Project Name _____ **Qty** _____

Type [L] **Catalog / Part Number** _____

359mm, 665mm, 971mm, 1278mm

Top view

95mm

3mm Minimum
end to end spacing

112mm (61mm on 305mm configuration)

406mm

65mm

Minimum cove
width:89mm

Input Cable
(no jumper cable needed)
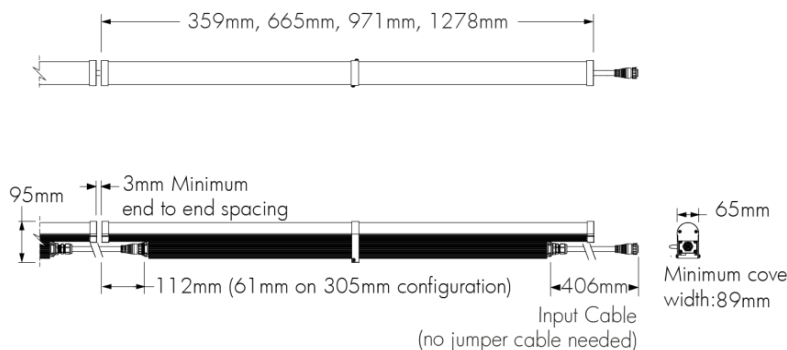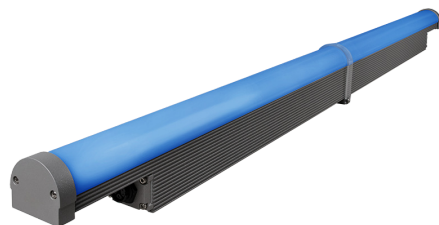
Front and side views

Photometric Summary

1ft fixture [305mm]

	Delivered output (lm)	Power (W)
RGB	84	6
RGBW30K	83	5
RGBW40K	85	5
RGBA	61	5

2ft fixture [610mm]

	Delivered output (lm)	Power (W)
RGB	168	12
RGBW30K	166	10
RGBW40K	170	10
RGBA	121	10

3ft fixture [914mm]

	Delivered output (lm)	Power (W)
RGB	252	18
RGBW30K	249	15
RGBW40K	254	15
RGBA	182	15

4ft fixture [1219mm]

	Delivered output (lm)	Power (W)
RGB	336	24
RGBW30K	332	20
RGBW40K	339	20
RGBA	243	20

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

Description

The Lumencove XT Direct View Colour Changing is a system of direct view linear LED luminaires for media façades and delineation of large-scale structures such as bridges and towers. IP66-rated for sustained outdoor use, Lumencove XT Colour Changing luminaires can be arranged in patterns or in long continuous lines of light. The luminaires use tri-colour LEDs in a single package, premixing colours to avoid striations and shadows. A domed acrylic diffuser lens produces perfectly uniform and saturated light that can be controlled with up to 305 mm resolution for sophisticated low-resolution video effects in colour. Available with a choice of lengths, finishes, and mounting options, as well as Legacy or Custom output modes.

Features

Colour and Colour Temperature
Additive RGB Regular Output, Additive RGB + 3000K, Additive RGB + 4000K, Additive RGB + amber

Length (nominal)
305 mm, 610 mm, 914 mm, 1219 mm

Optics
Direct view

Options
Corrosion-resistant coating for hostile environments, 3G ANSI C136.31-2010 Vibration Rating for bridge applications, CE (certification covers European Economic Area), Clear end caps

Power Consumption
16.4 W/m RGBW30K, RGBW40K and RGBA versions, 19.69 W/m RGB version

Warranty
5-year limited warranty

Performance

Maximum Delivered Output
336 lm (1219 mm fixture, RGB full output, DMX/RDM), 332 lm (1219 mm fixture, RGBW30K full output, DMX/RDM), 339 lm (1219 mm fixture, RGBW40K full output, DMX/RDM), 243 lm (1219 mm fixture, RGBA full output, DMX/RDM)

Lumen Maintenance
L70 88,000 hrs (Ta 25 °C and Ta 40 °C), L95 72,000 hrs (Ta 25 °C and Ta 40 °C)

lumenpulse™

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T United States 617.307.5700 | Canada 1.877.937.3003 | 514.937.3003   **F** 514.937.6289
www.lumenpulse.com/products/2215

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Average Illuminance

Average Illuminance

Angle	0° (Cd/m²)	45° (Cd/m²)	90° (Cd/m²)
45°	1129	965	971
55°	1066	915	947
65°	951	878	942
75°	737	868	968
85°	253	932	1045

Based on 4ft [1219mm] fixture, RGBW40K full output, DMX/RDM configuration.
Photometric performance is measured in compliance with IESNA LM-79-08.

Optic

Direct view

Colours and Colour Temperatures

R_GB Red Green Blue | R_GBW 30K Red Green Blue White | R_GBW 40K Red Green Blue White | R_GBA Red Green Blue Amber

Controls

lumentalk   DMXrdm

Rating

IP66

Certifications

c UL us | CE | RoHS | 5 YEARS lumenpulse | 3G VIBRATION RATING

Physical

Housing Material	Low copper content extruded aluminium
Lens Material	Tempered glass lens combined with extruded acrylic UV and impact resistant opal diffuser
Hardware Material	Stainless steel
End Cap Material	Aluminium, Acrylic (CEC option only)
Gasket Material	Silicone
Surface Finish	Electrostatically applied polyester powder coat
Weight	305 mm: 1.68 kg, 610 mm: 2.54 kg, 914 mm: 3.99 kg, 1219 mm: 4.9 kg

Electrical and control

Maximum Cable and Fixture Run Length	Up to 51.8 m (DMX/RDM, 240-277V, RGB version), Up to 39 m (DMX/RDM, 120-277V, RGBW30K and RGBW40K versions)
Fixture Cable	Power and data in one cable, End-to-end standard configuration: 406 mm black input cable (no jumper cable needed)
Leader Cable Conductor	5C #16-5
Fixture Cable and Connector Colour	Black cable (black connector) or white cable (black connector) for leader and jumper cables
Control	Lumentalk, DMX/RDM enabled
Resolution (DMX/RDM)	Per foot or per fixture (configured with LumenID V3 software), 8-bit or 16-bit
RGB Colour Mixing	18 LEDs per 305 mm (tri-colours LEDs)
RGBW30K Colour Mixing	36 LEDs per 305 mm (18x tri-colour LEDs, 18x 3000K LEDs)
RGBW40K Colour Mixing	36 LEDs per 305 mm (18x tri-colour LEDs, 18x 4000K LEDs)
RGBA Colour Mixing	36 LEDs per 305 mm (18x tri-colour LEDs, 18x amber LEDs)

## Environmental

Storage Temperature	-40 °C to 50 °C (device must reach start-up temperature value before operating)
Start-up Temperature	-25 °C to 50 °C
Operating Temperature	-25 °C to 50 °C
Environment	Dry/damp/wet location
Ingress Protection Rating	IP66, Wet location rated

Accessories (order separately)
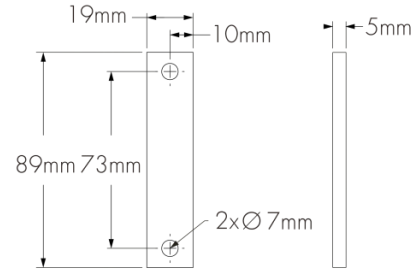
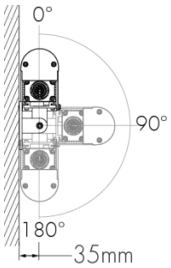|	
Cables	Leader Cable, Jumper Cable
Control Boxes	DMX/RDM enabled (daisy chain or star configuration), Ethernet enabled (daisy chain or star configuration)
Control Systems	Lumentone™ 2, Pharos® kit
Diagnostic and Addressing Tools	LumenID, LumentalkID

Mounting options

UMP - Fixed Mounting
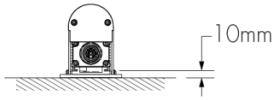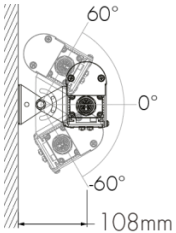

UMP - Mounting hole pattern
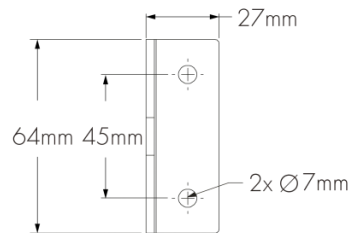

UMAS - Universal Adjustable Mounting

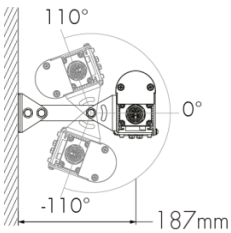
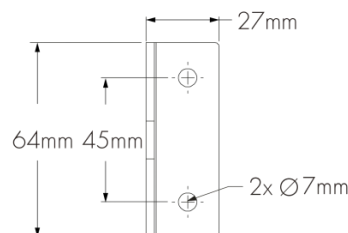**UMAS - Mounting hole pattern**
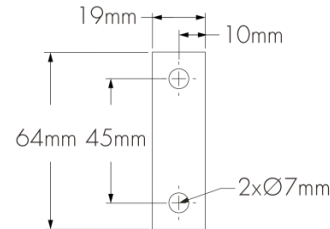
WAM2 - Adjustable Wall Mounting 51 mm
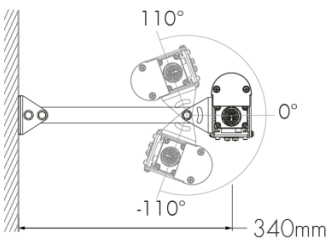

WAM2 - Mounting hole pattern

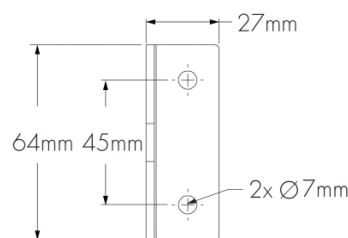**WAM6 - Adjustable Extended Arm Mounting 152 mm**

WAM6 - Mounting hole pattern

WAM12 - Adjustable Extended Arm Mounting 305 mm

WAM12 - Mounting hole pattern

Cables (order separately)

LXTLC - Leader cable for Lumencove XT

LXTLC-**CERTIFICATION-CONTROL-LENGTH-CABLE COLOUR**
Please specify:
CERTIFICATION: UL or CE; **CONTROL**: NO/DIM or DMX/RDM; **LENGTH:** 3 m, 7.6 m, 15.2 m, 30.5 m, 45.7 m or 61 m; **CABLE COLOUR:** BK (black) or WH (white) (connectors are black as standard).

• For NO, LT, DIM, DIM/DTW, DALI and ES fixture control options: specify the NO/DIM control option for the leader cable.
• Sealing endcap is mandatory for any unused connector. One (1) included with every NO/DIM leader cable.

• For DMX/RDM and DMX/RDM1 fixture control options: specify the DMX/RDM control option for the leader cable.
• DMX terminator is mandatory for any unused connector. One (1) included with every DMX/RDM leader cable.

• Consult Lumencove XT leader cable specification sheet for details.

LXTJC - Jumper cable for Lumencove XT

LXTJC-**CERTIFICATION-LENGTH-CABLE COLOUR**
Please specify:
CERTIFICATION: UL or CE; **LENGTH:** 0.3 m to 9.1 m (available in 0.3 m increments) or 15.2 m; **CABLE COLOUR:** BK (black) or WH (white) (connectors are black as standard).

• Suitable for dimming/data and on/off applications (NO, LT, DIM, DIM/DTW, DALI, DMX/RDM and DMX/RDM1 fixture control options).
• Consult Lumencove XT jumper cable specification sheet for details.

Control boxes (order separately)

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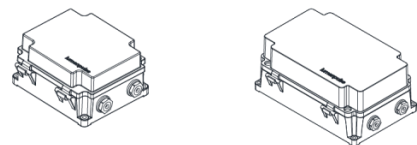
DMX/RDM control box. Up to six power and data outputs to fixtures or fixture runs. Consult CBX specification sheet and installation instructions for details. Lumenterminators provided with CBX (2x for daisy chain configuration, 6x for star configuration), consult factory to order spares.

CBX-ENET - Ethernet enabled (daisy chain or star configuration)
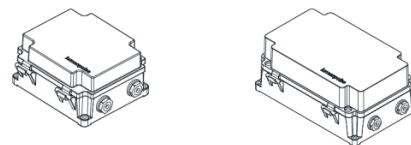
Ethernet control box. Up to four power and data outputs to fixture or fixture runs. Consult Ethernet CBX specification sheet and installation instructions for details.

LDB - Lumentalk Data Bridge
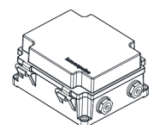
The Lumentalk Data Bridge is a digital interface that connects non-Lumentalk luminaires to the Lumentalk network, 0-10V or DMX output. Consult LDB specification sheet for details.

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.
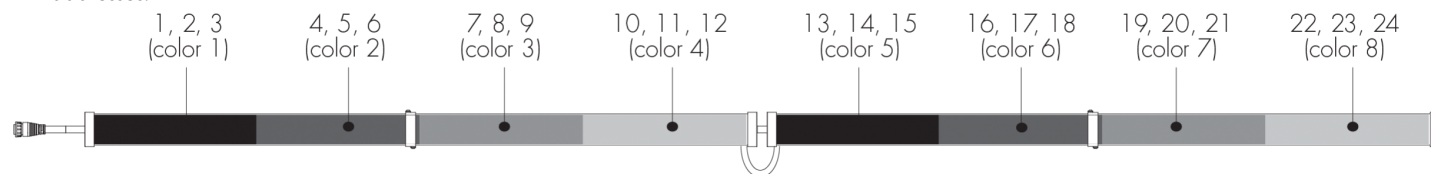
LID-LT - LumentalkID

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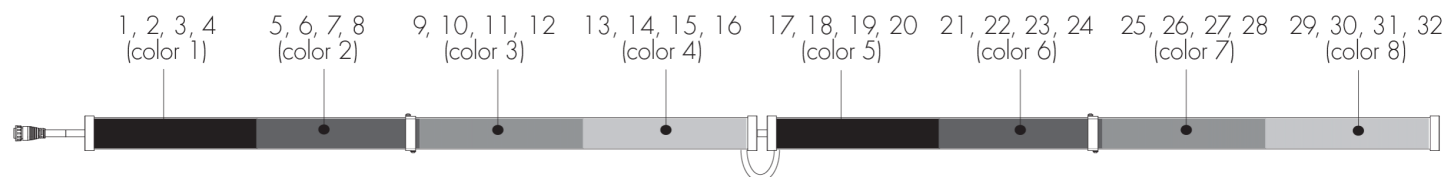
Resolution details

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

1, 2, 3 (color 1)   4, 5, 6 (color 2)   7, 8, 9 (color 3)   10, 11, 12 (color 4)   13, 14, 15 (color 5)   16, 17, 18 (color 6)   19, 20, 21 (color 7)   22, 23, 24 (color 8)

RGB colour mixing option

1, 2, 3, 4 (color 1)   5, 6, 7, 8 (color 2)   9, 10, 11, 12 (color 3)   13, 14, 15, 16 (color 4)   17, 18, 19, 20 (color 5)   21, 22, 23, 24 (color 6)   25, 26, 27, 28 (color 7)   29, 30, 31, 32 (color 8)
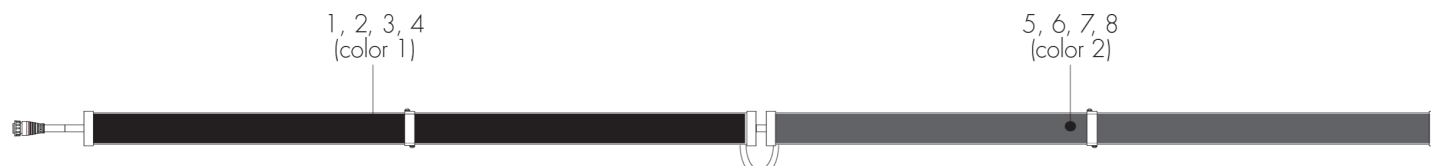
RGBW30K, RGBW40K and RGBA colour mixing options

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

(color 1)   (color 2)

RGB colour mixing option

1, 2, 3, 4 (color 1)   5, 6, 7, 8 (color 2)

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.

Typical wiring diagrams

Wiring colour code

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

Lumentalk (LT)
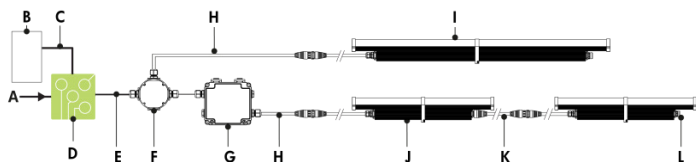
A - Power input (100-277V AC, wiring by others)

B - DMX/RDM controller (order separately from lumenpulse, or by others)

C - Data wiring (by others)

D - Lumentranslator 2 (LTL2-DMX)

E - Power wiring (by others)

F - Junction box (by others)

G - Lumentalk Data Bridge (LDB-DMX)

H - Leader cable (LXTLC)

I - Lumencove XT Direct view (610 mm, 914 mm or 1219 mm fixture lengths)

J - Lumencove XT Direct view (305 mm)

**K -** Jumper cable (LXTJC) (optional)

L - Sealing end cap

Lumentalk (LT) - wiring detail
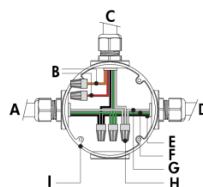
A - Power input (control over power line via Lumentalk system)

B - Not required

C - To fixture

D - To Lumentalk Data Bridge (for run lengths with 305 mm 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 305 mm fixture lengths, see LDB installation instructions for details.- For applications with all fixtures controlled as 1 zone: fixtures and Lumentalk Data Bridge must be specified as DIM. Maximum of 10 fixtures per LDM-DIM, consult factory for applications that require additional capabilities.- For application with fixtures controlled individually: fixtures and 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. Maximum of 32 fixtures per LDB-DMX. Consult factory for details.

- 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 colours 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.

- RGB version: 19.69 W/m, RGBW30K, RGBW40K and RGBA versions : 16.4 W/m.

Star Layout (DMX/RDM)
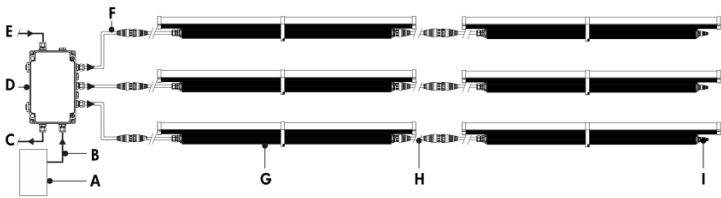
A - DMX/RDM controller (order separately from Lumenpulse, or by others)
B - Data input (Belden 9841 or equivalent, by others)
C - Data output to next CBX (optional, not isolated/not boosted)
D - CBX-ST
E - Power input (120-277V, wiring by others)
F - Leader cable (LXTLC)
G - Lumencove XT Direct View
H - Jumper cable (LXTJC) (optional)
I - DMX Terminator (last fixture in DMX/RDM run only)

Daisy Chain Layout (DMX/RDM)
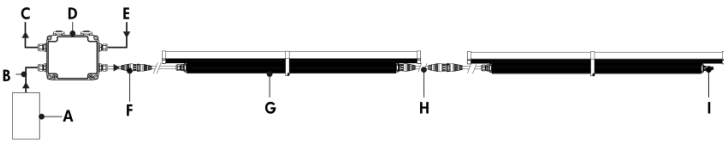
A - DMX/RDM controller (order separately from Lumenpulse, or by others)
B - Data input (Belden 9841 or equivalent, by others)
C - Data output to next CBX (optional, not isolated/not boosted)
D - CBX-DS
E - Power input (120-277V, wiring by others)
F - Leader cable (LXTLC)
G - Lumencove XT Direct View
H - Jumper cable (LXTJC) (optional)
I - DMX Terminator (last fixture in DMX/RDM run only)

Maximum Run of Fixtures, Lumencove® XT RGB 19.69 W/m

Voltage	120V	240V	277V
Maximum Run of Fixtures*		39m	

Maximum Run of Fixtures, Lumencove® XT RGBW30K, RGBW40K, RGBA 16.4 W/m

Voltage	120V	240V	277V
Maximum Run of Fixtures*		39m	

Based on 8A maximum, 15.2m leader cable.
*Example: 120V = 39m maximum run of end to end fixtures (32 fixtures maximum for 1278mm LXTD).

- Refer to 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 1219 mm fixtures.
- 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.
- DMX terminator is required at the end of each run to maintain data integrity. One (1x) DMX terminator included with each leader cable. See installation instructions for details.
- 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.
- RGB version: 19.69 W/m, RGBW30K, RGBW40K and RGBA versions: 16.4 W/m.

Specification Sheet

lumencove
Lumencove XT Direct View
LXTD

COLOUR CHANGING

How to order

Housing	Voltage	Length	Colour and Colour Temperature	Mounting Options	Finish	Control	Options
LXTD Lumencove® XT Direct View	**120** 120 volts **208** 208 volts **220** 220 volts **240** 240 volts **277** 277 volts	**12** 359 mm (1.68 kg) [1] **24** 665 mm (2.54 kg) **36** 972 mm (3.99 kg) **48** 1278 mm (4.9 kg)	**RGB** Additive RGB 19.69 W/m **RGBW30K** Additive RGB + 3000K, 16.4 W/m **RGBW40K** Additive RGB + 4000K, 16.4 W/m **RGBA** Additive RGB + amber 16.4 W/m	**UMP** Fixed Mounting [2] **UMAS** Universal Adjustable Mounting [2] **WAM2** Adjustable Wall Mounting 51 mm **WAM6** Adjustable Extended Arm Mounting 152 mm **WAM12** Adjustable Extended Arm Mounting 305 mm	**BK** Black Sandtex® **BRZ** Bronze Sandtex® **SI** Silver Sandtex® **WH** Smooth white **CC** Custom colour and finish (please specify RAL colour) [3] [4] [5]	**LT** Lumentalk [1] [6] [7] **DMX/RDM** DMX/RDM enabled [8]	**CRC** Corrosion-resistant coating for hostile environments [9] [10] **3GV** 3G ANSI C136.31-2010 Vibration Rating for bridge applications [11] **CE** CE (certification covers European Economic Area) **CEC** Clear end caps

Notes:

1. To connect 305 mm 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. Suitable to use when 3GV option is specified.
3. Lumenpulse offers a wide selection of RAL CLASSIC (K7) colours with a smooth texture and high-gloss finish. Please consult factory for a list of available K7 colours, other RAL textures and glosses, or to match alternate colour charts. Final colour matching results may vary.
4. Setup charges apply for RAL colours. Consult factory for details.
5. Longer lead times can be expected for custom RAL colour finishes.

6. Available for 610 mm, 914 mm and 1219 mm fixture lengths only.
7. A Lumentranslator 2 (LTL2) and LumentalkID (LIDLT) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.
8. A control box (CBX) and LumenID (LID) must be specified.
9. Use only when exposed to salt spray. This option is not required for normal outdoor exposure.
10. Setup charges apply. Consult factory for details.
11. Available with UMP and UMAS mounting options only.

lumenpulse™

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www.lumenpulse.com/products/2215

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