Specification Sheet

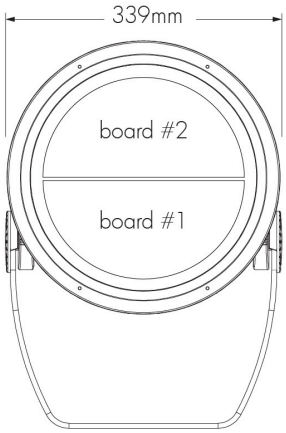
lumenbeam
Grande
LBG

COLOUR CHANGING

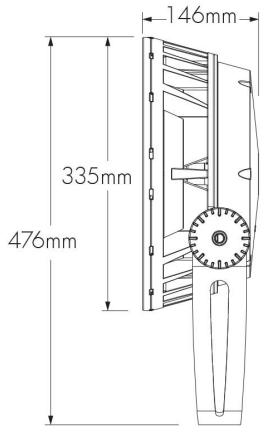
Project Name _____ **Qty** _____

Type _____ **Catalog / Part Number** _____





Front view



Side view

Photometric Summary

Symmetric

	Delivered output (lm)	Intensity (peak cd)
XN (4°)	3376*	287,209*
VN (6°)	3984*	275,731*
NS (10°)	3961*	148,713*
NF (20°)	3472*	29,288*
M (30°)	3517*	14,852*
FL (40°)	3503*	9657*
WFL (60°)	3608*	3746*

Asymmetric

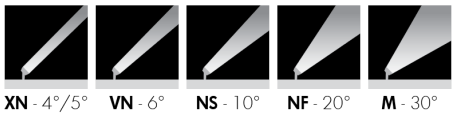
	Delivered output (lm)	Intensity (peak cd)
NAS	3004*	49,714*
WW	3376*	14,714*

Based on RGBW full output, DMX/RDM configuration.

Photometric performance is measured in compliance with IESNA LM-79-08.

*Estimated. Consult website for the latest photometric files.

Optics


XN - 4°/5° **VN** - 6° **NS** - 10° **NF** - 20° **M** - 30°


FL - 40° **WFL** - 60° **NAS** **WW**

Colours and Colour Temperatures

RGB RGBW RGBA

Controls

lumentalk DMXrdm DALI T8

Description

The Lumenbeam Grande 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, 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	Additive RGB, Additive RGB + white 4000K, Additive RGB + amber
Optics (nominal distribution)	XN (4° or 5°), 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	100 W
Warranty	5-year limited warranty

Performance

Maximum Delivered Output	3984 lm (RGBW full output, VN 6°, DMX/RDM)
Maximum Delivered Intensity	287,209 cd at nadir (RGBW full output, XN 4°, DMX/RDM)
Illuminance at Distance	Minimum 1 lx at 536 m (RGBW full output, XN 4°, DMX/RDM)
Lumen Maintenance	L70 B50 120,000 hrs (Ta 25 °C)

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

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info@lumenpulse.com **www.lumenpulsegroup.com** **www.lumenpulse.com/products/1385**

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Ratings

IP66 IK09

Certifications



Surface Finish	Electrostatically applied polyester powder coat
Weight	10.89 kg
EPA	Front = 0.1 sq m, Side = 0.03 sq m

Electrical and control

Voltage	100 to 277 volts
Fixture Cable	Power and data in one cable
Conductors	3C: 3 x 1,5 mm^2 (LT control), 5C: 5 x 1,5 mm^2 (DALIT8 control), 6C: 3 x 1,5 mm^2/ 3 x 0,20 mm^2 (DMX/RDM control)
Inrush Current (peak)	55A @230VAC
Control	Lumentalk, DMX/RDM enabled, DALI-2 dimming Type 8
Resolution (DMX/RDM)	Per board or fixture (configured with LumenID V3 software), 8-bit or 16-bit, 3 channels (RGB) or 4 channels (RGBW, RGBA)
RGB Colour Mixing	72 LEDs (12x Red, 12x Green, 12x Blue per board)
RGBW Colour Mixing	48 LEDs (6x Red, 6x Green, 6x Blue, 6x White 4000K per board)
RGBA Colour Mixing	48 LEDs (6x Red, 6x Green, 6x Blue, 6x Amber per board)

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

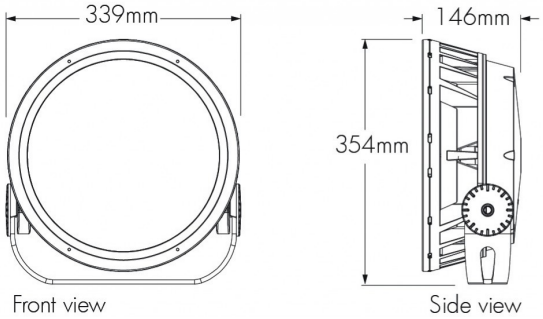
Accessories (order separately)

Optical Accessories	Lumenbeam Grande Snoot, Lumenbeam Grande Snoot wide, Lumenbeam Grande Visor, Lumenbeam Grande Linear spread lens adjustable, Lumenbeam Grande Wire guard
Control Boxes	DMX/RDM enabled (daisy chain or star configuration), Ethernet enabled (daisy chain or star configuration)
Control Systems	Pharos® kit
Diagnostic and Addressing Tools	LumenID, LumentalkID

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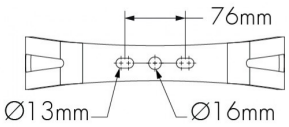
Mounting options

SY - Short yoke

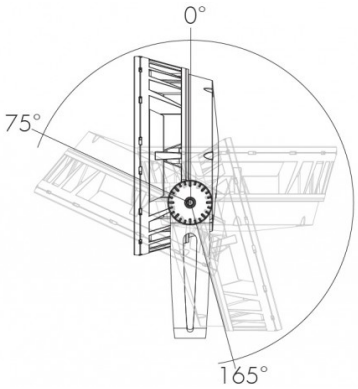


Mounting details

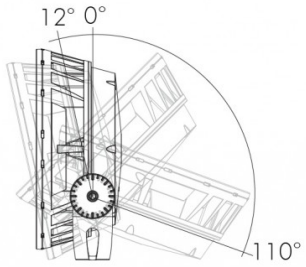
Mounting hole pattern - standard and short yoke



Adjustable pivot limits (adjustable in 6 degree increments)



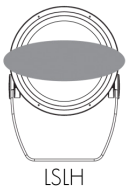
Standard yoke



Short yoke

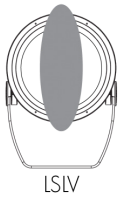
Optical options

LSLH - Linear spread lens horizontal distribution



LSLH - Linear spread lens horizontal distribution

LSLV - Linear spread lens vertical distribution



Beam angles

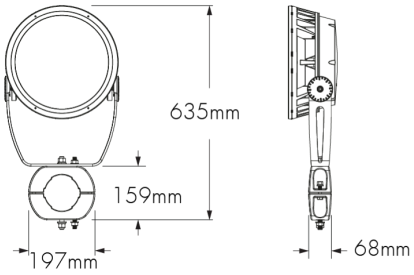
Optic installed in fixture	Beam angle with LSLH/LSLV
XN	5° x 60°
VN	8° x 50°
NS	9° x 56°
NF	17° x 57°
M	27° x 68°
FL	37° x 74°

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

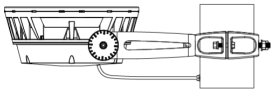
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Mounting accessories (order separately)

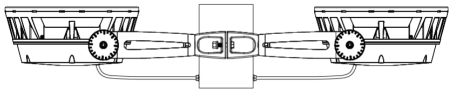
Round pole mounting accessory



PM4 model shown.
Consult factory for square pole section.



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

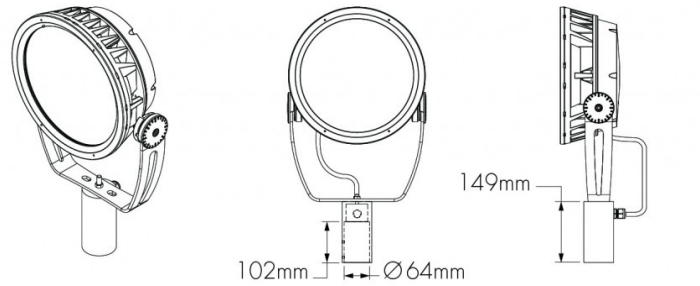


PM4-5, **PM4.5-2**, **PM5-2 -** Round pole mounting accessory - twin fixtures
*One bracket assembly is supplied per 2 fixtures unless otherwise specified.

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

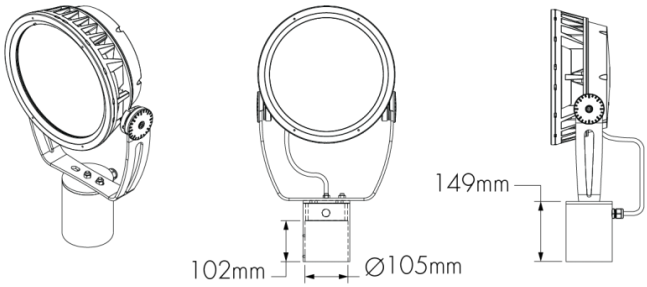
Consult factory for other pole diameters.

Tenon adapter



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

Vertical mounting only. Consult factory for horizontal mounting.



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

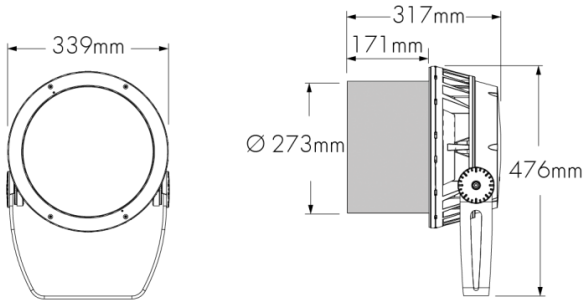
Vertical mounting only. Consult factory for horizontal mounting.

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Optical accessories (order separately)

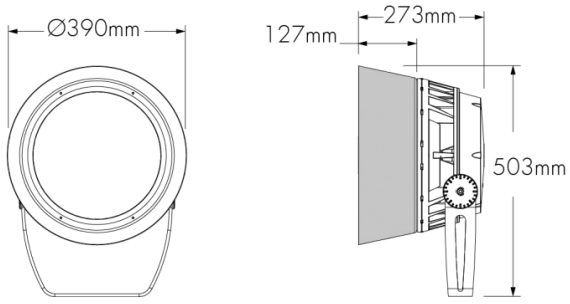
Installed optical accessories will affect the maximum pivot limits for each mounting option, consult factory for details.

SN - Snoot



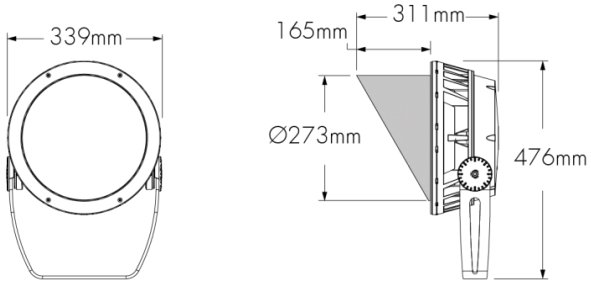
LBGSN-**FINISH**-BK-**OPTIONS** (CRC)
Interior surface painted black. Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

SNW - Snoot wide



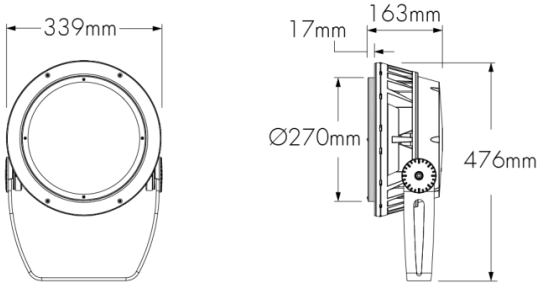
LBGSNW-**FINISH**-BK-**OPTIONS** (CRC)
Interior surface painted black. Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

VS - Visor



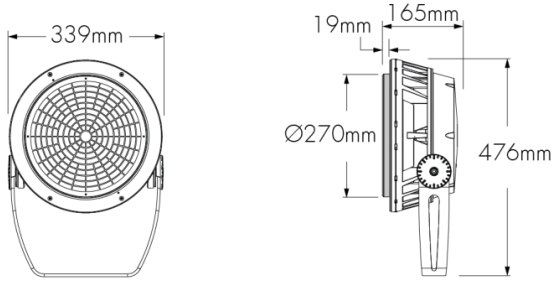
LBGVS-**FINISH**-BK-**OPTIONS** (CRC)
Interior surface painted black. Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

LSLA - Linear spread lens adjustable



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

WG - Wire guard



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

Accessory combinations

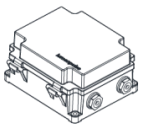
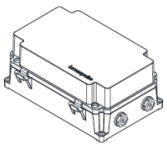
+	Snoot	Snoot wide	Visor
Linear spread lens adjustable	LBGSNLSLA	N/A*	LBGVSLSLA
Wire guard	LBGSNWG	N/A	LBGVSWG

Accessory combinations must be ordered together on a single line
Ex: A snoot + wire guard combination order code is LBGSNWG-**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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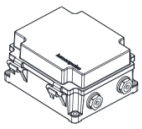
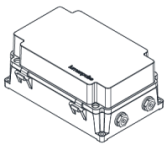
Control boxes (order separately)

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.

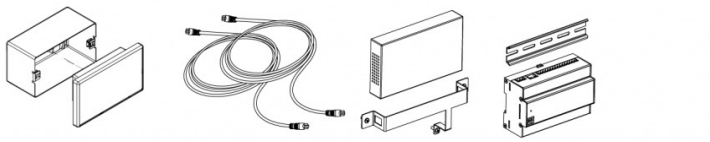
CBX-ENET - Ethernet enabled (daisy chain or star configuration)

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)

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.

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info@lumenpulse.com **www.lumenpulsegroup.com** **www.lumenpulse.com/products/1385**

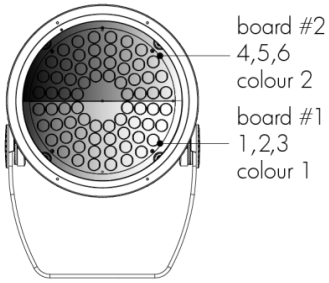
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EM - R17

EPA Guide

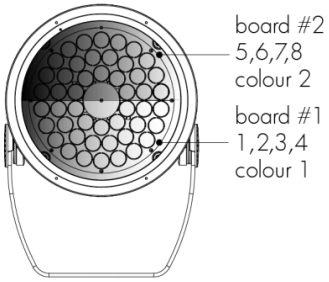
	LBG	LBG with snoot	LBG with visor	LBG with snoot wide
				
EPA front (m^2)	0.104	0.104	0.104	0.167
EPA side (m^2)	0.032	0.069	0.067	0.068

Resolution details

Resolution per board: each board is addressed independently
DMX addresses:

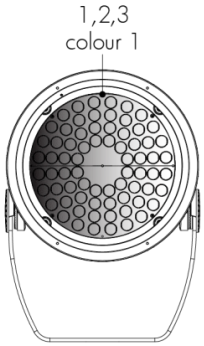


RGB colour mixing option

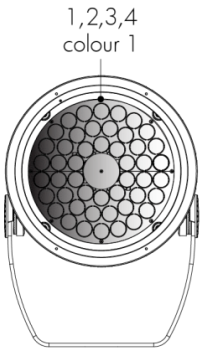


RGBW, RGBA colour mixing options

Resolution per fixture: each fixture is addressed independently
DMX addresses:



RGB colour mixing option



RGBW, RGBA colour mixing options

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

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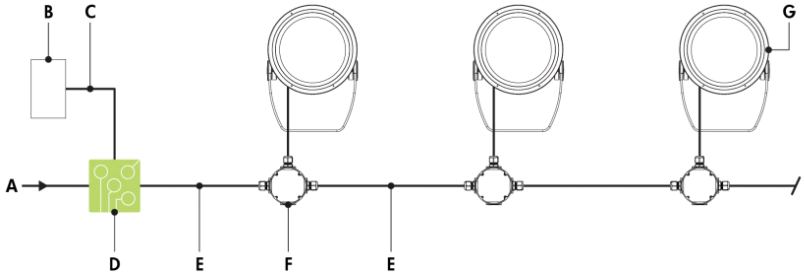
Typical wiring diagrams

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)

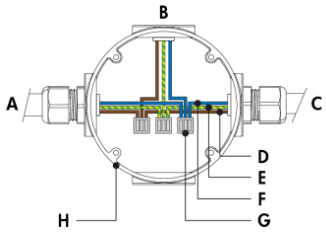
CE Class II Colour Code		USE
All other controls	DMX/RDM	
Brown	Brown	Line
Blue	Blue	Line/Neutral
Black 1	Grey	Signal common (DMX/RDM only)
Black 2	Black or Purple	1-10V / Data +
Grey	Grey or Orange	1-10V / Data -
N/A	Yellow/Green	Ground (do not connect)

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 Grande

Lumentalk (LT) - wiring detail - CE

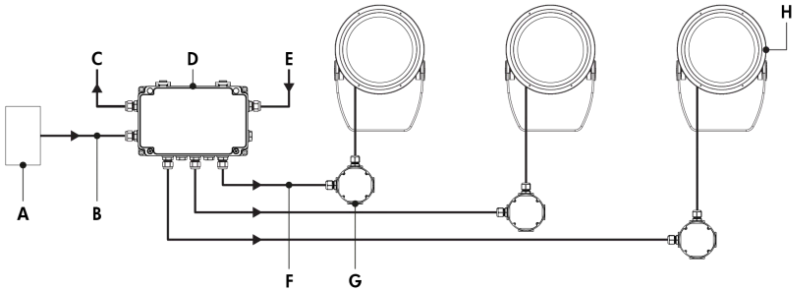


A - Power input (control over power line via Lumentalk system) or from previous fixture
B - To fixture
C - To next fixture
D - Line
E - Ground
F - Line/Neutral
G - Terminal connector (by others)
H - Junction box (by others)

- 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.
- 100 watts per fixture.

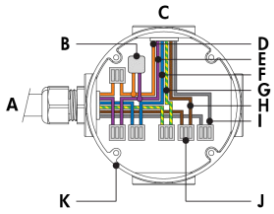
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Star Layout (DMX/RDM)



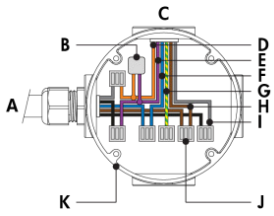
A - DMX/RDM controller (order separately from Lumenpulse, or by others)
B - Data input (Belden 9841 or equivalent, by others)
C - Data output to next CBX (optional, not isolated/not boosted)
D - CBX-ST
E - Power input (100-277V AC, wiring by others)
F - Power and data output to fixture (wiring by others)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

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

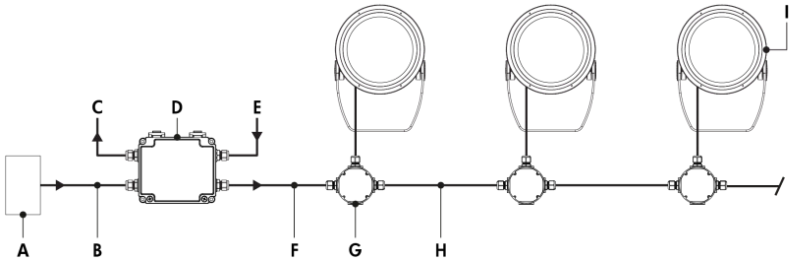
Configuration/Voltage	120V	208V	240V	277V
LBG	10	16	18	21

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. RGBW colour mixture option requires 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.
- 100 watts per fixture.

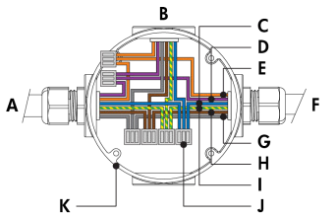
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Daisy Chain Layout (DMX/RDM)



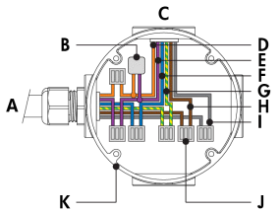
A - DMX/RDM controller (order separately from Lumenpulse, or by others)
B - Data input (Belden 9841 or equivalent, by others)
C - Data output to next CBX (optional, not isolated/not boosted)
D - CBX-DS
E - Power input (100-277V AC, wiring by others)
F - Power and data output to fixture (wiring by others)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

Daisy Chain Layout (DMX/RDM) - wiring detail (first or middle of run) - CE



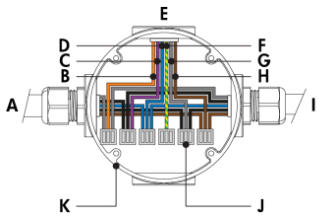
A - From CBX or previous fixture
B - To fixture
C - Neutral
D - Data +
E - Data -
F - To next fixture
G - Signal common
H - Line
I - Ground
J - Terminal connector (by others)
K - Junction box (by others)

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



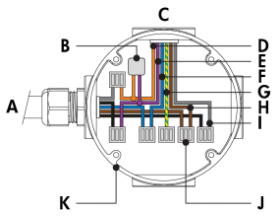
A - From CBX or previous fixture
B - Lumenterminator
C - To fixture
D - Data -
E - Data +
F - Neutral
G - Ground
H - Line
I - Signal common
J - Terminal connector (by others)
K - Junction box (by others)

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)

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Maximum fixture count per run

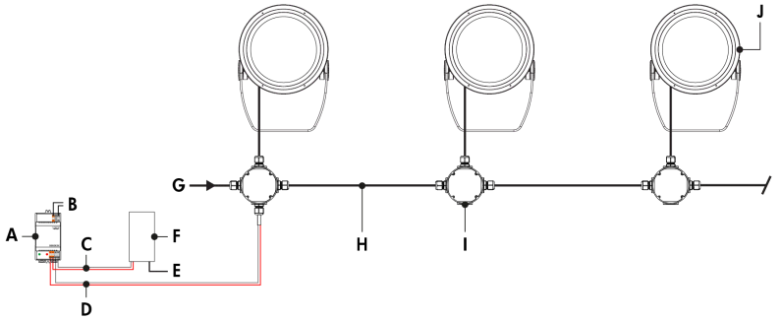
Configuration/Voltage	**120V**	**208V**	**240V**	**277V**
LBG	10	16	18	21

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. RGBW colour mixture option requires 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.
- 100 watts per fixture.

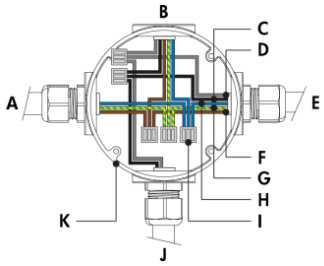
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DALI-2 dimming Type 8 (DALIT8)



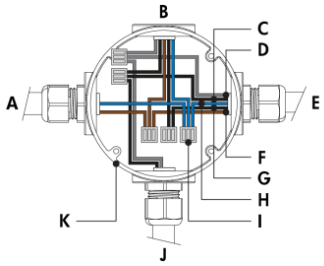
A - DALI bus power supply (by others)
B - Power input for DALI bus power supply (wiring by others)
C - Data output to DALI controller (wiring by others)
D - Data output to fixture (wiring by others)
E - Power input for DALI controller (if required, wiring by others)
F - DALI controller (by others)
G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

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.
- 100 watts per fixture.

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How to order

Housing	Voltage	Colour and Colour Temperature	Optic1	Optic2	Optical Option [4] [6]
LBG Lumenbeam™ Grande	**100** 100 volts **120** 120 volts **208** 208 volts **220** 220 volts **240** 240 volts **277** 277 volts	**RGB** Additive RGB **RGBW** Additive RGB + white 4000K standard, 2700K, 3000K and 3500K available, consult factory. [1] **RGBA** Additive RGB + amber	**XN** Extra Narrow 4° or 5° [2] **VN** Very Narrow 6° **NS** Narrow Spot 10° **NF** Narrow Flood 20° **M** Medium 30° [3] **FL** Flood 40° **WFL** Wide Flood 60° [3] **NAS** Narrow Asymmetric **WW** Asymmetric Wallwash	**XN** Extra Narrow 4° or 5° [2] **VN** Very Narrow 6° **NS** Narrow Spot 10° **NF** Narrow Flood 20° **M** Medium 30° [3] **FL** Flood 40° **WFL** Wide Flood 60° [3] **NAS** Narrow Asymmetric **WW** Asymmetric Wallwash	**LSLH** Linear spread lens horizontal distribution [5] **LSLV** Linear spread lens vertical distribution [5]

Notes:

1. Longer lead times apply for Royal Blue, 2700K, 3000K and 3500K white colour temperature mixes.
2. Nominal distribution is 4° for RGBW and RGBA colour options, and 5° for RGB.
3. Cannot be combined with other optics.
4. Optical options are factory installed and cannot be changed in the field.
5. Field adjustable spread lens optical accessory available, order separately.
6. Not available with WFL, NAS and WW optics.

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How to order

Finish	Control	Options	Certification	Cable Length [13] [18]	Cable Colour
BK Black Sandtex®	**LT** Lumentalk [10] [11]	**SY** Short Yoke	**UL** UL compliant [17]	**1M** 1 m [13] [18]	**BK** Black
BRZ Bronze Sandtex®	**DMX/RDM** DMX/RDM enabled [12] [13]	**3GV** 3G ANSI C136.31-2010 Vibration Rating for bridge applications	**CE** CE compliant	**5M** 5 m	**WH** White [19]
SI Silver Sandtex®	**DALIT8** DALI-2 dimming Type 8 [14]	**CRC** Corrosion-resistant coating for hostile environments [15] [16]	**CEII** CE compliant Class II double insulated	**10M** 10 m	
WH Smooth white				**15M** 15 m	
BKTX Textured black				**20M** 20 m	
BRZTX Textured bronze non-metallic				**30M** 30 m	
GRATX Textured medium grey					
GRNTX Textured green					
WHTX Textured white					
CC Custom colour and finish (please specify RAL colour) [7] [8] [9]					

Notes:

7. 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.
8. Setup charges apply for RAL colours. Consult factory for details.
9. Longer lead times can be expected for custom RAL colour finishes.
10. A Lumentranslator 2 (LTL2) and LumentalkID (LIDLT) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.
11. Not available with Class II double insulated option.
12. A control box (CBX) and LumenID (LID) must be specified.
13. Maximum of 1 m cable length for daisy chain DMX applications with CBX-DS.
14. DALI-2 Type 8 controller required, provided by others.
15. Use only when exposed to salt spray and harsh chemicals. This option is not required for normal outdoor exposure.
16. Setup charges apply. Consult factory for details.
17. Consult North American specification sheets and installation instructions for UL wiring information.
18. 1 m cable length is standard unless otherwise specified.
19. Not available with CE or CEII certification options.

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