Specification Sheet

lumenfacade™
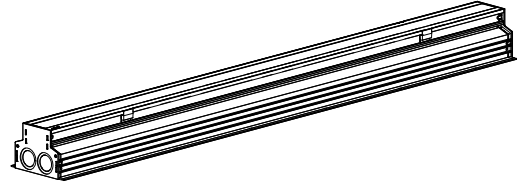
Client _____   **Project name** _____

Order# _____   **Type** _____   **Qty** _____

FEATURES AND BENEFITS

Physical :
- Aluminum optical chamber housing
- Anodized aluminum flush trim
- Polymer recycled PVC blockout housing reinforced with a stainless steel frame
- Available in 1', 2', 3' or 4' sections
- Die cast aluminum end caps
- Stainless steel hardware
- Tempered glass lens
- 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°, or 90° x 90° optics
- 0°, 2.5°, 5° or 20° factory-set optical aiming options (not available for asymmetric wallwash)
- IP68 rated for up to 1' (30cm), not suitable for permanent immersion applications
- IK10 rated
- Walk-over compliant up to 500 kg, self-supported; walk-over compliant up to 1000 kg, concrete-supported[1]

Performance :
- 2200K, 2700K, 3000K, 3500K, 4000K, Red, Green, Blue static colors available
- CRI value: 80+
- Minimum 1fc (10.7 lux) @ 94ft (29m) distance (HO 4000K, 4' unit, 10° x 60° optic, 2.5° tilt setting)
- Lumen maintenance: 80,000 hrs [L70 @ 25°C]
- Lumen maintenance: 60,000 hrs [L70 @ 50°C]
- Lumen measurements comply with LM - 79 - 08 standard
- Resolution per foot or per fixture (configured with LumenID V3 software & DMX/RDM)
- Operating temperatures: -40° C to 50° C [-40F to 122F]

Electrical :
- Line voltage luminaire for 100 to 277V
- Power and data in 1 cable (#16-5)
- IP68 push-lock connectors
- 5W/ft version meets ASHRAE standards for linear lighting on building facades[2]
- 8.5W/ft Regular Output version[2]
- 15.25W/ft High Output version[2]
- Dimming options: Lumentalk, 0-10 volt, DALI, Lutron® EcoSystem® or DMX/RDM enabled

cULus CE RoHS ✓ **IK10**

lumentalk EcoSystem Enabled

Photometric Summary

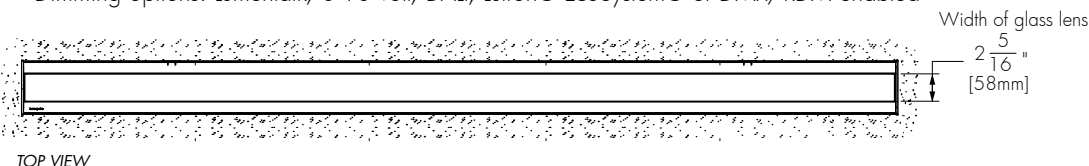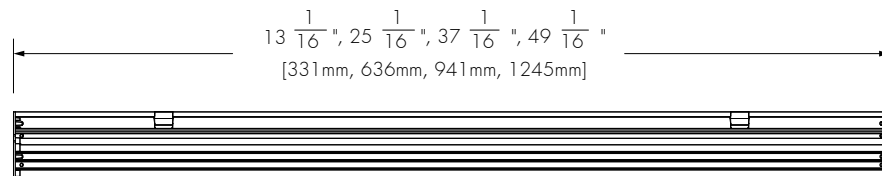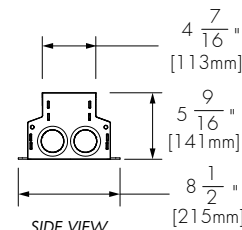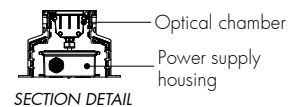| 4ft HO 4000K, 0° tilt setting	Delivered Output [lm]	Intensity [peak cd]
WW	2,770*	4,766*
8°x8°	4,512*	59,238*
10°x10°	3,908	35,109
10°x30°	4,586*	25,296*
10°x60°	3,876*	12,062*
10°x90°	4,178*	6,210*
30°x30°	4,686*	16,886*
30°x60°	4,035	5,317
60°x60°	3,845	3,062
90°x90°	4,070*	2,132*

Photometric performance is measured in compliance with IESNA LM-79-08.
*Estimated. Consult Lumenpulse website for the latest IES and LDT files.

Width of glass lens
$2 \frac{5}{16}$" [58mm]

TOP VIEW

$13 \frac{1}{16}$", $25 \frac{1}{16}$", $37 \frac{1}{16}$", $49 \frac{1}{16}$"
[331mm, 636mm, 941mm, 1245mm]

FRONT VIEW
*All dimensions are preliminary

$4 \frac{7}{16}$" [113mm]

$5 \frac{9}{16}$" [141mm]

$8 \frac{1}{2}$" [215mm]

SIDE VIEW
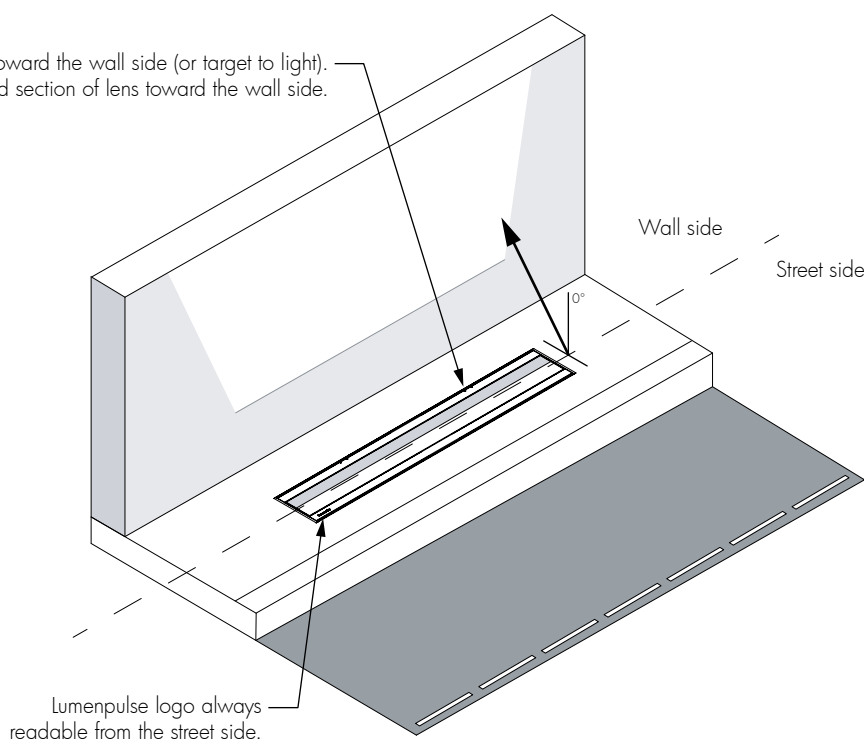
Optical chamber
Power supply housing

SECTION DETAIL

---

1 To meet 1000 kg walk-over resistance requirements, cement must support 100% of the exterior surfaces of the blockout.
2 ASHRAE version not available for 1' fixture lengths. Power consumption is typically 20% higher for 1' fixture lengths.

2017.07.21
MG - R16

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OPTICAL CHAMBER ORIENTATION

Key holes toward the wall side (or target to light).
Frosted section of lens toward the wall side.

Wall side

Street side

0°

Lumenpulse logo always
readable from the street side.

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ACCESSORIES

Order separately, refer to each item's specification sheet for ordering information

Control Systems:

LTO2   Lumentouch is a wall mount DMX 512 controller keypad.

LCU   Lumencue is a USB / mini SD DMX 512 controller.

LID   LumenID is a diagnostic and addressing DMX 512 controller.
It must be specified on all DMX applications.
Refer to LID specification sheet for details.

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

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

Control Boxes:

CBX   DMX/RDM control box.
Up to six power and data outputs to fixtures or fixture runs.
Ethernet enabled option.
Refer to CBX specification sheet for details.

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ACCESSORIES - continued
Order separately, refer to each item's specification sheet for ordering information
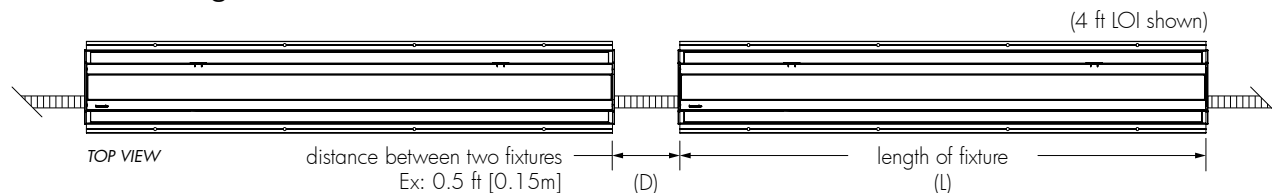
Cables:

LOILC-__-__   Leader Cable for Lumenfacade Inground.

Please specify certification (UL or CE), cable length (10', 25' or 50' [3m, 7.6m or 15.2m] standard).
Suitable for data applications.
Sealing endcap is mandatory for any unused connector. (1) included with every leader cable.
Consult Lumenfacade Inground leader cable specification sheet for details.

LOIJC-__-__   Jumper Cable for Lumenfacade Inground.

Please specify certification (UL or CE) and cable length (2', 4' or 10' [0.6m, 1.2m or 3m] standard).
Suitable for data applications.
Consult Lumenfacade Inground jumper cable specifiation sheet for details.

Jumper Cable Length Selection

(4 ft LOI shown)

TOP VIEW   distance between two fixtures   length of fixture
                              Ex: 0.5 ft [0.15m]   (D)   (L)

Add the length of one fixture to the distance between two fixtures: L + D. Order the next longest jumper cable available: **2', 4' or 10' [0.6m, 1.2m or 3m]**	Ex: L + D = 4.5ft [1.4m] Therefore 10' [3m] jumper cable required

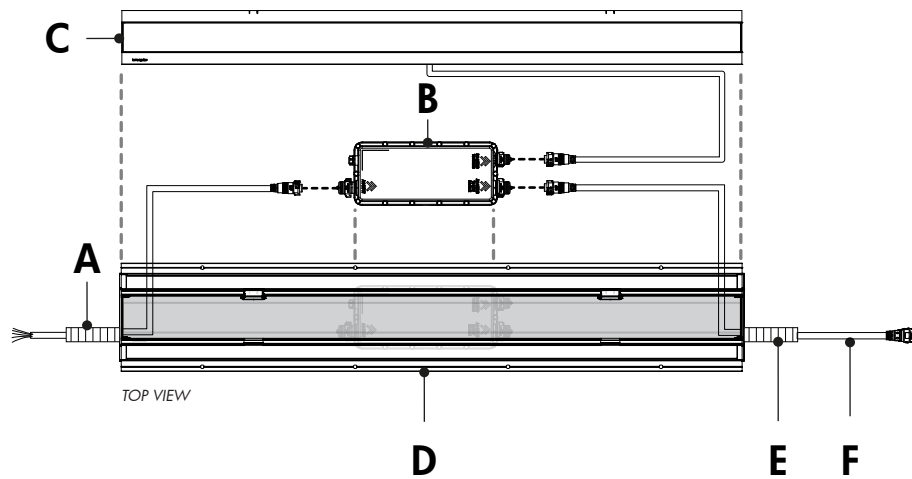## Inground Junction Box (optional):

Lumenfacade Inground IP68 sealed junction box starter kit - **LOI-JBOX** order code.
*Use for stand alone fixtures and/or first of run fixtures
*LOI-JBOX accessory does not fit in 1ft fixtures.

1.877.937.3003
P. 514.937.3003
F. 514.937.6289
info@lumenpulse.com
www.lumenpulsegroup.com

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TYPICAL WIRING DIAGRAMS

Typical Installation with Leader Cable

A - Leader cable (LOILC, order separately)
B - PACBOX
C - Optical chamber
D - Blockout
E - Conduit (By others)
F - Jumper cable to next fixture (LOIJC)
    (For daisy-chain installation, order separately)

TOP VIEW

Typical Installation with IP68 LOI-JBOX Accessory
Cannot be used with 1ft LOI fixture
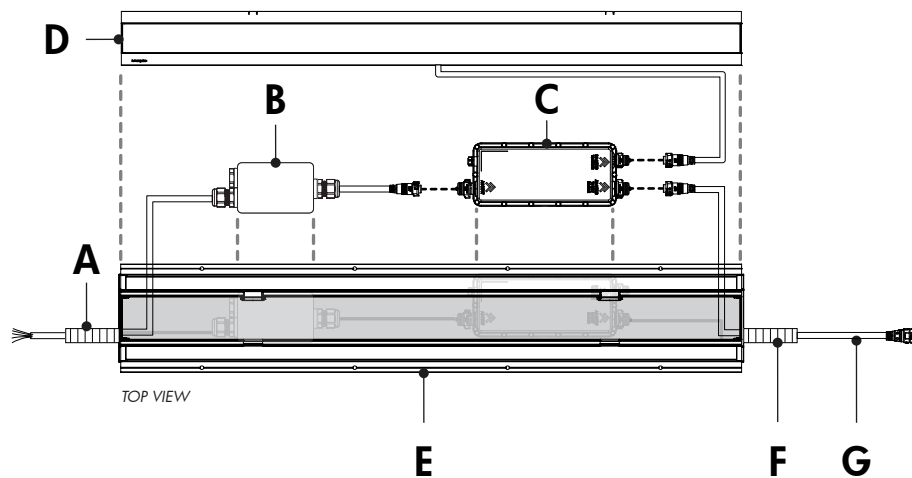
A - Power & data input cable (by others)
B - LOI-JBOX (order separately)
C - PACBOX
D - Optical chamber
E - Blockout
F - Conduit (by others)
G - Jumper cable to next fixture (LOIJC)
   (For daisy-chain installation, order separately)

TOP VIEW

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TYPICAL WIRING DIAGRAMS - continued

Wiring Color Code

American Color Code	CE Color Code	USE
Green	Yellow/Green	Ground
Black	Brown	Live 100-277V
White	Blue	Neutral
Red/Purple	Black	0-10V / Data +
Orange	Grey	0-10V / Data -

Non-Dimming (NO)
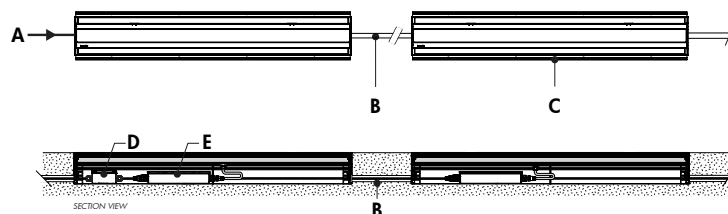
A - Power input (100-277V)
B - Jumper cable (LOIJC)
C - Lumenfacade Inground (LOI-NO)
D - IP68 LOI-JBOX
E - PACBOX

SECTION VIEW

Wiring Detail using LOI-JBOX Accessory - Non-Dimming (NO)
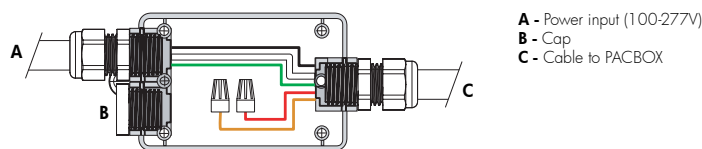
A - Power input (100-277V)
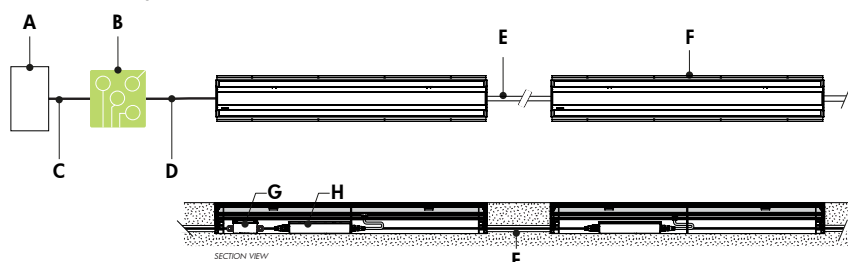**B -** Cap
C - Cable to PACBOX

Notes:
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- ASHRAE version: 5 watts per foot [0.3m], Regular Output version: 8.5 watts per foot [0.3m], High Output version: 15.25 watts per foot [0.3m].
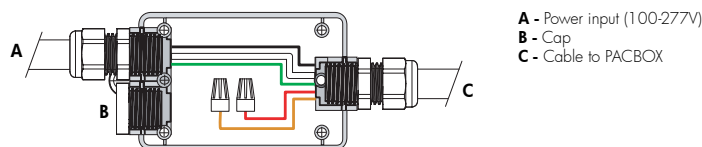
Lumentalk (LT)

1% minimum dimming value

A - Third party dimmer/controller
B - Lumentranslator (LTL-010, -DMX, -TRIAC, -DALI)
C - Data wiring (by others)
D - Power line (120-277V AC)
E - Jumper cable (LOIJC)
F - Lumenfacade Inground (LOI-LT)
G - IP68 LOI-JBOX accessory (optional)
H - PACBOX

SECTION VIEW

Wiring Detail using LOI-JBOX Accessory - Lumentalk (LT)

A - Power input (100-277V)
B - Cap
C - Cable to PACBOX

Notes:
- 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.
- ASHRAE version: 5 watts per foot [0.3m], Regular Output version: 8.5 watts per foot [0.3m], High Output version: 15.25 watts per foot [0.3m].

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P.514.937.3003
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TYPICAL WIRING DIAGRAMS - continued

Wiring Color Code

| American Color Code	CE Color Code	USE
Green	Yellow/Green	Ground
Black	Brown	Live 100-277V
White	Blue	Neutral
Red/Purple	Black	0-10V / Data +
Orange	Grey	0-10V / Data -

0-10V Dimming (DIM)
10% minimum dimming value

SECTION VIEW
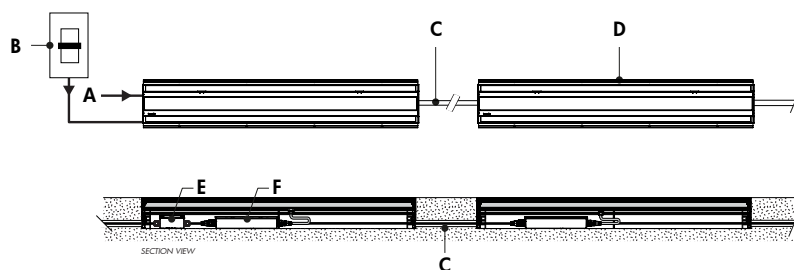
A - Power input (100-277V)
B - Third party dimmer
C - Jumper cable (LOIJC)
D - Lumenfacade Inground (LOI-DIM)
E - IP68 LOI-JBOX accessory (optional)
F - PACBOX

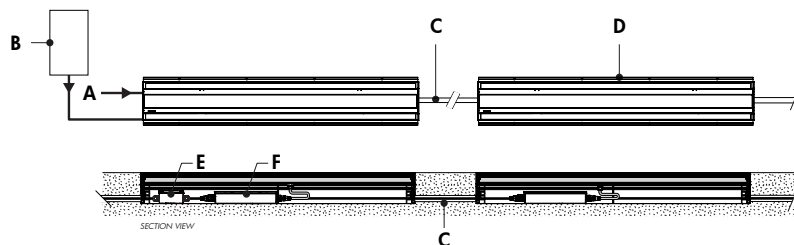**Wiring Detail using LOI-JBOX Accessory - 0-10V Dimming (DIM)**
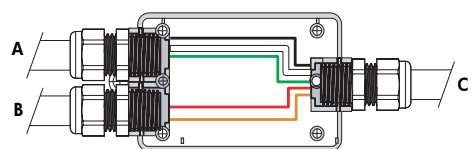
A - Power input (100-277V)
B - From third party dimmer
C - Cable to PACBOX

Notes:
• 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.
• ASHRAE version: 5 watts per foot [0.3m], Regular Output version: 8.5 watts per foot [0.3m], High Output version: 15.25 watts per foot [0.3m].
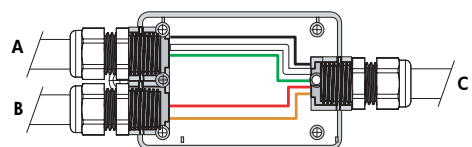
DALI Dimming (DALI)
1% dimming value

SECTION VIEW

A - Power input (100-277V)
B - Third party DALI controller
C - Jumper cable (LOIJC)
D - Lumenfacade Inground (LOI-DALI)
E - IP68 LOI-JBOX accessory (optional)
F - PACBOX

Wiring Detail using LOI-JBOX Accessory - DALI Dimming (DALI)

A - Power input (100-277V)
B - From third party DALI controller
C - Cable to PACBOX

Notes:
• Consult factory for specific applications and maximum fixture count/cable length recommendations.
• Maximum of 64 DALI fixtures per DALI loop.
• ASHRAE version: 5 watts per foot [0.3m], Regular Output version: 8.5 watts per foot [0.3m], High Output version: 15.25 watts per foot [0.3m].
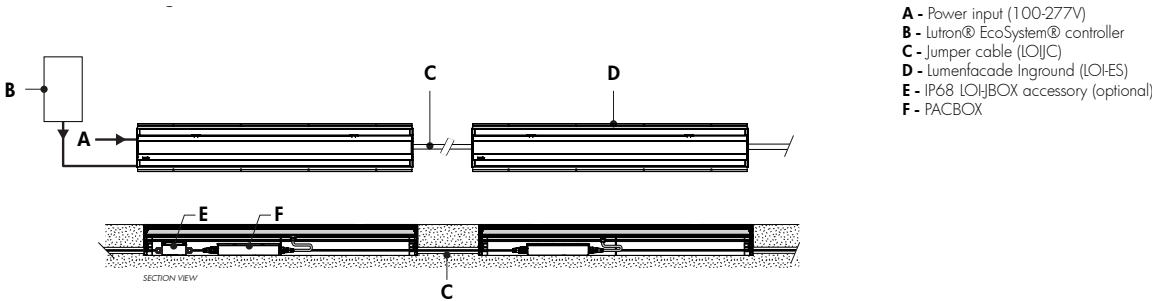
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TYPICAL WIRING DIAGRAMS - continued

Wiring Color Code

American Color Code	CE Color Code	USE
Green	Yellow/Green	Ground
Black	Brown	Live 100-277V
White	Blue	Neutral
Red/Purple	Black	0-10V / Data +
Orange	Grey	0-10V / Data -

Lutron® EcoSystem® Enabled Dimming (ES)

1% minimum dimming value

A - Power input (100-277V)
B - Lutron® EcoSystem® controller
C - Jumper cable (LOIJC)
D - Lumenfacade Inground (LOI-ES)
E - IP68 LOI-JBOX accessory (optional)
F - PACBOX

SECTION VIEW

Wiring Detail using LOI-JBOX Accessory - Lutron® EcoSystem® Enabled Dimming (ES)
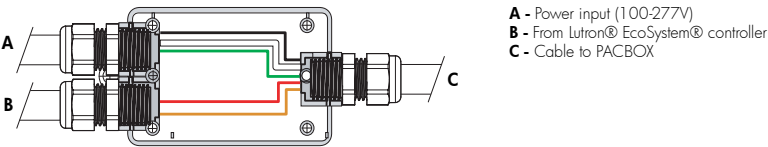
A - Power input (100-277V)
B - From Lutron® EcoSystem® controller
C - Cable to PACBOX

Notes:
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Each Lutron® EcoSystem® enabled fixture has its own address; for the example shown, there are a total of 2 EcoSystem® addresses.
- ASHRAE version: 5 watts per foot [0.3m], Regular Output version: 8.5 watts per foot [0.3m], High Output version: 15.25 watts per foot [0.3m].
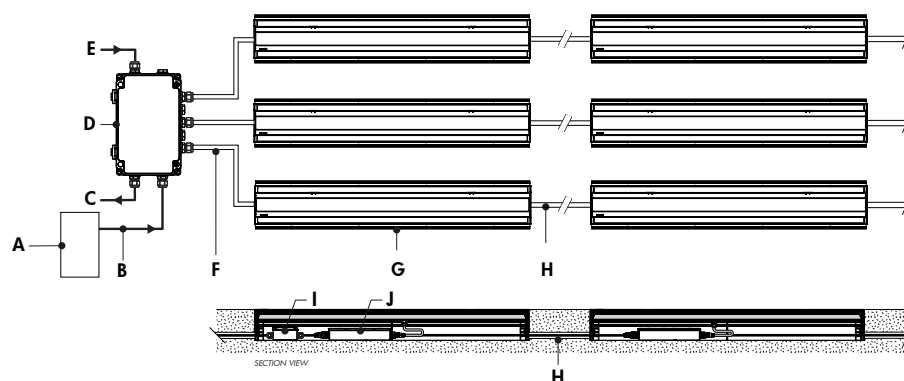
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TYPICAL WIRING DIAGRAMS - continued

Wiring Color Code

| American Color Code	CE Color Code	USE
Green	Yellow/Green	Ground
Black	Brown	Live 100-277V
White	Blue	Neutral
Red/Purple	Black	0-10V / Data +
Orange	Grey	0-10V / Data -

Star Layout (DMX/RDM)
1% minimum dimming value

SECTION VIEW

A - Third party DMX/RDM controller
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 (100-277V)
F - Leader cable (LOILC)
G - Lumenfacade Inground (LOI-DMX/RDM)
H - Jumper cable (LOIJC)
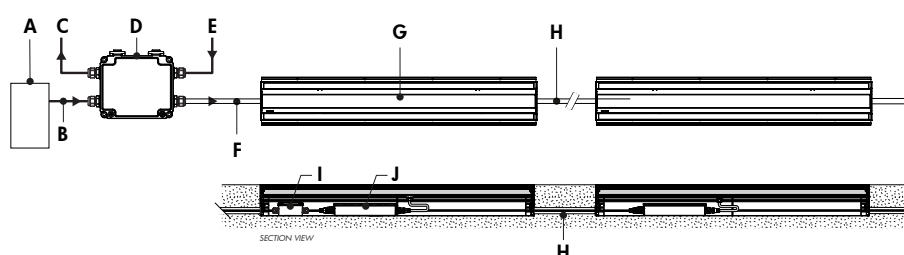I - IP68 LOI-JBOX accessory (optional)
J - PACBOX

Wiring Detail using LOI-JBOX Accessory - DMX/RDM Dimming (DMX/RDM)
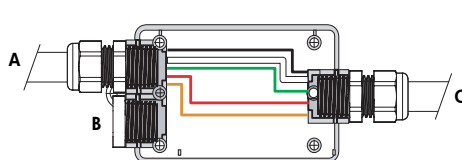
A - Power and data input to fixture (wiring by others)
B - Cap
C - Cable to PACBOX

Daisy Chain Layout (DMX/RDM)
1% minimum dimming value

SECTION VIEW

A - Third party DMX/RDM controller
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 (100-277V)
F - Leader cable (LOILC)
G - Lumenfacade Inground (LOI-DMX/RDM)
H - Jumper cable (LOIJC)
I - IP68 LOI-JBOX accessory (optional)
J - PACBOX

Wiring Detail using LOI-JBOX Accessory - DMX/RDM Dimming (DMX/RDM)

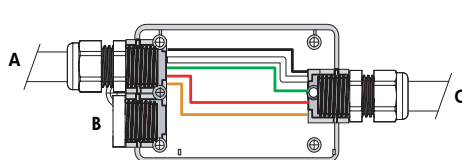A - Power and data input to fixture (wiring by others)
B - Cap
C - Cable to PACBOX

Notes:
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Maximum of 32 DMX/RDM enabled fixtures per CBX output.
- Maximum of 4 DMX/RDM repeaters/CBX cascading in line.
- Maximum of 6 outputs per CBX-ST, maximum of 1 output per CBX-DS
- Each fixture requires 1 DMX address.
- ASHRAE version: 5 watts per foot [0.3m], Regular Output version: 8.5 watts per foot [0.3m], High Output version: 15.25 watts per foot [0.3m].

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Specification Sheet

HOW TO ORDER

LOI	100/277	___	___	___	___	___	___	___
1	2	3	4	5	6	7	8	9

1

Housing:

LOI ASHRAE - Lumenfacade™ Inground, 5W/ft ASHRAE compliant[1]
LOI RO - Lumenfacade™ Inground, Regular Output, 8.5W/ft
LOI HO - Lumenfacade™ Inground, High Output, 15.25W/ft

A Lumenfacade Inground fixture includes 1x optical chamber (LOIC), 1x power and control box (PACBOX) and 1x recessed blockout (RBO). The LOIC, PACBOX and RBO are provided according to the output/color, length and control configuration.

2

Voltage:

100/277 - 100-277 volts

3

Length:

12 - 13 1/16 inches (331mm) (3.39 kg/7.48 lbs)
24 - 25 1/16 inches (636mm) (6.93 kg/15.28 lbs)
36 - 37 1/16 inches (941mm) (9.68 kg/21.35 lbs)
48 - 49 1/16 inches (1245mm) (12.24 kg/26.99 lbs)

4

Colors and Color temperatures:

22K - 2200K
27K - 2700K
30K - 3000K
35K - 3500K
40K - 4000K
RD - Red (8-10 week lead time)
GR - Green (8-10 week lead time)
BL - Blue (8-10 week lead time)
Consult factory for availability of static Royal Blue, 6500K and 90+ CRI.

5

Optics:

Asymmetric

WW - Asymmetric Wallwash optic

Symmetric

8x8 - 8° x 8°[2]   **60x60 -** 60° x 60°
10x10 - 10° x 10°[2]   **80x80 -** 80° x 80°
30x30 - 30° x 30°   **90x90 -** 90° x 90°
35x35 - 35° x 35°

Bi-symmetric

10x30 - 10° x 30°   **15x25 -** 15° x 25°
10x60 - 10° x 60°   **30x60 -** 30° x 60°
10x90 - 10° x 90°   **50x80 -** 50° x 80°

6

Tilt Setting:
Note: asymmetric wallwash optic is factory set with a 2.5 degree tilt.

TS0 - 0 degrees
TS2.5 - 2.5 degrees
TS5 - 5 degrees
TS20 - 20 degrees
Factory set. Cannot be adjusted in the field. Consider ground level when selecting a tilt setting for your application.

7

Optical Option:

INTL - Internal Louver[3]

8

Control:

NO - No Dimming
LT - Lumentalk Dimming[4]
DIM - 0-10V Dimming[5]
DALI - DALI Dimming[6]
ES - Lutron® EcoSystem® Enabled Dimming[7]
DMX/RDM - DMX/RDM enabled[8]

9

Option:

ASL - Anti-slip lens

Consult installation instructions to plan all aspects of the fixture installation. A completed LOI Certificate of Installation must be returned to Lumepulse Group to activate the warranty.

Notes:

[1] Not available for 1' fixture lengths. [2] For best results use with HO fixtures at a 6-inch (15cm) setback from surface. Contact factory for application support. [3] The addition of an internal louver will affect beam distribution, consult factory for application support. [4] 1% minimum dimming value. Lumentalk enabled fixtures must be commissioned using LumentalkID software and a LID-LT. Consult factory for details. [5] 10% minimum dimming value. Current Sink: 3mA/fixture, Current Source: 0.5mA fixture. [6] 1% minimum dimming value. 1 DALI address per fixture. [7] 1% minimum dimming value. 1 EcoSystem® address per fixture. [8] 1% minimum dimming value. Fixtures set to by fixture resolution. 1 DMX address per fixture.

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