Project Name _____   **Qty** _____

Type _____   **Catalog / Part Number** _____

Aperture ∅7 3/8"

Top view

∅10 1/4"

∅1 7/8"

12 5/8"

Inside diameter of
knockout hole: ∅1 13/16"

∅11 13/16"

Front view
Shown with FLN trim type
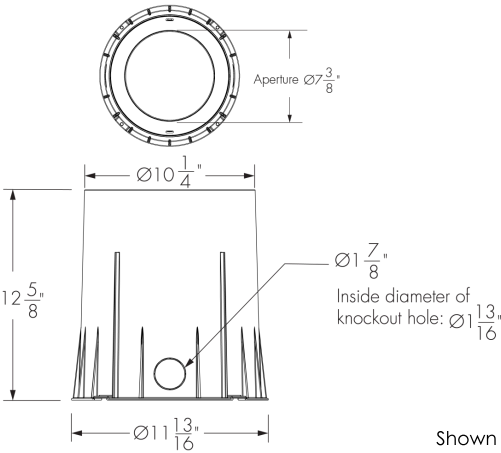
Photometric Summary

Symmetric

	Delivered output (lm)	Intensity (peak cd)	Power [1] (120V) [W]
VN (6°)	1695	83,330	30 [4]
NS (10°)	4371 [3]	63,536	60 [2]
M (30°)	4929 [3]	21,162	60 [2]
FL (40°)	4442 [3]	10,611	60 [2]
WFL (60°)	4118 [3]	4157	60 [2]

Bi-symmetric

	Delivered output (lm)	Intensity (peak cd)	Power [1] (120V) [W]
6°x90°	1585	8136	30 [4]
90°x6°			
15°x90°	3670 [3]	9152	60 [2]
90°x15°			
25°x90°	3836 [3]	5471	60 [2]
90°x25°			
35°x90°	3396 [3]	3536	60 [2]
90°x35°			

Asymmetric

	Delivered output (lm)	Intensity (peak cd)	Power [1] (120V) [W]
NAS	1713	26,491	30 [4]
WW	2182	3250	36 [2]

Based on 4000K, On/Off configuration. Tested with LFR lens
for VN optic, SFR for NAS, WW optics and CL lens for
all other optics.
Photometric performance is measured in compliance
with IESNA LM 79-08.
Consult photometric files for static color information.
[1] Add 5 W per fixture when specifying DMX/RDM.
[2] Use 39 W when specifying Lumentalk for white light.
[3] 70% output for Lumentalk, 80% output for DALI when
specifying white light.
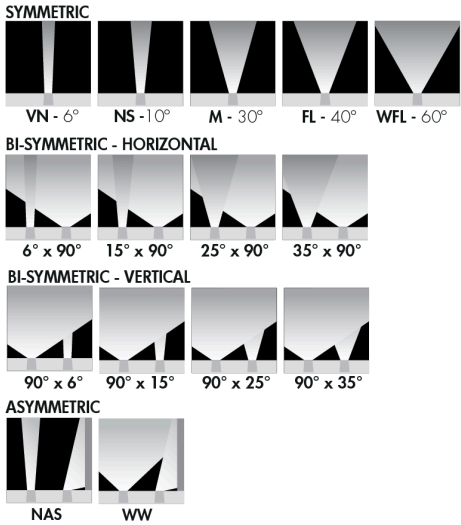[4] Use 32 W when specifying Lumentalk for VN, 6°x90°,
90°x6° and NAS.

Description

The Lumenbeam Inground Large is a high-performance,
ground-recessed LED projector 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 long-lasting performance. Built with robust, high-
quality materials that are resistant to harsh environments, the
Lumenbeam Inground Large delivers L70 LED lifetimes from
79,000 up to 370,000 hours, has a Drive-Over rating of 5000kg,
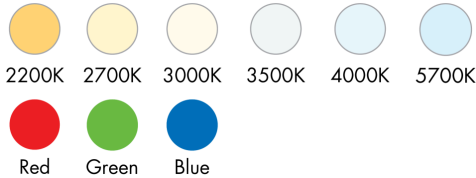IK10 glass lens and an IP68 factory-sealed optical chamber.

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	2200K, 2700K, 3000K, 3500K, 4000K, 5700K, Red, Green, Blue
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
Adjustment	-3° to +15° tilt, 360° rotation
Power Consumption	30 W to 60 W
Warranty	5-year limited warranty

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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

2200K   2700K   3000K   3500K   4000K   5700K

Red   Green   Blue

Controls

ON/OFF   0-10V   DALI

lumentalk   DMXrdm

Construction

WO - Walk over   DO - Drive over

Trim Finishes

SSB - Brushed Stainless Steel   SSP - Polished Stainless Steel

Options

Anti-slip lens

Performance

Maximum Delivered Output	4929 lm (4000K, M 30°, CL lens, On/Off control)
Maximum Delivered Intensity	83,330 cd at nadir (4000K, VN 6°, LFR lens, On/Off control)
Illuminance at Distance	Minimum 1 fc at 288 ft (4000K, VN 6°, LFR lens, On/Off control)
Color Consistency	2 SDCM, 3 SDCM (2200K and 5700K)
Color Rendering	Minimum CRI 80
Lumen Maintenance	L70 79,000 to 370,000 hrs (Ta 25 °C) L70 77,000 to 90,500 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	On/Off Control, Lumentalk, 0-10V Dimming, DALI Dimming, DMX/RDM Enabled
Resolution (DMX/RDM)	Per fixture, 8-bit or 16-bit

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
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

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Ratings

IP68   IK10

Certifications

Control Boxes

DMX/RDM enabled (Daisy Chain or Star Configuration), Ethernet enabled (Daisy Chain or Star Configuration)

Control Systems

Lumenscene™ (LSC), Pharos® Lighting Control Kit (PHAROS)

Diagnostic and Addressing Tools

LumenID (LID), LumentalkID (LIDLT)

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 - 4000K

CCT	CIE		TM-30	
4000K	R$_a$	83	85	R$_f$
	R$_9$	14	96	R$_g$
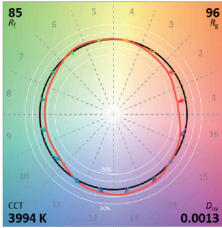
Spectral Power Distribution
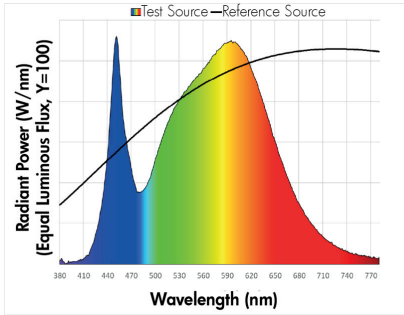
Construction Details

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

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Optics and Lens Options

22K, 27K, 30K, 35K, 40K and 57K Static Colors

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

RD, GR And BL Static Colors

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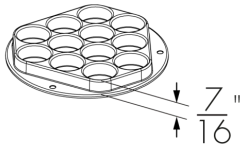
Optical Accessories (Factory Installed)

INTL - Internal Louver
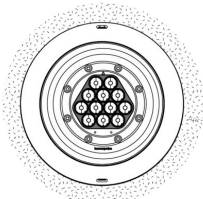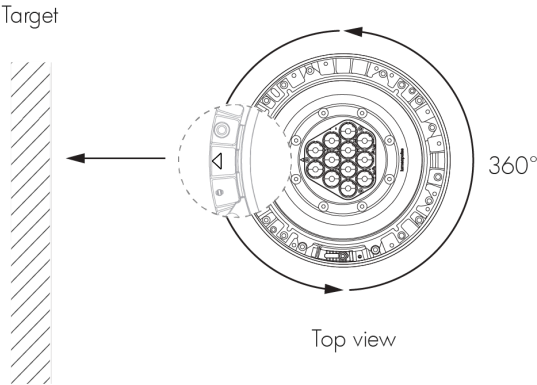
Top view
(as installed)

Ø4"

Top view

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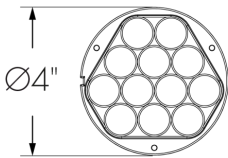
- The interal louver is factory installed and not adjustable in the field.

- Not available for NAS, WW optics.

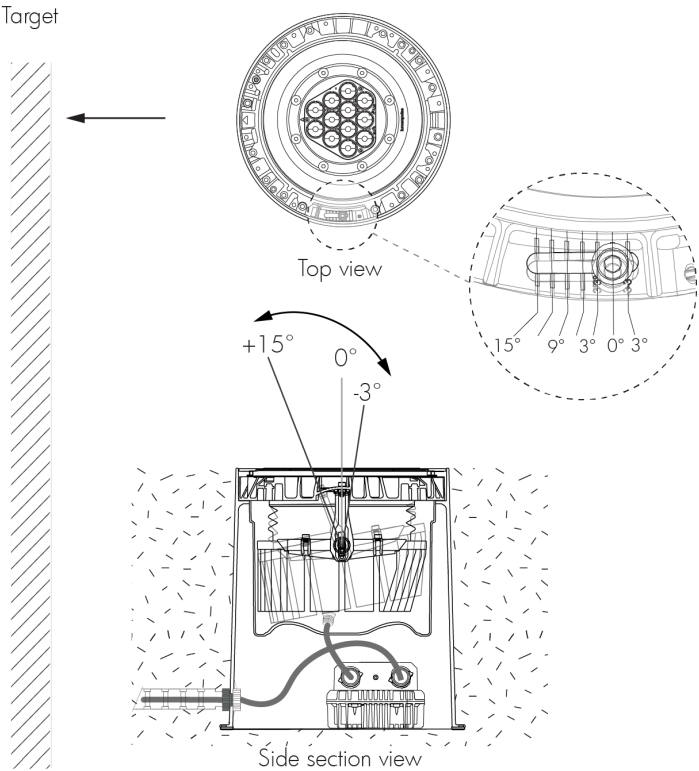- The addition of an internal louver will affect beam distribution, consult factory for application support.

Adjustment

360° Orientation

Target

360°

Top view

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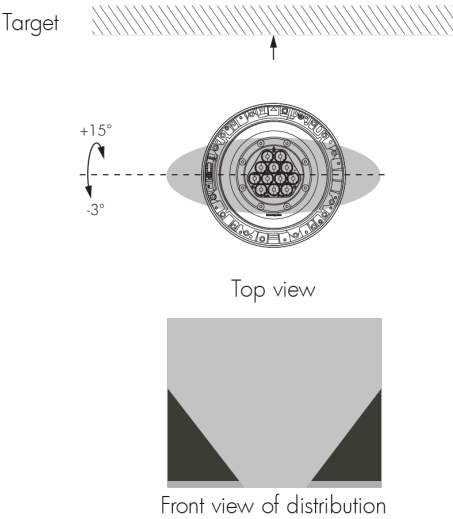Refer to the installation instructions for details.

-3° to +15° Tilt Adjustment

Target

Top view

+15°   0°   -3°

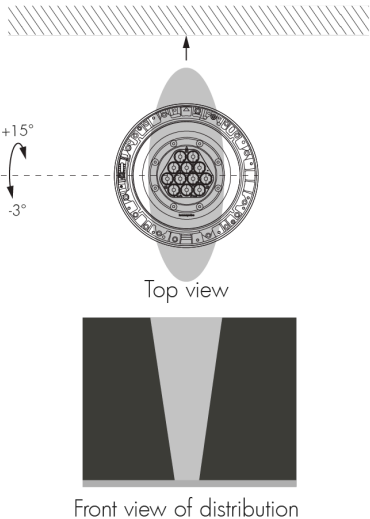15° 9° 3° 0° 3°

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°
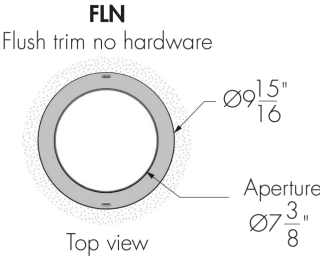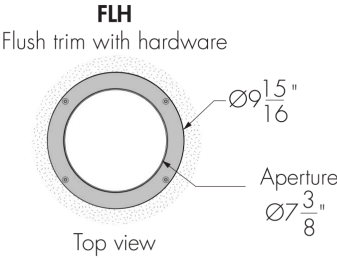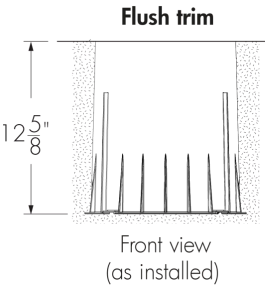
Target

+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

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
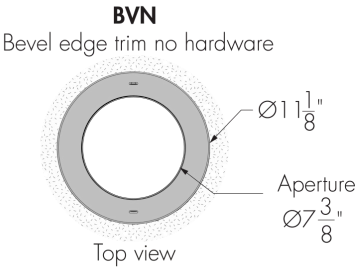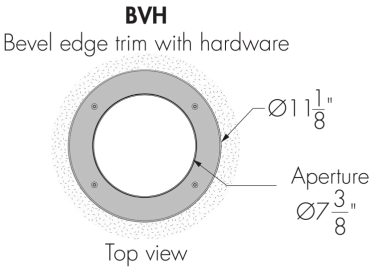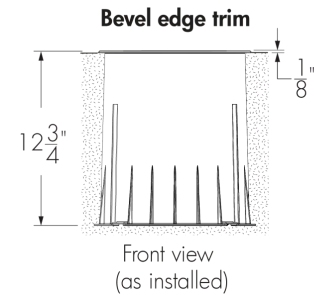
Bevel edge trim

$\frac{1}{8}$"

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

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
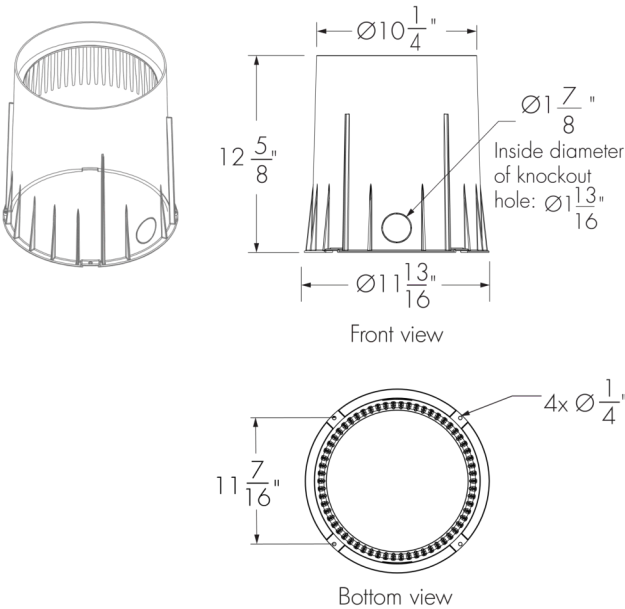
RBM - Recessed Blockout With Mounting Brackets

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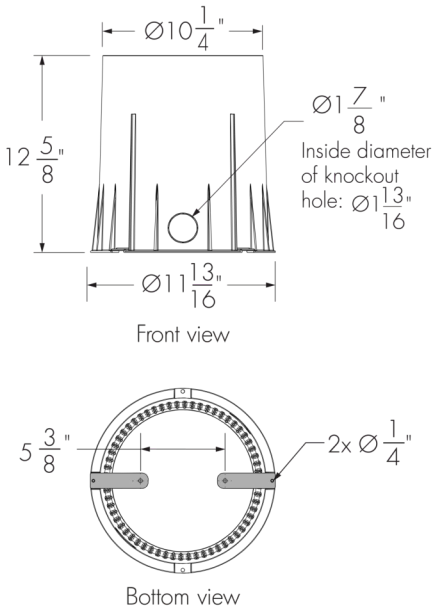
Overview - Cables and Accessories
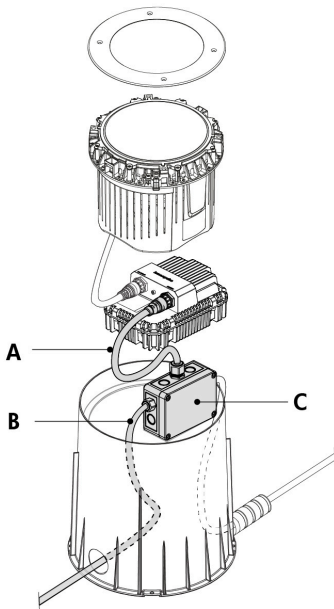
A - 3P3DLC: 3 Conductor Power and 3 Conductor Data Leader Cable with Connector

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.
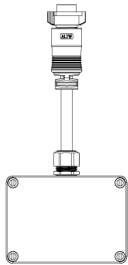- Consult 3P3DLC specification sheet for details.

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)
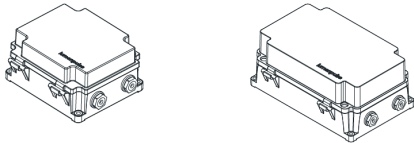

Included

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.

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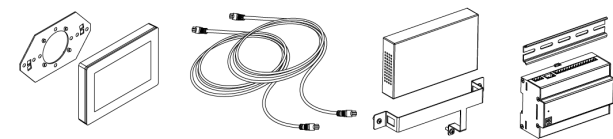
CBX-ENET - Ethernet Enabled (Daisy Chain or Star Configuration)
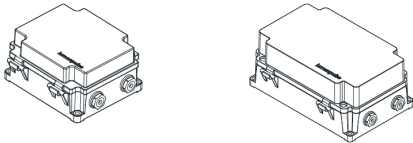
Ethernet control box. Up to four power and data outputs to fixture or fixture runs. Consult Ethernet CBX specification sheet and installation instructions for details.

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.

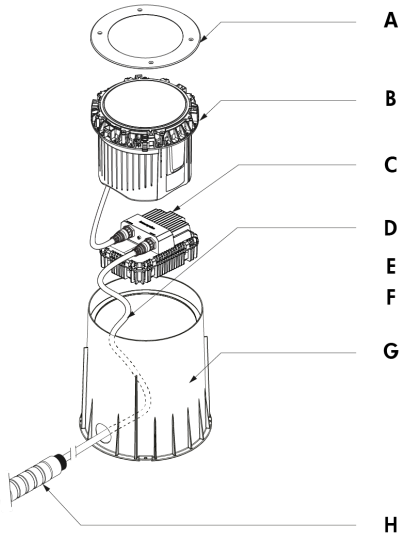## Diagnostic And Addressing Tools (Order Separately)

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.
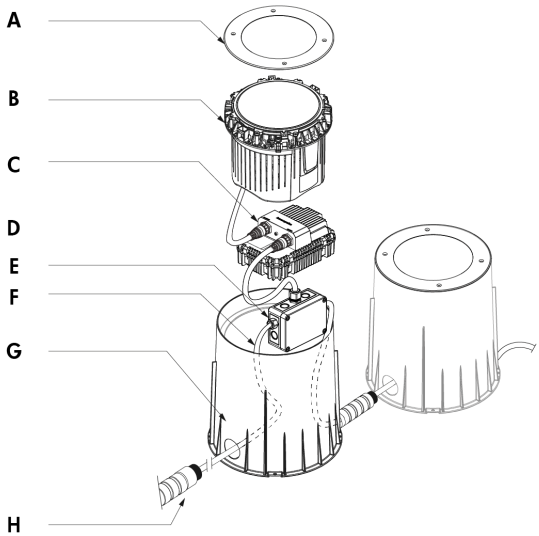
![lumenpulse™]

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Typical Wiring Diagrams

### Typical Installation with Leader Cable

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)

On/Off Control (NO)
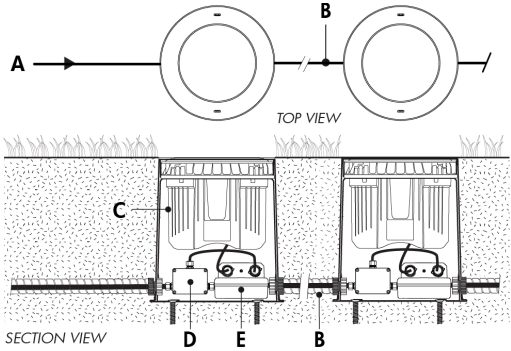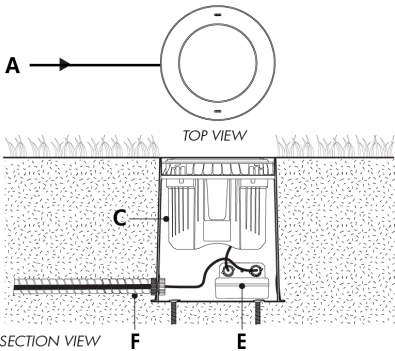
A - Power input (120-277V, wiring by others)
B - 3 Conductor Power and 3 Conductor Data Cable (3P3DC) from Lumenpulse or cable by others
C - Optical chamber (LBILC)
D - Large Junction Box for Lumenbeam Inground (LBI-JBOX-L)
E - Power and Control Box (PCBX)
F - 3 Conductor Power and 3 Conductor Data Leader Cable with Connector (3P3DLC)

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Refer to Photometric Summary table for wattage information.

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Lumentalk (LT)

A - Dimmer/controller (order separately from Lumenpulse, or by others)
B - Data wiring (by others)
C - Lumentranslator 2 (LTL2 -DIM, -DMX, -TRIAC, -DALI)
D - 3 Conductor Power and 3 Conductor Data Cable (3P3DC) from Lumenpulse or cable by others
E - Optical chamber (LBILC)
F - Power and Control Box (PCBX)
G - Large Junction Box for Lumenbeam Inground (LBI-JBOX-L)
H - 3 Conductor Power and 3 Conductor Data Leader Cable with Connector (3P3DLC)

- 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.
- For DMX applications: 1 DMX controller per Lumentalk network, maximum of 48 DMX channels per Lumentalk network (minimum step transition update rate is 1 second, minimum fade time between two colors is 1 minute). Consult factory for applications that require additional capabilities.
- Consult factory for DALI Lumentalk applications.
- 1% minimum dimming value. Refer to Photometric Summary table for wattage information.

0-10V Dimming (DIM)
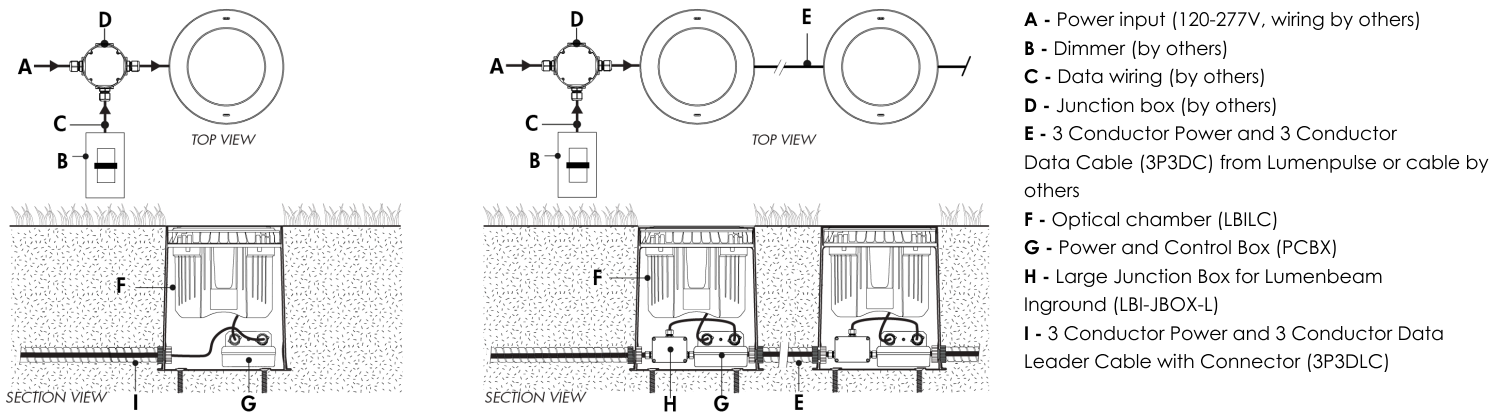
A - Power input (120-277V, wiring by others)
B - Dimmer (by others)
C - Data wiring (by others)
D - Junction box (by others)
E - 3 Conductor Power and 3 Conductor Data Cable (3P3DC) from Lumenpulse or cable by others
F - Optical chamber (LBILC)
G - Power and Control Box (PCBX)
H - Large Junction Box for Lumenbeam Inground (LBI-JBOX-L)
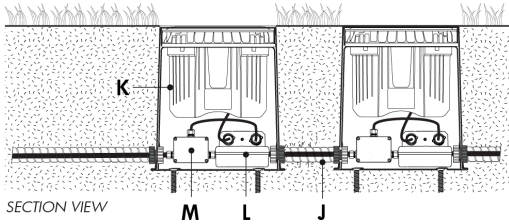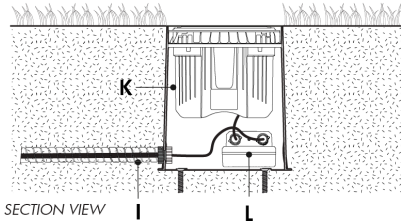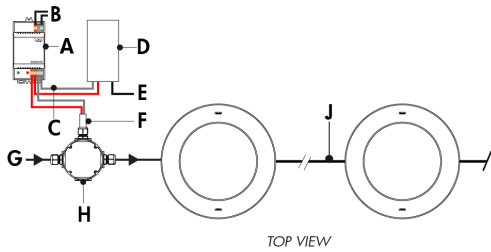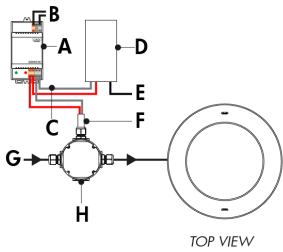**I -** 3 Conductor Power and 3 Conductor Data Leader Cable with Connector (3P3DLC)

- 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.
- 1% minimum dimming value. Refer to Photometric Summary table for wattage information.
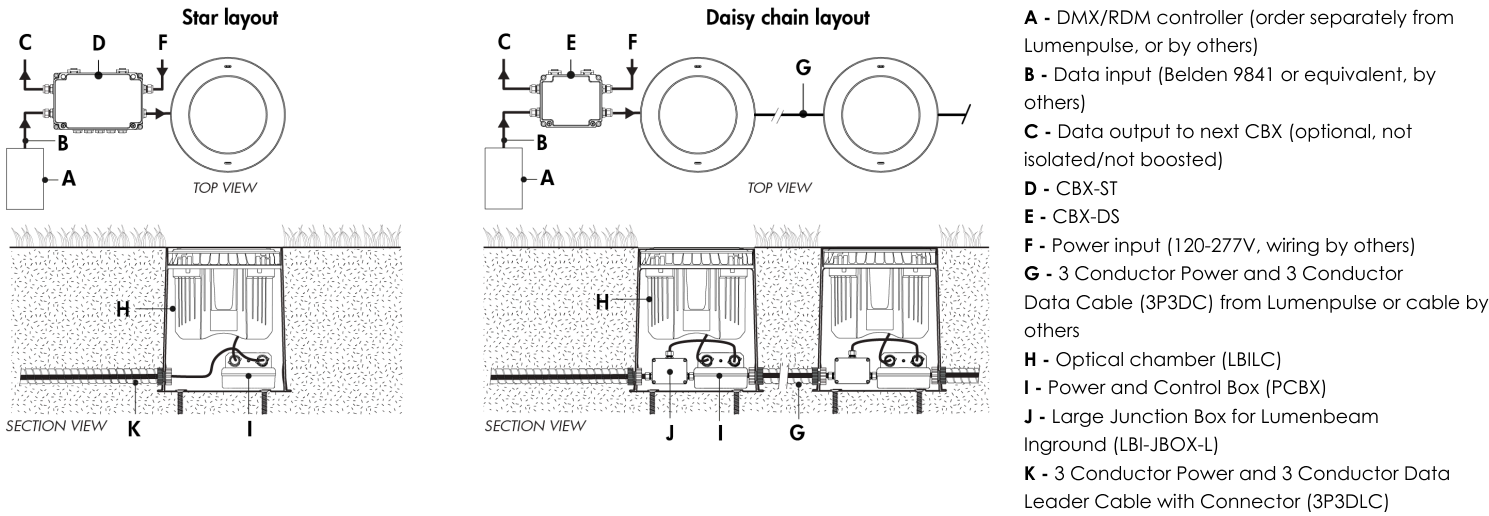
DALI Dimming (DALI)

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 (wiring by others)

F - 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.
- 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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JC - R14

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DMX/RDM Enabled (DMX/RDM)

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)	18*	32	32	32

Based on 15A maximum, 14AWG cable, fixtures spaced 10 ft on center, first fixture 50 ft from CBX.

*28 fixtures maximum for VN, 6°x90°, 90°x6°, NAS and WW optics.

- 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 (6)	Optic	Lens (9)	Optical Option	Control (15)	Trim Type	Trim Finish	Blockout	Option
LBIL Lumenbeam Inground Large (2)	**WO** Walk Over **DO** Drive Over (3)	**120/277** 120-277 Volts (4) **220/240** 220-240 Volts (5)	**22K** 2200K **27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K **57K** 5700K **RD** Red (7) **GR** Green (7) **BL** Blue (7)	**VN** Very Narrow 6° (8) **NS** Narrow Spot 10° (8) **M** Medium 30° (8) **FL** Flood 40° (8) **WFL** Wide Flood 60° (8) **6x90** 6° Vertical x 90° Horizontal (8) **15x90** 15° Vertical x 90° Horizontal (8) **25x90** 25° Vertical x 90° Horizontal (8) **35x90** 35° Vertical x 90° Horizontal (8) **90x6** 90° Vertical x 6° Horizontal (8) **90x15** 90° Vertical x 15° Horizontal (8) **90x25** 90° Vertical x 25° Horizontal (8) **90x35** 90° Vertical x 35° Horizontal (8) **NAS** Narrow Asymmetric (8) **WW** Asymmetric Wallwash (8)	**CL** Clear Lens (10) **SFR** Small Frosted Ring (11) **LFR** Large Frosted Ring (12) **SL** Softening Lens (13)	**INTL** Internal Louver (14)	**NO** On/Off Control **LT** Lumentalk (16) **DIM** 0-10V Dimming **DALI** DALI Dimming **DMX/RDM** DMX/RDM Enabled (17)	**FLH** Flush Trim with Hardware **FLN** Flush Trim no Hardware (18) **BVH** Bevel Edge Trim with Hardware **BVN** Bevel Edge Trim no Hardware (18)	**SSB** Brushed Stainless Steel **SSP** Polished Stainless Steel	**RBO** Recessed Blockout **RBM** Recessed Blockout with Mounting Brackets	**ASL** Anti-Slip Lens

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

7. Static colors made to order 8-10 weeks.

8. Factory installed, not interchangeable on site.

9. Consult Optics and Lens Options section for details.

10. Available for all optics except VN, NAS and WW.

11. Available for NAS and WW optics only.

12. Available for VN optic only.

13. Available as an alternate lens choice for all optics. A softening lens will affect beam distribution and output. Consult factory for application support.

14. Not available for NAS and WW optics.

15. Wattage and output may vary according to control option. Refer to Photometric Summary table for details.

16. A Lumentranslator 2 (LTL2) and LumenID (LID) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.

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

18. Not available for DO construction.

How to Order

Environment	Certification
HRS Standard Brass Material Suitable for Harsh Environments	**UL** UL Compliant **CE** CE Compliant (19)

Notes:

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

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