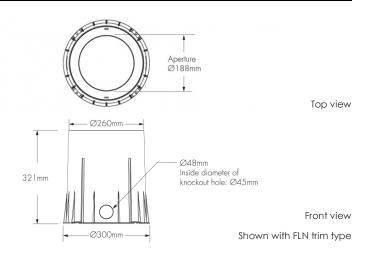
Project Name _____ Qty _____



ype E Catalog / Part Number





Photometric Summary

Symmetric

	Delivered output (lm)	Intensity (peak cd)
VN (6°)	1108	51,908
NS (10°)	1136	31,645
M (30°)	1073	3289
FL (40°)	971	1 <i>7</i> 89
WFL (60°)	898	832

Bi-symmetric

	Delivered output (lm)	Intensity (peak cd)		
6°x90°	1036	5314		
90°x60°	1030	3314		
15°x90°	915	3108		
90°x15°	913	3100		
25°x90°	912	1789		
90°x25°	912	1709		
35°x90°	779	882		
90°x35°	//9	002		

Asymmetric

Delivered output (lm)	Intensity (peak cd)
1119	1 <i>7</i> ,313
889	1099
	1119

Based on RGBW40K full output, DMX/RDM configuration. Lens type: LFR lens for VN optic, SFR lens for NAS optics, SL lens for M, FL, WFL and VWW optics and CL lens for all other optics.

Power consumption: 33 W for RGB, 35W for RGBW30K, RGBW40K and RGBA.

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

Description

The Lumenbeam Inground Large Colour Changing is a high-performance, ground-recessed LED projector offering RGB, RGBW, or RGBA colour mixing, as well as Legacy or Custom output modes. Designed to solve a range of inground lighting challenges with a choice of optics, trim, lenses and control options, the plug and play design simplifies installation, protecting the system from water infiltration and ensuring longlasting performance. Built with robust, high-quality materials that are resistant to harsh environments, the Lumenbeam Inground Large delivers L70 LED lifetimes up to 79,000 hours, has a Drive-Over rating of 5000kg, IK10 glass lens, and an IP68 factory-sealed optical chamber.

Features

Construction	Walk over compliant up to 1000 kg in any type of ground, Drive over compliant up to 5000 kg in concrete
Colour and Colour Temperature	Additive RGB, Additive RGB + white 3000K, Additive RGB + white 4000K, Additive RGB + amber
Optics (nominal distribution)	VN (6°), NS (10°), M (30°), FL (40°), WFL (60°), 6° x 90°, 15° x 90°, 25° x 90°, 35° x 90°, 90° x 6°, 90° x 15°, 90° x 25°, 90° x 35°, NAS (Narrow Asymmetric), WW (Asymmetric Wallwash)
Lens	Clear lens, Small frosted ring, Large frosted ring, Softening lens, (lens type will vary according to optic, see optics and lens section)
Optical Option (factory installed)	Internal louvre
Trim Type	Flush trim with hardware, Flush trim no hardware, Bevel edge trim with hardware, Bevel edge trim no hardware
Blockout	Recessed blockout, Recessed blockout with mounting brackets
Options	Anti-slip lens
Adjustment	-3° to +15° tilt, 360° rotation
Power Consumption	33 W for RGB, 35 W for RGBW30K, RGBW40K and RGBA
Warranty	5-year limited warranty

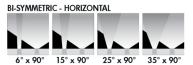
lumenpulse¹

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Colours and Colour Temperatures









Controls

₽DMXrdm DALIT8

Construction







DO - Drive over

Trim Finishes





SSB - Brushed Stainless Steel

SSP - Polished Stainless Steel

Options



Anti-slip lens

Ratings

IP68 IK10

Certifications









Performance

Maximum Delivered Output	943 Im (RGB full output, NS 10°, CL Iens, DMX/RDM), 1,113 Im (RGBW30K full output, NS 10°, CL Iens, DMX/RDM), 1,136 Im (RGBW40K full output, NS 10°, CL Iens, DMX/RDM), 911 Im (RGBA full output, NS 10°, CL Iens, DMX/RDM)
Maximum Delivered Intensity	43,105 cd at nadir (RGB full output, VN 6°, LFR lens, DMX/RDM), 50,870 cd at nadir (RGBW30K full output, VN 6°, LFR lens, DMX/RDM), 51,908 cd at nadir (RGBW40K full output, VN 6°, LFR lens, DMX/RDM), 41,642 cd at nadir (RGBA full output, VN 6°, LFR lens, DMX/RDM)
Illuminance at Distance	Minimum 1 fc at 63.4 m (RGB full output, VN 6°, LFR lens, DMX/RDM), Minimum 1 fc at 68.9 m (RGBW30K full output, VN 6°, LFR lens, DMX/RDM), Minimum 1 fc at 69.5 m (RGBW40K full output, VN 6°, LFR lens, DMX/RDM), Minimum 1 fc at 62.5 m (RGBA full output, VN 6°, LFR lens, DMX/RDM)
Lumen Maintenance	L70 79,000 hrs (Ta 25 °C), L70 77,000 hrs (Ta 40 °C)
Physical	
Optical Chamber Material	Brass for walk-over and drive-over construction in harsh environments
Blockout Material	Fibreglass reinforced polymer
Lens Material	Tempered glass
Hardware Material	Stainless steel
Gasket Material	Silicone

Brushed stainless steel, Polished stainless steel

Electrical and control

Trim Finish

Weight

Voltage	120-277 volts, 220-240 volts
Leader Cable Conductor	6C #14-3/ #24-3
Leader Cable Connector	IP68 6-pin push-lock
Control	DMX/RDM enabled, DALI-2 dimming Type 8
Resolution (DMX/RDM)	Per fixture, 8-bit or 16-bit, 3 channels (RGB) or 4 channels (RGBW30K, RGBW40K and RGBA)
RGB Colour Mixing	12 LEDs (4x Red, 4x Green, 4x Blue)
RGBW30K Colour Mixing	12 LEDs (3x Red, 3x Green, 3x Blue, 3x White 3000K)
RGBW40K Colour Mixing	12 LEDs (3x Red, 3x Green, 3x Blue, 3x White 4000K)
RGBA Colour Mixing	12 LEDs (3x Red, 3x Green, 3x Blue, 3x Amber)
Environmental	
Storage Temperature	-40 °C to 85 °C (device must reach start-up temperature value before operating)
Start-up Temperature	-25 °C to 40 °C
Operating Temperature	-40 °C to 40 °C, Consult factory for -40 °C to 50 °C temperature range

10.43 kg



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F 514.937.6289

Ingress Protection Rating	IP68 (submerged up to 1 m for up to 24 hours), not suitable for permanent immersion applications		
Impact Resistance Rating	IK10		
Environment	Wet location		
Accessories (order separately)			
Cables	3 Conductor Power and 3 Conductor Data Leader Cable with Connector, 3 Conductor Power and 3 Conductor Data Cable		
Electrical Accessories	Large Junction Box for Lumenbeam Inground		
Control Boxes	DMX/RDM enabled (daisy chain or star configuration), Ethernet enabled (daisy chain or star configuration)		
Control Systems	Lumentone™ 2, Pharos® kit		
Diagnostic and Addressing Tools	LumenID		



Construction details

	WO - Walk over compliant up to 1000kg		DO - Drive over compliant up to 5000kg
Trim type	All trim options are suitable (FLH, FLN, BVH and BVN)	Trim type	Only trim options with visible hardware are suitable (FLH and BVH)
Ground type	Installed in sand, soft soil, compacted soil, pavement	Ground type	Installed in concrete

Optics and lens options



or concrete







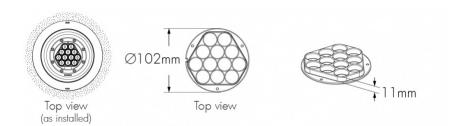


Optics / Lens	Clear	Small frosted ring	Large frosted ring	Softening	Anti-slip	
VN			•	0 11 1		
NS	•			Optional	Optional	
M/FL/WFL				•	(can be combined	
6° /15°/25°/35° x 90°	•			0-6	with all lenses and optics)	
NAS		•		Optional	opiics)	
ww				•		

Recommended for optimal performance, may be replaced by a softening lens. A softening lens will affect beam distribution and output. Consult factory for application support.

Optical accessories (factory installed)

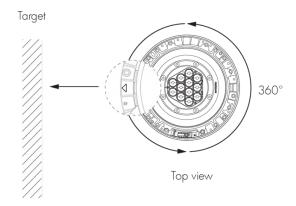
INTL - Internal louvre



- The interal louvre is factory installed and not adjustable in the field.
- Not available for NAS, WW optics.
- The addition of an internal louvre will affect beam distribution, consult factory for application support.

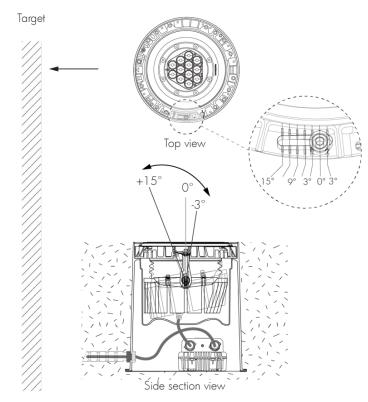
Adjustment

360° Orientation



The optical chamber can be rotated until the arrow faces the target. Refer to the installation instructions for details.

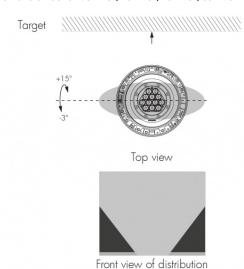
-3° to +15° Tilt adjustment



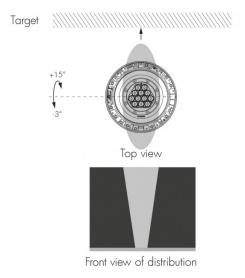
- Tilt can be adjusted on site without opening the factory sealed optical
- Asymmetrical optics: Tilt set in factory for optimal results (WW at 5° and NAS at 3°).

Bi-symmetrical distributions

Horizontal distribution: 6°x90°, 15°x90°, 25°x90°, 35°x90°



Vertical distribution: 90°x6°, 90°x15°, 90°x25°, 90°x35°

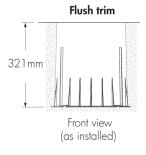


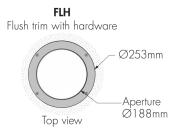
1220 Marie-Victorin Blvd., Longueuil, QC J4G 2H9 CA info@lumenpulse.com www.lumenpuke.com **T** United States 617.307.5700 | Canada 1.877.937.3003 | 514.937.3003 www.lumenpulse.com/products/2217

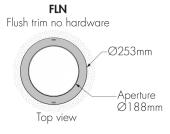
F 514.937.6289

Trim type

Flush trim

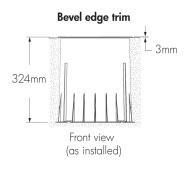


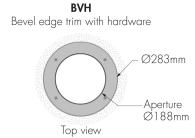


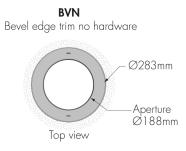


Only trims with hardware are drive-over compliant.

Bevel edge trim



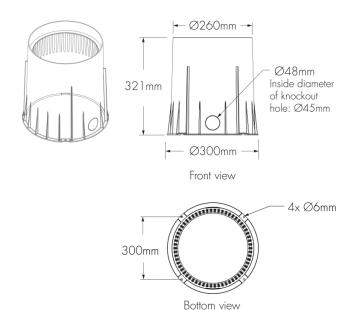




Blockout

RBO - Recessed Blockout

RBO - Recessed blockout

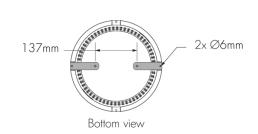


Bottom view

RBM - Recessed Blockout with Mounting Brackets

RBM - Recessed blockout

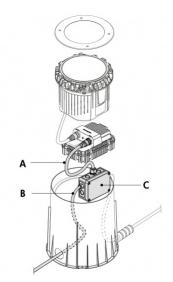
with mounting brackets **−** Ø260mm **→** Ø48mm Inside diameter 321mm of knockout hole: Ø45mm



 $\emptyset 300 mm$

Front view

Overview - cables and accessories



A - 3P3DLC: 3 Conductor Power and 3 Conductor Data Leader Cable with Connector

B - 3P3DC: 3 Conductor Power and 3 Conductor Data Cable

C - LBI-JBOX-L: Large Junction Box for Lumenbeam Inground (required for continuous runs and DMX/RDM daisy chain layouts)

Refer to typical wiring diagrams for details.

Cables (order separately)

3P3DLC - 3 Conductor Power and 3 Conductor Data Leader Cable with Connector



CERTIFICATION: UL or CE LENGTH: 3 m, 7.6 m or 15.2 m

• Sealing endcap is mandatory for all unused connectors. One (1) included with every leader cable.

• Consult 3P3DLC specification sheet for details.

3P3DC - 3 Conductor Power and 3 Conductor Data Cable



CERTIFICATION: UL or CE

LENGTH: 15.2 m, 30.5 m, 45.7 m, 61 m or complete spool of cable 76.2 m

Electrical accessories (order separately)

LBI-JBOX-L - Large Junction Box for Lumenbeam Inground (required for continuous runs and DMX/RDM daisy chain layouts)



4x Strain reliefs 1x IP68 insulating resin 1x Sealing cap

1x Junction box with 406 mm 3P3DLC cable whip

Refer to LBI-JBOX-L installation instructions for details.

Control boxes (order separately)

CBX-DMX/RDM - DMX/RDM enabled (daisy chain or star configuration)





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

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





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

Control systems (order separately)

LTN2 - Lumentone™ 2



Lumentone 2 is a simple pre-programmed DMX 512 controller with a push button rotary dial and live feedback.

PHAROS - Pharos® kit







The Pharos kit, available for 1 or 2 DMX universes, allows for complete control of large lighting installations. 2 DMX universes kit shown.

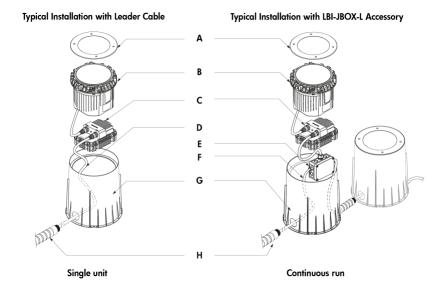
Diagnostic and addressing tools (order separately)

LID - LumenID



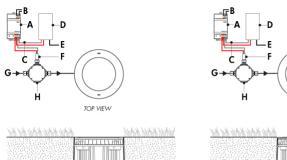
LumenID is a diagnostic and addressing DMX/RDM tool. It must be specified on all DMX applications. Consult LID specification sheet for details.

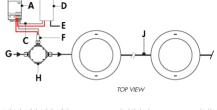
Typical wiring diagrams

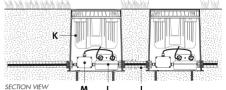


- A Trim
- B Optical chamber (LBILC)
- C Power and Control Box (PCBX)
- **D** 3 Conductor Power and 3 Conductor Data Leader Cable with Connector (3P3DLC)
- **E** Large Junction Box for Lumenbeam Inground (LBI-JBOX-L)
- **F** 3 Conductor Power and 3 Conductor Data Cable (3P3DC) from Lumenpulse or cable by others
- G Blockout (RBO or RBM)
- H Conduit (by others)

DALI-2 dimming Type 8 (DALIT8)

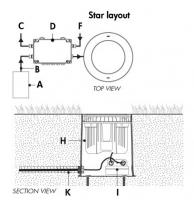


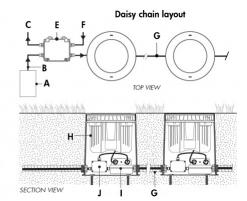




- A DALI bus power supply (by others)
- **B** Power input for DALI bus power supply (wiring by others)
- C To DALI controller (by others)
- D DALI controller (by others)
- **E** Power input for DALI controller (if required, wiring by others)
- F Data output to fixture
- G Power input (120-277V, wiring by others)
- **H** Junction box (by others)
- I 3 Conductor Power and 3 Conductor Data Leader Cable with Connector (3P3DLC)
- ${\bf J}$ 3 Conductor Power and 3 Conductor Data Cable (3P3DC) from Lumenpulse or cable by others
- K Optical chamber (LBILC)
- L Power and Control Box (PCBX)
- **M -** Large Junction Box for Lumenbeam Inground (LBI-JBOX-L)
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Maximum of 64 DALI fixtures per DALI loop.
- The Lumenbeam Inground Large responds to RGBWAF controls.
- · Commissioning may be required based on the selection of 3rd party DALI controller. Controller and commissioning provided by others.
- Refer to Photometric Summary table for wattage information.

DMX/RDM enabled (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 CBX-DS
- F Power input (120-277V, wiring by others)
- **G** 3 Conductor Power and 3 Conductor Data Cable (3P3DC) from Lumenpulse or cable by others
- H Optical chamber (LBILC)
- I Power and Control Box (PCBX)
- **J -** Large Junction Box for Lumenbeam Inground (LBI-JBOX-L)
- **K** 3 Conductor Power and 3 Conductor Data Leader Cable with Connector (3P3DLC)

Maximum fixture count Configuration/Voltage 120V 208V 240V 277V Based on 1

32

Based on 15A maximum, 14AWG cable, fixtures spaced 3 m on centre, first fixture 50ft from CBX.

• Refer to CBX installation instructions for additional wiring details.

LBIL (Maximum number of fixtures per run)

Consult factory for specific applications and maximum fixture count/cable length recommendations.

32

28

• 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. Each fixture requires 1 DMX address. Maximum of 1 output per CBX-DS. Maximum of 6 outputs per CBX-ST.

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- Refer to Photometric Summary table for wattage information.
- DMX terminator is required at the end of each run to maintain data integrity. (2x) DMX lumenterminators included per CBX-DS, (6x) included per CBX-ST. See installation instructions for details.

		ī	ı		I	I	ī	1	i	ı	
Housing (1)	Construction	Voltage	Colour and Colour Temperature	Optics	Lens ⁽⁷⁾	Optical Options	Control	Trim Type	Trim Finish	Blockout	Options
LBIL Lumenbeam nground Large	WO Walk over DO Drive over (2)	120/277 120-277 volts (3) 220/240 220-240 volts	RGB Additive RGB RGBW30K Additive RGB + white 3000K (S) RGBW40K Additive RGB + white 4000K (S) RGBA Additive RGB + amber	VN Very Narrow & (a) Very Narrow & (b) NS Narrow Spot 10° (c) M Medium 30° (c) FL Flood 40° (c) WFL Wide Flood & (b) 6° vertical x 90° horizontal (c) 15x90 15° vertical x 90° horizontal (c) 25x90 25° vertical x 90° horizontal (c) 35x90 35° vertical x 90° horizontal (c) 90x6 90° vertical x 90° horizontal (c) 90x6 90° vertical x 15° horizontal (c) 90x6 90° vertical x 15° horizontal (c) 90x6 90° vertical x 25° horizontal (c) 90x8 90° vertical x 35° horizontal (c) 90x8 90° vertical x 35° horizontal (c) NAS Narrow Asymmetric (c) WW Asymmetric (wallwash (c)	CL Clear lens (8) SFR Small frosted ring (9) LFR Large frosted ring (10) SL Softening lens (11)	INTL Internal louvre (12)	DMX/RDM DMX/RDM enabled (1:3) DALIT8 DALI-2 dimming Type 8 (1:4)	FLH Flush trim with hardware FLN Flush trim no hardware (15) BVH Bevel edge trim with hardware BVN Bevel edge trim no hardware (15)	SSB Brushed stainless steel SSP Polished stainless steel	RBO Recessed blockout RBM Recessed blockout with mounting brackets	ASL Anti-slip len

Notes:

1. A Lumenbeam Inground fixture includes one optical chamber (LBILC), one Power and Control Box (PCBX), one recessed blockout with temporary blockout cover (RBO or RBM) and one trim (FLH, FLN, BVH or BVN). The LBILC and PCBX are provided

- according to the optic and control configuration.

 2. A trim option with hardware (FLH or BVH) must be specified for DO construction.
- 3. Available for UL certification only.
- 4. Available for CE certification only.
- 5. 2700K, 3500K and Royal Blue available, consult factory. Longer lead times apply.
- Factory installed, not interchangeable on site.
 Consult Optics and Lens Options section for details

- 8. Available for all optics except for VN, M, FL, WFL, NAS and WW. 9. Available for NAS optic only.
- 10. Available for VN optic only.

 11. Standard lens for M, FL, WFL and WW optics. Available as an alternate lens choice for all other optics. A softening lens will affect beam distribution and output. Consult factory for application support.
- 12. Not available for NAS and WW optics.
- 13. A control box (CBX) and LumenID (LID) must be specified.
- 14. DALI-2 Type 8 controller required, provided by others.15. Not available for DO construction.

How to order

Environment	Certification

Environment	Certification
HRS Standard brass material suitable for harsh environments	UL UL compliant CE CE compliant (16)

Notes:

16. Consult European specification sheet and installation instructions for CE wiring information.

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