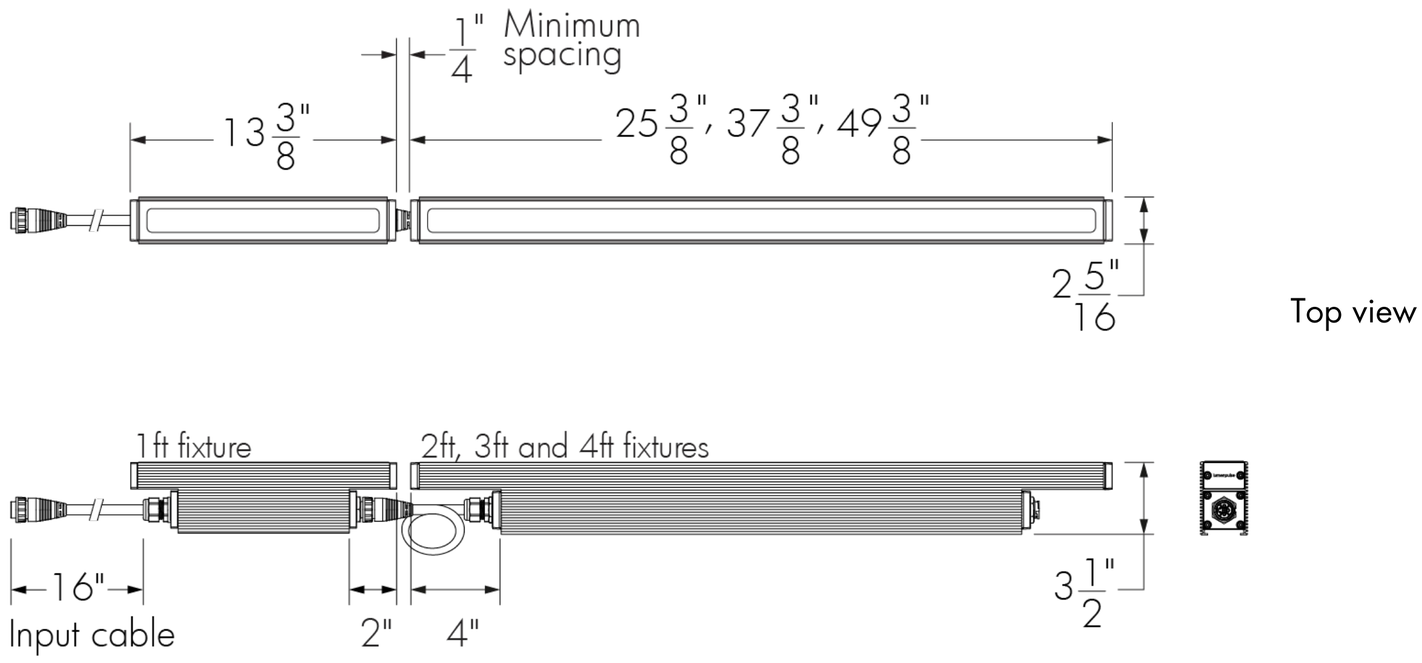
Specification Sheet

lumenfacade
LOG

COLOR CHANGING

Project Name _____ **Qty** _____

Type _____ **Catalog / Part Number** _____



Photometric Summary

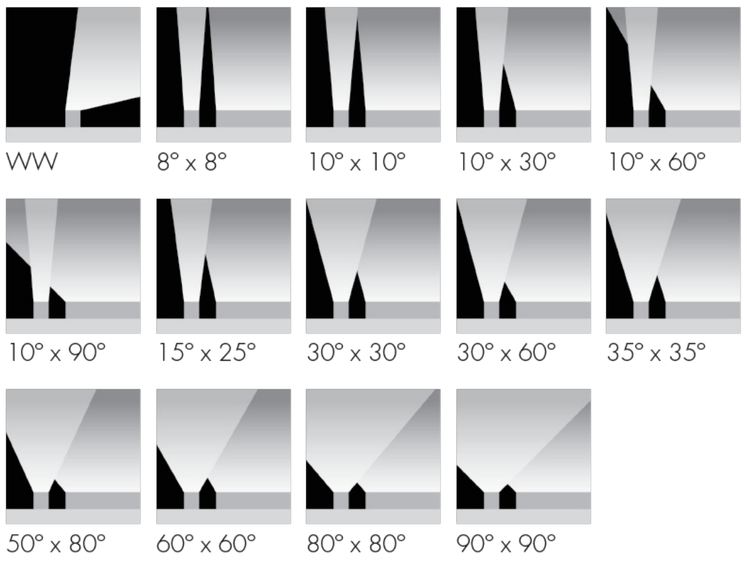
	Delivered output (lm)	Intensity (peak cd)
WW	1,565	2,464
8°x8°	1,901*	36,611*
10°x10°	1,771*	18,023*
10°x30°	1,800*	14,126*
10°x60°	1,898	8,350
10°x90°	1,681*	3,712*
30°x30°	1,770*	6,921*
30°x60°	1,815*	2,406*
60°x60°	1,620*	1,417*
90°x90°	1,688*	886*

Based on RGB full output, 4ft [1219mm], DMX/RDM configuration.

Photometric performance is measured in compliance with IESNA LM-79-08.

*Estimated. Consult website for the latest photometric files.

Optics



Colors and Color Temperatures

RGB Red Green Blue

RGBW Red Green Blue White

RGBA Red Green Blue Amber

Description

The Lumenfacade Color Changing is a high performance linear LED luminaire designed for grazing or floodlighting exterior facades with color. Featuring second generation LED technology, the luminaire is available in 12 in, 24 in, 36 in or 48 in sections, and offers a wide number of options, including: a choice of optics for grazing or floodlighting; RGB, RGBW or RGBA color mixing; various mounting options, finishes, accessories and controls. The Lumenfacade Color Changing is also available with a unique asymmetric wallwash distribution, providing exceptional uniformity and brightness for walls and signage.

Features

Color and Color Temperature	Additive RGB, Additive RGB + white 4000K, Additive RGB + amber
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°
Options	End-to-end configuration (factory installed 16 in black input cable included), Corrosion-resistant coating for hostile environments, 3G ANSI C136.31 Vibration Rating for bridge applications, 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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info@lumenpulse.com **www.lumenpulse.com** **www.lumenpulse.com/products/1049/lumenfacade-color-changing**

MG - R41

Controls

lumentalk DMXrdm

Ratings

IP66 IK07*

*asymmetric wallwash lens is IK06 rated

Certifications

c UL us CE RoHS 5 YEARS lumenpulse

Performance

Delivered Output	1,898 lm (48 in fixture, RGB full output, 10° x 60°, DMX/RDM), 2,215 lm (48 in fixture, RGBW full output, 10° x 60°, DMX/RDM), 1,442 lm (48 in fixture, RGBA full output, 10° x 60°, DMX/RDM)
Delivered Intensity	8,350 cd at nadir (48 in fixture, RGB full output, 10° x 60°, DMX/RDM), 7,300 cd at nadir (48 in fixture, RGBW full output, 10° x 60°, DMX/RDM), 4,730 cd at nadir (48 in fixture, RGBA full output, 10° x 60°, DMX/RDM)
Lumen Maintenance	L70 280,000 hrs, L95 35,000 hrs

Physical

Housing Material	Low copper content extruded aluminum
Lens Material	Clear tempered glass
Hardware Material	Stainless steel
End Cap Material	Machined aluminum
Gasket Material	Silicone
Surface Finish	Electrostatically applied polyester powder coat
Weight	12 in: 4.5 lbs, 24 in: 7 lbs, 36 in: 10.5 lbs, 48 in: 14 lbs

Electrical and control

Voltage	100 to 277 volts
Fixture Cable	Power and data in one cable, End-to-end option (ETE): 16 in black input cable (no jumper cable needed for minimum spacing between two fixtures)
Leader Cable Conductors	5C #16-5
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 (RGBW, RGBA)
RGB Color Mixing	12 LEDs per 12 in (4x Red, 4x Green, 4x Blue)
RGBW Color Mixing	12 LEDs per 12 in (3x Red, 3x Green, 3x Blue, 3x White)
RGBA Color Mixing	12 LEDs per 12 in (3x Red, 3x Green, 3x Blue, 3x Amber)

Environmental

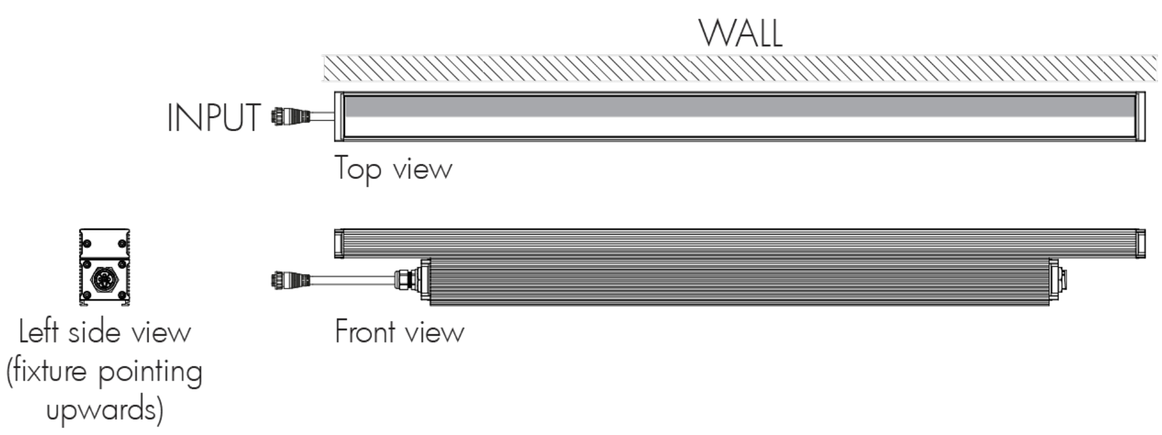
Storage Temperature	-40 °F to 185 °F (device must reach start-up temperature value before operating)
Start-up Temperature	-13 °F to 122 °F
Operating Temperature	-40 °F to 122 °F
Ingress Protection Rating	IP66
Impact Resistance Rating	IK07 (asymmetric wallwash lens is IK06 rated)

Accessories (order separately)

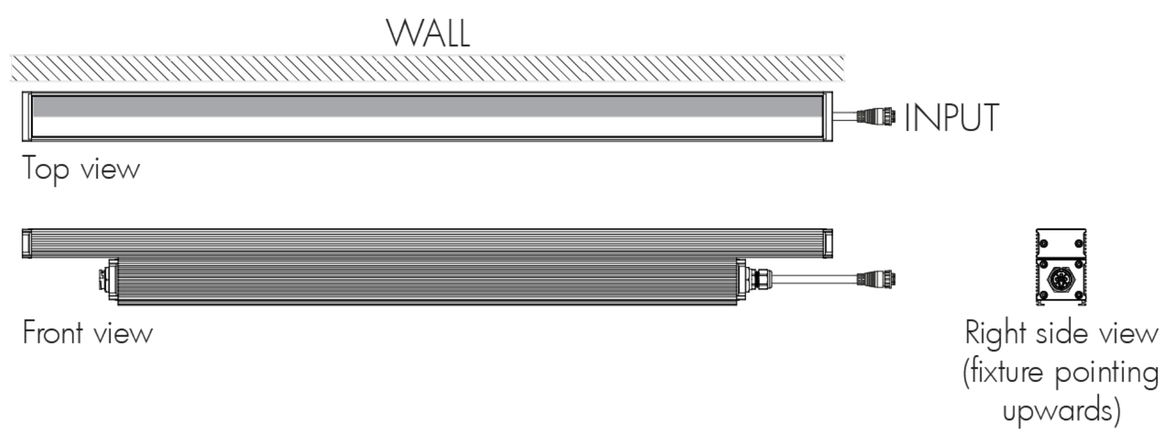
Cables	Leader cable (standard), Jumper cable (standard), Leader cable (ETE), Jumper cable (ETE)
Control Boxes	DMX/RDM enabled (daisy chain or star configuration), Ethernet enabled (daisy chain or star configuration), Lumentalk Data Bridge
Control Systems	Lumentone™ 2, Pharos® kit
Diagnostic and Addressing Tools	LumenID, LumentalkID

Asymmetric wallwash optic details

WWLF - Asymmetric wallwash optic, left feed



WWRF - Asymmetric wallwash optic, right feed

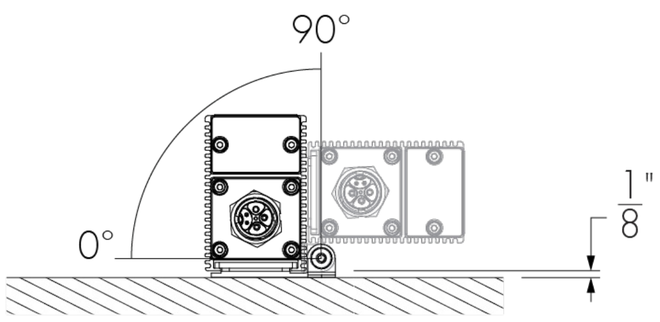


- Always position frosted side toward the wall.
- Fixture's feeding side is based on uplight installations. Feeding sides are reversed when fixture is used in a downlight application.
- Recommended setback from wall is 1/10 of the wall height. Example: 2 ft setback for a 20 ft wall.

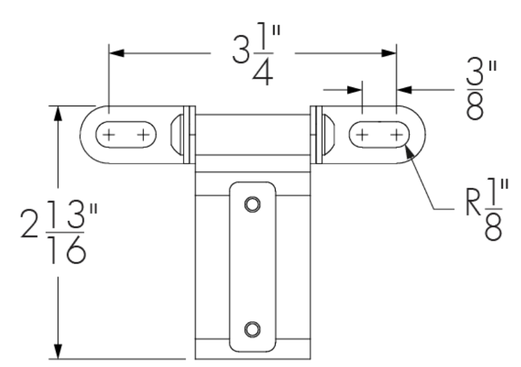
Mounting options

Surface Mount

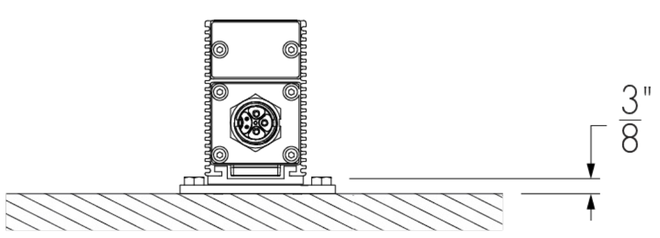
SAM - Slim Adjustable Mounting



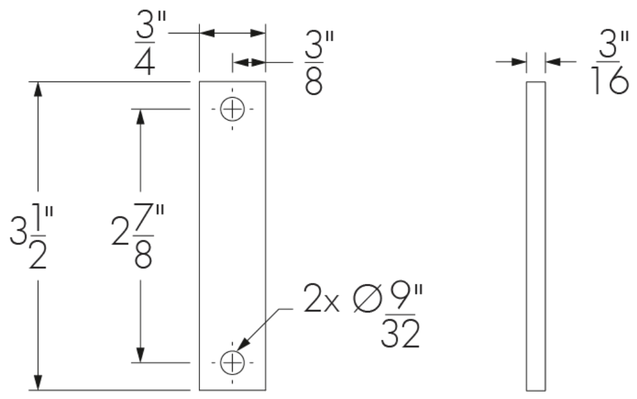
SAM - Mounting hole pattern



UMP - Fixed Mounting

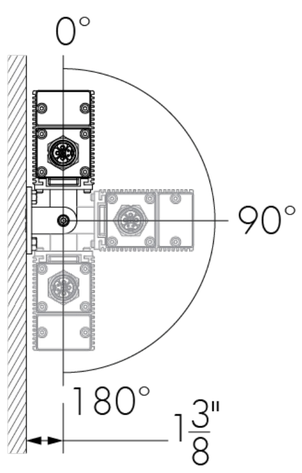


UMP - Mounting hole pattern

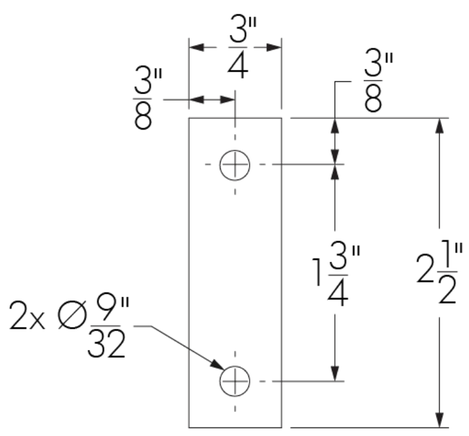


Wall Mount

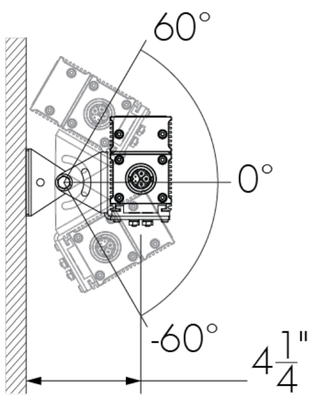
UMAS - Universal Adjustable Mounting



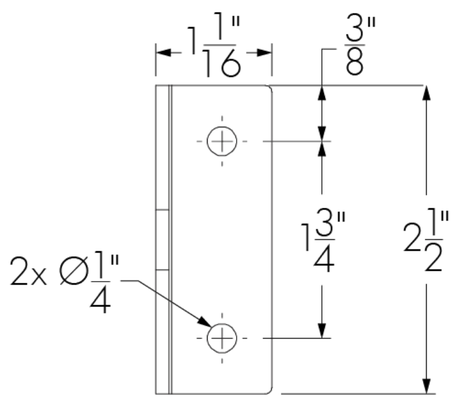
UMAS - Mounting hole pattern



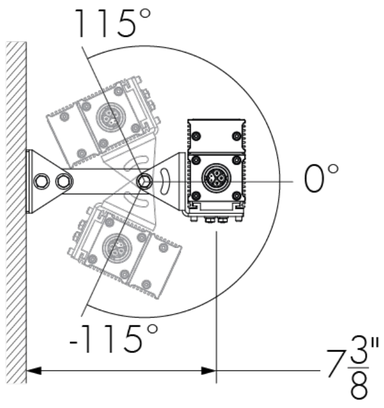
WAM2 - Adjustable Wall Mounting 2 in



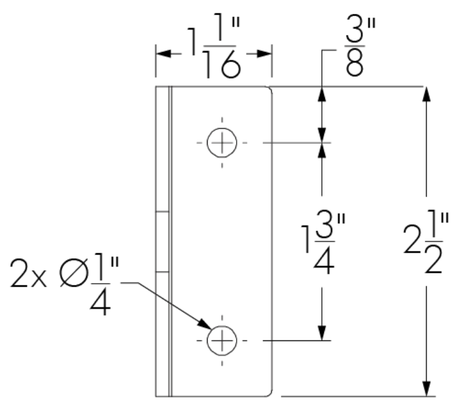
WAM2 - Mounting hole pattern



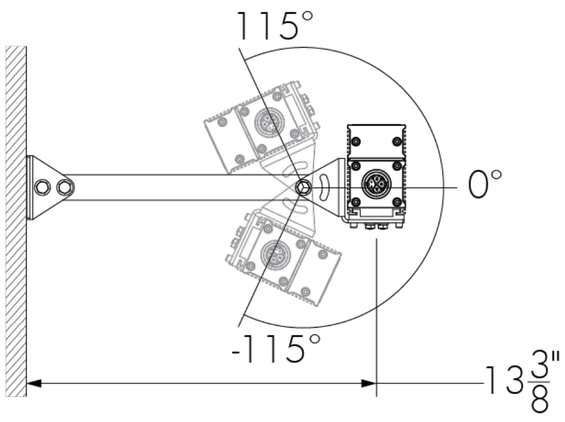
WAM6 - Adjustable Extended Arm Mounting 6 in



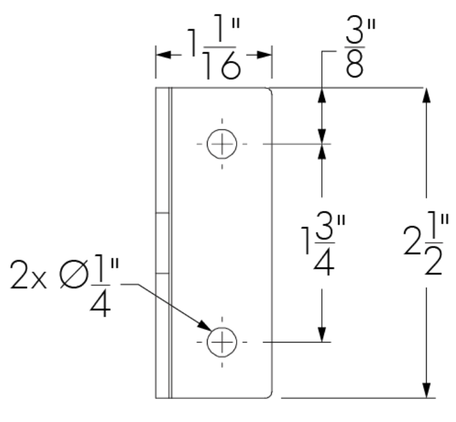
WAM6 - Mounting hole pattern



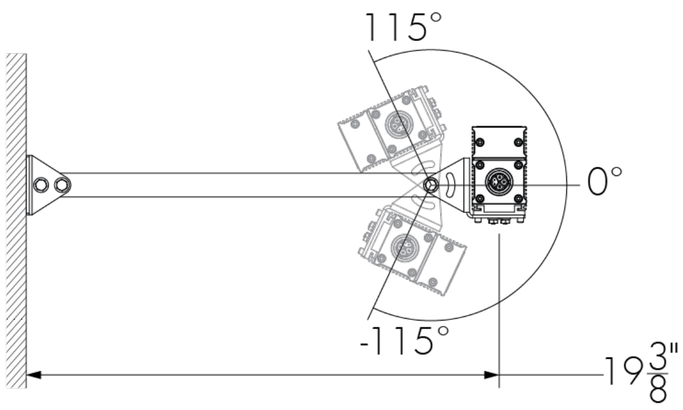
WAM12 - Adjustable Extended Arm Mounting 12 in



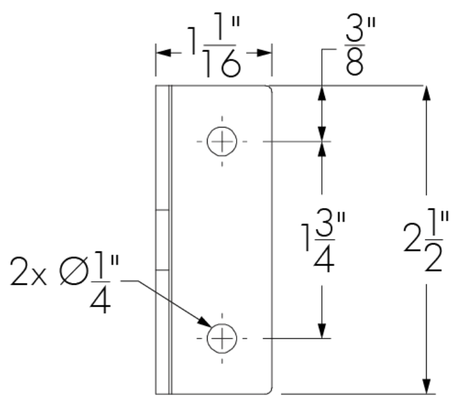
WAM12 - Mounting hole pattern



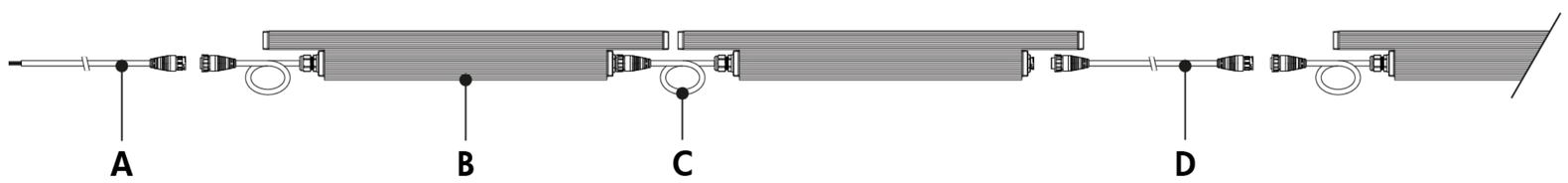
WAM18 - Adjustable Extended Arm Mounting 18 in



WAM18 - Mounting hole pattern



End-to-end configuration option (ETE)



A - ETE leader cable (order separately)
B - Lumenfacade with ETE option
C - ETE 16 in black input cable
D - ETE jumper cable (order separately)

Includes a factory installed 16 in black input cable. A jumper cable is not required for minimum spacing between two end-to-end (ETE) fixtures. An ETE jumper cable is required only if a longer distance between two adjacent ETE fixtures is needed, or to connect two continuous runs of ETE fixtures together.

Cables (order separately)

LOGLC - Leader cable for Lumenfacade

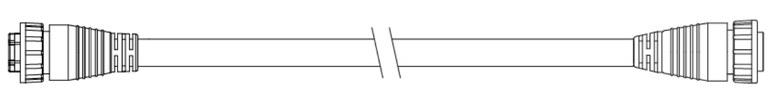
Standard construction
LOGLC-**CERTIFICATION**-STD-**LENGTH**-**CABLE COLOR**

End-to-end (ETE) option
LOGLC-**CERTIFICATION**-ETE-**LENGTH**-**CABLE COLOR**

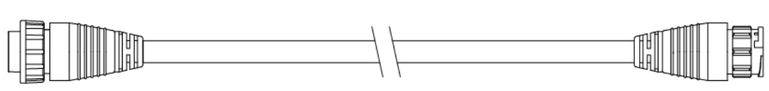
Please specify:
CERTIFICATION: UL or CE; **LENGTH**: 10 ft, 25 ft, 50 ft, 100 ft, 150 ft or 200 ft; **CABLE COLOR**: black or white (connectors are black as standard; ETE fixture input cables are black as standard)

- Suitable for dimming/data and non-dimming applications.
- Sealing end cap is mandatory for any unused connector. One (1) included with every leader cable.
- Consult Lumenfacade leader cable specification sheet for details.

LOGJC - Jumper cable for Lumenfacade



Standard construction
LOGJC-**CERTIFICATION**-STD-**LENGTH**-**CABLE COLOR**



End-to-end (ETE) option
LOGJC-**CERTIFICATION**-ETE-**LENGTH**-**CABLE COLOR**

Please specify:
CERTIFICATION: UL or CE; **LENGTH**: 1 ft (available for ETE option only), 2 ft to 30 ft (available in 1 ft increments) or 50 ft; **CABLE COLOR**: black or white (connectors are black as standard; ETE fixture input cables are black as standard)

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

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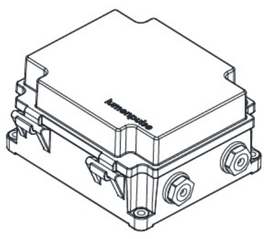
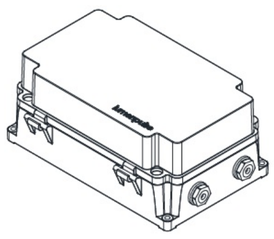
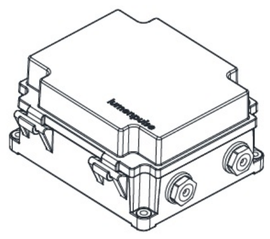
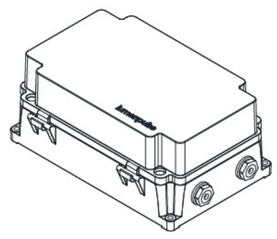
Control boxes (order separately)

CBX-DMX/RDM - DMX/RDM enabled (daisy chain or star configuration)

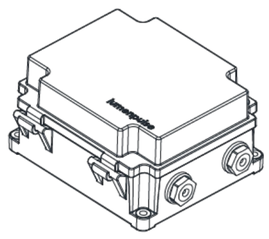
DMX/RDM control box. Up to six power and data outputs to fixtures or fixture runs. Consult CBX specification sheet and installation instructions for details. Lumenterminators provided with CBX (2x for daisy chain configuration, 6x for star configuration), consult factory to order spares.

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.

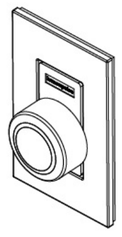
LDB - Lumentalk Data Bridge



Lumentalk Data Bridge, 0-10V or DMX output. Consult LDB specification sheet for details.

Control systems (order separately)

LTN2 - Lumentone™ 2



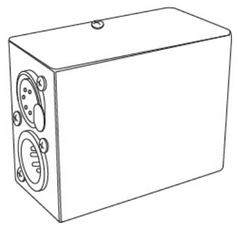
Lumentone 2 is a simple pre-programmed DMX 512 controller with a push button rotary dial and live feedback.

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.

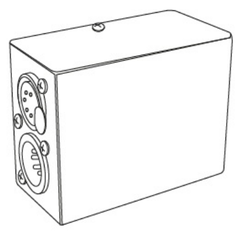
Diagnostic and addressing tools (order separately)

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.

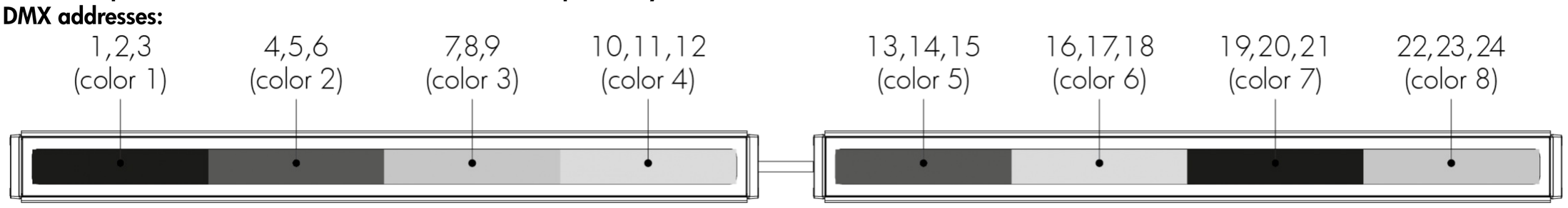
LID-LT - LumentalkID



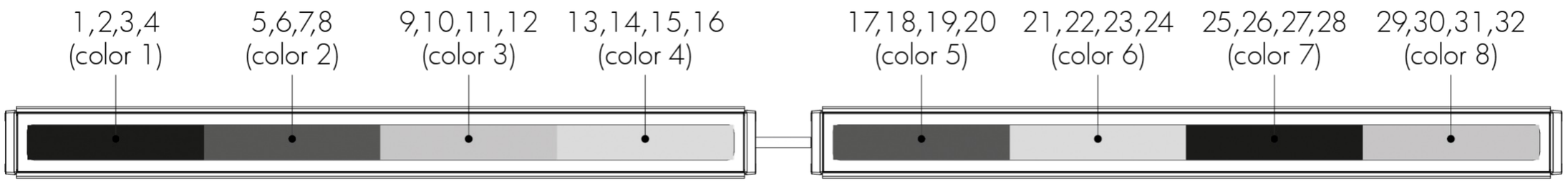
LumentalkID is a diagnostic and addressing tool. It must be specified for all Lumentalk (LT) applications. Consult LID-LT specification sheet for details.

Resolution details

Resolution per foot: each 12 in section is addressed independently
DMX addresses:

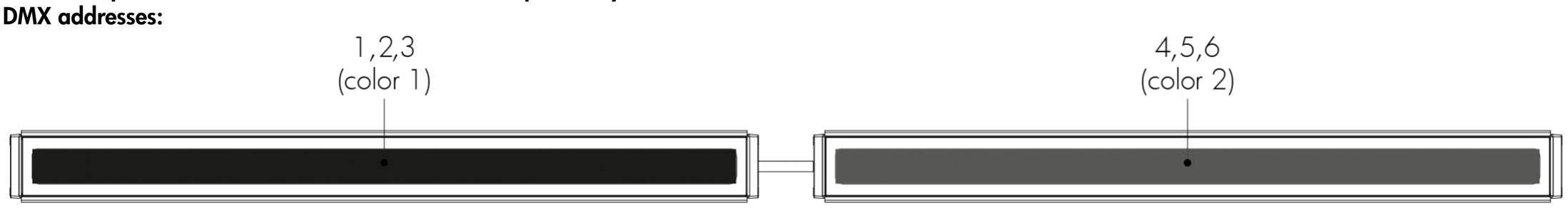


RGB color mixing option

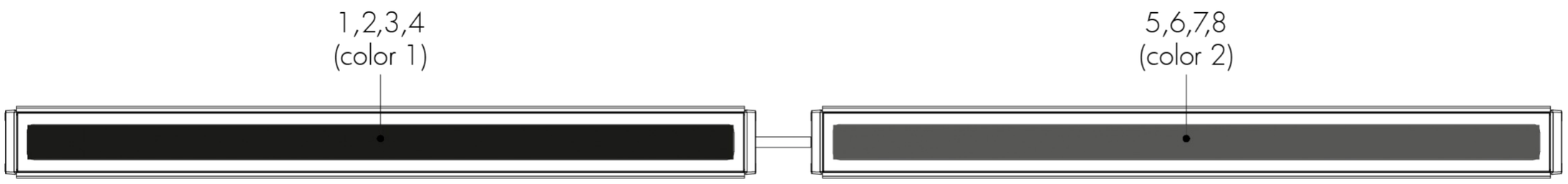


RGBW, RGBA color mixing options

Resolution per fixture: each fixture is addressed independently
DMX addresses:



RGB color mixing option



RGBW, RGBA color mixing options

- 48 in 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.

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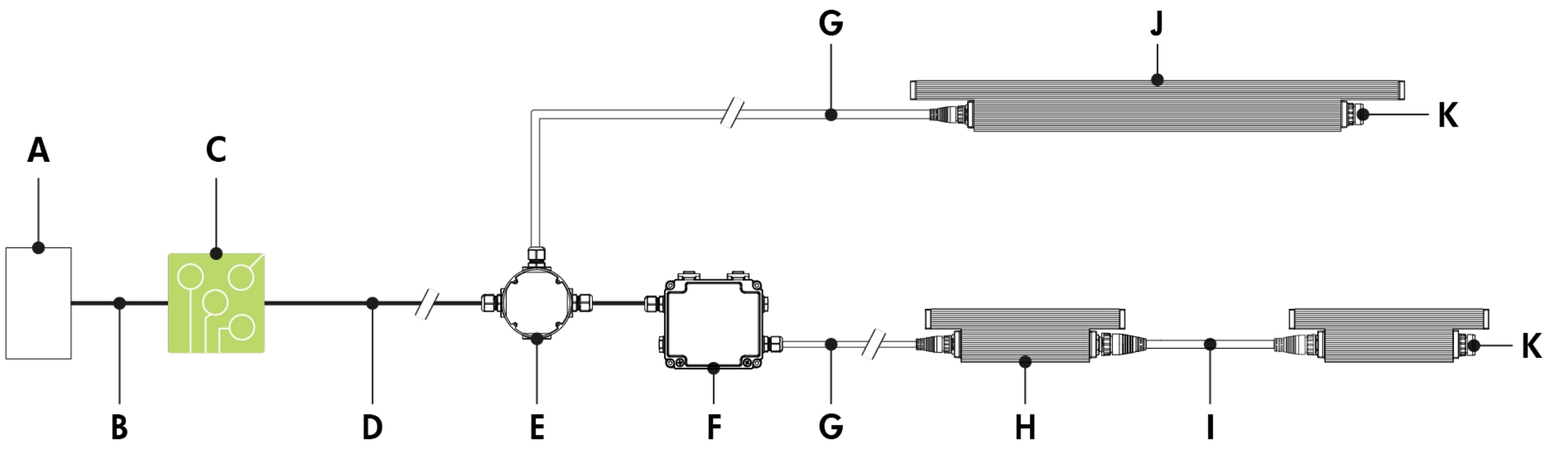
Typical wiring diagrams

Wiring color code

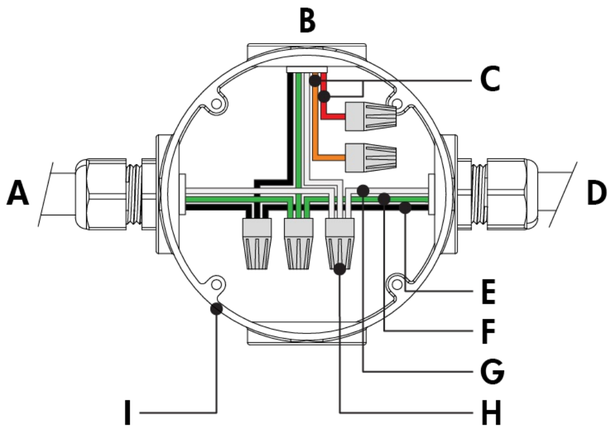
UL Color Code	USE
Green	Ground
Black	Line
White	Line/Neutral
Red or Purple	0-10V / Data +
Orange	0-10V / Data -

Lumentalk (LT)



A - DMX/RDM controller (order separately from Lumenpulse, or by others)
B - Data wiring (by others)
C - Lumentranslator (LTL-DMX)
D - Power line (120-277V AC, wiring by others)
E - Junction box (by others)
F - Lumentalk Data Bridge (LDB-DMX)
G - Leader cable (LOGLC)
H - Lumenfacade 12 in
I - Jumper cable (LOGJC)
J - Lumenfacade (24 in, 36 in or 48 in fixture lengths)
K - Sealing end cap

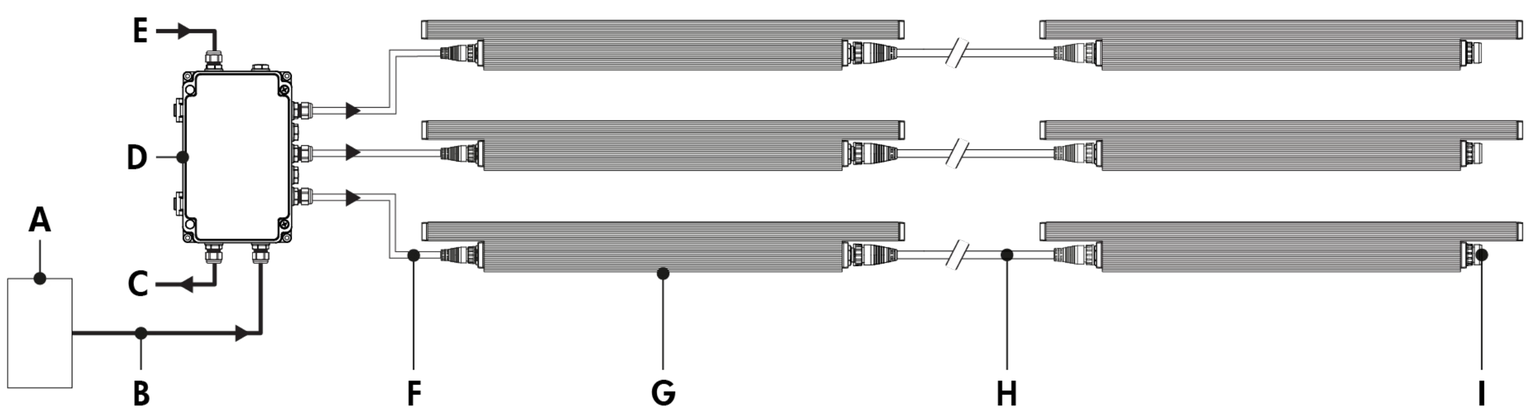
Lumentalk (LT) - wiring detail



A - Power input (control over power line via Lumentalk system)
B - To fixture
C - Not required
D - To Lumentalk Data Bridge (for run lengths with 12 in fixtures)
E - Line
F - Ground
G - Line/Neutral
H - Wire-nuts (by others)
I - Junction box (by others)

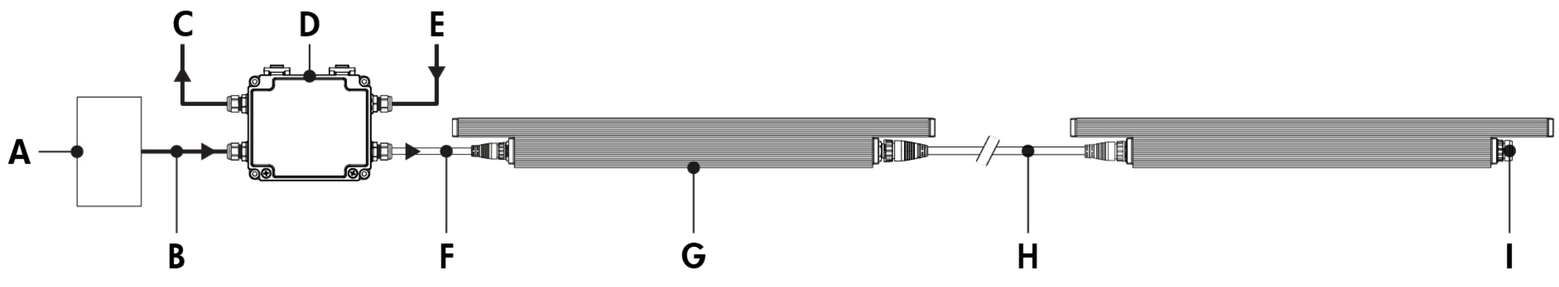
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Lumentalk Data Bridge required for 12 in fixture lengths, see LDB installation instructions for details. Fixtures must be specified as DMX/RDM and the Lumentalk Data Bridge must be specified as DMX. 2-step commissioning process: 1 - DMX/RDM system using LumenID software and a LID, 2 - Lumentalk system using LumentalkID software and a LID-LT. Consult factory for details.
- Maximum of 32 fixtures per LDB-DMX. 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.

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 (100-277V, wiring by others)
F - Leader cable (LOGLC)
G - Lumenfacade
H - Jumper cable (LOGJC)
I - Sealing end cap

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 (100-277V, wiring by others)
F - Leader cable (LOGLC)
G - Lumenfacade
H - Jumper cable (LOGJC)
I - Sealing end cap

Maximum run length

Configuration/Voltage	**120V**	**240V**	**277V**
LOG	68ft	80ft	88ft

Based on 15A maximum, 50 ft leader cable.

- Consult CBX 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.
- RGB color mixture option requires 3 DMX addresses. RGBW color mixture option requires 4 DMX addresses. RGBA color mixture option requires 4 DMX addresses.
- 17.25 W/ft.

How to order

1	2	3	4	5	6	7	8

9

1 . Housing [1]

LOG	Lumenfacade™

[1] Power consumption is typically 20% higher for 12 in fixture lengths.

2 . Voltage

100	100 volts
120	120 volts
208	208 volts
220	220 volts
240	240 volts
277	277 volts

3 . Length

12	13 3/8 in (4.5 lbs) [1] [2]
24	25 3/8 in (7 lbs)
36	37 3/8 in (10.5 lbs)
48	49 3/8 in (14 lbs)

[1] Power consumption is typically 20% higher for 12 in fixture lengths.

[2] To connect 12 in fixture lengths to the Lumentalk system, DMX/RDM must be specified as the control option, and a Lumentalk Data Bridge (LDB-DMX) is required. See the typical wiring diagrams in the specification sheet for details.

4 . Color and Color Temperature

RGB	Additive RGB
RGBW	Additive RGB + white 4000K standard. 2700K, 3000K and 3500K available, consult factory. [1]
RGBA	Additive RGB + amber

[1] Longer lead times apply for Royal Blue, 2700K, 3000K and 3500K white color temperature mixes.

5 . Optics

WWLF	Asymmetric Wallwash, left feed
WWRF	Asymmetric Wallwash, right feed
8x8	8° x 8° [1]
10x10	10° x 10° [1]
10x30	10° x 30°
10x60	10° x 60°
10x90	10° x 90°
15x25	15° x 25°
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

[1] For best results, we recommend a 6 in setback from surface. Contact factory for application support.

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6 . Mounting Options

SAM	Slim Adjustable Mounting
UMP	Fixed Mounting [1]
UMAS	Universal Adjustable Mounting [1]
WAM2	Adjustable Wall Mounting 2 in
WAM6	Adjustable Extended Arm Mounting 6 in
WAM12	Adjustable Extended Arm Mounting 12 in
WAM18	Adjustable Extended Arm Mounting 18 in

[1] Suitable to use when 3GV option is specified.

7 . Finish

BK	Black Sandtex®
BRZ	Bronze Sandtex®
SI	Silver Sandtex®
WH	Smooth white
CC	Custom color and finish (please specify RAL color) [1]

[1] Lumenpulse offers a wide selection of RAL CLASSIC (K7) colors with a smooth texture and high-gloss finish. Please consult factory for a list of available K7 colors, other RAL textures and glosses, or to match alternate color charts. Final color matching results may vary.

8 . Control

LT	Lumentalk [1] [2]
DMX/RDM	DMX/RDM enabled [3]

[1] To connect 12 in fixture lengths to the Lumentalk system, DMX/RDM must be specified as the control option, and a Lumentalk Data Bridge (LDB-DMX) is required. See the typical wiring diagrams in the specification sheet for details.

[2] A Lumentranslator and LumentalkID (LIDLT) must be specified for Lumentalk applications. Consult Lumentranslator and Lumentalk pages and specification sheets for details.

[3] A control box (CBX) and LumenID (LID) must be specified.

9 . Options

ETE	End-to-end configuration (factory installed 16 in black input cable included)
CRC	Corrosion-resistant coating for hostile environments [1]
3GV	3G ANSI C136.31 Vibration Rating for bridge applications [2]
CE	CE (certification covers European Economic Area) [3]

[1] Use only when exposed to salt spray and harsh chemicals. This option is not required for normal outdoor exposure.

[2] Available with UMP and UMAS mounting options only.

[3] Consult European specification sheet and installation instructions for CE wiring information.

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