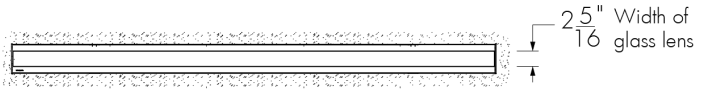
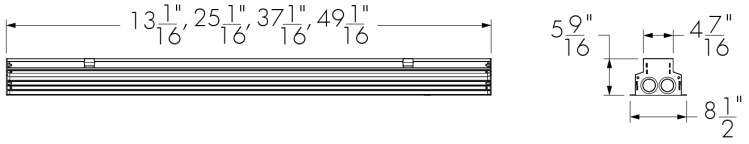
Project Name _____ **Qty** _____

Type _____ **Catalog / Part Number** _____



Top view



Front and side views

Photometric Summary

	Delivered output (lm)	Intensity (peak cd)
WW	2,617	7,773
8°x8°	3,249	42,651
10°x10°	3,175	24,388
10°x30°	3,302	18,213
10°x60°	2,791	8,685
10°x90°	2,935	4,987
15°x25°	3,129	14,237
30°x30°	3,406	12,158
30°x60°	2,905	3,828
35°x35°	3,321	8,364
50°x80°	3,352	2,811
60°x60°	2,785	2,425
80°x80°	3,275	2,154
90°x90°	2,930	1,535

Based on DWH full output, 4ft [1219mm], DMX/RDM configuration.
2.5° factory-set tilt setting for WW optic, 0° tilt setting for all other optics.
Photometric performance is measured in compliance with IESNA LM-79-08.

	Delivered output (lm)	Intensity (peak cd)	Power (W)
Dim to Warm via 0-10V DIM/DTW **Dim to Warm via DMX/RDM** Single channel control (DMX/RDM1)			
DWW	1,404	4,470	46
DMX/RDM 3-channel control (DMX/RDM)			
DWW	1,755	5,587	56
DWH	2,261	6,102	59

Based on 4ft [1219mm], 10°x60°, 2.5° tilt setting.
Estimated. Consult website for the latest photometric files.

Description

The Lumenfacade Inground Dynamic White is a ground-recessed LED luminaire with a special Lumenpulse feature that allows smooth variations in color temperature (from 2200K to 3000K or from 2700K to 6500K). Ideal for indoor hospitality applications or heritage and red brick architecture, Dynamic White gives architects and designers the flexibility to adjust the ambience of spaces and façades, as needed. Featuring second generation LED technology, the Lumenfacade Inground Dynamic White is available in four different sizes (12 in, 24 in, 36 in or 48 in), with a wide choice of outputs, optics and controls. A unique asymmetric wallwash distribution is also available, providing exceptional uniformity and brightness for walls and signage.

Features

Construction	Walk over compliant up to 500 kg in any type of ground, Walk over compliant up to 1000 kg in concrete
Color and Color Temperature	Dynamic Warm White (2200K to 3000K), Dynamic White (2700K to 6500K)
Length (Nominal)	12 in, 24 in, 36 in, 48 in
Optics	Asymmetric wallwash, 8° x 8°, 10° x 10°, 10° x 30°, 10° x 60°, 10° x 90°, 15° x 25°, 30° x 30°, 30° x 60°, 35° x 35°, 50° x 80°, 60° x 60°, 80° x 80°, 90° x 90°
Tilt Setting (factory set)	0 degrees, 2.5 degrees, 5 degrees, 20 degrees
Optical Option	Internal louver
Option	Anti-Slip Lens CE (certification covers European Economic Area)
Power Consumption	17.25 W/ft, Typically 20% higher for 12 in fixture lengths
Warranty	5-year limited warranty

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Optic


Asymmetric Wallwash


8° x 8°


10° x 10°


10° x 30°


10° x 60°


10° x 90°


15° x 25°


30° x 30°


30° x 60°


35° x 35°


50° x 80°


60° x 60°


80° x 80°


90° x 90°

Color and Color Temperature

Dynamic Warm White (2200K to 3000K)

Dynamic White (2700K to 6500K)

Control

lumentalk DIM/DTW DMX/RDM1 DMX/RDM

DALI T8

Ratings

IP68 IK10

Certifications

Performance

Maximum Delivered Output	3,406 lm (48 in fixture, DWH full output, 30° x 30°, 0° tilt setting, DMX/RDM) 2,885 lm (48 in fixture, DWW full output, 30° x 30°, 0° tilt setting, DMX/RDM)
Maximum Delivered Intensity	42,651 cd at nadir (48 in fixture, DWH full output, 8° x 8°, 0° tilt setting, DMX/RDM) 36,135 cd at nadir (48 in fixture, DWW full output, 8° x 8°, 0° tilt setting, DMX/RDM)
Illuminance at Distance	Minimum 1 fc at 207 ft (48 in fixture, DWH full output, 8° x 8°, 0° tilt setting, DMX/RDM) Minimum 1 fc at 190 ft (48 in fixture, DWW full output, 8° x 8°, 0° tilt setting, DMX/RDM)
Lumen Maintenance	L70 280,000 hrs L95 35,000 hrs

Physical

Optical Chamber Material	Aluminum
Blockout Material	Polymer recycled PVC reinforced with a stainless steel frame
Trim Material	Anodized aluminum
Lens Material	Tempered glass
End Cap Material	Die cast aluminum
Hardware Material	Stainless steel
Weight	12 in: 7.5 lbs 24 in: 15.3 lbs 36 in: 21.4 lbs 48 in: 27 lbs

Electrical and Control

Voltage	120 to 277 volts
Fixture Cable	Power and data in one cable
Leader Cable Conductor	5C #16-5
Connectors	IP68 push-lock
Control	Lumentalk, 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 foot or per fixture (configured with LumenID V3 software), 8-bit or 16-bit
Dynamic Warm Color Temperature Mixing	12 LEDs per 12 in (4x 2200K, 4x 2700K, 4x 3000K)
Dynamic White Color Temperature Mixing	12 LEDs per 12 in (4x 2700K, 4x 4000K, 4x 6500K)

Environmental

Storage Temperature	-40 °F to 185 °F (device must reach start-up temperature value before operating)

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Start-up Temperature	-13 °F to 122 °F
Operating Temperature	-40 °F to 122 °F
Ingress Protection Rating	IP68 rated for up to 1 ft, not suitable for permanent immersion applications
Impact Resistance Rating	IK10

Accessories (Order Separately)

Cables	Lumenfacade Inground Leader Cable, Lumenfacade Inground Jumper Cable
Electrical Accessories	Lumenfacade Inground Junction Box
Control Boxes	DMX/RDM enabled (Daisy Chain or Star Configuration), Ethernet enabled (Daisy Chain or Star Configuration)
Control Systems	Lumentone™ 2 (LTN2), Pharos® Lighting Control Kit (PHAROS)
Diagnostic and Addressing Tools	LumenID (LID), LumentalkID (LIDLT)

Important

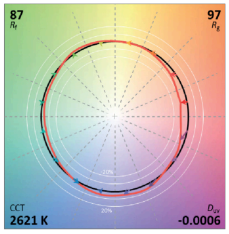
Virtual Patent Marking Notice

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.

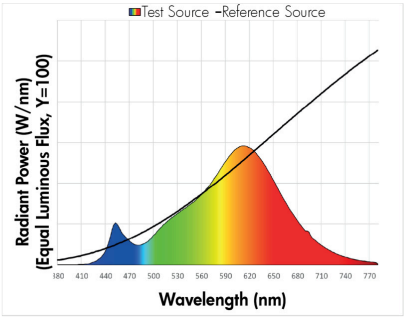
Chromaticity Data

TM-30 - DWW

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

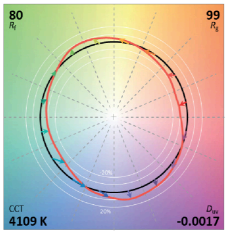


DWW Spectral Power Distribution

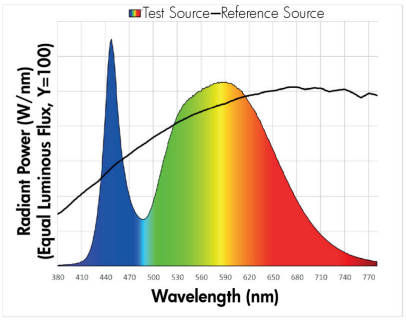


TM-30 - DWH

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



DWH Spectral Power Distribution



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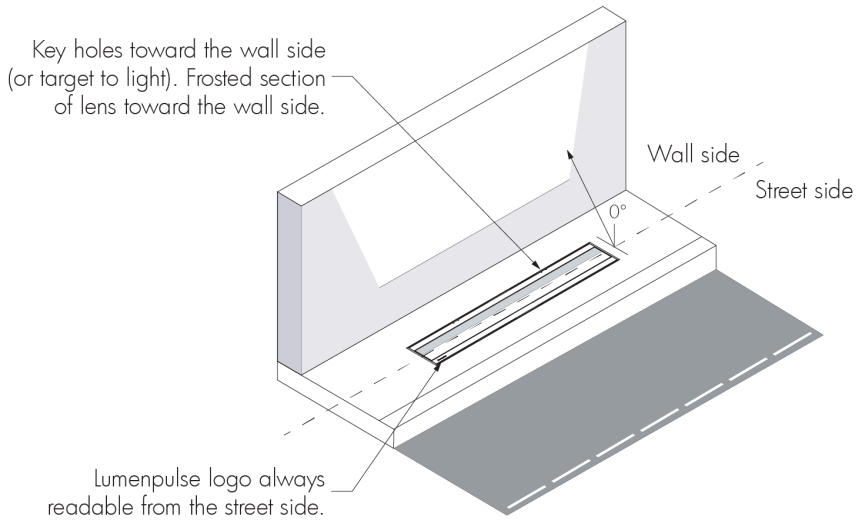
Optical Chamber Orientation



Cables (Order Separately)

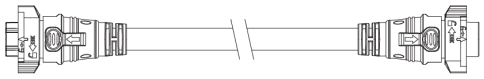
LOILC - Leader Cable For Lumenfacade Inground

LOILC-**CERTIFICATION-LENGTH**

Please specify:
CERTIFICATION: UL or CE; **LENGTH**: 10 ft, 25 ft or 50 ft

- Suitable for dimming/data and non-dimming applications.
- Consult Lumenfacade Inground leader cable specification sheet for details.

LOIJC - Jumper Cable For Lumenfacade Inground

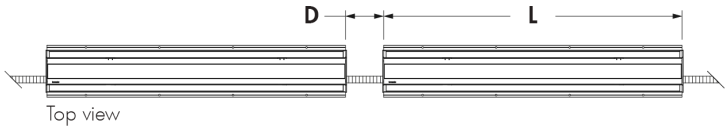


LOIJC-**CERTIFICATION-LENGTH**

Please specify:
CERTIFICATION: UL or CE; **LENGTH**: 2 ft, 4 ft or 10 ft

- Suitable for dimming/data and non-dimming applications.
- Consult Lumenfacade Inground jumper cable specification sheet for details.

Jumper Cable Length Selection



D - distance between two fixtures
L - length of fixture

Add the length of one fixture to the distance between two fixtures: L + D. Order the next longest jumper cable available: 2 ft, 4 ft or 10 ft.

Example: if the distance between two 4 ft fixtures is 0.5 ft, L + D = 4.5 ft, therefore a 10 ft jumper cable is required.

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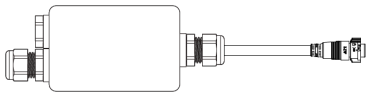
Electrical Accessories (Order Separately)

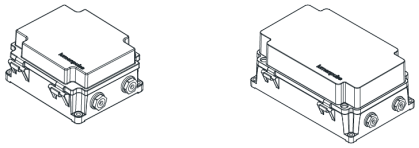
LOI-JBOX - Lumenfacade Inground Junction Box



Lumenfacade Inground IP68 sealed junction box starter kit. Use for stand alone fixtures and/or first of run installations. The LOI-JBOX accessory does not fit in 12 in fixtures.

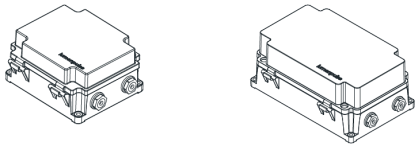
Control Boxes (Order Separately)

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.

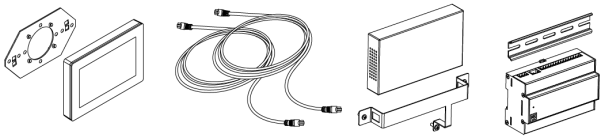
CBX-ENET - Ethernet Enabled (Daisy Chain or Star Configuration)



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)

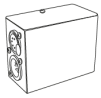
PHAROS - Pharos® Designer Lighting Control Kit



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.

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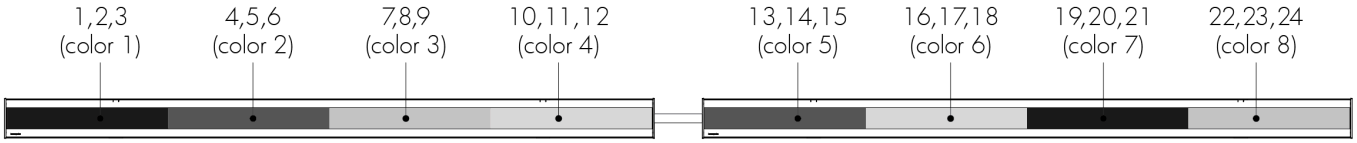
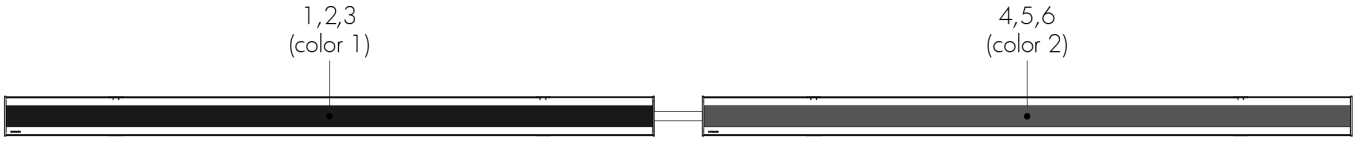
Resolution Details

DMX/RDM Control, Resolution Per Foot: Each 12 in Section is Addressed Independently
DMX Addresses:

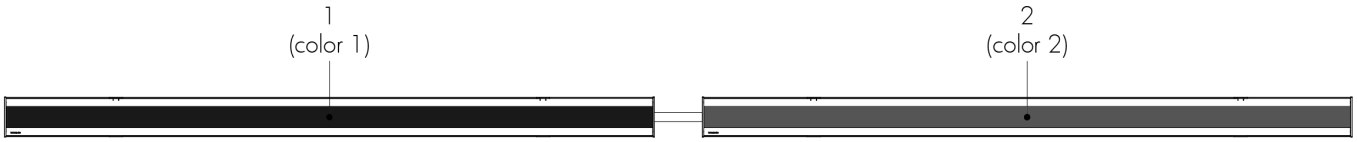


DMX/RDM control option

DMX/RDM Control, Resolution Per Fixture: Each Fixture is Addressed Independently
DMX Addresses:



DMX/RDM control option



DMX/RDM1 control option

- 48 in fixtures shown.
- Applicable for DMX/RDM and DMX/RDM1 control options only. Fixture resolution can be configured on-site within the LumenID V3 software. A DMX/RDM enabled CBX is required.

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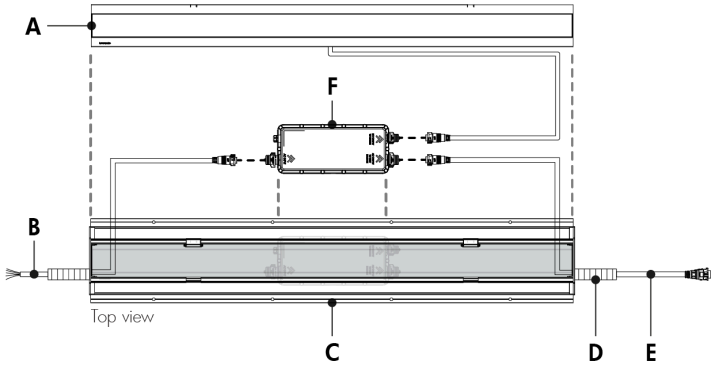
Typical Wiring Diagrams

Wiring Color Code

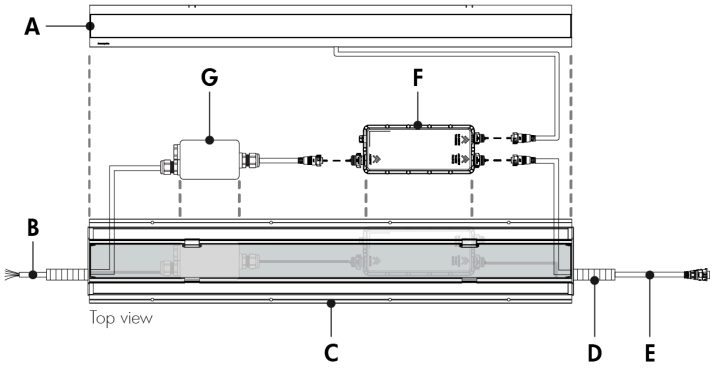
UL Color Code	USE
Green	Ground
Black	Line
White	Line/Neutral
Red or Purple	0-10V / Data +
Orange	0-10V / Data -

Typical Installation With Leader Cable



A - Optical chamber
B - Leader cable (LOILC, order separately)
C - Blockout
D - Conduit (by others)
E - Jumper cable to next fixture (LOIJC, order separately, for continuous run installations)
F - PACBOX

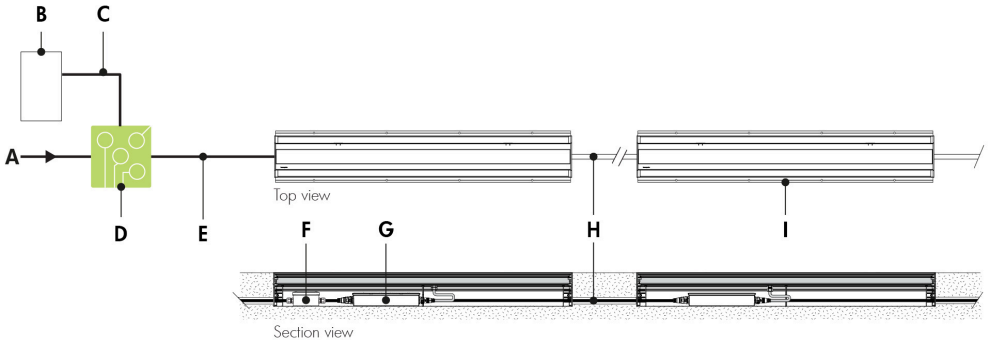
Typical Installation With IP68 LOI-JBOX Accessory



A - Optical chamber
B - Power and data input cable (by others)
C - Blockout
D - Conduit (by others)
E - Jumper cable to next fixture (LOIJC, order separately, for continuous run installations)
F - PACBOX
G - IP68 LOI-JBOX (order separately)

The IP68 LOI-JBOX accessory cannot be used with 12 in fixtures.

Lumentalk (LT)



A - Power input (100-277V AC, wiring by others)
B - DMX/RDM controller (order separately from Lumenpulse, or by others)
C - Data wiring (by others)
D - Lumentranslator 2 (LTL2-DMX)
E - Power wiring (wiring by others)
F - IP68 LOI-JBOX (optional)
G - PACBOX
H - Jumper cable (LOIJC)
I - Lumenfacade Inground

- Consult the installation instructions for additional wiring details.
- 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.
- 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.
- Maximum of 1 transmitter (Lumentranslator or Lumenlink) per system.
- No third party fixtures allowed on the same circuit.
- 17.25 W/ft.

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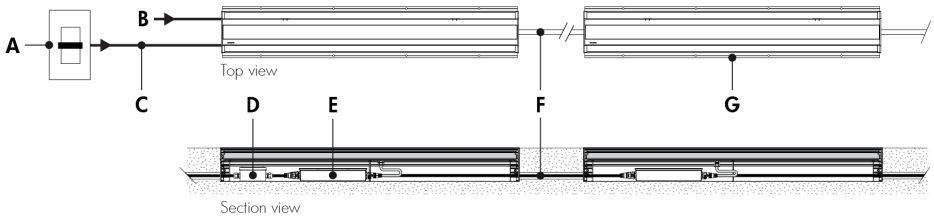
Dim to Warm Via 0-10V (DIM/DTW*)
***Available For DWW Version Only, 2700K to 2200K**



A - Dimmer (by others)
B - Power input (120-277V, wiring by others)
C - Data wiring (by others)
D - IP68 LOI-JBOX (optional)
E - PACBOX
F - Jumper cable (LOIJC)
G - Lumenfacade Inground

- Consult the installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- 0-10V mA ratings: passive dimmer (Current Sink): 3 mA per fixture, active dimmer (Current Source): 0.5 mA per fixture.
- 17.25 W/ft.

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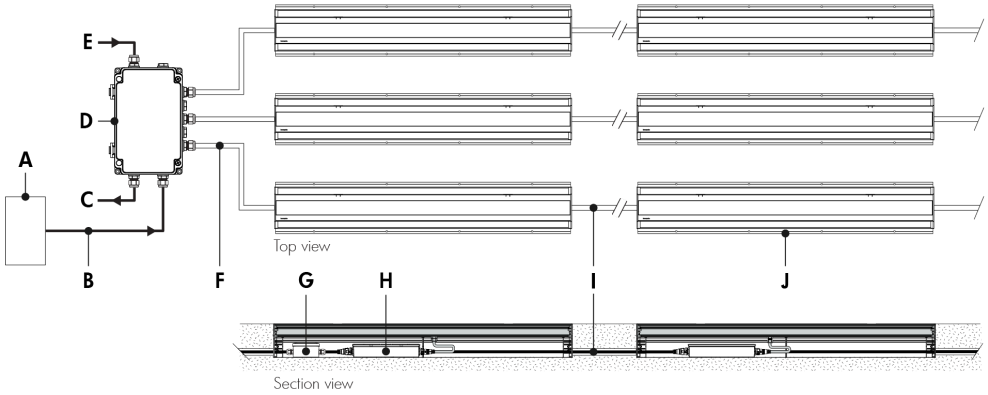
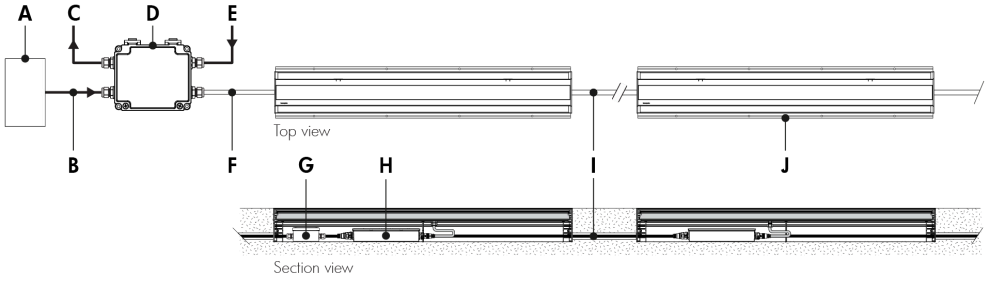
Star Layout (Dim to Warm Via DMX/RDM1* or 3-Channel DMX/RDM)
***Available For DWW Version Only, 2700K To 2200K**



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 (120-277V, wiring by others)
F - Leader cable (LOILC)
G - IP68 LOI-JBOX (optional)
H - PACBOX
I - Jumper cable (LOIJC)
J - Lumenfacade Inground

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 (120-277V, wiring by others)
F - Leader cable (LOILC)
G - IP68 LOI-JBOX (optional)
H - PACBOX
I - Jumper cable (LOIJC)
J - Lumenfacade Inground

Maximum Run of Fixtures, Lumenfacade® LOI Dynamic White 17.25 W/ft

Voltage	**120/277V**
Maximum Run of Fixtures*	68ft

Based on 15A maximum, 50ft leader cable.
*Example: 120V = 68ft maximum run of end to end fixtures (17 fixtures maximum for 4ft LOI).

- Consult the installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations. Maximum run length calculations are typically based on 48 in fixtures.
- 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; maximum of 1 output per CBX-DS.
- DMX/RDM1 control option requires 1 DMX address. DMX/RDM control option requires 3 DMX addresses.
- 17.25 W/ft.

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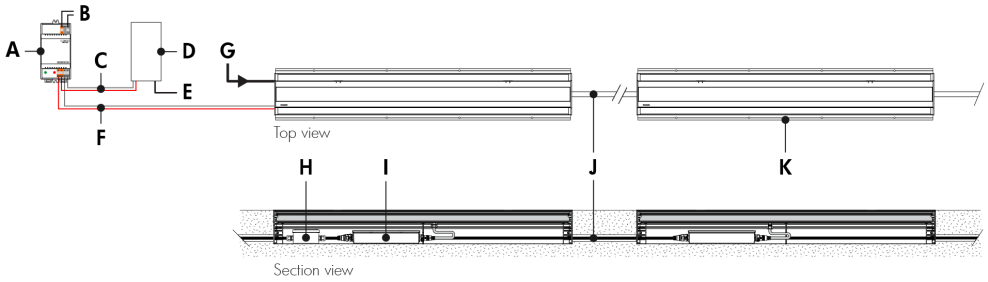
DALI 2 T8 (DALIT8)



A - DALI bus power supply (by others)
B - Power input for DALI bus power supply (wiring by others)
C - Data output to DALI controller (wiring by others)
D - DALI controller (by others)
E - Power input for DALI controller (if required, wiring by others)
F - Data output to fixture (wiring by others)
G - Power input (120-277V, wiring by others)
H - IP68 LOI-JBOX (optional)
I - PACBOX
J - Jumper cable (LOIJC)
K - Lumenfacade Inground

- Consult the installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Maximum of 64 DALI fixtures per DALI loop.
- 17.25 W/ft.
- The Lumenfacade Inground responds to RGBWAF controls.
- Commissioning may be required based on the selection of 3rd party DALI controller. Controller and commissioning provided by others.

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JC - R24

How to Order

Housing [1] [3] [4]	Voltage	Length	Color and Color Temperature	Optic	Tilt Setting [7] [8]	Optical Option	Control	Option
LOI Lumenfacade™ Inground [2]	**120/277** 120-277 Volts	**12** 13 1/16 in (7.5 lbs) [4] **24** 25 1/16 in (15.3 lbs) **36** 37 1/16 in (21.4 lbs) **48** 49 1/16 in (27 lbs)	**DWW** Dynamic Warm White (2200K to 3000K) **DWH** Dynamic White (2700K to 6500K)	**WW** Asymmetric Wallwash [5] **8x8** 8° x 8° [5] [6] **10x10** 10° x 10° [5] [6] **10x30** 10° x 30° [5] **10x60** 10° x 60° [5] **10x90** 10° x 90° [5] **15x25** 15° x 25° [5] **30x30** 30° x 30° **30x60** 30° x 60° **35x35** 35° x 35° **50x80** 50° x 80° **60x60** 60° x 60° **80x80** 80° x 80° **90x90** 90° x 90°	**TS0** 0 degrees **TS2.5** 2.5 degrees **TS5** 5 degrees **TS20** 20 degrees	**INTL** Internal louver [9]	**LT** Lumentalk [10] **DIM/DTW** Dim to Warm via 0-10V (2700K to 2200K) [11] **DMX/RDM1** Dim to Warm via Single-Channel DMX/RDM (2700K to 2200K) [11] [12] **DMX/RDM** 3-Channel Color Temperature Control via DMX/RDM [12] **DALIT8** DALI 2 T8 Enabled Dimming 0.1% [13]	**ASL** Anti-Slip Lens **CE** CE (European certification) [14]

Notes:

1. A Lumenfacade Inground fixture includes one optical chamber (LOIC), one power and control box (PACBOX) and one recessed blockout (RBO). The LOIC, PACBOX and RBO are provided according to the output/color, length and control configuration.
2. Consult factory for products that are BAA-approved (Buy America.n Act).
3. Consult the installation instructions to plan all aspects of the fixture installation.
4. Power consumption is typically 20% higher for 12 in fixture lengths.
5. 8x8, 10x10, 10x30, 10x60, 10x90, 15x25 and WW distributions come with a half-frosted lens to bring light low on the wall for grazing applications. Clear lens also available, consult factory.
6. For best results, we recommend a 6 in setback from surface. Contact factory for application support.
7. Do not specify a tilt setting for the asymmetric wallwash option. The asymmetric wallwash optic is factory set with a 2.5 degree tilt.
8. Tilt setting is factory set and cannot be adjusted in the field.
9. The addition of an internal louver will affect beam distribution. Consult factory for application support.
10. A Lumentranslator 2 (LTL2) and LumenID (LID) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.
11. Available for DWW color temperature option only.
12. A control box (CBX) and LumenID (LID) must be specified.
13. DALI 2 T8 controller required, provided by others. DALI2 T8 control uses a single DALI short address.
14. Consult European specification sheet and installation instructions for CE wiring information.

LMPG Inc. reserves the right to make changes to this product at any time without prior notice and such modification shall be effective immediately.
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