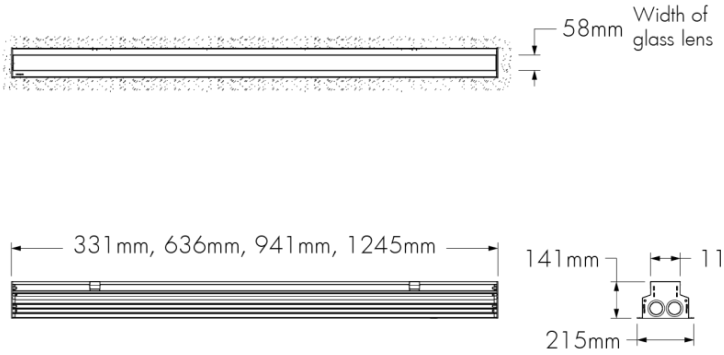
Specification Sheet

lumenfacade
Inground
LOI

COLOUR CHANGING

Project Name _____ **Qty** _____

Type H **Catalog / Part Number** _____



Top view

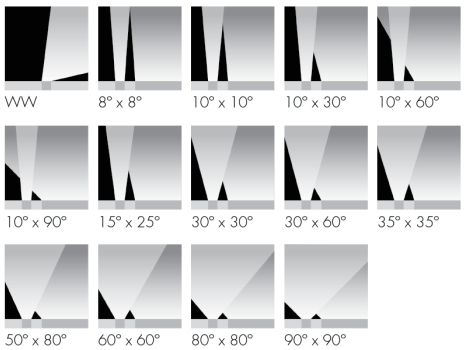
Front and side views

Photometric Summary

	Delivered output (lm)	Intensity (peak cd)
WW	2715	8064
8°x8°	3370	44,251
10°x10°	3294	25,302
10°x30°	3426	18,896
10°x60°	2,895	9010
10°x90°	3046	5174
15°x25°	3246	14,770
30°x30°	3533	12,614
30°x60°	3014	3972
35°x35°	3445	8677
50°x80°	3478	2916
60°x60°	2889	2516
80°x80°	3397	2235
90°x90°	3040	1593

Based on RGBW40K 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.

Optics



Description

The Lumenfacade Inground Colour Changing is a high-performance linear LED luminaire designed for colourful asymmetric wall washing, grazing, and linear wayfinding. The Lumenfacade Inground Colour Changing is available in four different sizes (305 mm, 610 mm, 914 mm or 1219 mm), with a wide number of options, including a choice of optics; RGB, RGBW or RGBA colour mixing; controls; as well as Legacy or Custom output modes.

Features

Construction	Walk over compliant up to 500 kg in any type of ground, Walk over compliant up to 1000 kg in concrete
Colour and Colour Temperature	Additive RGB, Additive RGB + white 3000K, Additive RGB + white 4000K, Additive RGB + amber
Length (nominal)	305 mm, 610 mm, 914 mm, 1219 mm
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 louvre
Options	Anti-slip lens, CE (certification covers European Economic Area)
Power Consumption	56.59 W/m, Typically 20% higher for 305 mm fixture lengths
Warranty	5-year limited warranty

Performance

Maximum Delivered Output	3,273 lm (1219 mm fixture, RGB full output, 30° x 30°, 0° tilt setting, DMX/RDM), 3,477 lm (1219 mm fixture, RGBW30K full output, 30° x 30°, 0° tilt setting, DMX/RDM), 3,548 lm (1219 mm fixture, RGBW40K full output, 30° x 30°, 0° tilt setting, DMX/RDM), 2,904 lm (1219 mm fixture, RGBA full output, 30° x 30°, 0° tilt setting, DMX/RDM)

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Colours and Colour Temperatures

Controls

lumentalk DMXrdm

Ratings

IP68 IK10

Certifications

Maximum Delivered Intensity	40,993 cd at nadir (1219 mm fixture, RGB full output, 8° x 8°, 0° tilt setting, DMX/RDM), 43,450 cd at nadir (1219 mm fixture, RGBW30K full output, 8° x 8°, 0° tilt setting, DMX/RDM), 44,429 cd at nadir (1219 mm fixture, RGBW40K full output, 8° x 8°, 0° tilt setting, DMX/RDM), 36,372 cd at nadir (1219 mm fixture, RGBA full output, 8° x 8°, 0° tilt setting, DMX/RDM)
Illuminance at Distance	Minimum 1 fc at 61.6 m (1219 mm fixture, RGB full output, 8° x 8°, 0° tilt setting, DMX/RDM), Minimum 1 fc at 63.7 m (1219 mm fixture, RGBW30K full output, 8° x 8°, 0° tilt setting, DMX/RDM), Minimum 1 fc at 64.3 m (1219 mm fixture, RGBW40K full output, 8° x 8°, 0° tilt setting, DMX/RDM), Minimum 1 fc at 58.2 m (1219 mm fixture, RGBA full output, 8° x 8°, 0° tilt setting, DMX/RDM)
Lumen Maintenance	L70 280,000 hrs, L95 35,000 hrs

Physical

Optical Chamber Material	Aluminium
Blockout Material	Polymer recycled PVC reinforced with a stainless steel frame
Trim Material	Anodized aluminium
Lens Material	Tempered glass
End Cap Material	Die cast aluminium
Hardware Material	Stainless steel
Weight	305 mm: 3.4 kg, 610 mm: 6.94 kg, 914 mm: 9.71 kg, 1219 mm: 12.25 kg

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, DMX/RDM enabled
Resolution (DMX/RDM)	Per foot or per fixture (configured with LumenID V3 software), 8-bit or 16-bit, 3 channels (RGB) or 4 channels (RGBW30K, RGBW40K and RGBA)
RGB Colour Mixing	12 LEDs per 305 mm (4x Red, 4x Green, 4x Blue)
RGBW30K Colour Mixing	12 LEDs per 305 mm (3x Red, 3x Green, 3x Blue, 3x White 3000K)
RGBW40K Colour Mixing	12 LEDs per 305 mm (3x Red, 3x Green, 3x Blue, 3x White 4000K)
RGBA Colour Mixing	12 LEDs per 305 mm (3x Red, 3x Green, 3x Blue, 3x Amber)

Environmental

Storage Temperature	-40 °C to 85 °C (device must reach start-up temperature value before operating)
Start-up Temperature	-25 °C to 50 °C
Operating Temperature	-40 °C to 50 °C
Ingress Protection Rating	IP68 rated for up to 0.3 m, 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, Pharos® kit
Diagnostic and Addressing Tools	LumenID, LumentalkID

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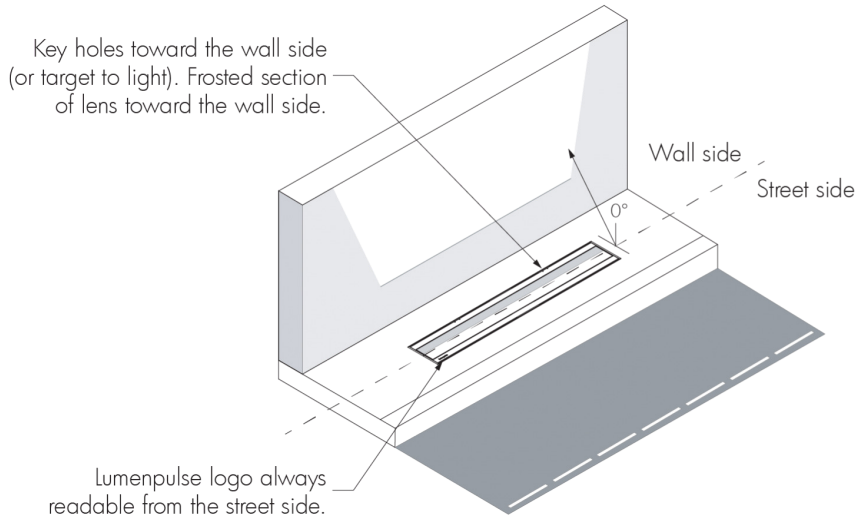
Optical chamber orientation



Cables (order separately)

LOILC - Leader cable for Lumenfacade Inground

LOILC-**CERTIFICATION-LENGTH**

Please specify:
CERTIFICATION: UL or CE; **LENGTH**: 3 m, 7.6 m or 15.2 m

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

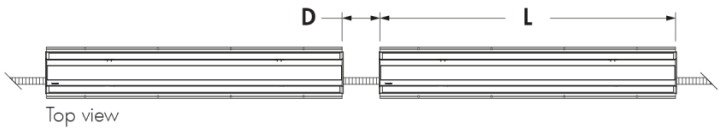
LOIJC - Jumper cable for Lumenfacade Inground

LOIJC-**CERTIFICATION-LENGTH**

Please specify:
CERTIFICATION: UL or CE; **LENGTH**: 0.6 m, 1.2 m or 3 m

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

Jumper cable length selection



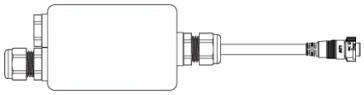
D - distance between two fixtures
L - length of fixture

Add the length of one fixture to the distance between two fixtures: L + D. Order the next longest jumper cable available: 0.6 m, 1.2 m or 3 m.

Example: if the distance between two 1.2 m fixtures is 0.2 m, L + D = 1.4 m, therefore a 3 m jumper cable is required.

Electrical accessories (order separately)

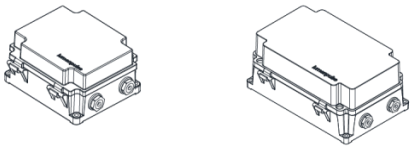
LOI-JBOX - Lumenfacade Inground Junction Box



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 305 mm fixtures.

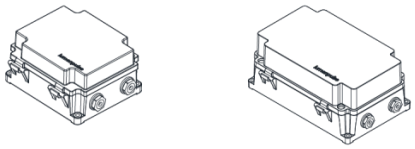
Control boxes (order separately)

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)



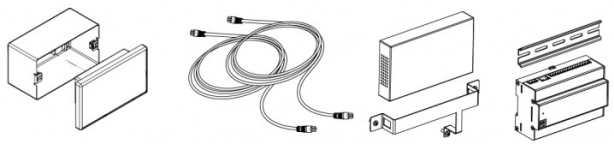
Ethernet control box. Up to four power and data outputs to fixture or fixture runs. Consult Ethernet CBX specification sheet and installation instructions for details.

Control systems (order separately)

LTN2 - Lumentone™ 2

Lumentone 2 is a simple pre-programmed DMX 512 controller with a push button rotary dial and live feedback.

PHAROS - Pharos® kit



The Pharos kit, available for 1 or 2 DMX universes, allows for complete control of large lighting installations. 2 DMX universes kit shown.

Diagnostic and addressing tools (order separately)

LID - LumenID

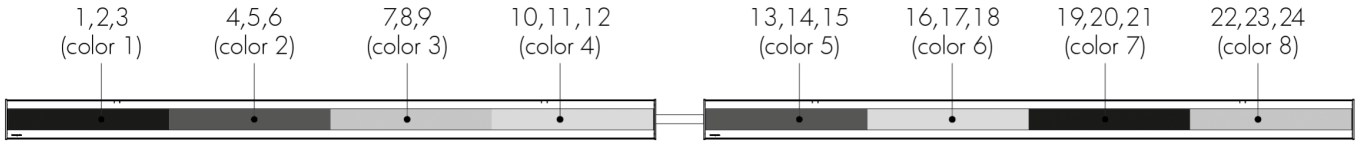
LumenID is a diagnostic and addressing DMX/RDM tool. It must be specified on all DMX applications. Consult LID specification sheet for details.

LID-LT - LumentalkID

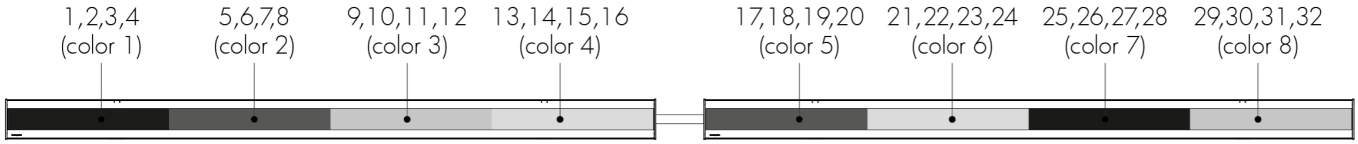
LumentalkID is a diagnostic and addressing tool. It must be specified for all Lumentalk (LT) applications. Consult LID-LT specification sheet for details.

Resolution details

DMX/RDM control, resolution per foot: each 305 mm section is addressed independently
DMX addresses:

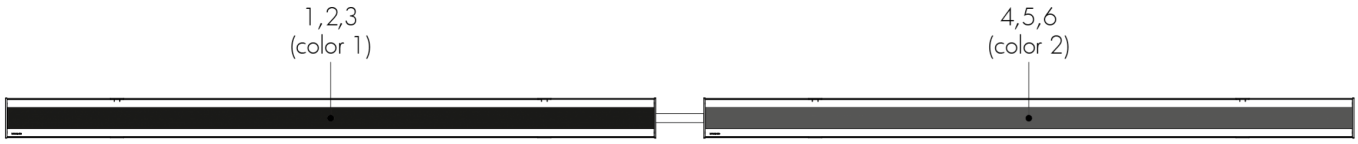


RGB colour mixing option



RGBW30K, RGBW40K and RGBA colour mixing options

DMX/RDM control, resolution per fixture: each fixture is addressed independently
DMX addresses:

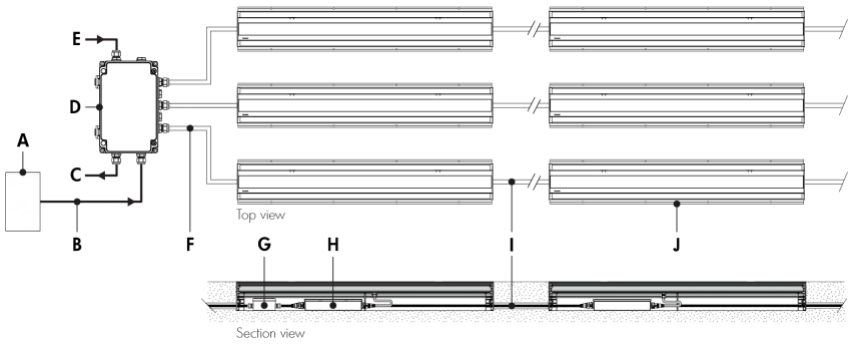


RGB colour mixing option

RGBW30K, RGBW40K and RGBA colour mixing options

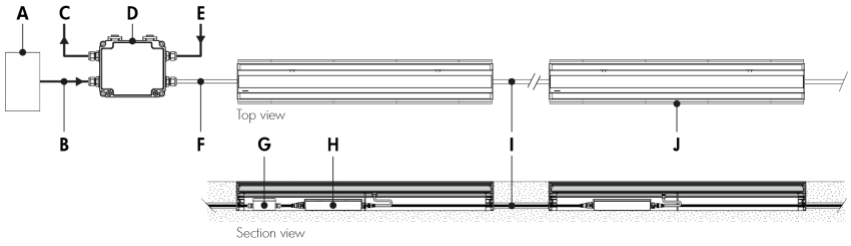
- 1219 mm fixtures shown.
- Applicable for DMX/RDM control option only. Fixture resolution can be configured on-site within the LumenID V3 software. A DMX/RDM enabled CBX is required.

Star Layout (DMX/RDM)



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 (DMX/RDM)



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 Colour Changing 56.59 W/m

Voltage	**120/277V**
Maximum Run of Fixtures*	21m

Based on 15A maximum, 15.2m leader cable.
*Example: 120V = 21m maximum run of end to end fixtures (17 fixtures maximum for 1254mm LOI).

- Consult the 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; maximum of 1 output per CBX-DS.
- RGB colour mixture option requires 3 DMX addresses. RGBW30K and RGBW40K colour mixture options require 4 DMX addresses. RGBA colour mixture option requires 4 DMX addresses.
- 56.59 W/m.

How to order

Housing [1] [2] [3]	Voltage	Length	Colour and Colour Temperature	Optics	Tilt Setting [7] [8]	Optical Option	Control	Options
LOI Lumenfacade™ Inground	**120/277** 120-277 volts	**12** 332 mm (3.4 kg) [3] **24** 637 mm (6.94 kg) **36** 941 mm (9.71 kg) **48** 1246 mm (12.25 kg)	**RGB** Additive RGB **RGBW30K** Additive RGB + white 3000K [4] **RGBW40K** Additive RGB + white 4000K [4] **RGBA** Additive RGB + amber	**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 louvre [9]	**LT** Lumentalk [10] **DMX/RDM** DMX/RDM enabled [11]	**ASL** Anti-slip lens **CE** CE (certification covers European Economic Area) [12]

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/colour, length and control configuration.
2. Consult the installation instructions to plan all aspects of the fixture installation.
3. Power consumption is typically 20% higher for 305 mm fixture lengths.
4. 2700K, 3500K and Royal Blue available, consult factory. Longer lead times apply.
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 152 mm 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 louvre will affect beam distribution. Consult factory for application support.
10. A Lumentranslator 2 (LTL2) and LumentalkID (LIDLT) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.
11. A control box (CBX) and LumenID (LID) must be specified.
12. Consult European specification sheet and installation instructions for CE wiring information.