Specification Sheet

Project Name _____ **Qty** _____

Type _____ **Catalog / Part Number** _____

212mm

122mm

185mm

271mm

Front view

Side view
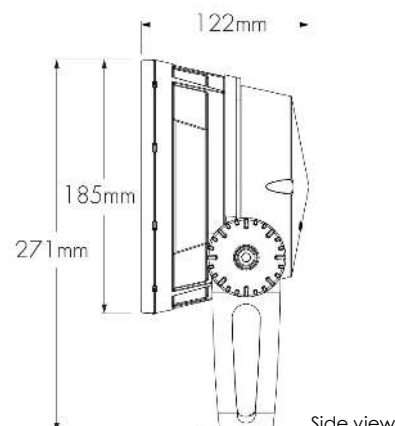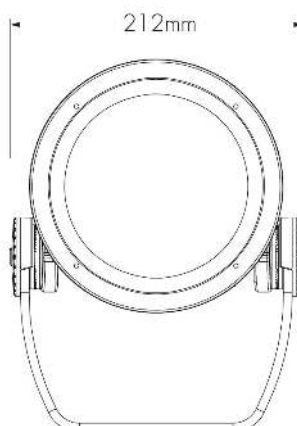
Photometric Summary

Symmetric

	Delivered output (lm)	Intensity (peak cd)
VN (6°)	1,429	69,938
NS (10°)	1,394	49,827
NF (20°)	1,283	10,349
M (30°)	1,233	5,700
FL (40°)	1,176	3,182
WFL (60°)	1,038	811

Asymmetric

NAS	1,311	20,946 (@2.5°)
WW	1,173	5,343 (@5°)

Based on RGBW40K full output, DMX/RDM configuration. Photometric performance is measured in compliance with IESNA LM-79-08.

Optics

VN - 6° NS - 10° NF - 20° M - 30°

FL - 40° WFL - 60° NAS WW
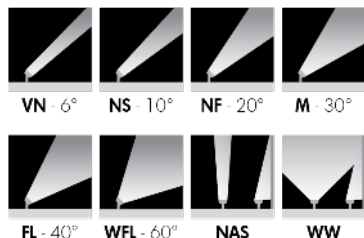
Colours and Colour Temperatures

R GB (Red Green Blue) R GBW 30K (Red Green Blue White) R GBW 40K (Red Green Blue White) R GBA (Red Green Blue Amber)

Controls

DMX rdm DALI T8

Ratings

IP66 IK09

Description

The Lumenbeam Medium Colour Changing is an IP66-rated luminaire for lighting landscapes, trees, columns, monuments, and architectural details. The system offers numerous options including optics for flood or accent lighting, a choice of RGB, RGBW or RGBA colour mixing, various accessories, spread lenses, and controls, as well as Legacy or Custom output modes.

Features

Colour and Colour Temperature	RGB, RGB + white 3000K, RGB + white 4000K, RGB + amber
Optics (nominal distribution)	VN (6°), NS (10°), NF (20°), M (30°), FL (40°), WFL (60°), NAS (Narrow Asymmetric), WW (Asymmetric Wallwash)
Optical Option	Linear spread lens horizontal distribution, Linear spread lens vertical distribution
Options	Short Yoke, 3G ANSI C136.31-2010 Vibration Rating for bridge applications, Corrosion-resistant coating for hostile environments
Cable Colour	Black, White
Power Consumption	28 W
Warranty	5-year limited warranty

Performance

Maximum Delivered Output	1,452 lm (RGB full output, VN 6°, DMX/RDM), 1,400 lm (RGBW30K full output, VN 6°, DMX/RDM), 1,429 lm (RGBW40K full output, VN 6°, DMX/RDM), 1,181 lm (RGBA full output, VN 6°, DMX/RDM)
Maximum Delivered Intensity	69,699 cd at nadir (RGB full output, VN 6°, DMX/RDM), 68,539 cd at nadir (RGBW30K full output, VN 6°, DMX/RDM), 69,938 cd at nadir (RGBW40K full output, VN 6°, DMX/RDM), 56,671 cd at nadir (RGBA full output, VN 6°, DMX/RDM)
Illuminance at Distance	Minimum 1 lx at 264 m (RGB full output, VN 6°, DMX/RDM), Minimum 1 lx at 262 m (RGBW30K full output, VN 6°, DMX/RDM), Minimum 1 fc at 80.5 m (RGBW40K full output, VN 6°, DMX/RDM), Minimum 1 lx at 264 m (RGBW40K full output, VN 6°, DMX/RDM), Minimum 1 lx at 238 m (RGBA full output, VN 6°, DMX/RDM)
Lumen Maintenance	L70 B50 120,000 hrs (Ta 25 °C), L80 B10 100,000 hrs (Ta 25 °C)

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1 / 14

Certifications

Physical

Housing Material	Low copper content high pressure die-cast aluminium
Yoke Material	Heavy aluminium (standard yoke included)
Lens Material	Clear tempered glass
Hardware Material	Stainless steel
Gasket Material	Silicone
Surface Finish	Electrostatically applied polyester powder coat
Weight	3.04 kg
EPA	Front = 0.04 sq m, Side = 0.02 sq m

Electrical and control

|	
Voltage	100 to 277 volts
Fixture Cable	Power and data in one cable
Conductors	6C: 3 x 1,5 mm^2/ 3 x 0,20 mm^2 (DMX/RDM control), 5C: 5 x 1,5 mm^2 (DALIT8 control)
Inrush Current (peak)	21A @230VAC (RGB), 75A @230VAC (RGBW, RGBA)
Control	DMX/RDM enabled, DALI-2 dimming Type 8, Lumentalk system is enabled with LDB accessory - see typical wiring diagrams for details
Resolution (DMX/RDM)	Per fixture, 8-bit or 16-bit, 3 channels (RGB) or 4 channels (RGBW30K, RGBW40K and RGBA)
RGB Colour Mixing	18 LEDs (6x Red, 6x Green, 6x Blue)
RGBW30K Colour Mixing	16 LEDs (4x Red, 4x Green, 4x Blue, 4x White 3000K)
RGBW40K Colour Mixing	16 LEDs (4x Red, 4x Green, 4x Blue, 4x White 4000K)
RGBA Colour Mixing	16 LEDs (4x Red, 4x Green, 4x Blue, 4x Amber)

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 Medium Snoot, Lumenbeam Medium Snoot wide, Lumenbeam Medium Visor, Lumenbeam Medium Linear spread lens adjustable, Lumenbeam Medium Wire guard
Control Boxes	DMX/RDM enabled (daisy chain or star configuration), Ethernet enabled (daisy chain or star configuration), Lumentalk Data Bridge
Control Systems	Pharos® kit (PHAROS)
Diagnostic and Addressing Tools	LumenID (LID), LumentalkID

Mounting options

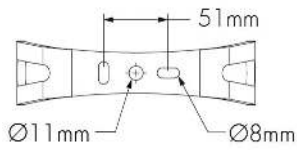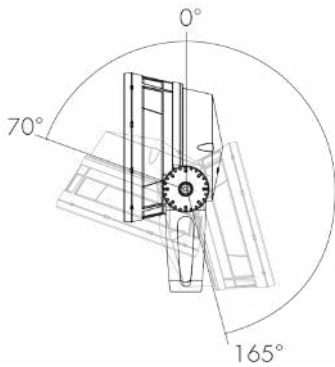**SY - Short yoke**
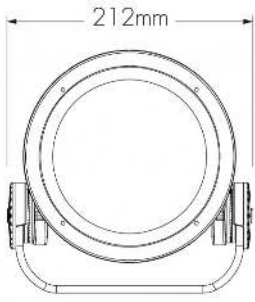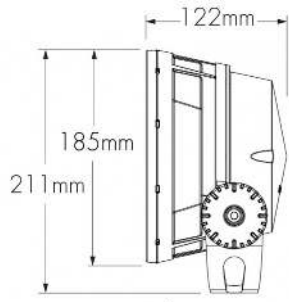
Front view   Side view
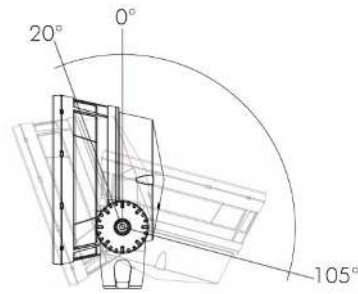
Mounting details

Mounting hole pattern - standard and short yoke

Adjustable pivot limits

Standard yoke

Short yoke

Optical options

LSLH - Linear spread lens horizontal distribution

LSLH - Linear spread lens horizontal distribution

LSLV - Linear spread lens vertical distribution

Beam angles

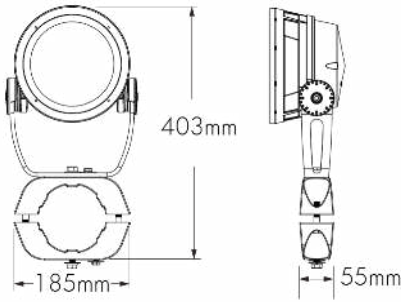| Optic installed in fixture	Beam angle with LSLH/LSLV
VN	7° x 60°
NS	13° x 66°
NF	16° x 62°
M	23° x 65°
FL	33° x 70°

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

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

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3 / 14

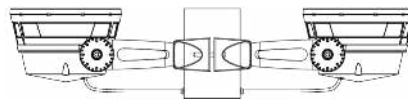## Mounting accessories (order separately)

Round pole mounting accessory

PM4 model shown.
Consult factory for square pole section.
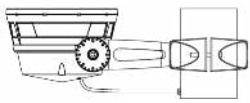
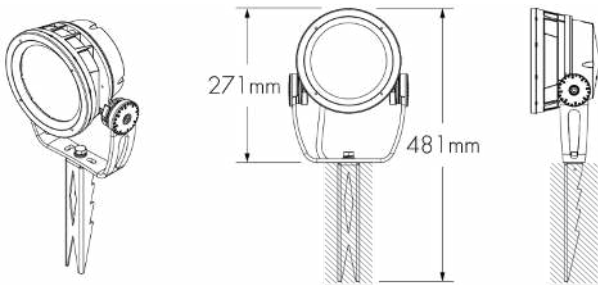**PM4-1, PM4.5-1, PM5-1 -** Round pole mounting accessory - single fixture

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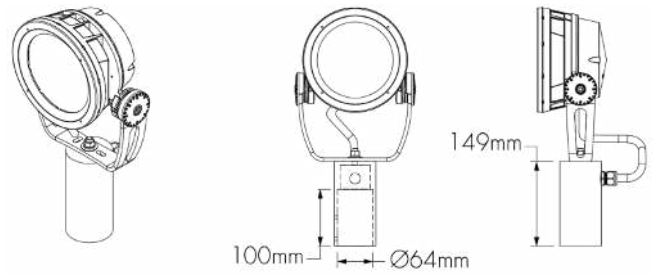*One bracket assembly is supplied per 2 fixtures unless otherwise specified.

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

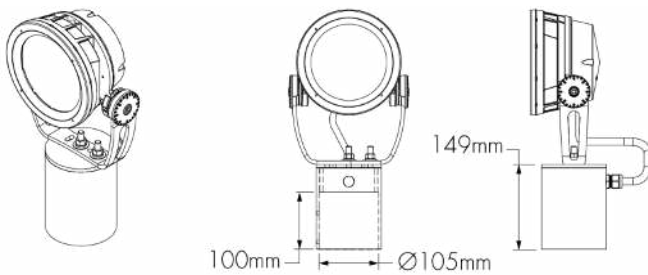Consult factory for other pole diameters.

SK - Stake mounting

Tenon adapter

TN2 - Tenon adapter to fit on 60 mm O.D. tenon

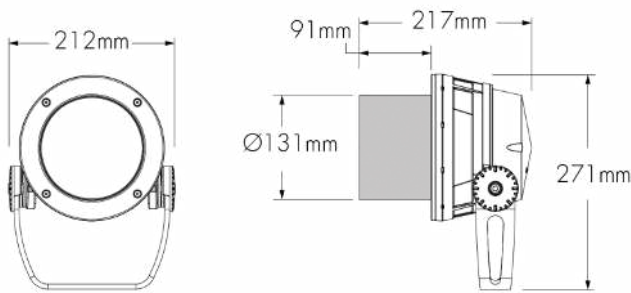Vertical mounting only. Consult factory for horizontal mounting.

TN4 - Tenon adpater to fit on 102 mm O.D. tenon

Vertical mounting only. Consult factory for horizontal mounting.
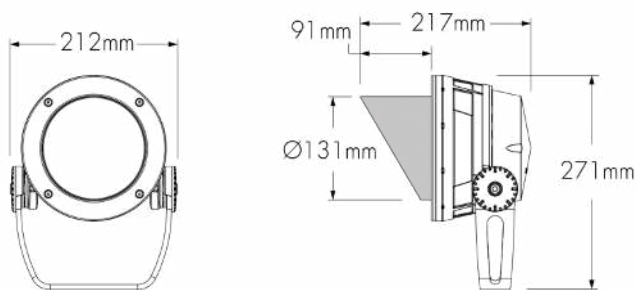
Optical accessories (order separately)

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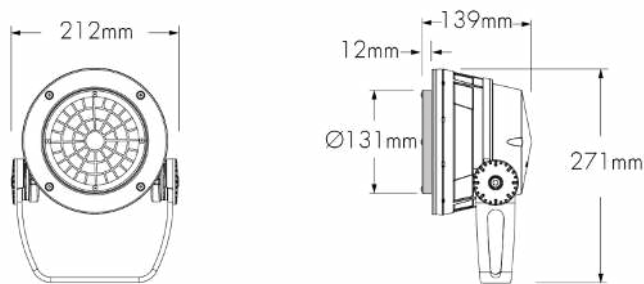
SN - Snoot

LBMSN-**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

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

WG - Wire guard

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

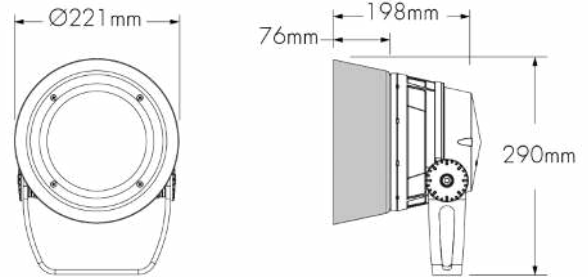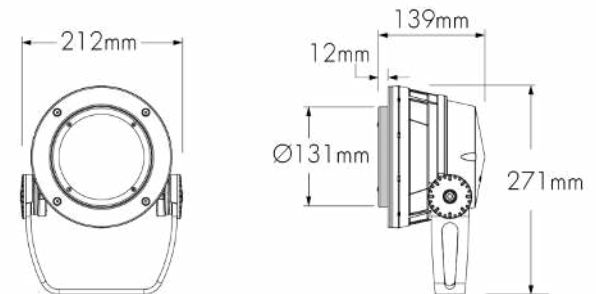**SNW - Snoot wide**

LBMSNW-**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

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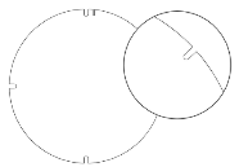Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

Accessory combinations

+	Snoot	Snoot wide	Visor
Linear spread lens adjustable	LBMSNLSLA	N/A*	LBMVSLSLA
Wire guard	LBMSNWG	N/A	LBMVSWG

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

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5 / 14

Diffuser lenses (intended for mockup purposes only, order separately)

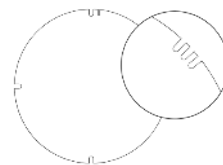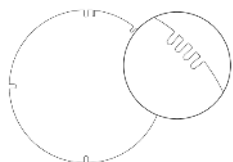**Diffuser lens 1 (1 notch)**

147671

Diffuser lens 2 (2 notches)
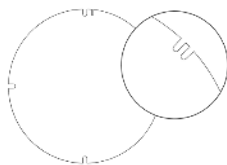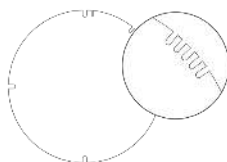
147672

Diffuser lens 3 (3 notches)

147673

Diffuser lens 4 (4 notches)

147674

Diffuser lens 5 (5 notches)

147675

Diffuser lens 6 (6 notches)

Symétrique

	Données préliminaires	
	Lumens délivrés (lm)	Intensité lumineuse (cd)
NS (10°)	1700	23 954
NF (20°)	1690	12 601
M (30°)	1711	7307
FL (40°)	1711	4155
WFL (60°)	1705	1616

Basé sur la configuration MRGBW40K à 100%, DMX/RDM.
La performance photométrique est mesurée conformément à
IESNA LM-79-08.

147676

Final distribution using diffuser lenses

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

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.

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Control boxes (order separately)

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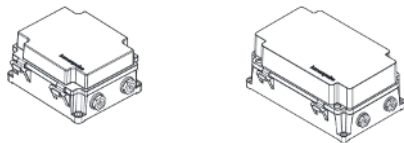
DMX/RDM control box. Up to six power and data outputs to fixtures or fixture runs. Consult CBX specification sheet and installation instructions for details. Lumenterminators provided with CBX (2x for daisy chain configuration, 6x for star configuration), consult factory to order spares.

CBX-ENET - Ethernet enabled (daisy chain or star configuration)
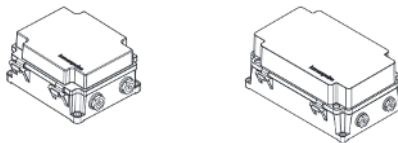
Ethernet control box. Up to four power and data outputs to fixture or fixture runs. Consult Ethernet CBX specification sheet and installation instructions for details.
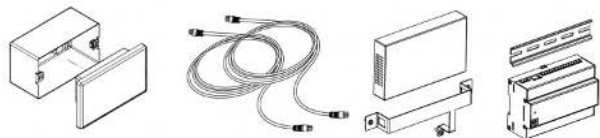
LDB - Lumentalk Data Bridge
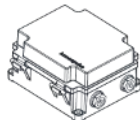
Lumentalk Data Bridge, 1-10V or DMX output. Consult LDB specification sheet for details.

Control systems (order separately)

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

	LBM	**LBM with snoot**	**LBM with visor**	**LBM with snoot wide**
EPA front (m²)	0.041	0.041	0.041	0.054
EPA side (m²)	0.017	0.029	0.029	0.028

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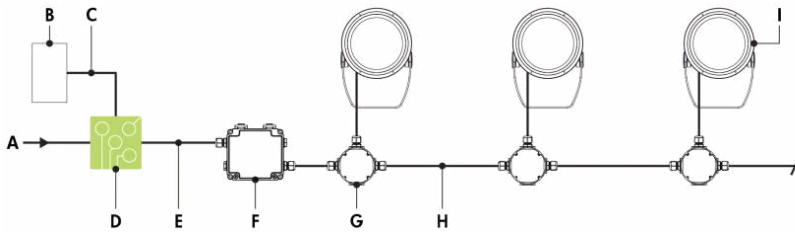
A - Power input (100-277V AC, wiring by others)
B - DMX/RDM controller (order separately from Lumenpulse, or by others)
C - Data wiring (by others)
D - Lumentranslator 2 (LTL2-DMX)
E - Power wiring (by others)
F - Lumentalk Data Bridge (LDB-DMX)
G - Junction box (by others)
H - Power and data wiring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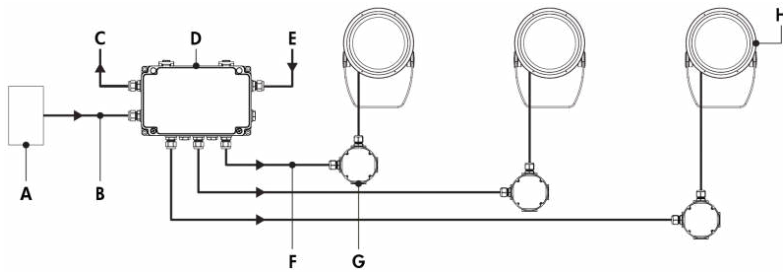I - Lumenbeam Medium

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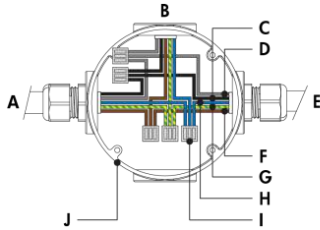
A - From Lumentalk Data Bridge (control over power line via Lumentalk system) or from previous fixture
B - To fixture
C - 1-10 V + / Data +
D - 1-10 V - / Data -
E - To next fixture
F - Line
G - Ground
H - Line/Neutral
I - Terminal connector (by others)
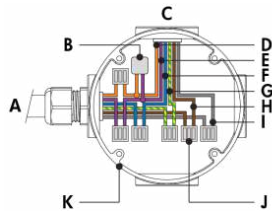J - Junction box (by others)

- 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. Fixtures must be specified as DMX/RDM and the 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. Consult factory for details.
- Maximum of 32 fixtures per LDB-DMX. Consult factory for details.
- 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.
- 28 watts per fixture.

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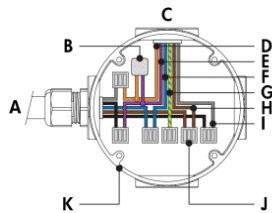EM - R34

9 / 14

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 Medium

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
LBM	29	32	32	32

Based on 16A maximum, 1,5 mm^2 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 colour mixture options require 4 DMX addresses. RGBA colour mixture option requires 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.
- 28 watts per fixture.
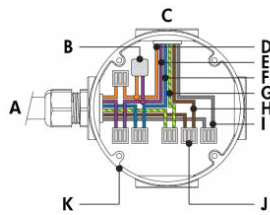
Daisy Chain Layout (DMX/RDM)
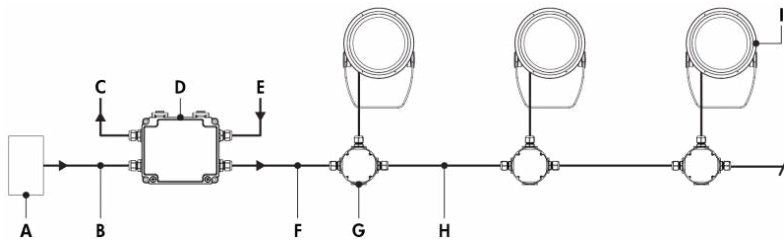
A - DMX/RDM controller (order separately from Lumenpulse, or by others)
B - Data input (Belden 9841 or equivalent, by others)
C - Data output to next CBX (optional, not isolated/not boosted)
D - CBX-DS
E - Power input (100-277V AC, wiring by others)
F - Power and data output to fixture (wiring by others)
G - Junction box (by others)
H - Power and data wiring (by others)
I - Lumenbeam Medium

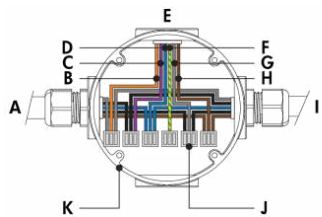**Daisy Chain Layout (DMX/RDM) - wiring detail (first or middle of run) - CE**
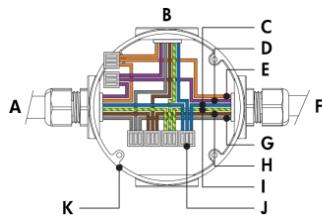
A - From CBX or previous fixture
B - To fixture
C - Neutral
D - Data +
E - Data -
F - To next fixture
G - Signal common
H - Line
I - Ground
J - Terminal connector (by others)
K - Junction box (by others)

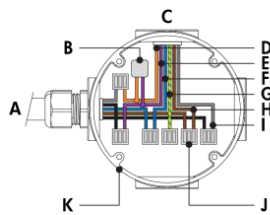**Daisy Chain Layout (DMX/RDM) - wiring detail (end of run) - CE**

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/RDM1 or 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/RDM1 or 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
LBM	29	32	32	32

Based on 16A maximum, 1,5 mm^2 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 colour mixture options require 4 DMX addresses. RGBA colour mixture option requires 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.
- 28 watts per fixture.

DALI-2 dimming Type 8 (DALIT8)
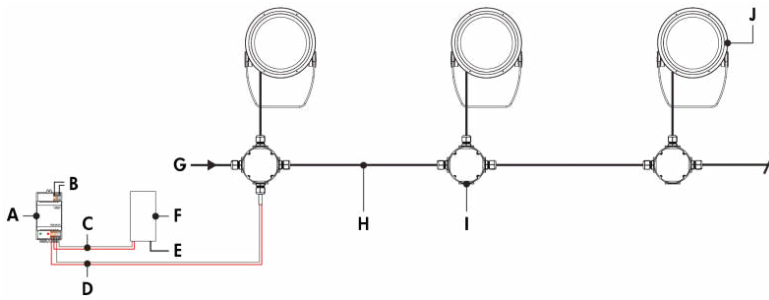
A - DALI bus power supply (by others)
B - Power input for DALI bus power supply (wiring by others)
C - Data output to DALI controller (wiring by others)
D - Data output to fixture (wiring by others)
E - Power input for DALI controller (if required, wiring by others)
F - DALI controller (by others)
G - Power input (100-277V AC, wiring by others)
H - Power and data wiring (by others)
I - Junction box (by others)
J - Lumenbeam Medium

DALI-2 dimming Type 8 (DALIT8) - wiring detail - CE
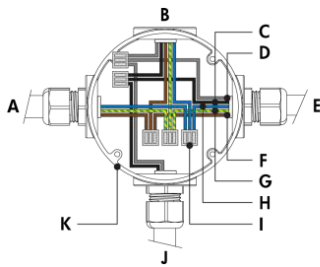
A - Power input or from previous fixture
B - To fixture
C - DA +
D - DA -
E - To next fixture
F - Line
G - Ground
H - Neutral
I - Terminal connector (by others)
J - From DALI controller (by others)
K - Junction box (by others)

DALI-2 dimming Type 8 (DALIT8) - wiring detail - CE Class II
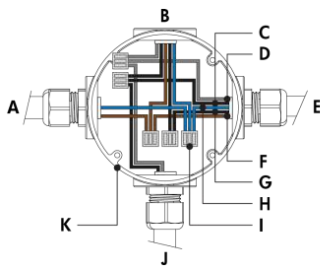
A - Power input or from previous fixture
B - To fixture
C - DA + (black 2)
D - DA -
E - To next fixture
F - Line
G - Signal common (black 1)
H - Neutral
I - Terminal connector (by others)
J - From DALI controller (by others)
K - Junction box (by others)

- 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 controls.
- Commissioning may be required based on the selection of 3rd party DALI controller. Controller and commissioning provided by others.
- 28 watts per fixture.

How to order

Housing	Voltage	Colour and Colour Temperature	Optics	Optical Option (3) (5)	Finish	Control (9) (12)	Options	Certification	Cable Length (11) (17)	Cable Colour
LBM Lumenbeam™ Medium	**100** 100 volts **120** 120 volts **208** 208 volts **220** 220 volts **240** 240 volts **277** 277 volts	**RGB** RGB **RGBW30K** RGB + white 3000K (1) **RGBW40K** RGB + white 4000K (1) **RGBA** RGB + amber	**VN** Very Narrow 6° (2) **NS** Narrow Spot 10° (2) **NF** Narrow Flood 20° (2) **M** Medium 30° (2) **FL** Flood 40° (2) **WFL** WF 60° (2) **NAS** Narrow Asymmetric (2) **WW** Asymmetric Wallwash (2)	**LSLH** Linear spread lens horizontal distribution (4) **LSLV** Linear spread lens vertical distribution (4)	**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 and finish (please specify RAL colour) (6) (7) (8)	**DMX/RDM** DMX/RDM enabled (10) (11) **DALIT8** DALI-2 dimming Type 8 (13)	**SY** Short Yoke **3GV** 3G ANSI C136.31-2010 Vibration Rating for bridge applications **CRC** Corrosion-resistant coating for hostile environments (14) (15)	**UL** UL compliant (16) **CE** CE compliant **CEII** CE compliant Class II double insulated	**1M** 1 m (11) (17) **5M** 5 m **10M** 10 m **15M** 15 m **20M** 20 m **30M** 30 m	**BK** Black **WH** White (18)

Notes:

1. 2700K, 3500K and Royal Blue available, consult factory. Longer lead times apply.

2. Factory installed, not interchangeable on site.

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

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

5. Not available with M, WFL, NAS and WW optics.

6. 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.

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

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

9. Lumentalk system is enabled with LDB-DMX accessory, DMX/RDM must be specified in the order code. See the typical wiring diagrams in the specification sheet for details.

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

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

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

13. DALI-2 Type 8 controller required, provided by others.

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

15. Setup charges apply. Consult factory for details.

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

17. 1 m cable length is standard unless otherwise specified.

18. Not available with CE or CEII certification options.