Project Name _____   Qty _____

Type _____   Catalog / Part Number _____

Aperture $\varnothing 7\frac{3}{8}$"

Top view

$\varnothing 10\frac{1}{4}$"

$12\frac{5}{8}$"

$\varnothing 1\frac{7}{8}$"
Inside diameter of
knockout hole: $\varnothing 1\frac{13}{16}$"

$\varnothing 11\frac{13}{16}$"

Front view

Shown with FLN trim type
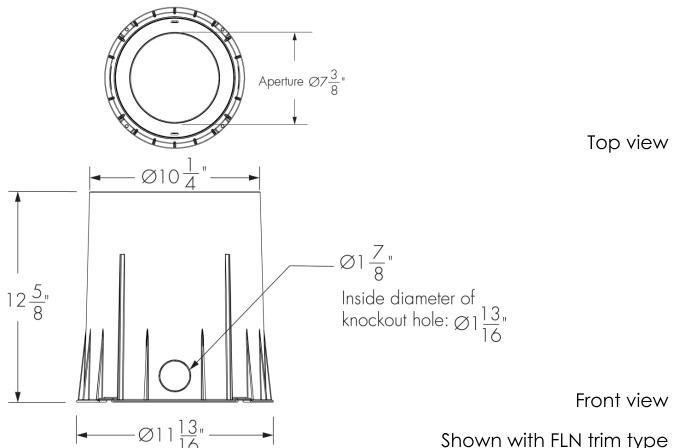
Photometric Summary

Symmetric

	Delivered output (lm)	Intensity (peak cd)
VN (6°)	1563	74,508
NS (10°)	1602	44,645
M (30°)	1514	4639
FL (40°)	1369	2524
WFL (60°)	1267	1174

Bi-symmetric

	Delivered output (lm)	Intensity (peak cd)
6°x90° 90°x6°	1461	7498
15°x90° 90°x15°	1292	4385
25°x90° 90°x25°	1286	2525
35°x90° 90°x35°	1098	1244

Asymmetric

	Delivered output (lm)	Intensity (peak cd)
NAS	1579	24,413
WW	1254	1550

1. Based on DWH full output, DMX/RDM configuration.

2. Lens type: LFR lens for VN optic, SFR lens for NAS optic, SL lens for M, FL, WFL and WW optics and CL lens for all other optics.

3. Power consumption: 35 W.

4. Photometric performance is measured in compliance with IESNA LM-79-24.

5. Consult website for the latest photometric files.

Description

The Lumenbeam Inground Large Dynamic White is a highperformance, ground-recessed LED projector with a feature that enables the selection of any color temperature from 2200K to 3000K or from 2700K to 6500K. Designed to solve a range of inground lighting challenges with a choice of optics, lenses, trim, and control options, the plug and play design simplifies installation, protecting the system from water infiltration and ensuring long-lasting 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
Color and Color Temperature	Dynamic Warm White (2200K to 3000K), Dynamic White (2700K to 6500K)
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 Louver
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
Option	Anti-Slip Lens

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Optics

SYMMETRIC

VN - 6°   NS -10°   M - 30°   FL - 40°   WFL - 60°

BI-SYMMETRIC - HORIZONTAL

6° x 90°   15° x 90°   25° x 90°   35° x 90°

BI-SYMMETRIC - VERTICAL

90° x 6°   90° x 15°   90° x 25°   90° x 35°

ASYMMETRIC

NAS   WW
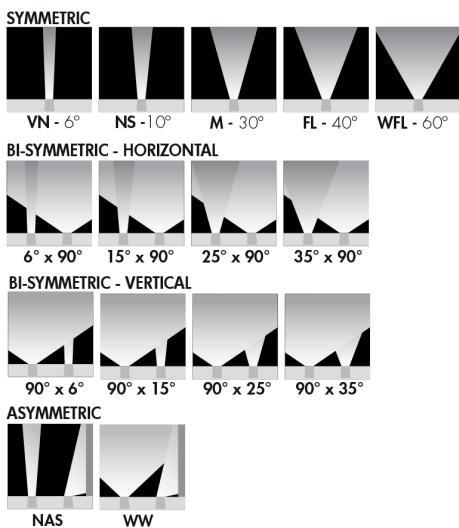
Colors and Color Temperatures

D WW — Dynamic warm   D WH — Dynamic white

Controls

DIM/DTW   DMX/RDM1   DMX/RDM

DALIT8

Construction

WO - Walk over   **DO -** Drive over

Trim Finishes

SSB - Brushed Stainless Steel   **SSP -** Polished Stainless Steel

Options

Anti-slip lens

Ratings

IP68   IK10

Adjustment	-3° to +15° tilt, 360° rotation
Power Consumption	35 W
Warranty	5-year limited warranty

Performance

Maximum Delivered Output	1602 lm (DWH full output, NS 10°, CL lens, DMX/RDM)
Maximum Delivered Intensity	74,508 cd at nadir (DWH full output, VN 6°, LFR lens, DMX/RDM)
Illuminance at Distance	Minimum 1 fc at 273 ft (DWH 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	Fiberglass reinforced polymer
Lens Material	Tempered glass
Hardware Material	Stainless steel
Gasket Material	Silicone
Trim Finish	Brushed Stainless Steel, Polished Stainless Steel
Weight	23 lbs

Electrical and Control

Voltage	120-277 Volts, 220-240 Volts
Leader Cable Conductor	6C #14-3/ #24-3
Leader Cable Connector	IP68 6-pin push-lock
Control	Dim to Warm via 0-10V (2700K to 2200K), Dim to Warm via Single-Channel DMX/RDM (2700K to 2200K), DMX/RDM Enabled 3-Channel Color Temperature Control, DALI 2 T8 Enabled Dimming 0.1%
Resolution (DMX/RDM)	Per fixture, 8-bit or 16-bit
Dynamic Warm Color Temperature Mixing	12 LEDs (4x 2200K, 4x 2700K, 4x 3000K)
Dynamic White Color Temperature Mixing	12 LEDs (4x 2700K, 4x 4000K, 4x 6500K)

Environmental

Storage Temperature	-40 °F to 185 °F (device must reach start-up temperature value before operating)
Start-up Temperature	-13 °F to 104 °F
Operating Temperature	-40 °F to 122 °F
Ingress Protection Rating	IP68 (submerged up to 3.3 ft for up to 24 hours), not suitable for permanent immersion applications

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Certifications

c(UL)us CE RoHS 5 YEARS lumenpulse

Impact Resistance Rating	IK10
Environment	Wet location rating

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	Pharos® Lighting Control Kit (PHAROS), Pharos® Expert Control Kit (EXPERT)
Diagnostic and Addressing Tools	LumenID (LID)

Important

Virtual Patent Marking Notice

This website (https://www.lmpg.com/patents-trademarks) is provided to satisfy the virtual patent marking provisions of applicable jurisdictions. Some products listed may be covered by additional patents not referenced here.

Chromaticity Data

TM-30 - DWW

CCT	CIE		TM-30	
DWW	**R_a**	86	87	**R_f**
Full Output	**R_9**	26	97	**R_g**

87 R_f   97 R_g
CCT 2621 K   D_uv -0.0006
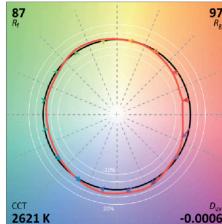
DWW Spectral Power Distribution
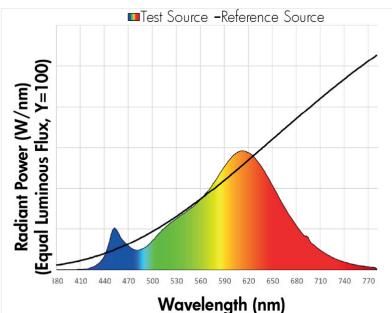
TM-30 - DWH

CCT	CIE		TM-30	
DWH	**R_a**	81	80	**R_f**
Full Output	**R_9**	22	99	**R_g**

80 R_f   99 R_g
CCT 4109 K   D_uv -0.0017

DWH Spectral Power Distribution

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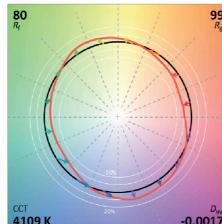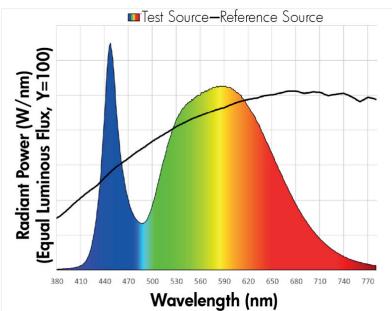
Construction Details

|	**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 or concrete	**Ground type**	Installed in concrete

Optics and Lens Options

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

✔ 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 Louver
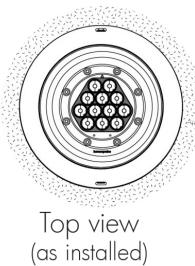
Top view
(as installed)

Ø4"

Top view

$\frac{7}{16}$ "
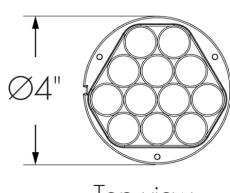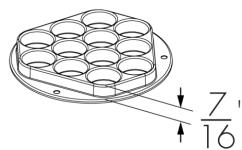
- The interal louver is factory installed and not adjustable in the field.

- Not available for NAS, WW optics.

- The addition of an internal louver will affect beam distribution, consult factory for application support.

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Adjustment

360° Orientation

Target

360°

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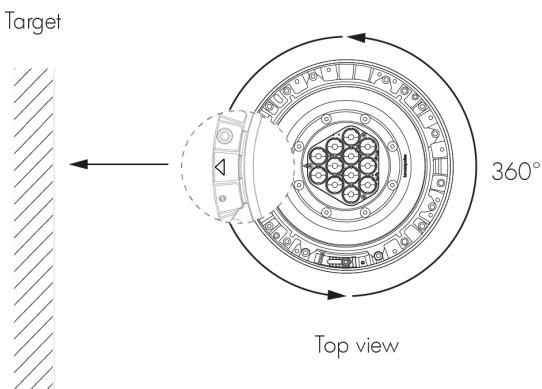
The optical chamber can be rotated until the arrow faces the target.
Refer to the installation instructions for details.

### -3° to +15° Tilt Adjustment

Target

Top view

+15°   0°
   -3°

15° 9° 3° 0° 3°

Side section view
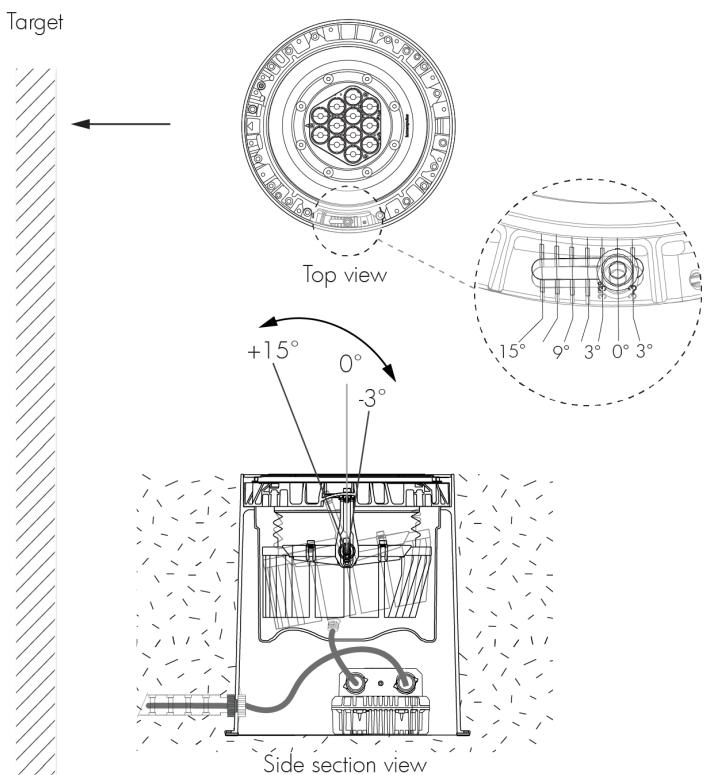
- Tilt can be adjusted on site without opening the factory sealed optical chamber.
- **Asymmetrical optics**: The optical chamber is factory-set to 0°. For optimal results with asymmetrical optics, a 3° tilt is recommended for the NAS optic, and a 5° tilt is recommended for the WW optic.

Bi-Symmetrical Distributions

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

Target

+15°

-3°

Top view

Front view of distribution
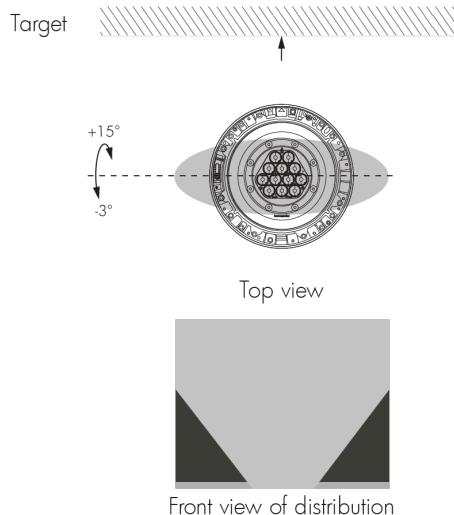
Vertical Distribution : 90°x6°, 90°x15°, 90°x25°, 90°x35°

Target

+15°

-3°

Top view

Front view of distribution

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Trim Type

Flush Trim

Flush trim

$12\frac{5}{8}$"

Front view
(as installed)

FLH
Flush trim with hardware

$\varnothing 9\frac{15}{16}$"

Aperture
$\varnothing 7\frac{3}{8}$"

Top view

FLN
Flush trim no hardware

$\varnothing 9\frac{15}{16}$"

Aperture
$\varnothing 7\frac{3}{8}$"

Top view
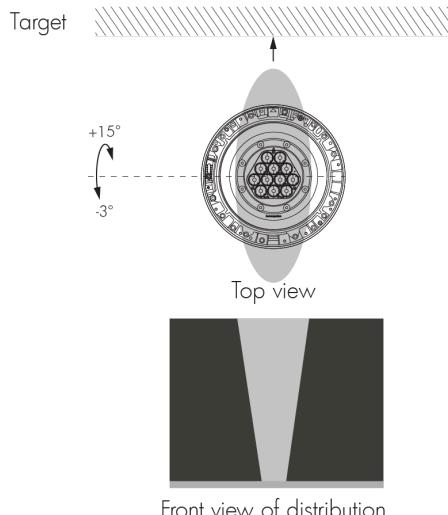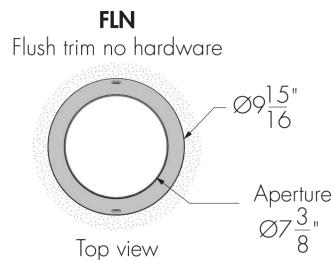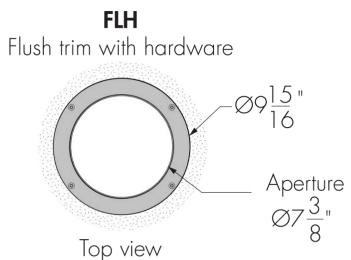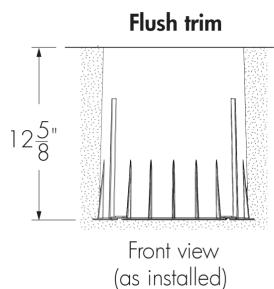
Only trims with hardware are drive-over compliant.

Bevel Edge Trim
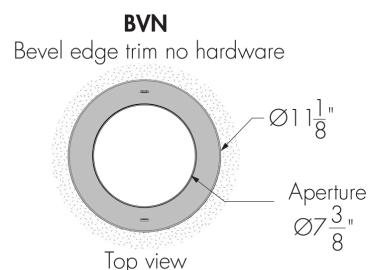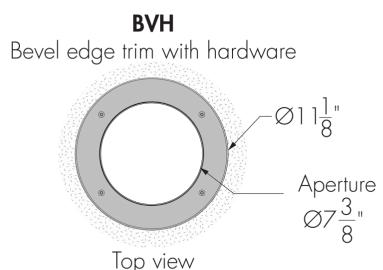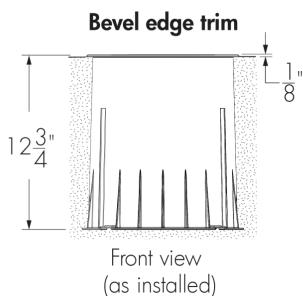
Bevel edge trim

$12\frac{3}{4}$"

$\frac{1}{8}$"

Front view
(as installed)

BVH
Bevel edge trim with hardware

$\varnothing 11\frac{1}{8}$"

Aperture
$\varnothing 7\frac{3}{8}$"

Top view

BVN
Bevel edge trim no hardware

$\varnothing 11\frac{1}{8}$"

Aperture
$\varnothing 7\frac{3}{8}$"

Top view

Blockout

RBO - Recessed Blockout

RBO - Recessed blockout

$\varnothing 10\frac{1}{4}$"

$12\frac{5}{8}$"

$\varnothing 1\frac{7}{8}$"
Inside diameter
of knockout
hole: $\varnothing 1\frac{13}{16}$"

$\varnothing 11\frac{13}{16}$"

Front view

$11\frac{7}{16}$"

$4x \varnothing \frac{1}{4}$"

Bottom view
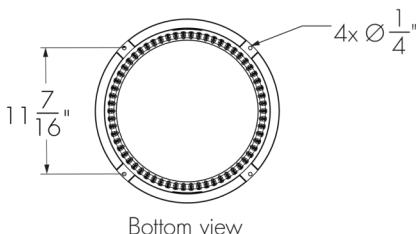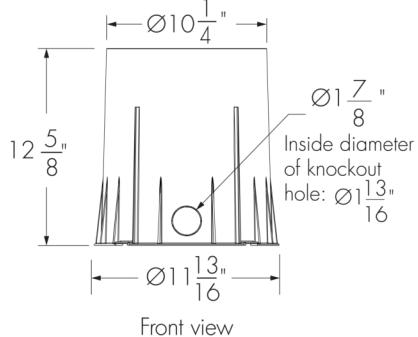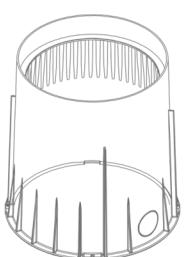
RBM - Recessed Blockout With Mounting Brackets

RBM - Recessed blockout
with mounting brackets

$\varnothing 10\frac{1}{4}$"

$12\frac{5}{8}$"

$\varnothing 1\frac{7}{8}$"
Inside diameter
of knockout
hole: $\varnothing 1\frac{13}{16}$"

$\varnothing 11\frac{13}{16}$"

Front view

$5\frac{3}{8}$"

$2x \varnothing \frac{1}{4}$"

Bottom view
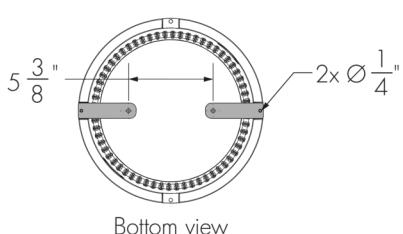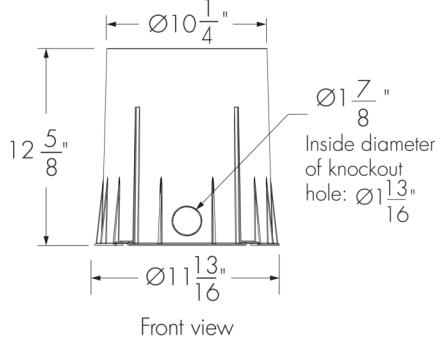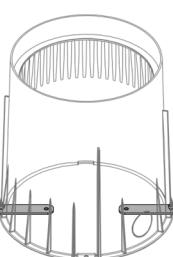
Overview - Cables and Accessories
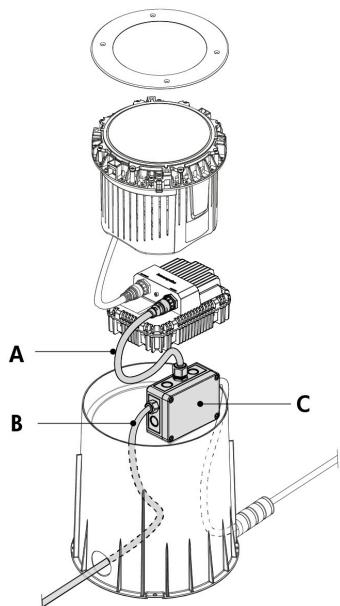
A - 3P3DLC: 3 Conductor Power and 3 Conductor Data Leader Cable with Connector

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: 10 ft, 25 ft or 50 ft

• 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: 50 ft, 100 ft, 150 ft, 200 ft or complete spool of cable 250 ft

Electrical Accessories (Order Separately)

LBI-JBOX-L - Large Junction Box For Lumenbeam Inground (Required For Continuous Runs And DMX/RDM Daisy Chain Layouts)
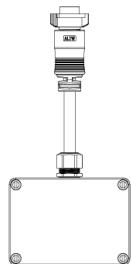
Included

1x Junction box with 16 in 3P3DLC cable whip
4x Strain reliefs
1x IP68 insulating resin
1x Sealing cap

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

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Control Boxes (Order Separately)

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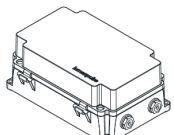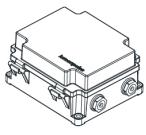
DMX/RDM control box. Up to six power and data outputs to fixtures or fixture runs. Consult CBX specification sheet and installation instructions for details. Lumenterminators provided with CBX (2x for Daisy Chain configuration, 6x for Star configuration), consult factory to order spares.

CBX-ENET - Ethernet Enabled (Daisy Chain or Star Configuration)
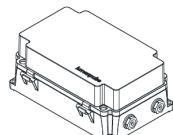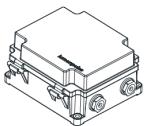
Ethernet control box. Up to four power and data outputs to fixture or fixture runs. Consult Ethernet CBX specification sheet and installation instructions for details.

Control Systems (Order Separately)

PHAROS - Pharos® Designer Lighting Control Kit

The Pharos Designer Lighting Contol Kit, available for 1 or 2 DMX universes, allows for complete control of large lighting installations.

EXPERT - Pharos® Expert Control Kit

The Pharos Expert Control Kit, available for 1, 2, 4 or 6 DMX universes, allows for complete control of large lighting installations.

Diagnostic And Addressing Tools (Order Separately)

LID - LumenID

The updated LumenID (LID) is an all-in-one diagnostic and addressing solution for both DMX/RDM and Lumentalk (LT) systems. Engineered for versatility, it streamlines commissioning and troubleshooting across protocols—no need for multiple tools. Cable option may vary; please consult factory. For complete details, refer to the LID specification sheet.

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Typical Wiring Diagrams

Typical Installation with Leader Cable

A
B
C
D
E
F
G
H
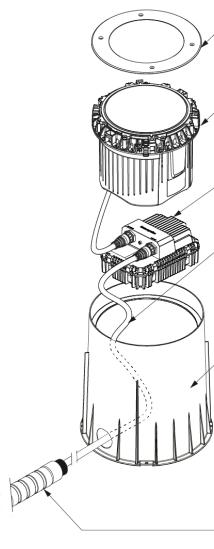
Single unit

**Typical Installation with LBI-JBOX-L Accessory**
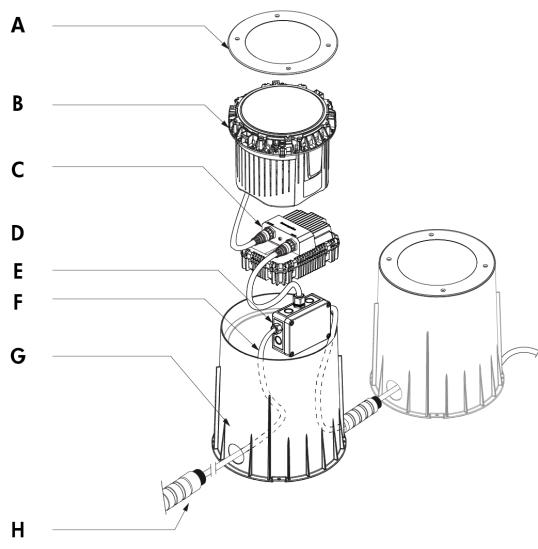
Continuous run

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)

Dim to Warm Via 0-10V (DIM/DTW*)
*Available For DWW Version Only, 2700K to 2200K

TOP VIEW

SECTION VIEW

TOP VIEW

SECTION VIEW
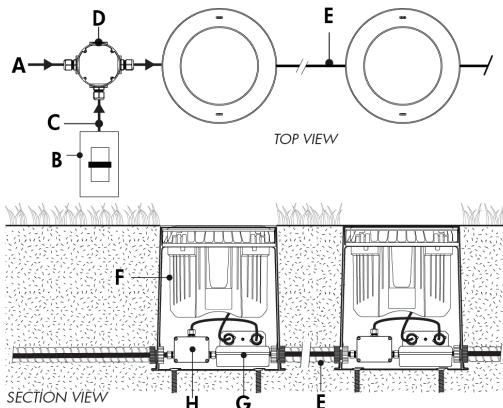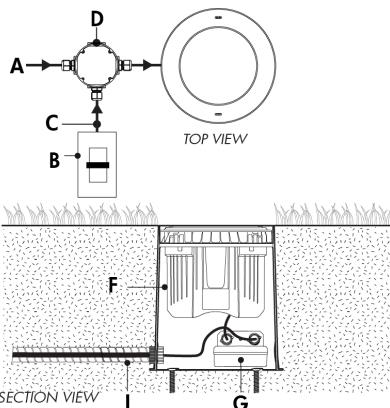
A - Power input (120-277V, wiring by others)
B - Dimmer (by others)
C - Data wiring (by others)
D - Junction box (by others)
E - 3 Conductor Power and 3 Conductor Data Cable (3P3DC) from Lumenpulse or cable by others
F - Optical chamber (LBILC)
G - Power and Control Box (PCBX)
H - Large Junction Box for Lumenbeam Inground (LBI-JBOX-L)
I - 3 Conductor Power and 3 Conductor Data Leader Cable with Connector (3P3DLC)

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- 0-10V mA ratings: passive dimmer (Current Sink): 3mA per fixture, active dimmer (Current Source): 0.5mA per fixture.
- Refer to Photometric Summary table for wattage information.

DALI 2 T8 (DALIT8)

TOP VIEW

TOP VIEW

SECTION VIEW

SECTION VIEW
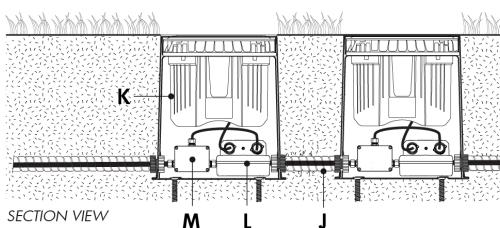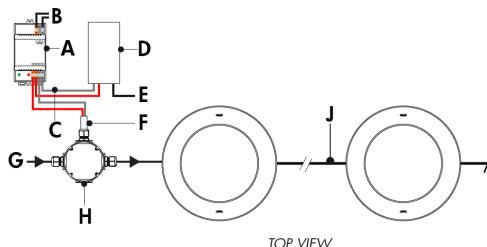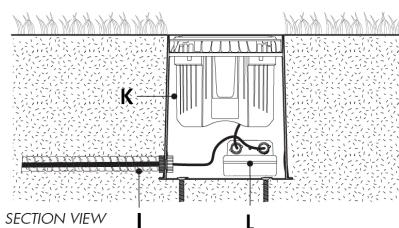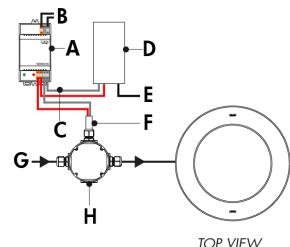
A - DALI bus power supply (by others)
B - Power input for DALI bus power supply (wiring by others)
C - To DALI controller (by others)
D - DALI controller (by others)
E - Power input for DALI controller (if required, wiring by others)
F - Data output to fixture
G - Power input (120-277V, wiring by others)
H - Junction box (by others)
I - 3 Conductor Power and 3 Conductor Data Leader Cable with Connector (3P3DLC)
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.

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DMX/RDM and DMX/RDM1* - 3 Channel DMX/RDM And Dim to Warm via single channel DMX/RDM
*Available For DWW Version only, 2700K To 2200K

Star layout

TOP VIEW

SECTION VIEW

Daisy chain layout

TOP VIEW

SECTION VIEW

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
LBIL (Maximum number of fixtures per run)	28	32	32	32

Based on15A maximum, 14AWG cable, fixtures spaced 10 ft on center, first fixture 50ft from CBX.

- Refer to CBX installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- 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.
- 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.

How to Order

Housing [1]	Construction	Voltage	Color and Color Temperature	Optic	Lens [7]	Optical Option	Control
LBIL Lumenbeam Inground Large [2]	**WO** Walk Over **DO** Drive Over [3]	**120/277** 120-277 Volts [4] **220/240** 220-240 Volts [5]	**DWW** Dynamic Warm White (2200K to 3000K) **DWH** Dynamic White (2700K to 6500K)	**VN** Very Narrow 6° [6] **NS** Narrow Spot 10° [6] **M** Medium 30° [6] **FL** Flood 40° [6] **WFL** Wide Flood 60° [6] **6x90** 6° Vertical x 90° Horizontal [6] **15x90** 15° Vertical x 90° Horizontal [6] **25x90** 25° Vertical x 90° Horizontal [6] **35x90** 35° Vertical x 90° Horizontal [6] **90x6** 90° Vertical x 6° Horizontal [6] **90x15** 90° Vertical x 15° Horizontal [6] **90x25** 90° Vertical x 25° Horizontal [6] **90x35** 90° Vertical x 35° Horizontal [6] **NAS** Narrow Asymmetric [6] **WW** Asymmetric Wallwash [6]	**CL** Clear Lens [8] **SFR** Small Frosted Ring [9] **LFR** Large Frosted Ring [10] **SL** Softening Lens [11]	**INTL** Internal Louver [12]	**DIM/DTW** Dim to Warm via 0-10V (2700K to 2200K) [13] **DMX/RDM1** Dim to Warm via Single-Channel DMX/RDM (2700K to 2200K) [13] [14] **DMX/RDM** DMX/RDM Enabled [14] **DALIT8** DALI 2 T8 Enabled Dimming 0.1% [15]

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. Consult factory for products that are BAA-approved (Buy America.n Act).
3. A trim option with hardware (FLH or BVH) must be specified for DO construction.
4. Available for UL certification only.
5. Available for CE certification only.
6. Factory installed, not interchangeable on site.
7. 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. Available for DWW color temperature option only.
14. A control box (CBX) and LumenID (LID) must be specified.
15. DALI 2 T8 controller required, provided by others. DALI2 T8 control uses a single DALI short address.

How to Order

Trim Type	Trim Finish	Blockout	Option	Environment	Certification
FLH Flush Trim with Hardware **FLN** Flush Trim no Hardware [16] **BVH** Bevel Edge Trim with Hardware **BVN** Bevel Edge Trim no Hardware [16]	**SSB** Brushed Stainless Steel **SSP** Polished Stainless Steel	**RBO** Recessed Blockout **RBM** Recessed Blockout with Mounting Brackets	**ASL** Anti-Slip Lens	**HRS** Standard Brass Material Suitable for Harsh Environments	**UL** UL Compliant **CE** CE Compliant [17]

Notes:

16. Not available for DO construction.
17. Consult European specification sheet and installation instructions for CE wiring information.