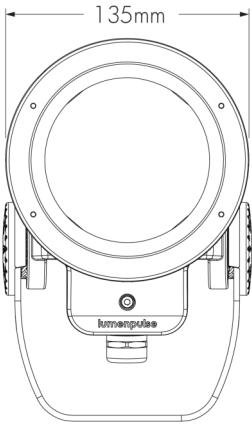


Project Name

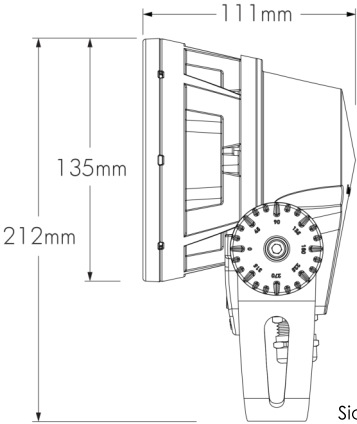
Qty

Type

Catalog / Part Number



Front view



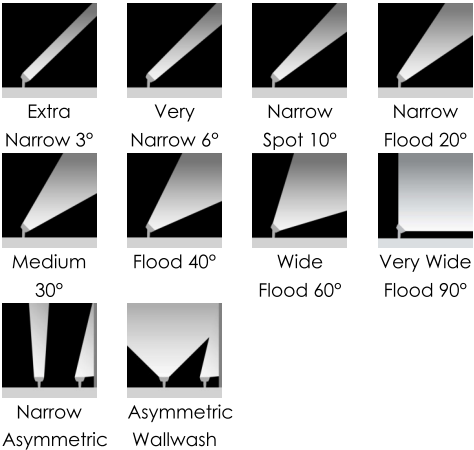
Side view

Photometric Summary

Symmetric		
	Delivered output (lm)	Intensity (peak cd)
XN (3°)	1,342	186,978
VN (6°)	906	47,949
NS (10°)	1,419	20,764
NF (20°)	1,238	12,472
M (30°)	1,297	7,185
FL (40°)	1,163	2,960
WFL (60°)	977	762
Asymmetric		
NAS	947	14,011 (@2.5°)
WW	1,106	3,013 (@5°)

Based on 4000K configuration.
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



Description

The Lumenbeam Small is a compact, 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 colour temperatures and colours, 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

Colour and Colour Temperature	22K: 2200K, 27K: 2700K, 30K: 3000K, 35K: 3500K, 40K: 4000K, 57K: 5700K, RD: Red, GR: Green, BL: Blue
Optics (Nominal Distribution)	XN: XN (3°), 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
Mounting Option	SK: Stake Mounting, KN: Knuckle Mounting, CN: Canopy Mounting Option (for Mounting on a Standard Round Junction Box)
Option	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	14 W
Warranty	5-year limited warranty
Performance	
Maximum Delivered Output	1,419 lm (4000K, NS 10°)
Maximum Delivered Intensity	186,978 cd at nadir (4000K, XN 3°)
Illuminance at Distance	Minimum 1 lx at 434 m (4000K, XN 3°)
Colour Consistency	3 SDCM
Colour Rendering	Minimum CRI 80

Colour and Colour Temperature

2200K

2700K

3000K

3500K

4000K

5700K

Red

Green

Blue

Control

ON/OFF

1-10V

DALI

DMX/RDM

Ratings

IP66 IK07

Certifications

UL

us

CE

RoHS

5 YEARS

lumenpulse

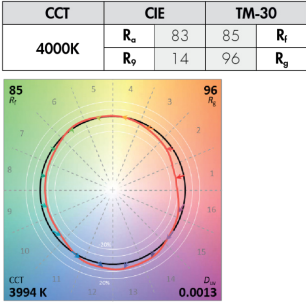
3G

VIBRATION RATING

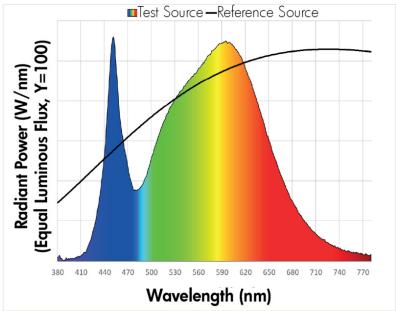
Lumen Maintenance	L70 B50 > 250,000 hrs (Ta 25 °C) (> 80,000 hrs for XN 3°, VN 6°, NAS optics only) L80 B10 100,000 hrs (Ta 25 °C)
Physical	
Housing Material	Low copper content high pressure die-cast aluminium
Yoke Material	Heavy aluminium
Lens Material	Clear tempered glass
Hardware Material	Stainless steel
Gasket Material	Silicone
Surface Finish	Electrostatically applied polyester powder coat
Weight	2.36 kg
EPA	Front = 0.02 m², Side = 0.01 m²
Electrical and Control	
Voltage	100 to 277 volts
Fixture Cable	Power and data in one cable
Conductors	3C: 3 x 1,5 mm² (NO control) 5C: 5 x 1,5 mm² (DIM, DALI control) 6C: 3 x 1,5 mm²/ 3 x 0,20 mm² (DMX/RDM control)
Inrush Current (Peak)	55A @230VAC
Control	On/Off Control, 1-10V Dimming, DALI Dimming, DMX/RDM Enabled, Lumentalk system is enabled with LDB accessory - see typical wiring diagrams for details
Resolution (DMX/RDM)	Per fixture, 8-bit or 16-bit
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	IK07
Accessories (Order Separately)	
Optical Accessories	Lumenbeam Small Snoot, Lumenbeam Small Visor, Lumenbeam Small Linear Spread Lens Adjustable, Lumenbeam Small Wire Guard, Lumenbeam Small Dome Lens
Control Boxes	DMX/RDM enabled (Daisy Chain or Star Configuration), Ethernet enabled (Daisy Chain or Star Configuration), Lumentalk Data Bridge
Control Systems	Lumenscene™ (LSC), Pharos® Lighting Control Kit (PHAROS)
Diagnostic and Addressing Tools	LumenID (LID)

Chromaticity Data

TM-30 - 4000K

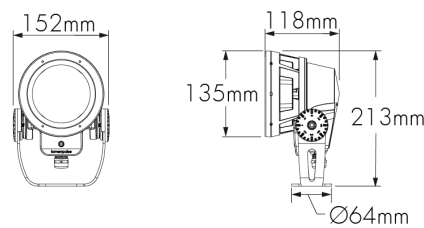


Spectral Power Distribution



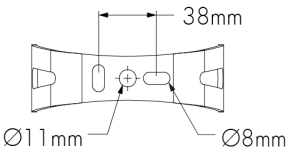
Mounting Options

RY - Rotational Yoke



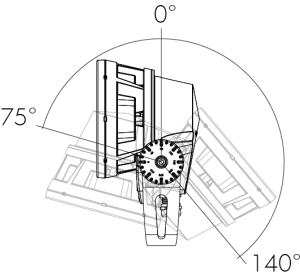
Mounting Details

Mounting Hole Pattern - Standard Yoke

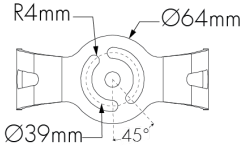


3 bolts are required for wind and vibration resistance, provided by others.

Adjustable Pivot Limits



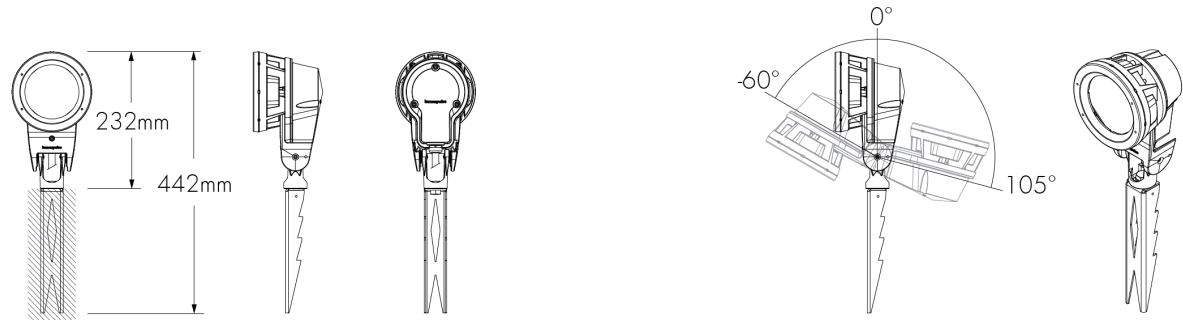
Mounting Hole Pattern - Rotational Yoke



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

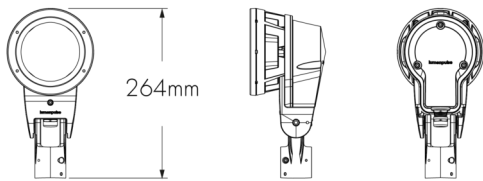
Mounting Options

SK - Stake Mounting

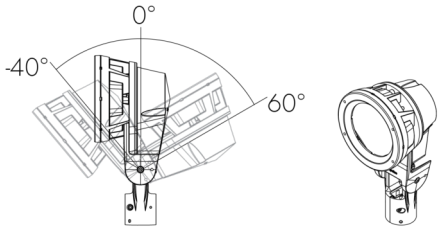


Adjustable Pivot Limits

KN - Knuckle Mounting

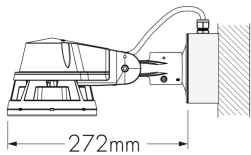


Suitable for 13 mm, 19 mm, and 25 mm pipe diameter

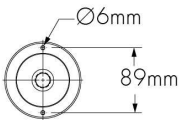


Adjustable Pivot Limits

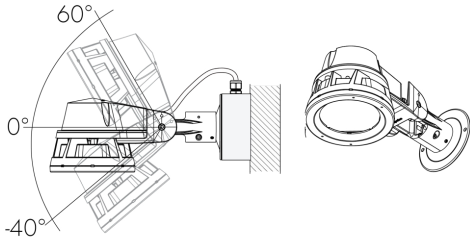
CN - Canopy Cover



Suitable for standard round junction boxes, surface mounted



Mounting Hole Pattern



Adjustable Pivot Limits

Optical Options

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	7° x 60°
NS	13° x 66°
NF	16° x 62°
M	23° x 65°
FL	33° x 70°

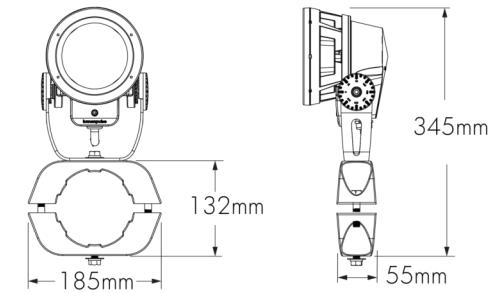
LLF: 0.88*

*LLF may vary slightly by distribution chosen.

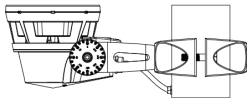
Factory installed, not adjustable on site. Not available for WFL, VWFL, NAS and WW optics.
See 'Optical Accessories' section for field adjustable spread lens (LSLA).

Mounting Accessories (Order Separately)

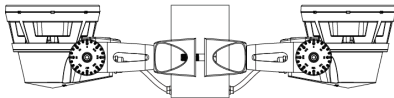
Round Pole Mounting Accessory



PM4 model shown.
Consult factory for square pole section.



PM4-1, PM4.5-1, PM5-1 - Round Pole Mounting Accessory - Single Fixture

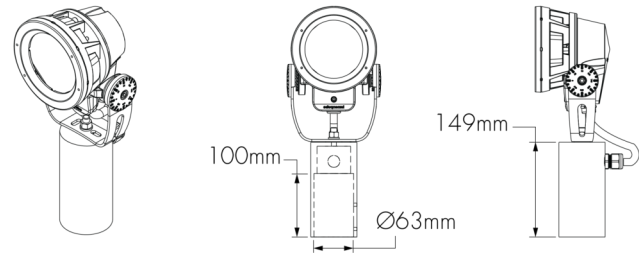


PM4-2, PM4.5-2, PM5-2 - Round Pole Mounting Accessory - Twin Fixtures
*One bracket assembly is supplied per 2 fixtures unless otherwise specified.

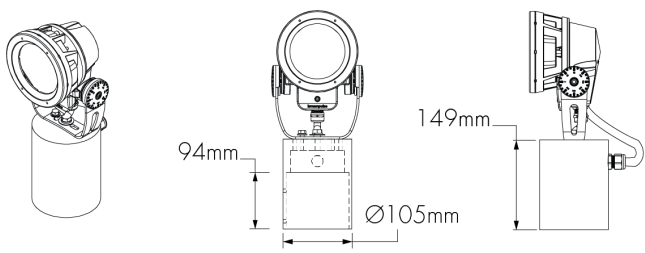
	PM4	PM4.5	PM5
For pole Ø	101.6mm ± 1.6mm	114.3mm ± 1.6mm	127mm ± 1.6mm

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

LBSSN-**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

LBSVS-**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

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

WG - Wire Guard

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

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

DM - Dome Lens

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

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.

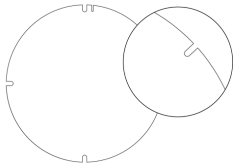
Accessory Combinations

	+	Snoot	Visor
Linear spread lens adjustable		LBSSNLSLA	LBSVLSLA
Wire guard		LBSSNWWG	LBSVSWG

Accessory combinations must be ordered together on a single line. A maximum of two accessories can be combined per fixture. Ex: A snoot + wire guard combination order code is LBSSNWWG-FINISH-BK-OPTIONS.

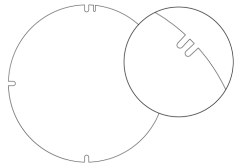
Diffuser Lenses (Intended for Mockup Purposes Only, Order Separately)

Diffuser Lens 1 (1 Notch)



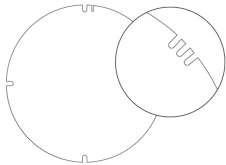
147665

Diffuser Lens 2 (2 Notches)



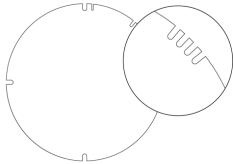
147666

Diffuser Lens 3 (3 Notches)



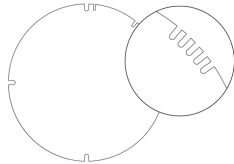
147667

Diffuser Lens 4 (4 Notches)



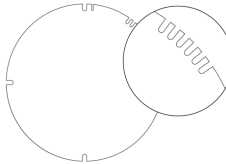
147668

Diffuser Lens 5 (5 Notches)



147669

Diffuser Lens 6 (6 Notches)



147670

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°)						

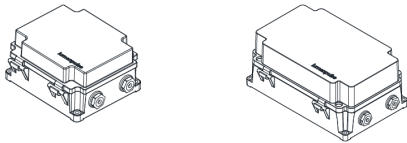
Choose a diffuser lens based on the desired final beam distribution. Refer to the 6-digit part numbers above to order diffuser lenses individually. To order a complete set of 6 diffuser lenses in a bag, refer to the following item names: **LBS**: LBALK-S **LBM/LBMP**: LBALK-M **LBL/LBLP**: LBALK-L **LBG/LBGP**: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

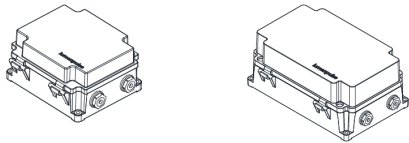
Control Boxes (Order Separately)

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



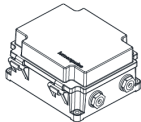
DMX/RDM control box. Up to six power and data outputs to fixtures or fixture runs. Consult CBX specification sheet and installation instructions for details. Lumenterminators provided with CBX (2x for daisy chain configuration, 6x for star configuration), consult factory to order spares.

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.

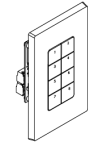
LDB - Lumentalk Data Bridge



Lumentalk Data Bridge, 1-10V or DMX output. Consult LDB specification sheet for details.

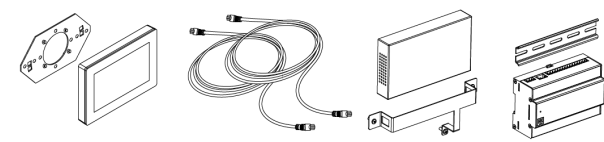
Control Systems (Order Separately)

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

	LBS	LBS with Snoot	LBS with Visor	LBS with Dome Lens
EPA front (m²)	0.017	0.017	0.017	0.017
EPA side (m²)	0.010	0.017	0.016	0.004

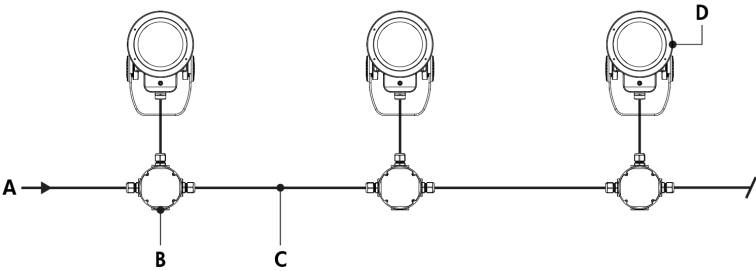
Typical Wiring Diagrams

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)

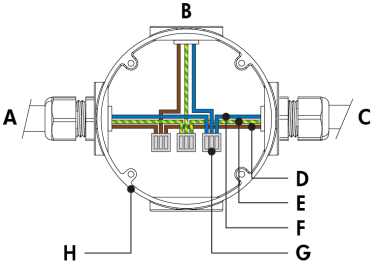
CE Class II Colour Code		USE
All other controls	DMX/RDM	
Brown	Brown	Line
Blue	Blue	Line/Neutral
Black 1	Grey	Signal common (DMX/RDM only)
Black 2	Black or Purple	1-10V / Data +
Grey	Grey or Orange	1-10V / Data -
N/A	Yellow/Green	Ground (do not connect)

On/Off Control (NO)



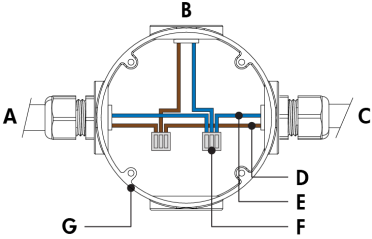
- A - Power input (100-277V AC, wiring by others)
- B - Junction box (by others)
- C - Power wiring (by others)
- D - Lumenbeam Small

On/Off Control (NO) - Wiring Detail - CE



- A - Power input 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)

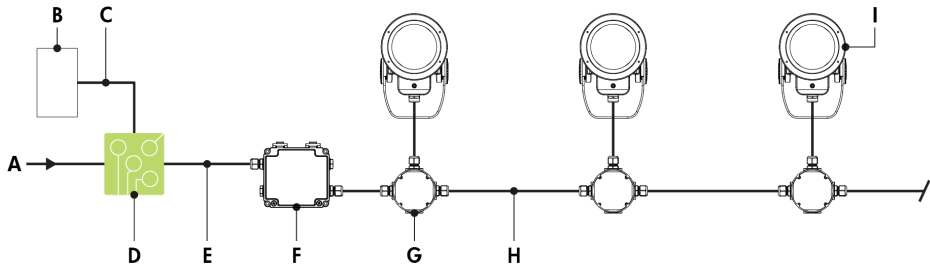
On/Off Control (NO) - Wiring Detail - CE Class II



- A - Power input or from previous fixture
- B - To fixture
- C - To next fixture
- D - Line
- E - Line/Neutral
- F - Terminal connector (by others)
- G - Junction box (by others)

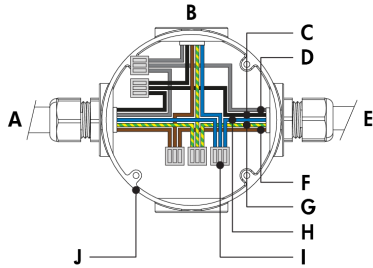
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- 14 watts per fixture.

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** - Lumentalk Data Bridge (LDB-DIM or LDB-DMX)
- G** - Junction box (by others)
- H** - Power and data wiring (by others)
- I** - Lumenbeam Small

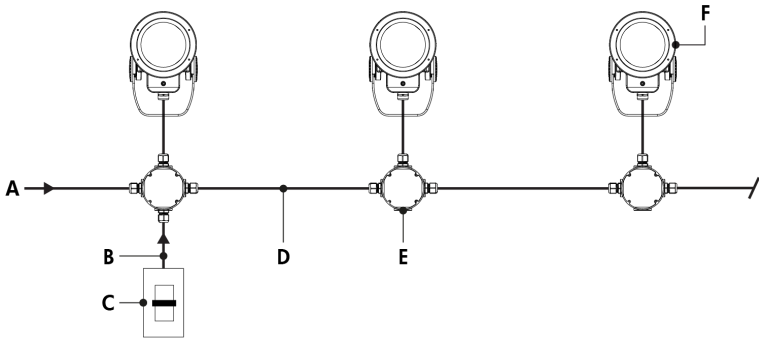
Lumentalk (LT) - Wiring Detail Using LDB



- A** - From Lumentalk Data Bridge (control over power line via Lumentalk system) or from previous fixture
- B** - To fixture
- C** - 1-10 V + / Data +
- D** - 1-10 V - / Data -
- E** - To next fixture
- F** - Line
- G** - Ground
- H** - Line/Neutral
- I** - Terminal connector (by others)
- J** - Junction box (by others)

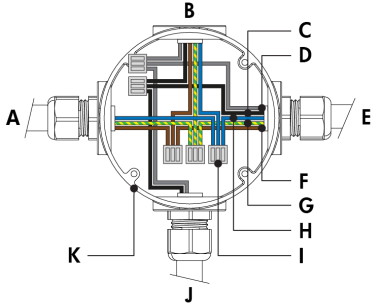
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Lumentalk Data Bridge required for Lumentalk system, see LDB installation instructions for details.
- For applications with all fixtures controlled as 1 zone: fixtures and Lumentalk Data Bridge must be specified as DIM. Maximum of 10 fixtures per LDB-DIM, consult factory for applications that require additional capabilities.
- For applications with fixtures controlled individually: fixtures and Lumentalk Data Bridge must be specified as DMX, 2-step commissioning process: 1 - DMX/RDM system using LumenID software and a LID, 2 - Lumentalk system using LumentalkID software and a LID-LT. Maximum of 32 fixtures per LDB-DMX. Consult factory for details.
- 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 colours is 1 minute). Consult factory for applications that require additional capabilities.
- Maximum of 1 transmitter (Lumentranslator or Lumenlink) per system.
- No third party fixtures allowed on the same circuit.
- Consult factory for DALI Lumentalk applications.
- 1% minimum dimming value.
- 14 watts per fixture.

1-10V Dimming (DIM)



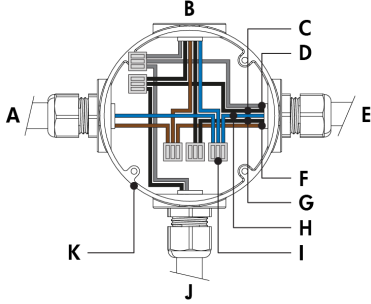
- A - Power input (100-277V AC, wiring by others)
- B - Data wiring (by others)
- C - Dimmer (by others)
- D - Power and data wiring (by others)
- E - Junction box (by others)
- F - Lumenbeam Small

1-10V Dimming (DIM) - Wiring Detail - CE



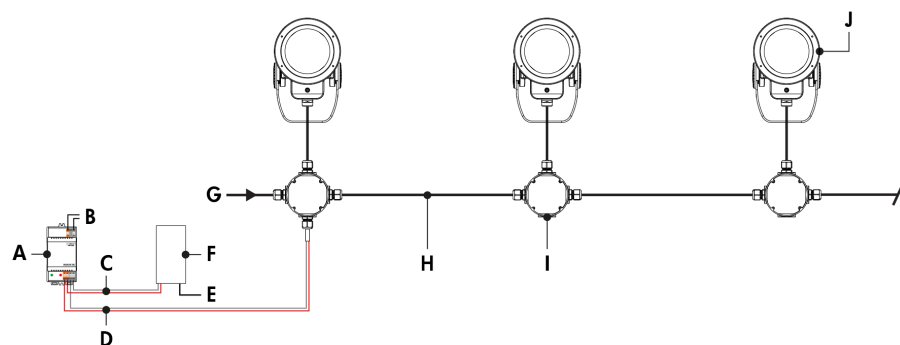
- A - Power input or from previous fixture
- B - To fixture
- C - 1-10 V +
- D - 1-10 V -
- E - To next fixture
- F - Line
- G - Ground
- H - Neutral
- I - Terminal connector (by others)
- J - From dimmer (by others)
- K - Junction box (by others)

1-10V Dimming (DIM) - Wiring Detail - CE Class II



- A - Power input or from previous fixture
- B - To fixture
- C - 1-10 V + (black 2)
- D - 1-10 V -
- E - To next fixture
- F - Line
- G - Signal common (black 1)
- H - Neutral
- I - Terminal connector (by others)
- J - From dimmer (by others)
- K - Junction box (by others)

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



- 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 Small

A schematic diagram of a four-way valve assembly. The diagram shows a central valve body with four ports: A (top left), E (top right), J (bottom), and K (bottom left). The valve is controlled by a lever or actuator at the top, labeled B. The internal passages are color-coded: blue for the top port (B), red for the bottom port (J), green for the left port (A), and yellow for the right port (E). The diagram is labeled with letters A through K, corresponding to the following components: A (top left port), B (top actuator/lever), C (top right port), D (top right internal passage), E (top right port), F (top right internal passage), G (top right internal passage), H (top right internal passage), I (top right internal passage), J (bottom port), K (bottom left port), and L (bottom left internal passage).

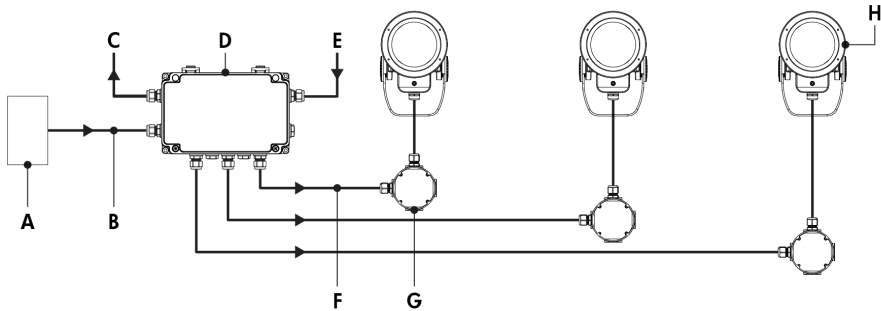
- A** - Power input or from previous fixture
- B** - To fixture
- C** - DA +
- D** - DA -
- E** - To next fixture
- F** - Line
- G** - Ground
- H** - Neutral
- I** - Terminal connector (by others)
- J** - From DALI controller (by others)
- K** - Junction box (by others)

A schematic diagram of a four-way valve assembly. The diagram shows a circular valve body with four ports: A (top left), B (top), E (top right), and J (bottom). Inside the valve, there are two sets of internal passages, one in blue and one in black. Labels A through K point to various components: A is the top left port; B is the top port; C is the top right port; D is the top right internal passage; E is the top right port; F is the bottom right internal passage; G is the bottom right port; H is the bottom right internal passage; I is the bottom right port; J is the bottom port; K is the bottom left internal passage.

- 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)

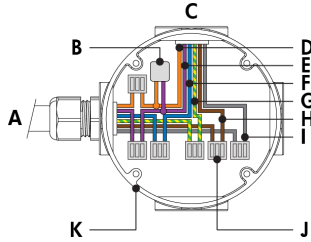
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Maximum of 64 DALI fixtures per DALI loop.
- Commissioning may be required based on the selection of 3rd party DALI controller. Controller and commissioning provided by others.
- 1% minimum dimming value.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

Star Layout (DMX/RDM)



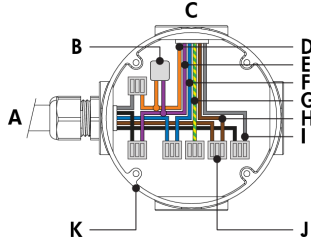
- A - DMX/RDM controller (order separately from Lumenpulse, or by others)
- B - Data input (Belden 9841 or equivalent, by others)
- C - Data output to next CBX (optional, not isolated/not boosted)
- D - CBX-ST
- E - Power input (100-277V AC, wiring by others)
- F - Power and data output to fixture (by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

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)

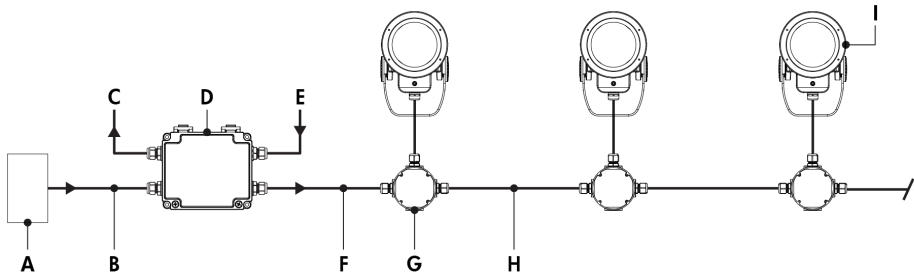
Maximum Fixture Count Per Run

Configuration/Voltage	120V	208V	240V	277V
LBS	32	32	32	32

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

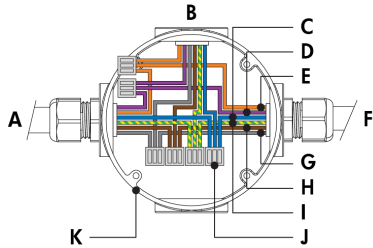
- Consult CBX installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Run length calculations are based on a voltage drop of no more than 25V.
- The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run.
- Maximum of 4 DMX/RDM repeaters/CBX cascading in line.
- Maximum of 6 outputs per CBX-ST.
- 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.
- 14 watts per fixture.

Daisy Chain Layout (DMX/RDM)



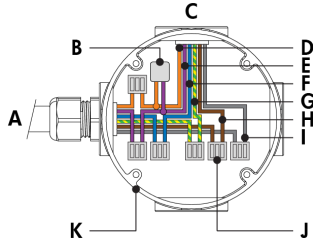
- A** - DMX/RDM controller (order separately from Lumenpulse, or by others)
- B** - Data input (Belden 9841 or equivalent, by others)
- C** - Data output to next CBX (optional, not isolated/not boosted)
- D** - CBX-DS
- E** - Power input (100-277V AC, wiring by others)
- F** - Power and data output to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

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



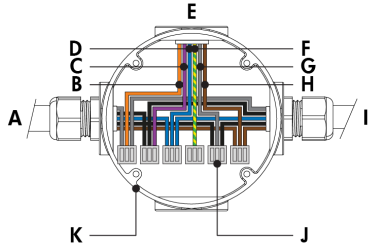
- A** - From CBX or previous fixture
- B** - To fixture
- C** - Neutral
- D** - Data +
- E** - Data -
- F** - To next fixture
- G** - Signal common
- H** - Line
- I** - Ground
- J** - Terminal connector (by others)
- K** - Junction box (by others)

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



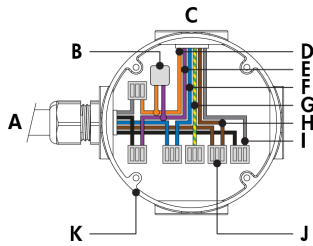
- A** - From CBX or previous fixture
- B** - Lumenterminator
- C** - To fixture
- D** - Data -
- E** - Data +
- F** - Neutral
- G** - Ground
- H** - Line
- I** - Signal common
- J** - Terminal connector (by others)
- K** - Junction box (by others)

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
LBS	32	32	32	32

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.
- 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.
- 14 watts per fixture.

How to Order

Housing	Voltage	Colour and Colour Temperature ⁽¹⁾	Optic	Optical Option ^{(7) (9)}	Finish	Control ^{(13) (14)}	Mounting Option ⁽¹⁷⁾	Option	Certification	Cable Length ^{(16) (24)}	Cable Colour
LBS Lumenbeam™ Small	100 100 Volts	22K 2200K	XN Extra Narrow 3° ⁽⁴⁾	LSLH Linear Spread Lens Horizontal Distribution ⁽⁸⁾	BK Black Sandtex®	NO On/Off Control	SK Stake Mounting	RY Rotational Yoke ⁽¹⁸⁾	UL UL Compliant ⁽²²⁾	1M 1 m ^{(16) (24)}	BK Black
	120 120 Volts	27K 2700K	VN Very Narrow 6° ⁽⁴⁾	BRZ Bronze Sandtex®	DIM 1-10V Dimming	KN Knuckle Mounting	3GV 3G ANSI C136.31-2010 Vibration Rating for Bridge Applications ⁽¹⁹⁾	CE CE Compliant ⁽²³⁾	5M 5 m	WH White ⁽²⁵⁾	
	208 208 Volts	30K 3000K	NS Narrow Spot 10° ⁽⁴⁾	LSLV Linear Spread Lens Vertical Distribution ⁽⁸⁾	SI Silver Sandtex®	DALI DALI Dimming	CN Canopy Mounting Option	CEII CE Compliant Class II Double Insulated	10M 10 m		
	220 220 Volts	35K 3500K	NF Narrow Flood 20° ⁽⁴⁾	WH Smooth White	DMX/RDM DMX/RDM Enabled ^{(15) (16)}			CRC Corrosion-Resistant Coating ^{(20) (21)}	15M 15 m		
	240 240 Volts	40K 4000K	M Medium 30° ⁽⁴⁾	BKTX Textured Black					20M 20 m		
	277 277 Volts	57K 5700K	FL Flood 40° ⁽⁴⁾	BRZTX Textured Bronze Non-Metallic					30M 30 m		
		RD Red ^{(2) (3)}	WFL Wide Flood 60° ^{(4) (5)}	GRATX Textured Medium Grey							
		GR Green ^{(2) (3)}	VWFL Very Wide Flood 90° ^{(4) (6)}	GRNTX Textured Green							
		BL Blue ^{(2) (3)}	NAS Narrow Asymmetric ⁽⁴⁾	WHTX Textured White							
			WW Asymmetric Wallwash ⁽⁴⁾	CC Custom Colour & Finish ^{(10) (11) (12)}							

Notes:

1. Consult factory for availability of static Royal Blue, Amber, 6500K and 90+ CRI.

2. Static colours made to order 8-10 weeks.

3. Not available for XN optic.

4. Factory installed, not interchangeable on site.

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

6. Consult factory for photometric performance.

7. Optical options are factory installed and cannot be changed in the field.

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

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

10. 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.

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

12. Longer lead times can be expected for custom RAL colour finishes.
13. Lumentalk system is enabled with LDB accessory. DIM or DMX/RDM must be specified in the order code. See the typical wiring diagrams in the specification sheet for details.

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

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

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

17. The standard yoke is provided unless an alternate mounting option is specified as part of the order code.

18. Consult factory for applications with 3GV requirements.

19. 3GV option is available for standard yoke mounting only.

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

21. Setup charges apply. Consult factory for details.

22. Consult North American specification sheets and installation instructions for UL wiring information.

23. Not available with DALI control option.

24. 1 m cable length is standard unless otherwise specified.

25. Not available with CE or CEII certification options.