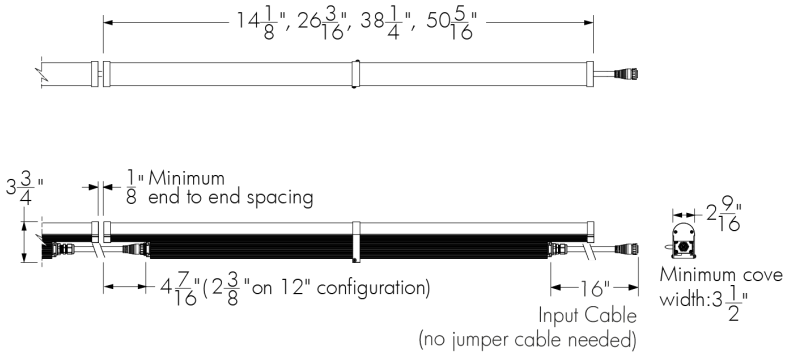
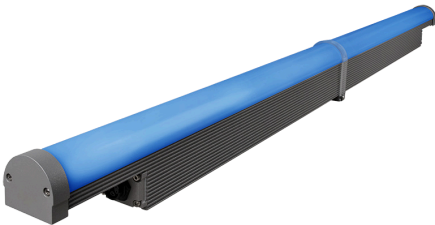


Project Name _____

Qty _____

Type _____

Catalog / Part Number _____



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]		
RGB	168	12
RGBW30K	166	10
RGBW40K	170	10
RGBA	121	10
3ft fixture [914mm]		
RGB	252	18
RGBW30K	249	15
RGBW40K	254	15
RGBA	182	15
4ft fixture [1219mm]		
RGB	336	24
RGBW30K	332	20
RGBW40K	339	20
RGBA	243	20

¹ Based on full output, DMX/RDM configuration.
² Photometric performance is measured in compliance with IESNA LM-79-24.

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 12 in 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

Color and Color Temperature	Additive RGB Regular Output Additive RGB + 3000K Additive RGB + 4000K Additive RGB + amber
Length (Nominal)	12 in, 24 in, 36 in, 48 in
Optics	Direct view
Option	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	5 W/ft RGBW30K, RGBW40K and RGBA versions, 6 W/ft RGB version
Warranty	5-year limited warranty

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	1,045

¹. Based on 4 ft fixture, RGBW40K full output, DMX/RDM configuration.
². Photometric performance is measured in compliance with IESNA LM-79-24.

Optics



Direct
View

Color and Color Temperature

Additive RGB 6 W/ft	Additive RGB + 3000K, 5 W/ft	Additive RGB + 4000K, 5 W/ft	Additive RGB + amber 5 W/ft

Control



Rating

IP66

Lumencycle™ Program



Certifications



Performance

Maximum Delivered Output	336 lm (48 in fixture, RGB full output, DMX/RDM)
	332 lm (48 in fixture, RGBW30K full output, DMX/RDM)
	339 lm (48 in fixture, RGBW40K full output, DMX/RDM)
	243 lm (48 in 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)

Physical

Housing Material	Low copper content extruded aluminum
Lens Material	Tempered glass lens combined with extruded acrylic UV and impact resistant opal diffuser
Hardware Material	Stainless steel
End Cap Material	Aluminum, Acrylic (CEC option only)
Gasket Material	Silicone
Surface Finish	Electrostatically applied polyester powder coat
Weight	12 in: 3.7 lbs, 24 in: 5.6 lbs, 36 in: 8.8 lbs, 48 in: 10.8 lbs

Electrical and Control

Maximum Cable and Fixture Run Length	Up to 170 ft (DMX/RDM, 240-277V, RGB version), Up to 128 ft (DMX/RDM, 120-277V, RGBW30K and RGBW40K versions)
Fixture Cable	Power and data in one cable, End-to-end standard configuration: 16 in black input cable (no jumper cable needed)
Leader Cable Conductor	5C #16-5
Fixture Cable and Connector Color	Black cable (black connector) or white cable (black connector) for leader and jumper cables
Control	Lumentalk, DMX/RDM Enabled, 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
RGB Color Mixing	18 LEDs per 12 in (tri-color LEDs)
RGBW30K Color Mixing	36 LEDs per 12 in (18x tri-color LEDs, 18x 3000K LEDs)
RGBW40K Color Mixing	36 LEDs per 12 in (18x tri-color LEDs, 18x 4000K LEDs)
RGBA Color Mixing	36 LEDs per 12 in (18x tri-color LEDs, 18x amber LEDs)
Environmental	
Storage Temperature	-40 °F to 122 °F (device must reach start-up temperature value before operating)
Start-up Temperature	-13 °F to 122 °F
Operating Temperature	-13 °F to 122 °F
Environment	Dry/damp/wet location
Ingress Protection Rating	IP66 Wet location rated

Impact Resistance Rating	IK10
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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	Lumenscene™ (LSC), Pharos® Designer Lighting Control Kit (PHAROS), Pharos® Expert Control Kit (EXPERT)
Diagnostic and Addressing Tools	LumenID (LID)

Operation and Maintenance

Lumencycle™ Program	Lumencycle-enabled fixtures are designed for serviceability and circular lifecycle management. Lumenpulse will provide factory refurbishment programs, allowing luminaires to be restored and redeployed rather than replaced.
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Important

Virtual Patent Marking Notice

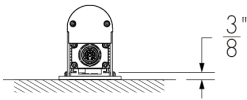
This website (<https://www.lmpg.com/patents-trademarks>) is provided to satisfy the virtual patent marking provisions of applicable jurisdictions. Some products listed may be covered by additional patents not referenced here.

Lumencycle™ Program

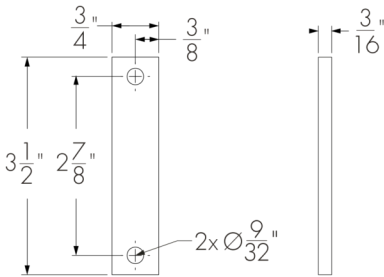
Lumencycle is a comprehensive program designed to maximize the life of Lumenpulse fixtures while preserving their performance, quality, and design intent. Built around three pillars—Repair, Restore, and Recycle—the program provides clear pathways to maintain existing installations, restore fixtures, and responsibly manage them at end of life. For full program details, visit <https://www.lumenpulse.com/lumencycle>.

Mounting Options

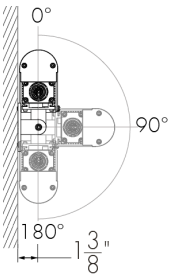
UMP - Fixed Mounting



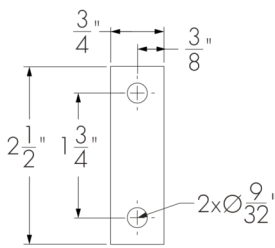
UMP - Mounting Hole Pattern



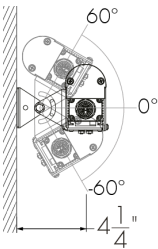
UMAS - Universal Adjustable Mounting



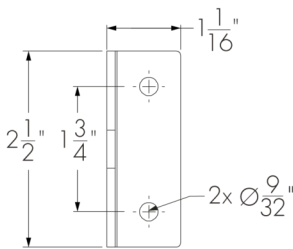
UMAS - Mounting Hole Pattern



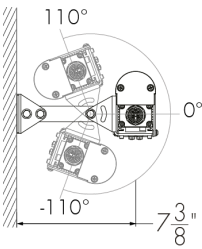
WAM2 - Adjustable Wall Mounting 2 in



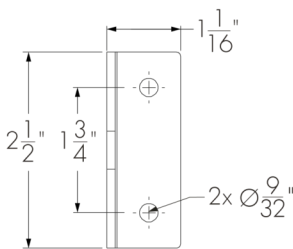
WAM2 - Mounting Hole Pattern



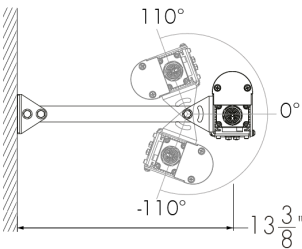
WAM6 - Adjustable Extended Arm Mounting 6 in



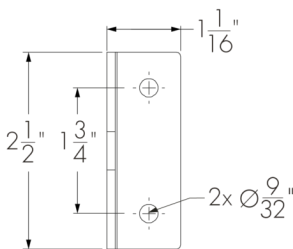
WAM6 - Mounting Hole Pattern



WAM12 - Adjustable Extended Arm Mounting 12 in

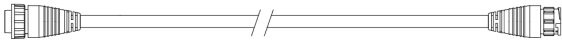


WAM12 - Mounting Hole Pattern



Cables (Order Separately)

LXTLC - Leader Cable For Lumencove XT



LXTLC-CERTIFICATION-CONTROL-LENGTH-CABLE COLOR

Please specify:

CERTIFICATION: UL or CE; **CONTROL:** NO/DIM or DMX/RDM; **LENGTH:** 10 ft, 25 ft, 50 ft, 100 ft, 150 ft or 200 ft; **CABLE COLOR:** 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 COLOR

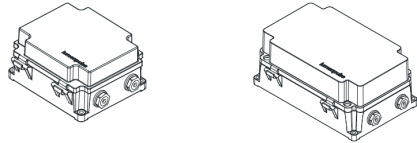
Please specify:

CERTIFICATION: UL or CE; **LENGTH:** 1 ft to 30 ft (available in 1 ft increments) or 50 ft; **CABLE COLOR:** 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.

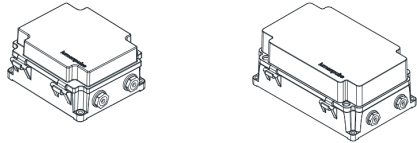
Control Boxes (Order Separately)

CBX-DMX/RDM - DMX/RDM Enabled (Daisy Chain or Star Configuration)



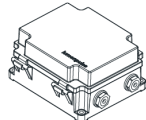
DMX/RDM control box. Up to six power and data outputs to fixtures or fixture runs. Consult CBX specification sheet and installation instructions for details. Lumeterminators provided with CBX (2x for Daisy Chain configuration, 6x for Star configuration), consult factory to order spares.

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.

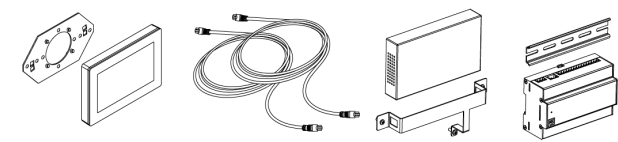
LDB - Lumentalk Data Bridge



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.

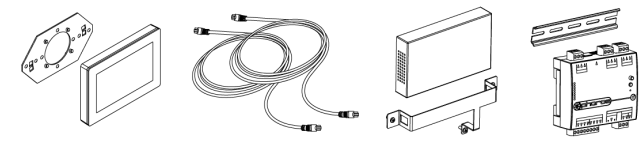
Control Systems (Order Separately)

PHAROS - Pharos® Designer Lighting Control Kit



The Pharos Designer Lighting Control Kit, available for 1 or 2 DMX universes, allows for complete control of large lighting installations.

EXPERT - Pharos® Expert Control Kit



The Pharos Expert Control Kit, available for 1, 2, 4 or 6 DMX universes, allows for complete control of large lighting installations.

Diagnostic And Addressing Tools (Order Separately)

LID - LumenID

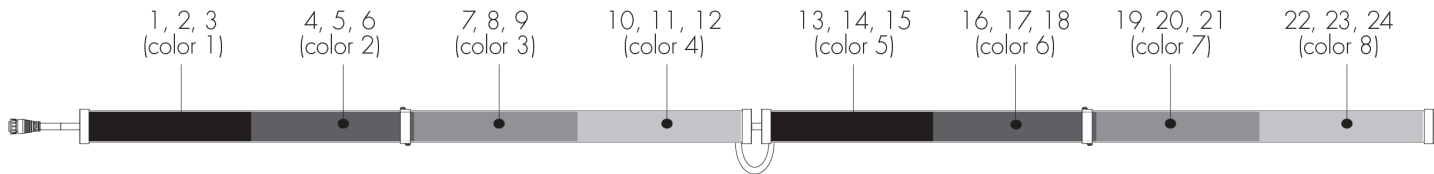


The updated LumenID (LID) is an all-in-one diagnostic and addressing solution for both DMX/RDM and Lumentalk (LT) systems. Engineered for versatility, it streamlines commissioning and troubleshooting across protocols—no need for multiple tools. Cable option may vary; please consult factory. For complete details, refer to the LID specification sheet.

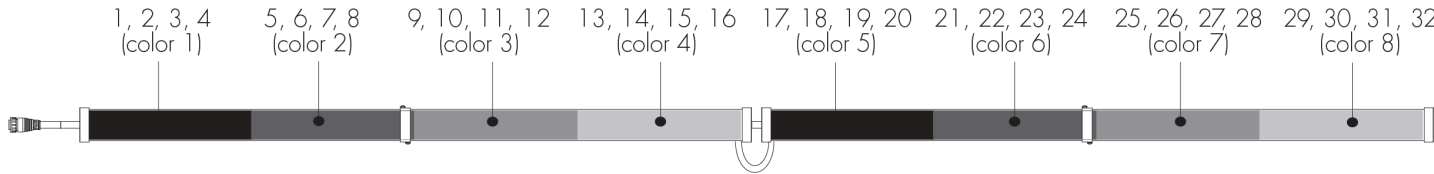
Resolution Details

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

DMX Addresses:



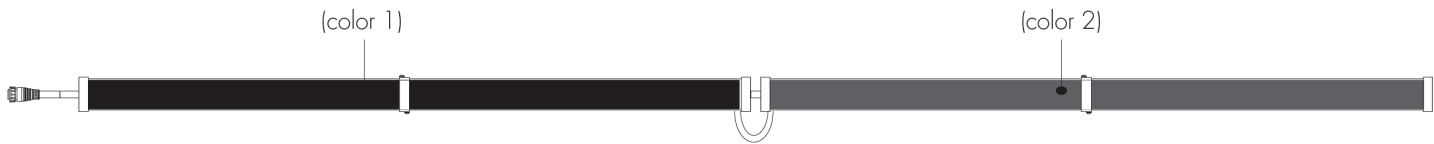
RGB color mixing option



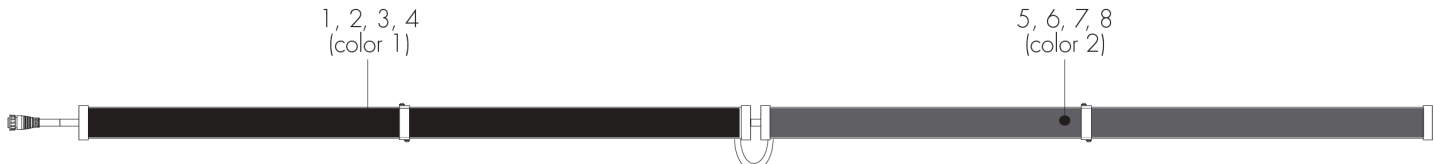
RGBW30K, RGBW40K and RGBA color mixing options

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

DMX Addresses:



RGB color mixing option



RGBW30K, RGBW40K and RGBA color mixing options

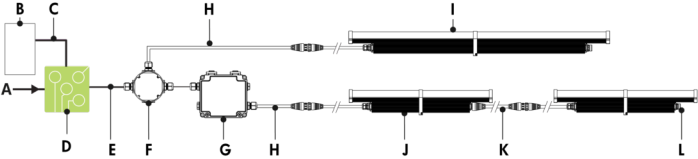
- 48 in fixtures shown.
- Applicable for DMX/RDM control option only. Fixture resolution can be configured on-site within the LumenID V3 software. A DMX/RDM enabled CBX is required.

Typical Wiring Diagrams

Wiring Color Code

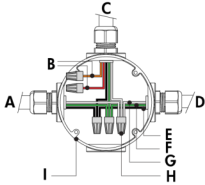
UL Color Code	USE
Green	Ground
Black	Line
White	Line/Neutral
Red or Purple	0-10V / Data +
Orange	0-10V / Data -

Lumentalk (LT)



- A - 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 (24 in, 36 in or 48 in fixture lengths)
- J - Lumencove XT Direct view (12 in)
- K - Jumper cable (LXTJC) (optional)
- L - Sealing end cap

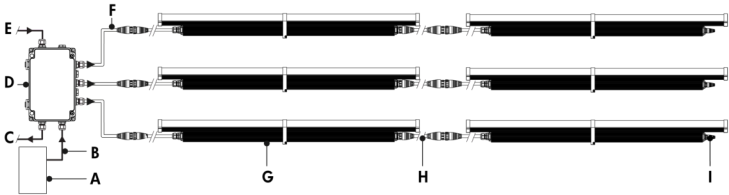
Lumentalk (LT) - Wiring Detail



- 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 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.- 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. 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 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.
- RGB version: 6 W/ft, RGBW30K, RGBW40K and RGBA versions : 5 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 (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 6W/ft

Voltage	120V	240V	277V
Maximum Run of Fixtures*	128ft		

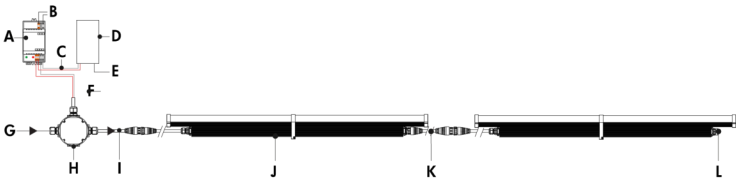
Maximum Run of Fixtures, Lumencove® XT RGBW30K, RGBW40K, RGBA 5W/ft

Voltage	120V	240V	277V
Maximum Run of Fixtures*	128ft		

Based on 8A maximum, 50ft leader cable.
*Example: 120V = 128ft maximum run of end to end fixtures (32 fixtures maximum for 4ft LXTD).

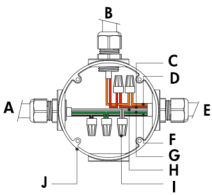
- Refer to CBX installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations. Maximum run length calculations are typically based on 48 in fixtures.
- Maximum of 32 DMX/RDM enabled fixtures per CBX output.
- 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 color mixture option requires 3 DMX addresses. RGBW30K and RGBW40K color mixture options require 4 DMX addresses. RGBA color mixture option requires 4 DMX addresses.
- RGB version: 6 W/ft, RGBW30K, RGBW40K and RGBA versions: 5 W/ft.

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 (100-277V, wiring by others)
- H - Junction box (by others)
- I - Leader cable (LXTLC)
- J - LumencoveXT Direct View(LXTD-DALIT8)
- K - Jumper cable (LXTJC) (optional)
- L - Sealing end cap

DALI 2 T8 (DALIT8) - Wiring Detail



- A - Power input
- B - From DALI controller
- C - DA +
- D - DA -
- E - To fixture
- F - Line
- G - Ground
- H - Neutral
- I - Wire-nuts (by others)
- J - Junction box (by others)

- This product must be installed in accordance with applicable national and local electrical and construction codes by a person familiar with the construction and operation of the product and the hazards involved.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Maximum of 64 DALI fixtures per DALI loop.
- 6 W/ft.
- The Lumencove responds to RGBWAF controls.
- Commissioning may be required based on the selection of 3rd party DALI controller. Controller and commissioning provided by others.

How to Order

Housing	Voltage	Length	Color and Color Temperature	Mounting Options	Finish	Control	Option	Buy American Act
LXTD Lumencove® XT Direct View	120 120 Volts	12 14 1/8 in. (3.7 lbs) ⁽¹⁾	RGB Additive RGB 6 W/ft	UMP Fixed Mounting ⁽²⁾	BK Black Sandtex®	LT Lumentalk ⁽¹⁾ ⁽⁶⁾ ⁽⁷⁾	CRC Corrosion-Resistant Coating ⁽¹⁰⁾ ⁽¹¹⁾	BAA Buy American ⁽¹³⁾ ⁽¹⁴⁾
	208 208 Volts	24 26 3/16 in. (5.6 lbs)	RGBW30K Additive RGB + 3000K, 5 W/ft	UMAS Universal Adjustable Mounting ⁽²⁾	BRZ Bronze Sandtex®	DMX/RDM DMX/RDM Enabled Dimming ⁽⁸⁾	3GV 3G ANSI C136.31-2010 Vibration Rating for Bridge Applications ⁽¹²⁾	
	220 220 Volts	36 38 1/4 in. (8.8 lbs)	RGBW40K Additive RGB + 4000K, 5 W/ft	WAM2 Adjustable Wall Mounting 2 in	SI Silver Sandtex®	DALIT8 DALI 2 T8 Enabled Dimming 0.1% ⁽⁹⁾	CE CE (European certification)	
	240 240 Volts	48 50 5/16 in. (10.8 lbs)	RGBA Additive RGB + amber 5 W/ft	WAM6 Adjustable Extended Arm Mounting 6 in	WH Smooth White		CEC Clear end caps	
	277 277 Volts			WAM12 Adjustable Extended Arm Mounting 12 in	CC Custom Color & Finish ⁽³⁾ ⁽⁴⁾ ⁽⁵⁾			

Notes:

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. Suitable to use when 3GV option is specified.

3. 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.

4. Setup charges apply for RAL colors. Consult factory for details.

5. Longer lead times can be expected for custom RAL color finishes.

6. Available for 24 in, 36 in and 48 in fixture lengths only.
7. A Lumentranslator 2 (LTL2) and LumenID (LID) 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. DALI 2 T8 controller required, provided by others. DALI 2 T8 control uses a single DALI short address.

10. Use only when exposed to salt spray. This option is not required for normal outdoor exposure.

11. Setup charges apply. Consult factory for details.

12. Available with UMP and UMAS mounting options only.

13. Not available with CE certification option.

14. Contact your Lumenpulse Sales Representative for more information on order volume details.