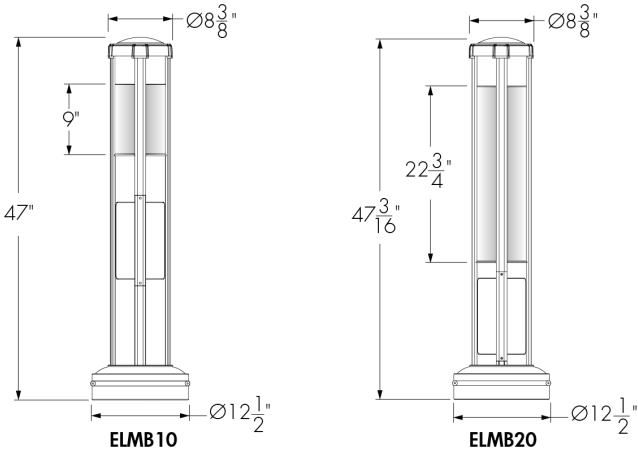


Project Name

Qty

Type

Catalog / Part Number



Photometric Summary

Output	RO - Regular output		HO - High output	
	ELMB10	ELMB20	ELMB10	ELMB20
Delivered lumens (lm)	817	1179	1119	1615

Based on CRI 80, 4000K, On/off control.
Photometric performance is measured in compliance with IESNA LM-79-08.

Housing	ELMB10	ELMB20
Delivered lumens (lm)	220	318

Based on RGBW40K full output, DMX/RDM control.
Photometric performance is measured in compliance with IESNA LM-79-08.

Description

The Element Bollard is a flexible high-performance LED bollard for decorative lighting, public squares, and access roads. Configurable, the sturdy luminaire provides a choice of outputs and finishes, as well as Legacy or Custom output modes, offering you flexibility with exceptional continuity. The Element Bollard is also available in RGBW, Dynamic Warm, and Dynamic White, allowing you to create a number of effects and looks, including static solid colours, dynamic colour chases, pulses, and even rainbow cascades.

Electrical and Control

Output (Nominal Lumens)	Regular Output, High Output
Voltage	120 Volts, 208 Volts, 240 Volts, 277 Volts, 347 Volts, 480 Volts
Control	On/Off Control, 0-10V Dimming, DALI Dimming, DMX/RDM Enabled, Dim to Warm via 0-10V (2700K to 2200K), Dim to Warm via Single-Channel DMX/RDM (2700K to 2200K), Lumentalk

Features

Color and Color Temperature	2200K, 2700K, 3000K, 3500K, 4000K, 5700K, Dynamic Warm White (2200K to 3000K), Dynamic White (2700K to 6500K), RGB + White 3000K, RGB + White 4000K
Distributions	Symmetric 120
Option	Surge Protector
Warranty	5-year limited warranty

Performance

Color Rendering	CRI 70+, CRI 80+
Lumen Maintenance	L70 120,000hrs (Ta 25 °C [77 °F])

Wattage Summary

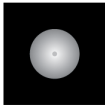
White Light	Voltage	RO - Regular output [W]†	HO - High output [W]†
NO/DIM/ DALI	120-277V	24	33
	347V	25	36
	480V	26	36
DMX/RDM	120-277V	26	34
	347V	25	36
	480V	26	36
LT	120-277V	27	36

Color Changing	Voltage	Wattage†
RGBW30K, RGBW40K - DMX/RDM	120-480V	20
RGBW30K, RGBW40K - LT	120-277V	Consult factory

Dynamic White	Voltage	Wattage†
DWH - DMX/RDM	120-277V	15
	347-480V	16
DWW - DIM 0-10V	120-277V	13
	347-480V	14
DWW - DMX/RDM	120-277V	15
	347-480V	16
DWW - DMX/RDM1	120-277V	13
	347-480V	14
LT	120-277V	Consult factory

†Delivered wattage: +/- 10% tolerance.

Distribution



S120

Colors and Color Temperatures

White & Static Colors



Dynamic White



Color Changing



Physical

Housing Material	Aluminum
Lens Material	Moulded white and UV stabilized acrylic
Weight	38.2 lbs
EPA	1.88 ft²

Environmental

Environment	Dry/damp/wet location
Operating Temperature	-40 °F to 104 °F

Ratings

LED module	IP66 - Outdoor rated
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Accessories (Order Separately)

Control Boxes	DMX/RDM enabled (Daisy Chain or Star Configuration)
Control Systems	Consult Control Systems section for details, Lumentone™ 2 (LTN2), Pharos® Designer 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.

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>.

Control

ON/OFF 0-10V DALI
DMXr^{dm} DIM/DTW DMX/RDM1
lumen^{talk}

Lumencycle™ Program



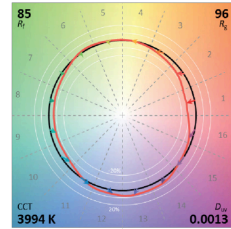
Certifications



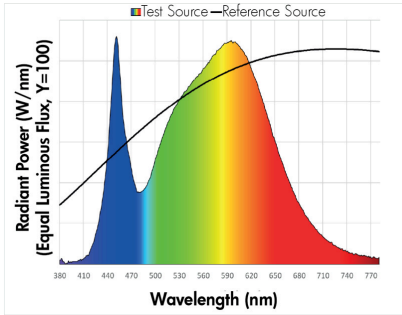
Chromaticity Data

TM-30 - 4000K

CCT	CIE		TM-30	
4000K	R _a	83	85	R _f
	R _g	14	96	R _g

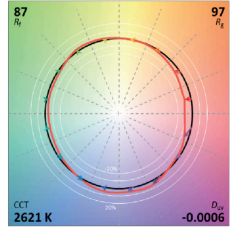


Spectral Power Distribution

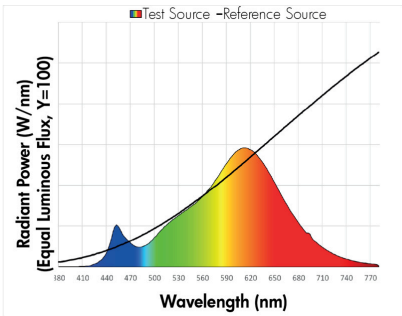


TM-30 - DWW

CCT	CIE		TM-30	
DWW Full Output	R _a	86	87	R _f
	R _g	26	97	R _g

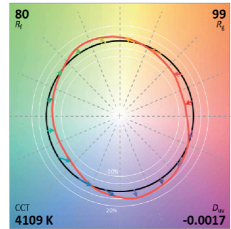


DWW Spectral Power Distribution

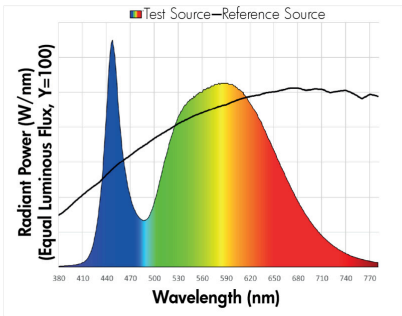


TM-30 - DWH

CCT	CIE		TM-30	
DWH Full Output	R _a	81	80	R _f
	R _g	22	99	R _g

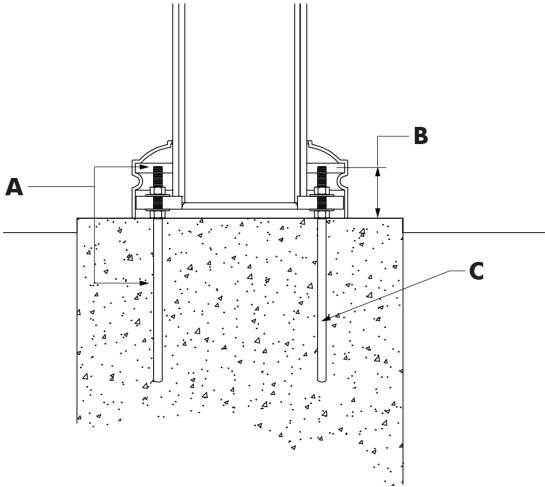


DWH Spectral Power Distribution



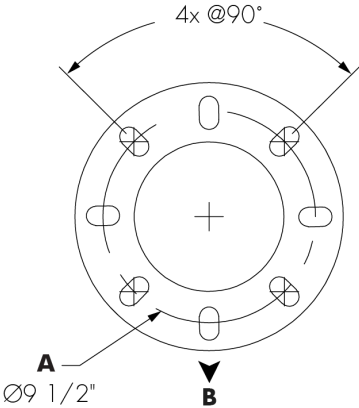
Anchoring Details

Anchor Details



- A** - Galvanized steel portion
- B** - The threads of J-Hook anchors must protrude between 2 1/2 in and 3 in from concrete base.
- C** - (4X) Ø 1/2" by 12 in Anchors, supplied with two nuts and flats washers for each (provided).

Bolt Circle



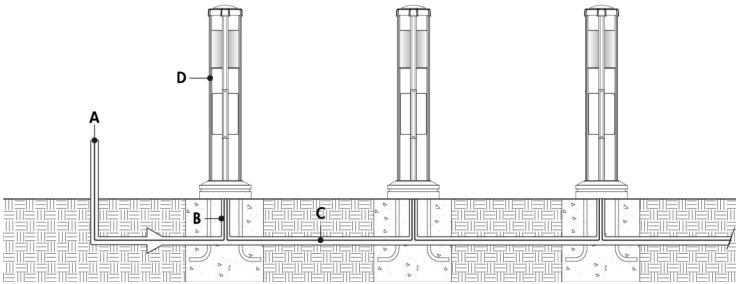
- A** - Bolt circle
- B** - Access door

Typical Wiring Diagrams

Wiring Color Code

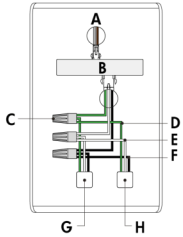
Color	Black	White	Green	Purple/Red	Gray/Orange
Use	Line	Line/Neutral	Ground	0 -10V+ /Data +	0 -10V - /Data -

On/Off Control (NO)



- A - Power input (120-480V, wiring by others)
- B - Conduit (by others)
- C - Power wiring (by others)
- D - Element Bollard

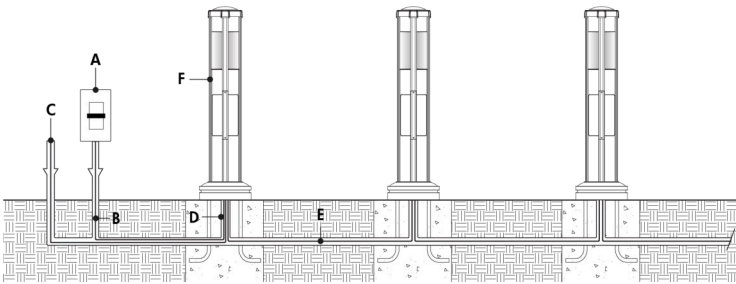
On/Off Control (NO) - Wiring Detail At Door



- A - To fixture
- B - Driver assembly
- C - Wire-nuts (by others)
- D - Ground
- E - Line/Neutral
- F - Line
- G - Power input or from previous fixture
- H - To next fixture

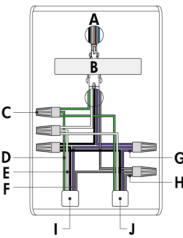
- Consult factory for specific applications and maximum fixture count/cable length recommendations.

0-10V Dimming (DIM)



- A - Dimmer (by others)
- B - Data wiring (by others)
- C - Power input (120-480V, wiring by others)
- D - Conduit (by others)
- E - Power and data wiring (by others)
- F - Element Bollard

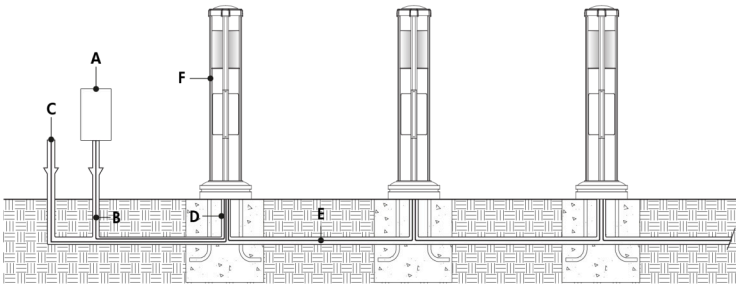
0-10V Dimming (DIM) - Wiring Detail At Door



- A - To fixture
- B - Driver assembly
- C - Wire-nuts (by others)
- D - Ground
- E - Neutral
- F - Line
- G - 0-10V +
- H - 0-10V -
- I - Power input or from previous fixture
- J - To next fixture

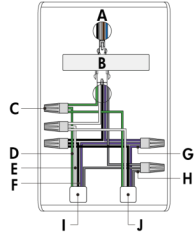
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- 0-10V mA ratings: passive dimmer (Current Sink): 3mA per fixture, active dimmer (Current Source): 0.5mA per fixture.
- 1% minimum dimming value.

DALI Dimming (DALI)



- A - DALI controller (by others)
- B - Data wiring (by others)
- C - Power input (120-480V, wiring by others)
- D - Conduit (by others)
- E - Power and data wiring (by others)
- F - Element Bollard

DALI Dimming (DALI) - Wiring Detail At Door

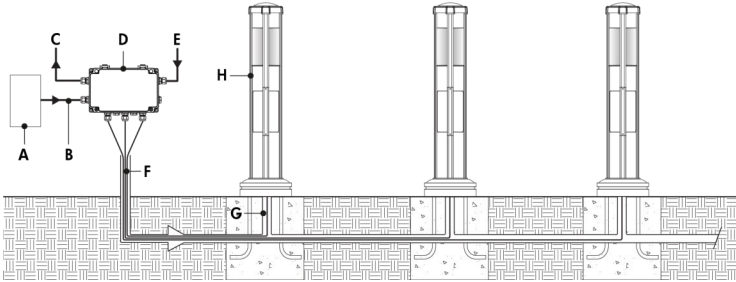


- A - To fixture
- B - Driver assembly
- C - Wire-nuts (by others)
- D - Ground
- E - Neutral
- F - Line
- G - Dali +
- H - Dali -
- I - Power input or from previous fixture
- J - To next fixture

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Maximum of 64 DALI fixtures per DALI loop.
- 1% minimum dimming value.

Star Layout (Dim to Warm Via DMX/RDM1* or 3-Channel DMX/RDM)

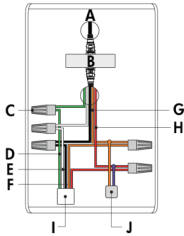
*Available For DWW Version Only, 2700K To 2200K



- A - DMX/RDM controller (order separately from Lumenpulse, or by others)
- B - Data input (Belden 9841 or equivalent, by others)
- C - Data output to next CBX (optional, not isolated/not boosted)
- D - CBX-ST
- E - Power input (120-480V, wiring by others)
- F - Power and data output to fixture (wiring by others)
- G - Conduit (by others)
- H - Element Bollard

Star Layout For White Fixture

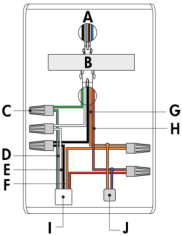
Wiring Detail At Door



- A - To fixture
- B - PACBOX
- C - Wire-nuts (by others)
- D - Ground
- E - Neutral
- F - Line
- G - Data +
- H - Data -
- I - From CBX or previous fixture
- J - Lumenterminator*

Star Layout For Color Changing And Dynamic White Fixture

Wiring Detail At Door



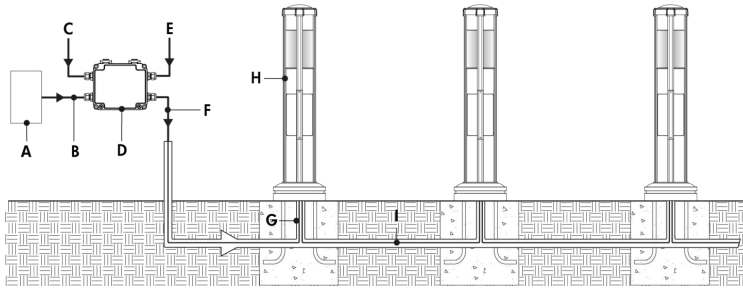
- A - To fixture
- B - Driver assembly
- C - Wire-nuts (by others)
- D - Ground
- E - Neutral
- F - Line
- G - Data +
- H - Data -
- I - From CBX or previous fixture
- J - Lumenterminator*

- 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.
- Maximum of 6 outputs per CBX-ST.
- 1% minimum dimming value.
- DMX/RDM1 control option requires 1 DMX address. DMX/RDM control option requires 3 DMX addresses.
- RGBW30K and RGBW40K color mixture options require 4 DMX addresses.

*DMX terminator is required at the end of each run to maintain data integrity. (6x) DMX lumenterminators included per CBX-ST. See installation instructions for details.

Daisy Chain Layout (Dim to Warm Via DMX/RDM1* or 3-Channel DMX/RDM)

***Available for DWW Version Only, 2700K to 2200K**



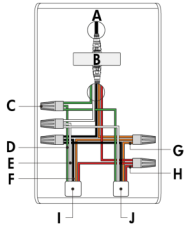
- A** - DMX/RDM controller (order separately from Lumenpulse, or by others)
- B** - Data input (Belden 9841 or equivalent, by others)
- C** - Data output to next CBX (optional, not isolated/not boosted)
- D** - CBX-DS
- E** - Power input (120-480V, wiring by others)
- F** - Power and data output to fixture (wiring by others)
- G** - Conduit (by others)
- H** - Power and data wiring (by others)
- I** - Element Bollard

**Daisy Chain Layout For White Fixture
wWiring Detail At Door
(First Or Middle Of Run)**

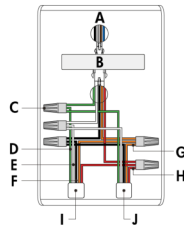
Daisy Chain Layout For Color Changing And Dynamic White Fixture Wiring Detail At Door (First Or Middle Of Run)

**Daisy Chain Layout For White Fixture
Wiring Detail At Door
(End Of run)**

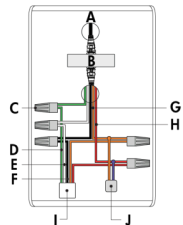
**Daisy Chain Layout For Color
Changing and Dynamic White Fixture
Wiring Detail at Door
(End Of Run)**



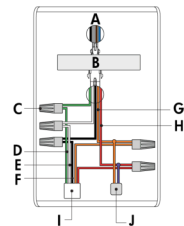
- A** - To fixture
- B** - PACBOX
- C** - Wire-nuts (by others)
- D** - Ground
- E** - Neutral
- F** - Line
- G** - Data -
- H** - Data +
- I** - From CBX or previous fixture
- J** - To next fixture



- A** - To fixture
- B** - Driver assembly
- C** - Wire-nuts (by others)
- D** - Ground
- E** - Neutral
- F** - Line
- G** - Data -
- H** - Data +
- I** - From CBX or previous fixture
- J** - To next fixture



- A** - To fixture
- B** - PACBOX
- C** - Wire-nuts (by others)
- D** - Ground
- E** - Neutral
- F** - Line
- G** - Data +
- H** - Data -
- I** - From CBX or previous fixture
- J** - Lumenterminator*

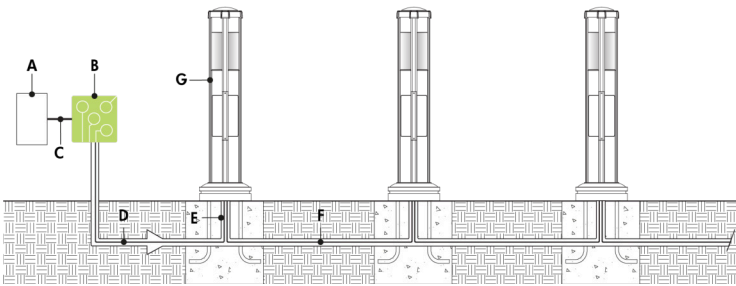


- A** - To fixture
- B** - Driver assembly
- C** - Wire-nuts (by others)
- D** - Ground
- E** - Neutral
- F** - Line
- G** - Data +
- H** - Data -
- I** - From CBX or previous fixture
- J** - Lumenterminator*

- 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.
- Maximum of 1 output per CBX-DS.
- Maximum of 3 ft cable length between fixture and next junction box for daisy chain layout.
- 1% minimum dimming value.
- DMX/RDM1 control option requires 1 DMX address. DMX/RDM control option requires 3 DMX addresses.
- RGBW30K and RGBW40K color mixture options require 4 DMX addresses.

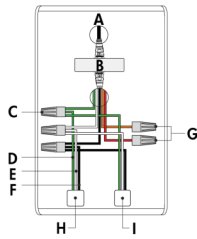
* DMX terminator is required at the end of each run to maintain data integrity. (2x) DMX lumenterminators included per CBX-DS. See installation instructions for details.

Lumentalk (LT)



- A** - Dimmer/controller (order separately from Lumenpulse, or by others)
- B** - Lumentranslator (LTL-010, -DMX, -TRIAC, -DALI)
- C** - Data wiring (by others)
- D** - Power line (120-277V, wiring by others)
- E** - Conduct (by others)
- F** - Power wiring (by others)
- G** - Element Bollard

Lumentalk (LT) - Wiring Detail At Door

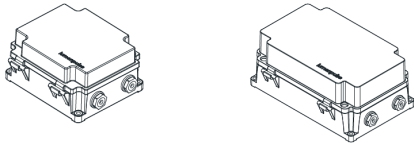


- A** - To fixture
- B** - PACBOX
- C** - Wire-nuts (by others)
- D** - Ground
- E** - Line/Neutral
- F** - Line
- G** - Not required
- H** - Power input (control over power line via Lumentalk system) or from previous fixture
- I** - To next fixture

- 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.

Control Boxes (Order Separately)

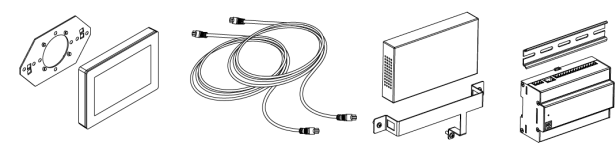
CBX-DMX/RDM - DMX/RDM Enabled (Daisy Chain or Star Configuration)



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.

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.

LID-LT - LumentalkID



LumentalkID is a diagnostic and addressing tool. It must be specified for all Lumentalk (LT) applications. Consult LID-LT specification sheet for details.

How to Order

Housing	Output (Nominal Lumens) ⁽¹⁾	Voltage	Color and Color Temperature ⁽²⁾	Color Rendering ⁽¹⁾	Distributions	Lens	Finish	Control	Option	Anchor Bolts Option
ELMB10 Element EB10 ELMB20 Element EB20	RO Regular Output HO High Output	120 120 Volts	22K 2200K ⁽¹⁾	CRI 70 CRI 70+	S120 Symmetric 120	O Opal Lens	BK Black Sandtex®	NO On/Off Control ⁽⁷⁾	SP Surge Protector	AB Anchor Bolts ⁽¹¹⁾
		208 208 Volts	27K 2700K ⁽¹⁾	CRI 80 CRI 80+ ⁽³⁾			BRZ Bronze Sandtex®	DIM 0-10V Dimming ⁽⁷⁾		
		240 240 Volts	30K 3000K ⁽¹⁾				SI Silver Sandtex®	DALI DALI Dimming ⁽⁷⁾		
		277 277 Volts	35K 3500K ⁽¹⁾				BKTX Textured Black	DMX/RDM DMX/RDM Enabled		
		347 347 Volts	40K 4000K ⁽¹⁾				BRZTX Textured Bronze Non-Metallic	DIM/DTW Dim to Warm via 0-10V (2700K to 2200K) ⁽⁸⁾		
		480 480 Volts	57K 5700K ⁽¹⁾				GRATX Textured Medium Gray	DMX/RDM1 Dim to Warm via Single-Channel DMX/RDM (2700K to 2200K) ⁽⁸⁾		
			DWW Dynamic Warm White (2200K to 3000K)				GRNTX Textured Green	LT Lumentalk ⁽⁹⁾ ⁽¹⁰⁾		
			DWH Dynamic White (2700K to 6500K)				WHTX Textured White			
			RGBW30K RGB + White 3000K				CC Custom Color & Finish ⁽⁴⁾ ⁽⁵⁾ ⁽⁶⁾			
			RGBW40K RGB + White 4000K							

Notes:

1. Specify for white light only.
2. Consult factory for static red, green or blue configuration.
3. CRI 80 available for 22K, 27K, 30K, 35K and 40K color temperatures only.
4. Specify RAL number followed by "TX" for textured finish (ex: RAL9007TX) or STX for Sandtex finish (ex: RAL9007STX). Textured or Sandtex finishes are recommended for the durability of all products. If a finish is not specified with the RAL number (ex: RAL9007), a glossy finish will be provided. Please consult factory for other RAL textures and glosses, or to match alternate color charts. Final color matching results may vary.
5. Setup charges apply for RAL colors. Consult factory for details.
6. Longer lead times can be expected for custom RAL color finishes.
7. On/Off, DIM and DALI control options available for white light configuration only.
8. DIM/DTW and DMX/RDM1 control options available for dynamic warm white configuration only.
9. Lumentalk control option available up to 277V.
10. Consult factory for combination of Lumentalk with DWW, DWH and RGBW30K and RGBW40K color temperatures.
11. Anchor bolts provided with double nuts, washers and template. One template provided for every 5 luminaires.