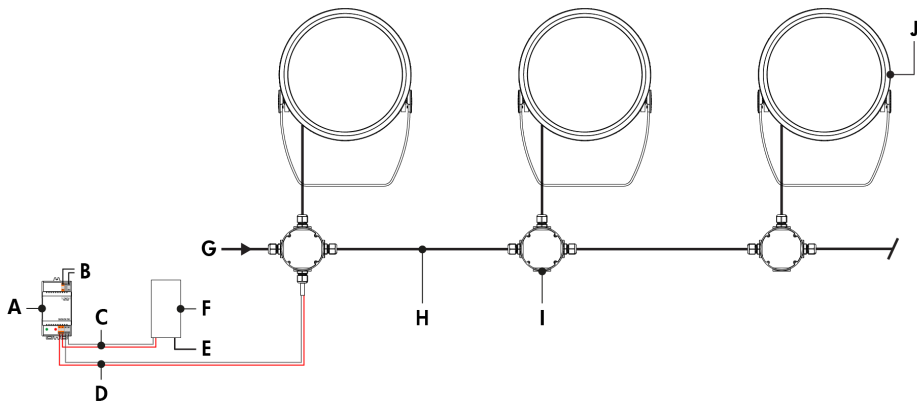
Maximum Fixture Count Per Run

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

Based on 16A maximum, 1,5 mm² cable, fixtures spaced 3 m on centre, first fixture 15 m from CBX.

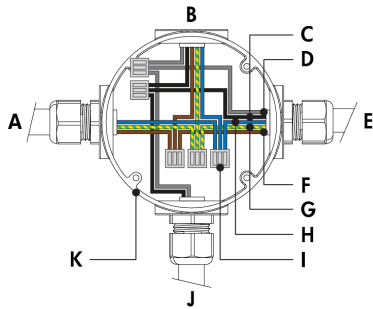
- Consult CBX installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Run length calculations are based on a voltage drop of no more than 25V.
- The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run.
- Maximum of 4 DMX/RDM repeaters/CBX cascading in line.
- Maximum of 1 output per CBX-DS.
- Maximum of 0.9 m cable length between fixture and next junction box for daisy chain layout.
- RGB colour mixture option requires 3 DMX addresses. RGBW30K and RGBW40K, RGBA, MRGBA and MRGBWP colour 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.
- Regular Output version: 140 W per fixture (RO RGB, RO RGBW30K and RGBW40K), 145 W per fixture (RO MRGBA, RO MRGBWP).
- High Output version: 205 watts per fixture (HO RGB, HO RGBW30K, HO RGBW40K and HO RGBA).

DALI 2 T8 (DALIT8)



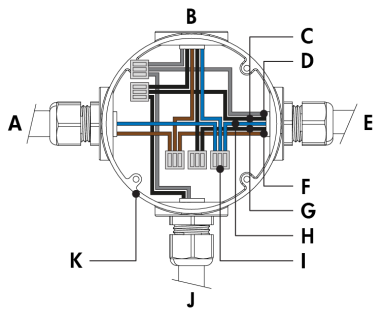
- A - DALI bus power supply (by others)
- B - Power input for DALI bus power supply (wiring by others)
- C - Data output to DALI controller (wiring by others)
- D - Data output to fixture (wiring by others)
- E - Power input for DALI controller (if required, wiring by others)
- F - DALI controller (by others)
- G - Power input (100-277V AC, wiring by others)
- H - Power and data wiring (by others)
- I - Junction box (by others)
- J - Lumenbeam LBX

DALI 2 Type 8 (DALIT8) - Wiring Detail - CE



- 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 - Terminal connector (by others)
- J - From DALI controller (by others)
- K - Junction box (by others)

DALI 2 Type 8 (DALIT8) - Wiring Detail - CE Class II



- A - Power input or from previous fixture
- B - To fixture
- C - DA + (black 2)
- D - DA -
- E - To next fixture
- F - Line
- G - Signal common (black 1)
- H - Neutral
- I - Terminal connector (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 colour controls and Tc for dim to warm and tunable white.
- Commissioning may be required based on the selection of 3rd party DALI controller. Controller and commissioning provided by others.
- Regular Output version: 140 W per fixture (RO RGB, RO RGBW30K and RGBW40K), 145 W per fixture (RO MRGBA, RO MRGBWP).
- High Output version: 205 watts per fixture (HO RGB, HO RGBW30K, HO RGBW40K and HO RGBA).

How to Order

Housing	Voltage	Colour and Colour Temperature	Optic1	Optic2	Optic3	Optical Option (15) (17)	Finish	Control	Option
LBX RO Lumenbeam™ XLarge, Regular Output, 140-145W LBX HO Lumenbeam™ XLarge, High Output, 205W (1)	100 100 Volts 120 120 Volts 208 208 Volts 220 220 Volts 240 240 Volts 277 277 Volts	RGB RGB RGBW30K RGB + White 3000K (2) RGBW40K RGB + White 4000K (2) RGBA RGB + Amber MRGBA Opticolor with MRGBA Amber (2) (3) (4) MRGBWP MRGBW With Opticolor+™ (3) (4) (5) (6) (7)	XN Extra Narrow 3° or 5° (1) (8) (9) VN Very Narrow 6° (1) (9) NS Narrow Spot 10° (9) NF Narrow Flood 20° (9) M Medium 30° (9) (10) FL Flood 40° (9) WFL Wide Flood 60° (9) (11) (12) VWFL Very Wide Flood 90° (3) (9) (11) (13) (14) NAS Narrow Asymmetric (1) (9) WW Asymmetric Wallwash (1) (9)	XN Extra Narrow 3° or 5° (1) (8) (9) VN Very Narrow 6° (1) (9) NS Narrow Spot 10° (9) NF Narrow Flood 20° (9) M Medium 30° (9) (10) FL Flood 40° (9) WFL Wide Flood 60° (9) (11) (12) VWFL Very Wide Flood 90° (3) (9) (11) (13) (14) NAS Narrow Asymmetric (1) (9) WW Asymmetric Wallwash (1) (9)	XN Extra Narrow 3° or 5° (1) (8) (9) VN Very Narrow 6° (1) (9) NS Narrow Spot 10° (9) NF Narrow Flood 20° (9) M Medium 30° (9) (10) FL Flood 40° (9) WFL Wide Flood 60° (9) (11) (12) VWFL Very Wide Flood 90° (3) (9) (11) (13) (14) NAS Narrow Asymmetric (1) (9) WW Asymmetric Wallwash (1) (9)	LSLH Linear Spread Lens Horizontal Distribution (16) LSLV Linear Spread Lens Vertical Distribution (16)	BK Black Sandtex® BRZ Bronze Sandtex® SI Silver Sandtex® WH Smooth White BKTX Textured Black BRZTX Textured Bronze Non-Metallic GRATX Textured Medium Grey GRNTX Textured Green WHTX Textured White CC Custom Colour & Finish (18) (19) (20)	LT Lumentalk (21) (22) DMX/RDM DMX/RDM Enabled (23) (24) DALIT8 DALI 2 T8 Control (7) (25)	SY Short Yoke SRY Short Rotational Yoke (26) RY Rotational Yoke (26) 3GV 3G ANSI C136.31-2010 Vibration Rating for Bridge Applications CRC Corrosion-Resistant Coating (27) (28)

Notes:

1. Not available with MRGBA and MRGBWP colour temperature options.

2. Consult factory for availability of other colour options such as Royal Blue.

3. Not available for LBX HO.

4. Not available with XN, VN, NAS and WW optics.

5. Consult factory for the availability of more colour and CCT options (e.g. royal blue).

6. Fixtures are shipped from the factory in Optidrive™ Mode. Normal Mode can be activated onsite for DMX/RDM and LT fixtures. For DMX/RDM applications, Optidrive Mode requires a LumenID, LumenID software and onsite commissioning. For LT applications, Optidrive Mode requires a LumentalkID, LumentalkID software and onsite commissioning. Additionally, with Opticolor+™ the white CCT is configurable in the field from 1800K-8000K.

7. Consult factory for DALIT8 applications with MRGBWP and a CCT other than 3000K.

8. Nominal distribution is 3° for RGBW30K, RGBW40K and RGBA colour options, and 5° for RGB.

9. Factory installed, not interchangeable on site.

10. Cannot be combined with other optics when RGB, RGBW30K, RGBW40K and RGBA colour temperatures are specified.

11. Cannot be combined with other optics.

12. A dome lens accessory is available, order separately. For compatibility, a WFL optic must be specified for the fixture.

13. Available with MRGBA and MRGBWP colour temperature options only.

14. Consult factory for photometric performance.
15. Optical options are factory installed and cannot be changed in the field.

16. Field adjustable spread lens optical accessory available, order separately.

17. Not available with WFL, VWFL, NAS and WW optics.

18. Lumenpulse offers a wide selection of RAL CLASSIC (K7) colours with a smooth texture and high-gloss finish. Please consult factory for a list of available K7 colours, other RAL textures and glosses, or to match alternate colour charts. Final colour matching results may vary.

19. Setup charges apply for RAL colours. Consult factory for details.

20. Longer lead times can be expected for custom RAL colour finishes.

21. A Lumentranslator 2 (LTL2) and LumentalkID (LIDL2) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.

22. Not available with Class II double insulated option.

23. A control box (CBX) and LumenID (LID) must be specified.

24. Maximum of 1 m cable length for daisy chain DMX applications with CBX-DS.

25. DALI 2 T8 controller required, provided by others. DALI2 T8 control uses a single DALI short address.

26. Consult factory for applications with 3GV requirements.

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

28. Setup charges apply. Consult factory for details.

How to Order

Certification	Cable Length (24) (30)	Cable Colour
UL UL Compliant (29)	1M 1 m (24) (30)	BK Black
CE CE Compliant	5M 5 m	WH White (31)
CEII CE Compliant Class II Double Insulated	10M 10 m	
	15M 15 m	
	20M 20 m	
	30M 30 m	

- Notes:**
24. Maximum of 1 m cable length for daisy chain DMX applications with CBX-DS.
29. Consult North American specification sheets and installation instructions for UL wiring information.
30. 1 m cable length is standard unless otherwise specified.
31. Not available with CE or CEII certification options.