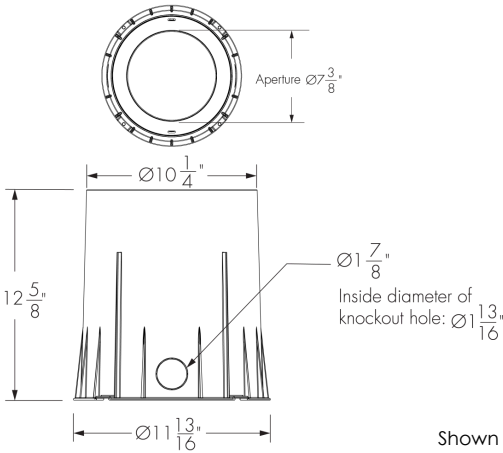


Project Name

Qty

Type

Catalog / Part Number



Photometric Summary (Discrete RGBW40K)

Symmetric		
	Delivered output (lm)	Intensity (peak cd)
VN (6°)	1,108	51,908
NS (10°)	1,136	31,645
M (30°)	1,073	3,289
FL (40°)	971	1,789
WFL (60°)	898	832

Bi-symmetric		
	Delivered output (lm)	Intensity (peak cd)
6°x90°	1,036	5,314
90°x6°		
15°x90°	915	3,108
90°x15°		
25°x90°	912	1,789
90°x25°		
35°x90°	779	882
90°x35°		

Asymmetric		
	Delivered output (lm)	Intensity (peak cd)
NAS	1119	17,313
WW	889	1,099

1. Based on RGBW40K full output, DMX/RDM configuration.
2. Lens type: LFR lens for VN optic, SFR lens for NAS optics, SL lens for M, FL, WFL and WW optics and CL lens for all other optics.
3. Power consumption: 33 W for RGB, 35W for RGBW30K, RGBW40K and RGBA.
4. Photometric performance is measured in compliance with IESNA LM-79-24.
5. Refer to the Lumenbeam Color Changing Photometric Guide on Lumenpulse website for information on other color temperatures.

Description

The Lumenbeam Inground Large Color Changing is a high-performance, ground-recessed LED projector that offers a choice of color 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 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 150,000 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
Colors and Color Temperature (Discrete)	RGBA: Discrete Red, Green Blue, Amber RGBW30K: Discrete Red, Green, Blue, White 30K RGBW40K: Discrete Red, Green, Blue, White 40K RGB: Discrete Red, Green, Blue
Colors and Color Temperature (Opticolor™)	MRGBA: Opticolor™ Mix-at-Source Red, Green, Blue, PC Amber
Colors and Color Temperature (Opticolor+®)	MRGBWP: Opticolor+® Mix-at-Source Red, Green, Blue Plus White Settable Range 24K to 65K MRGBWP Typical Color Rendering: 2700K-5000K: 90+ CRI 2500K-6500K: 80+ CRI MRGROYWP: Opticolor+® Mix-at-Source Red, Green, Royal Blue Plus White Settable Range 24K to 65K

Optics (Nominal Distribution)	VN (6°), NS (10°), NF (20°), M (30°), FL (40°), WFL (60°), 6° x 90°, 10° x 90°, 15° x 90°, 25° x 90°, 35° x 90°, 90° x 6°, 90° x 10°, 90° x 15°, 90° x 25°, 90° x 35°, NAS (Narrow Asymmetric), WW (Asymmetric Wallwash)
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Photometric Summary (Opticolor+ MRGBWP)

Symmetric		
	Delivered output (lm)	Intensity (peak cd)
NS (10°)	839	16,372
NF (20°)	770	5,244
M (30°)	748	2,896
FL (40°)	800	2,187
WFL (60°)	737	820
Bi-Symmetric		
10x90	795	2,303
15x90	675	1,298
25x90	646	944
35x90	692	930

1. Based on MRGBWP full output, white set to 3000K.
2. Power consumption: 25W for MRGBWP full output.
3. Photometric performance is measured in compliance with IESNA LM-79-24.
4. Refer to the [Lumenbeam Color Changing Photometric Guide](#) on Lumenpulse website for information on other color temperatures.

Photometric Summary (Opticolor MRGBA)

Symmetric		
	Delivered output (lm)	Intensity (peak cd)
NS (10°)	824	16,078
NF (20°)	756	5,150
M (30°)	735	2,844
FL (40°)	786	2,148
WFL (60°)	723	805
Bi-Symmetric		
10x90	780	2,261
15x90	662	1,274
25x90	634	927
35x90	679	913

1. Based on MRGBA full output.
2. Power consumption: 25W for MRGBWP full output.
3. Photometric performance is measured in compliance with IESNA LM-79-24.
4. Refer to the [Lumenbeam Color Changing Photometric Guide](#) on Lumenpulse website for information on other color temperatures.

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	33 W for RGB 35 W for RGBW30K, RGBW40K and RGBA 25 W for MRGBA, MRGBWP and MRGROYWP

Warranty 5-year limited warranty

Performance

Maximum Delivered Output (Discrete)	943 lm (RGB full output, NS 10°, CL lens, DMX/RDM) 1,113 lm (RGBW30K full output, NS 10°, CL lens, DMX/RDM) 1,136 lm (RGBW40K full output, NS 10°, CL lens, DMX/RDM) 911 lm (RGBA full output, NS 10°, CL lens, DMX/RDM)
Maximum Delivered Output (Opticolor)	1,284 lm (MRGBA full output, NS 10°, DMX/RDM)
Maximum Delivered Output (Opticolor+)	1,113 lm (MRGBWP full output, NS 10°, DMX/RDM)
Maximum Delivered Intensity (Discrete)	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)
Maximum Delivered Intensity (Opticolor)	351,449 cd at nadir (MRGBA full output, NS 10°, DMX/RDM)
Maximum Delivered Intensity (Opticolor+)	50,870 cd at nadir (MRGBWP full output, NS 10°, DMX/RDM)
Illuminance at Distance (Discrete)	Minimum 1 fc at 208 ft (RGB full output, VN 6°, LFR lens, DMX/RDM) Minimum 1 fc at 226 ft (RGBW30K full output, VN 6°, LFR lens, DMX/RDM) Minimum 1 fc at 228 ft (RGBW40K full output, VN 6°, LFR lens, DMX/RDM) Minimum 1 fc at 205 ft (RGBA full output, VN 6°, LFR lens, DMX/RDM)
Illuminance at Distance (Opticolor)	Minimum 1 fc at 252 ft (MRGBA full output, NS 10°, DMX/RDM)
Illuminance at Distance (Opticolor+)	Minimum 1 fc at 276 ft (MRGBWP full output, NS 10°, DMX/RDM)

Color and Color Temperature



opticolor+®
Opticolor+®
Mix-at-Source
Red, Green,
Blue Plus White
Settable
Range 24K to
65K



opticolor™
Opticolor™
Mix-at-Source
Red, Green,
Blue, PC
Amber



RGBA
Discrete Red,
Green Blue,
Amber



RGBW 30K
Discrete Red,
Green, Blue,
White 30K



RGBW 40K
Discrete Red,
Green, Blue,
White 40K



RGB
Discrete Red,
Green, Blue



opticolor+®
Opticolor+®
Mix-at-Source
Red, Green,
Royal Blue Plus
White Settable
Range 24K to
65K

Control

DMX/RDM

Construction



WO - Walk over



DO - Drive over

Trim Finishes



SSB - Brushed Stainless Steel



SSP - Polished Stainless Steel

Options



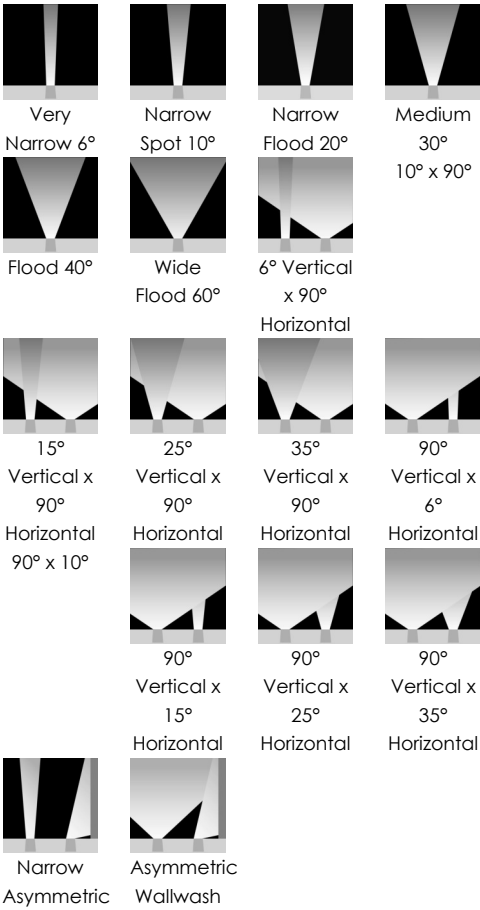
Anti-slip lens

Lumen Maintenance		L70 (15K) > 90,000 hrs Ta 25 °C (TM-21 reported) L70 > 150,000 hrs Ta 25 °C (projected)* L90 (15K) = 55,400 hrs Ta 25 °C (TM-21 reported) L90 = 55,400 hrs Ta 25 °C (projected)* *Estimated based on in-situ case temperature and LM-80 report
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	DMX/RDM Enabled, DALI 2 T8 Enabled Dimming 0.1%	
Resolution (DMX/RDM)	Per fixture, 8-bit or 16-bit, 3 channels (RGB) or 4 channels (RGBW30K, RGBW40K, RGBA, MRGBA, MRGBWP and MRGROYWP)	
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	
Control Boxes	DMX/RDM enabled (Daisy Chain or Star Configuration), Ethernet enabled (Daisy Chain or Star Configuration)	
Control Systems	Pharos® Designer Lighting Control Kit (PHAROS), Pharos® Express Control Kit (EXPERT)	
Diagnostic and Addressing Tools	LumenID (LID)	

Ratings

IP68 IK10

Optic



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.

Lumencycle™ Program

Lumencycle is a comprehensive program designed to maximize the life of Lumenpulse fixtures while preserving their performance, quality, and design intent. Built around three pillars—Repair, Restore, and Recycle—the program provides clear pathways to maintain existing installations, restore fixtures, and responsibly manage them at end of life. For full program details, visit <https://www.lumenpulse.com/lumencycle>.

Lumencycle™ Program



Certifications



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 and Lens Options (Discrete)



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.

Optics and Lens Options (Opticolor and Opticolor+)

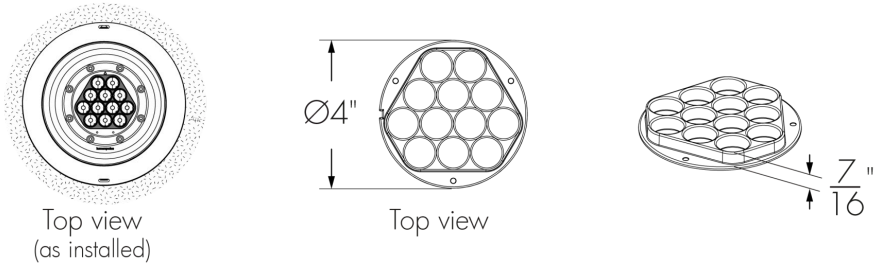


Optics / Lens	Clear	Softening	Anti-slip
NS	☑	Optional	Optional (can be combined with all lenses and optics)
NF	☑		
M	☑		
FL	☑		
WFL	☑		
10°/15°/25°/35° x 90°	☑		

☑ 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.

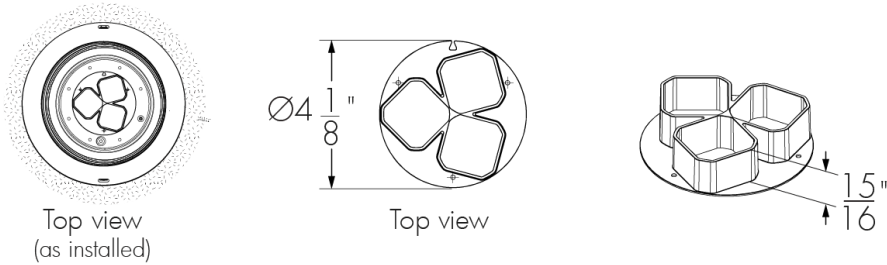
Optical Accessories (Factory Installed)

INTL - Internal Louver (Discrete)



- The internal 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.

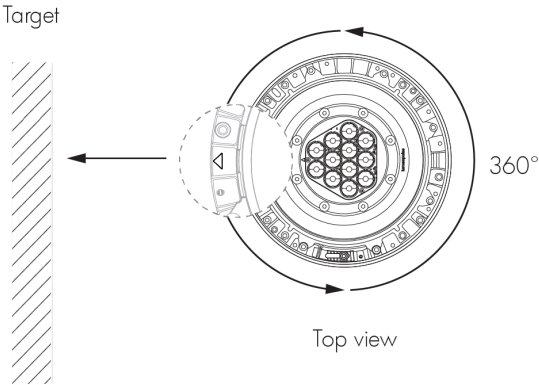
INTL - Internal Louver (Opticolor and Opticolor+)



- The internal louver is factory installed and not adjustable in the field.
- The addition of an internal louver will affect beam distribution, consult factory for application support.

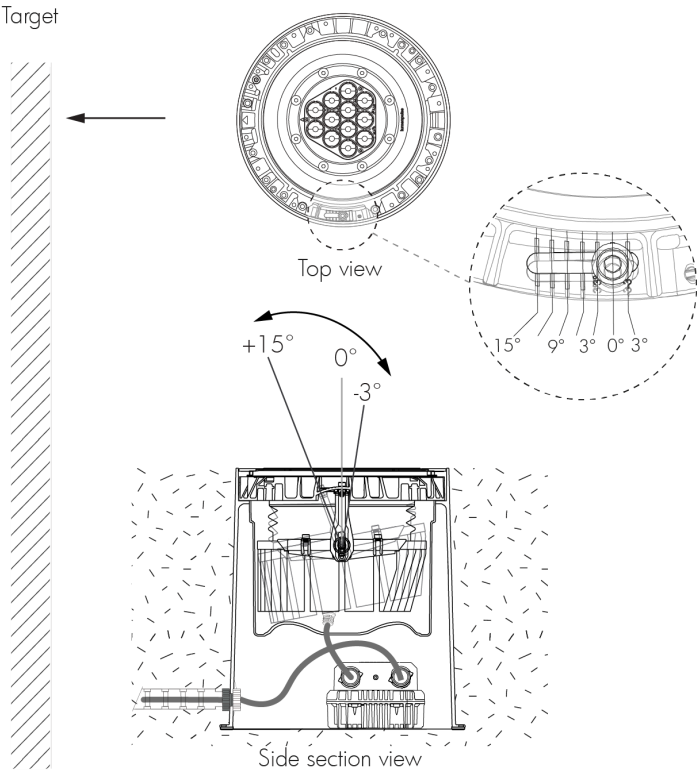
Adjustment

360° Orientation



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

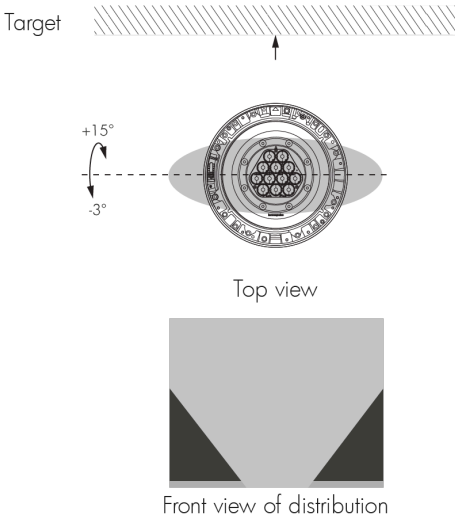
-3° to +15° Tilt Adjustment



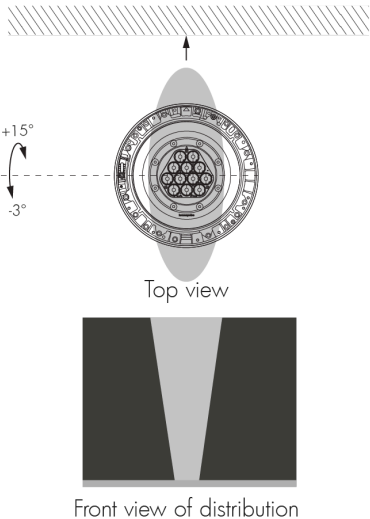
- Tilt can be adjusted on site without opening the factory sealed optical chamber.
- **Asymmetrical optics:** The optical chamber is factory-set to 0°. For optimal results with asymmetrical optics, a 3° tilt is recommended for the NAS optic, and a 5° tilt is recommended for the WW optic.

Bi-Symmetrical Distributions

Horizontal Distribution: 6°x90°, 10°x90°, 15°x90°, 25°x90°, 35°x90°

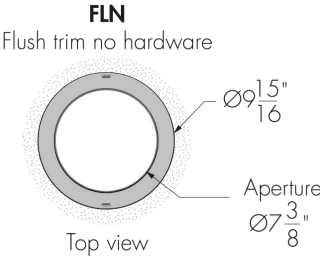
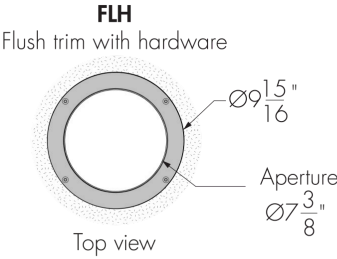
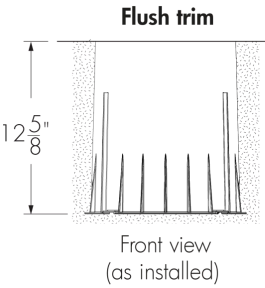


Vertical Distribution: 90°x6°, 90°x10°, 90°x15°, 90°x25°, 90°x35°



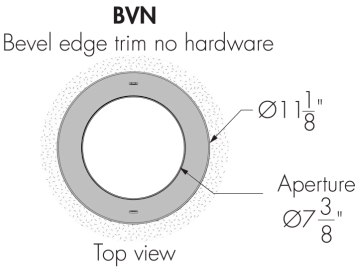
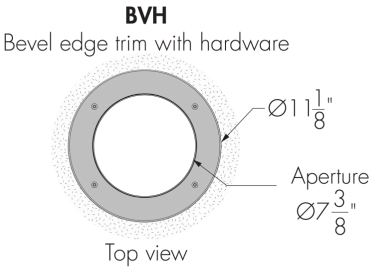
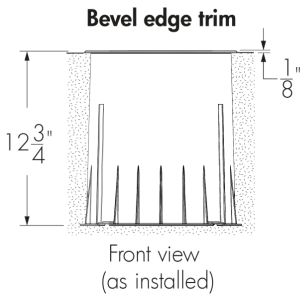
Trim Type

Flush Trim



Only trims with hardware are drive-over compliant.

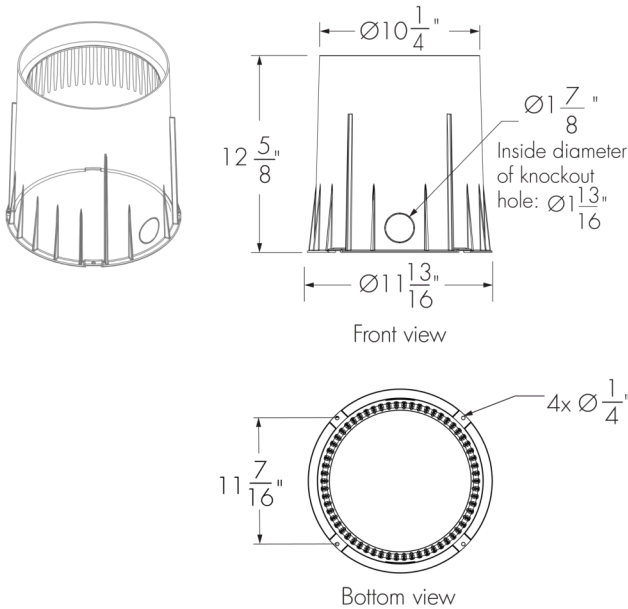
Bevel Edge Trim



Blockout

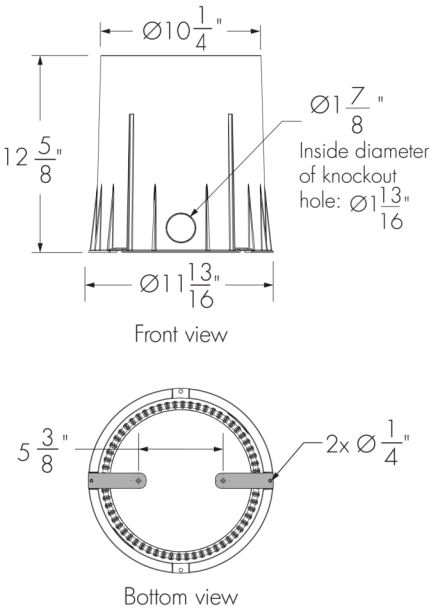
RBO - Recessed Blockout

RBO - Recessed blockout

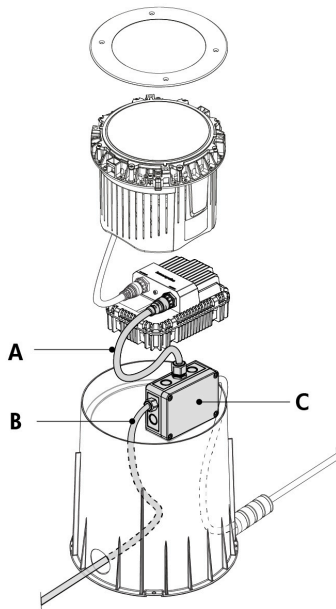


RBM - Recessed Blockout With Mounting Brackets

RBM - Recessed blockout
with mounting brackets



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.

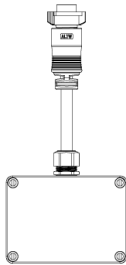
3P3DC - 3 Conductor Power and 3 Conductor Data Cable



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)

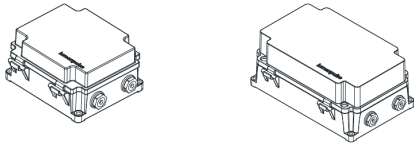


- Included**
- 1x Junction box with 16 in 3P3DLC cable whip
 - 4x Strain reliefs
 - 1x IP68 insulating resin
 - 1x Sealing cap

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

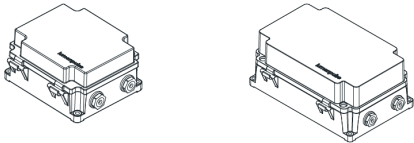
Control Boxes (Order Separately)

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.

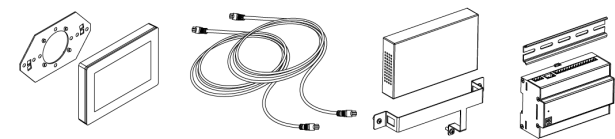
CBX-ENET - Ethernet Enabled (Daisy Chain or Star Configuration)



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.

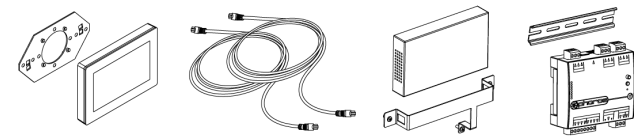
Control Systems (Order Separately)

PHAROS - Pharos® Designer Lighting Control Kit



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

EXPERT - Pharos® Express Control Kit



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

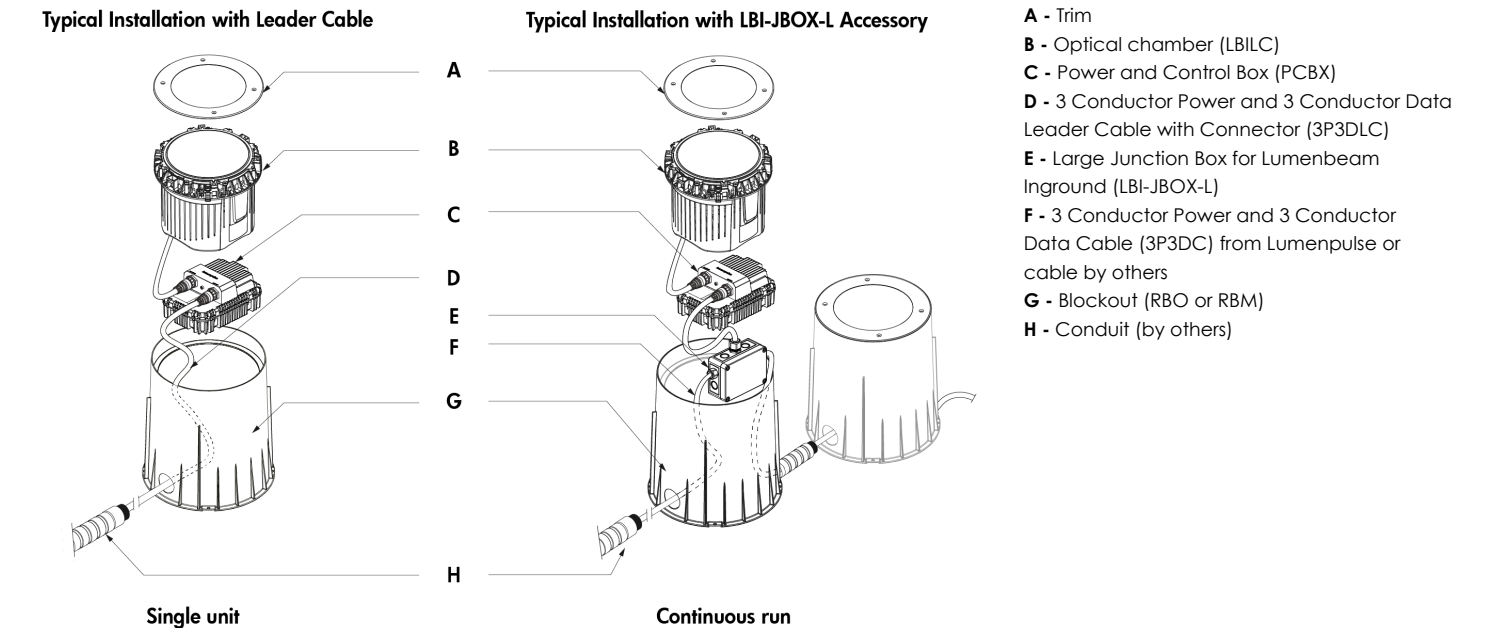
Diagnostic And Addressing Tools (Order Separately)

LID - LumenID

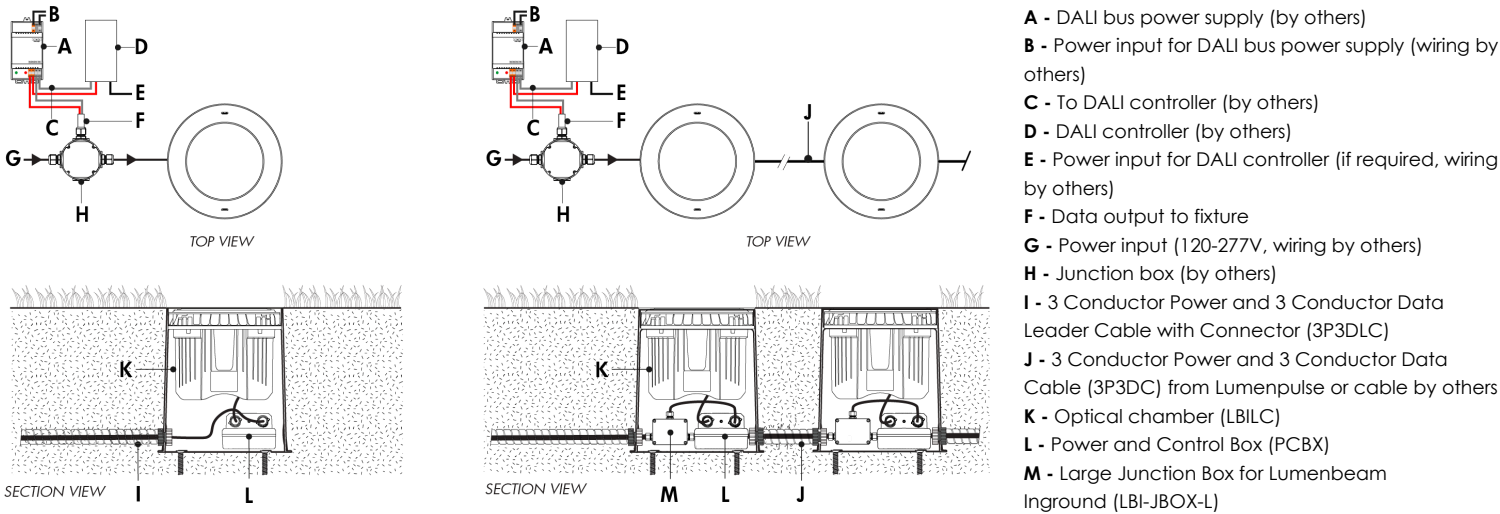


The updated LumenID (LID) is an all-in-one diagnostic and addressing solution for both DMX/RDM and Lumentalk (LT) systems. Engineered for versatility, it streamlines commissioning and troubleshooting across protocols—no need for multiple tools. Cable option may vary; please consult factory. For complete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

Typical Wiring Diagrams

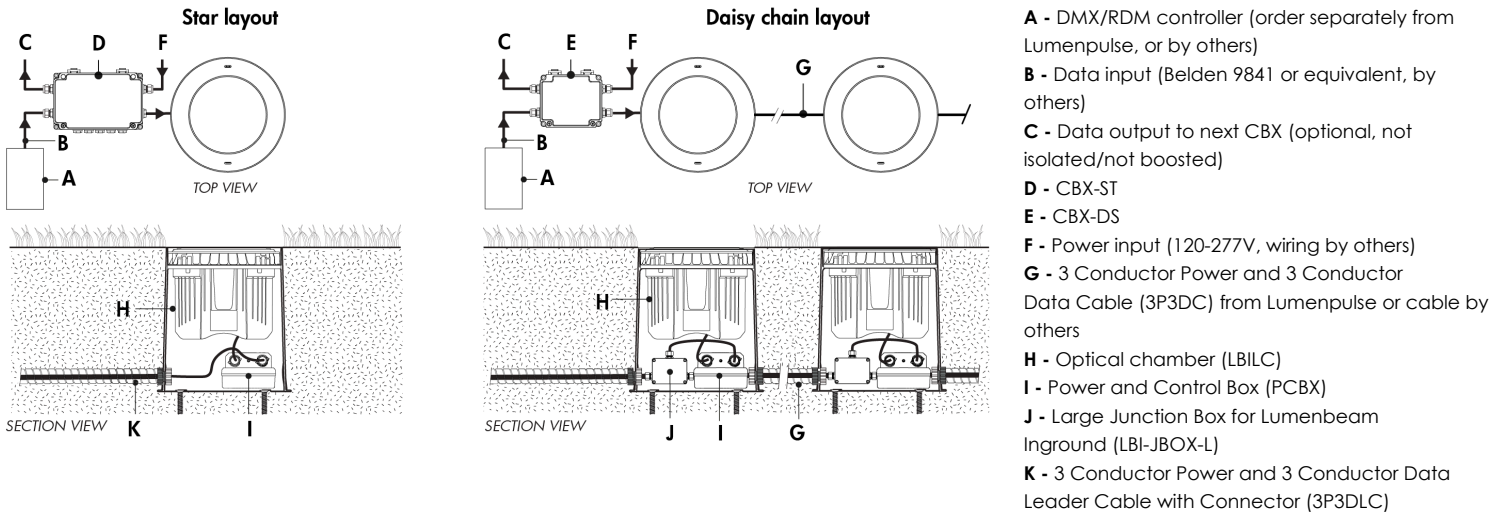


DALI 2 T8 (DALI8)



- 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)



Maximum Fixture Count

Configuration/Voltage	120V	208V	240V	277V
LBIL (Maximum number of fixtures per run)	28	32	32	32

Based on 15A 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.
- Each fixture requires 1, 2, 3, 4, or 5 DMX addresses depending on control mode selected onsite.

How to Order

Housing ⁽¹⁾	Construction	Voltage	Color and Color Temperature ⁽⁶⁾	Optic	Lens ⁽²¹⁾	Optical Option	Control	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⁾	MRGBWP Opticolor+® Mix-at- Source Red, Green, Blue Plus White Settable Range 24K to 65K ⁽⁷⁾ ⁽⁸⁾ ⁽⁹⁾ ⁽¹⁰⁾ ⁽¹¹⁾	VN Very Narrow 6° ⁽¹⁸⁾ ⁽¹⁹⁾	CL Clear Lens ⁽²²⁾ ⁽²³⁾	INTL Internal Louver ⁽²⁷⁾ ⁽²⁸⁾	DMX/RDM DMX/RDM Enabled ⁽²⁹⁾ DALI18 DALI 2 T8 Enabled Dimming 0.1% ⁽¹¹⁾ ⁽³⁰⁾	FLH Flush Trim with Hardware FLN Flush Trim no Hardware ⁽³¹⁾ BVH Bevel Edge Trim with Hardware BVN Bevel Edge Trim no Hardware ⁽³¹⁾	SSB Brushed Stainless Steel SSP Polished Stainless Steel	RBO Recessed Blockout RBM Recessed Blockout with Mounting Brackets	ASL Anti-Slip Lens
			NS Narrow Spot 10° ⁽¹⁸⁾	SFR Small Frosted Ring ⁽¹⁹⁾ ⁽²⁴⁾							
			NF Narrow Flood 20° ⁽²⁰⁾	LFR Large Frosted Ring ⁽¹⁹⁾ ⁽²⁵⁾							
			M Medium 30° ⁽¹⁸⁾	SL Softening Lens ⁽²⁶⁾							
			FL Flood 40° ⁽¹⁸⁾								
			WFL Wide Flood 60° ⁽¹⁸⁾								
			6x90 6° Vertical x 90° Horizontal ⁽¹⁸⁾ ⁽¹⁹⁾								
			10x90 10° Vertical x 90° Horizontal ⁽²⁰⁾								
			15x90 15° Vertical x 90° Horizontal ⁽¹⁸⁾								
			25x90 25° Vertical x 90° Horizontal ⁽¹⁸⁾								
			35x90 35° Vertical x 90° Horizontal ⁽¹⁸⁾								
			90x6 90° Vertical x 6° Horizontal ⁽¹⁸⁾ ⁽¹⁹⁾								

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 American 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. White Channel Set Point or Warm Dimming Range is adjustable at commissioning. Consult Opticolor+ Personality Guide for details.
7. Not available with XN, VN, NAS and WW optics.
8. Consult factory for the availability of more color and CCT options.
9. MRGBWP and MRGROYWP can be configured to MRGB via RDM, consult factory for more details.
10. Fixtures are shipped from the factory in Optidrive™ Mode. Normal Mode can be activated onsite for DMX/RDM and LT fixtures. For DMX/RDM applications, Optidrive Mode requires a LumenID, LumenID software and onsite commissioning. For LT applications, Optidrive Mode requires a LumenID, LumentalkID software and onsite commissioning. Additionally, with Opticolor+™ the white CCT is configurable in the field from 2200K-8000K.
11. Consult factory for DALI T8 applications with MRGBWP or MRGROYWP and a CCT other than 3000K.
12. Consult factory for the availability of more color and CCT options (e.g. royal blue).
13. Not available for VN, 6x90, 90x6, NAS and WW optics.
14. Available for all optics except NF, 10x90 and 90x10.
15. Consult factory for availability of other color options such as Royal Blue.
16. Longer lead time of 10-12 weeks.
17. Consult factory for photometric performance.
18. Factory installed, not interchangeable on site.

19. Not available with MRGBA, MRGBWP and MRGROYWP color temperature options.
20. Available with MRGBA, MRGBWP and MRGROYWP color temperature options only.
21. Consult Optics and Lens Options section for details.
22. When combined with RGB, RGBW30K, RGBW40K or RGBA, CL Lens is available for all optics except for VN, M, FL, WFL, NAS and WW.
23. Recommended lens for MRGBA, MRGBWP and MRGROYWP options. SL Lens available as an alternate lens. A Softening Lens will affect beam distribution and output. Consult factory for application support.
24. Available for NAS optic only.
25. Available for VN optic only.
26. Standard lens for M, FL, WFL and WW optics when combined with RGB, RGBW30K, RGBW40K or RGBA. Available as an alternate lens choice for all other optics. A softening lens will affect beam distribution and output. Consult factory for application support.
27. Not available for NAS and WW optics.
28. Not available when MRGBA, MRGBWP and MRGROYWP options are combined with SL lens.
29. A control box (CBX) and LumenID (LID) must be specified.
30. DALI 2 T8 controller required, provided by others. DALI 2 T8 control uses a single DALI short address.
31. Not available for DO construction.

How to Order

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Environment	Certification
HRS Standard Brass Material Suitable for Harsh Environments	UL UL Compliant CE CE Compliant (32)

Notes:

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