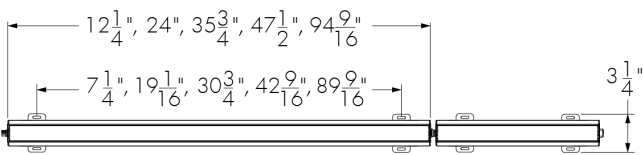


Project Name _____

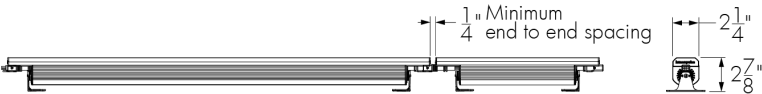
Qty _____

Type _____

Catalog / Part Number _____



Top view



Front and side views

Photometric Summary

1ft fixture [305 mm]		
	Delivered output (lm)	Power (W)
RGB RO	189	6
RGB HO	293	9
RGBW30K	213	5
RGBW40K	217	5
RGBA	155	5
2ft fixture [610 mm]		
RGB RO	378	12
RGB HO	585	18
RGBW30K	425	10
RGBW40K	434	10
RGBA	311	10
3ft fixture [914 mm]		
RGB RO	566	18
RGB HO	878	27
RGBW30K	638	15
RGBW40K	651	15
RGBA	466	15
4ft fixture [1219 mm]		
RGB RO	755	24
RGB HO	1,171	36
RGBW30K	850	20
RGBW40K	868	20
RGBA	622	20
8ft fixture [2438mm]		
RGB RO	1,510	48
RGB HO	2,341	72
RGBW30K	1,701	40
RGBW40K	1,735	40
RGBA	1,243	40

Based on full output, DMX/RDM configuration, clear lens.
Frosted lens option ratio = x 0.85.
Photometric performance is measured in compliance with
IESNA LM-79-08.

Description

The Lumencove 2.0 Colour Changing is a modular and adjustable system for even cove illumination in colour. The system is available in 12 in, 24 in, 36 in, 48 in and 96 in sections enabling both curved and linear layouts. The longer 96 in sections help decrease installation costs by reducing the number of connections. Additional options include RGB, RGBW, or RGBA colour mixing for a more nuanced colour palette, dimming control via DMX/RDM, as well as Legacy or Custom output modes.

Features

Color and Color Temperature	Additive RGB Regular Output Additive RGB High Output Additive RGB + 3000K Additive RGB + 4000K Additive RGB + amber
Length (Nominal)	12 in, 24 in, 36 in, 48 in, 96 in
Optics	110° x 110°
Power Consumption	5 W/ft RGBW30K, RGBW40K and RGBA versions, 6 W/ft RO RGB version, 9 W/ft HO RGB version
Adjustability	+/- 90° tilt angle
Warranty	5-year limited warranty

Optics



110° x
110°

Color and Color Temperature



Additive
RGB
Regular
Output,
6 W/ft



Additive
RGB High
Output,
9 W/ft



Additive
RGB +
3000K,
5 W/ft



Additive
RGB +
4000K,
5 W/ft



Additive
RGB +
amber

Control

lumen talk

DMX/RDM

DALI
T8

Rating

IP20

Certifications



Performance

Delivered Output

755 lm (48 in fixture, RGB RO full output, clear lens, DMX/RDM)
1171 lm (48 in fixture, RGB HO full output, clear lens, DMX/RDM)
850 lm (48 in fixture, RGBW30K full output, clear lens, DMX/RDM)
868 lm (48 in fixture, RGBW40K full output, clear lens, DMX/RDM)
622 lm (48 in fixture, RGBA full output, clear lens, 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

Extruded polycarbonate, clear or frosted

Finish

White

Surface Finish

Electrostatically applied polyester powder coat

Weight

12 in: 1.25 lbs, 24 in: 2.5 lbs, 36 in: 3.75 lbs, 48 in: 5 lbs, 96 in: 10 lbs

Electrical and Control

Voltage

120-277V

Fixture Cable

Power and data in one cable

Leader Cable Conductor

5C #16-5

Connector Type

Thumb latch connectors, breakable under load

Fixture Cable and Connector Color

White

Maximum Cable and Fixture Run Length

Up to 170 ft (DMX/RDM, 240-277V, RGB RO version), Up to 128 ft (DMX/RDM, 120-277V, RGBW30K and RGBW40K versions)

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 RGB RO), 24 LEDs per 12 in (tri-color LEDs RGB HO)

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

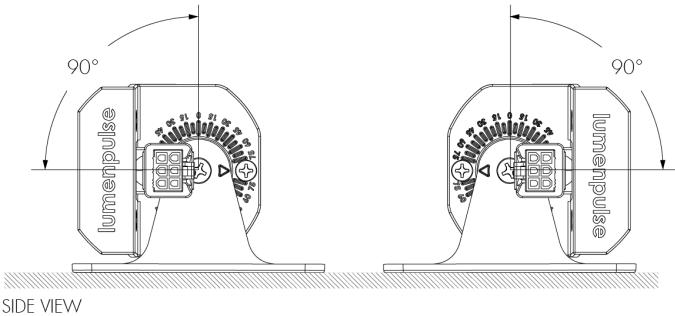
Environment	Indoor applications only
Ingress Protection Rating	IP20
Accessories (Order Separately)	
Cables	Leader Cable, Jumper Cable
Control Boxes	DMX/RDM enabled (Daisy Chain or Star Configuration), Ethernet enabled (Daisy Chain or Star Configuration), Lumentalk Data Bridge
Control Systems	Lumentone™ 2 (LTN2), Pharos® Designer Lighting Control Kit (PHAROS)
Diagnostic and Addressing Tools	LumenID (LID), LumentalkID (LIDLT)

Important

Virtual Patent Marking Notice

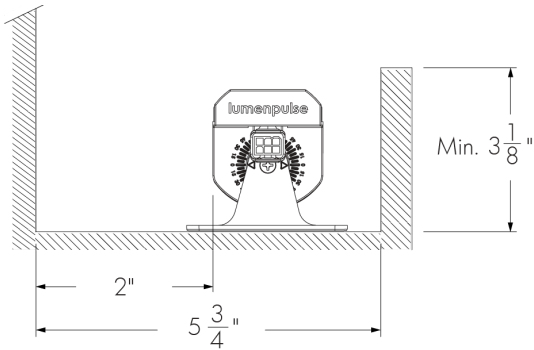
This website (<https://www.lmpg.com/patents-trademarks>) is provided to satisfy the virtual patent marking provisions of applicable jurisdictions. Some products listed may be covered by additional patents not referenced here.

Maximum Pivot Limits



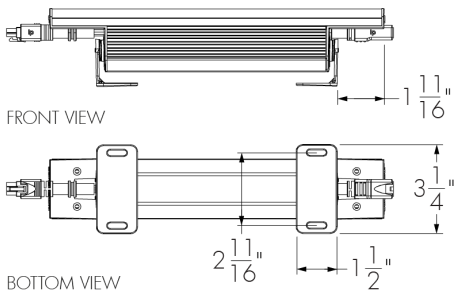
Mounting Details

Suggested Cove Dimensions



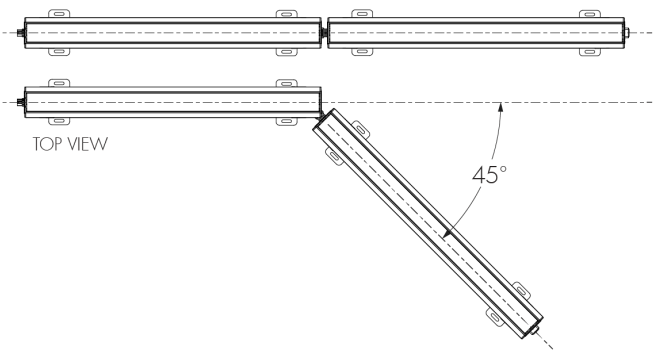
Minimum cove height depends on sight line.

Mounting Bracket Dimensions



12 in fixture shown.

Maximum Angle Adjustment



A jumper cable is required for angles greater than 45°.

Cables (Order Separately)

LCS2LC - Leader Cable For Lumencove 2.0



LCS2LC-CERTIFICATION-CONTROL-LENGTH-WH

Please specify:

CERTIFICATION: UL or CE; **CONTROL:** NO, DATA or DMX/RDM; **LENGTH:** 10 ft or 25 ft.

- For NO and LT fixture control options: specify the NO control option for the leader cable.
- For DIM, DIM/DTW, DALI and ES fixture control options: specify the DATA control option for the 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 2.0 leader cable specification sheet for details.

LCS2JC - Jumper Cable For Lumencove 2.0



LCS2JC-CERTIFICATION-CONTROL-LENGTH-WH

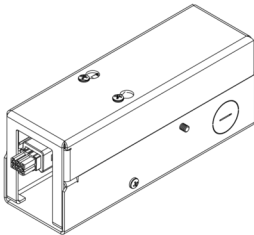
Please specify:

CERTIFICATION: UL or CE; **CONTROL:** NO or DATA; **LENGTH:** 2 ft or 4 ft.

- For NO and LT fixture control options: specify the NO control option for the jumper cable.
- For DIM, DIM/DTW, DALI, ES, DMX/RDM and DMX/RDM1 fixture control options: specify the DATA control option for the jumper cable.
- Consult Lumencove 2.0 jumper cable specification sheet for details.

Wiring Compartment (Order Separately)

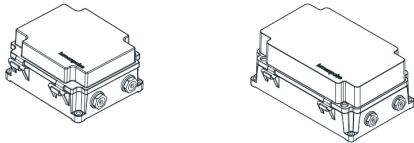
WC-120/277-LCS2-WH - Wiring Compartment



The Wiring Compartment is pre-wired with a leader cable, allowing the quick connection of conduits. Consult WC specification sheet for details.

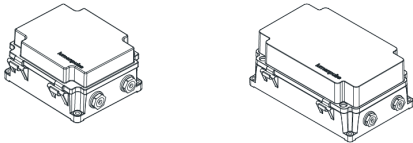
Control Boxes (Order Separately)

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



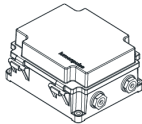
DMX/RDM control box. Up to six power and data outputs to fixtures or fixture runs. Consult CBX specification sheet and installation instructions for details. Lumenterminators provided with CBX (2x for Daisy Chain configuration, 6x for Star configuration), consult factory to order spares.

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.

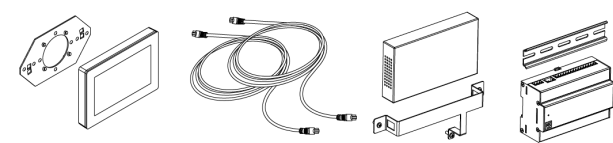
LDB - Lumentalk Data Bridge



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)

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.

Diagnostic And Addressing Tools (Order Separately)

LID - LumenID

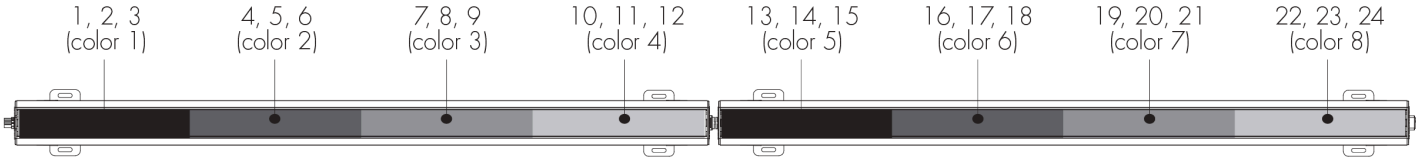


LumenID is a diagnostic and addressing DMX/RDM tool. It must be specified on all DMX applications. Consult LID specification sheet for details.

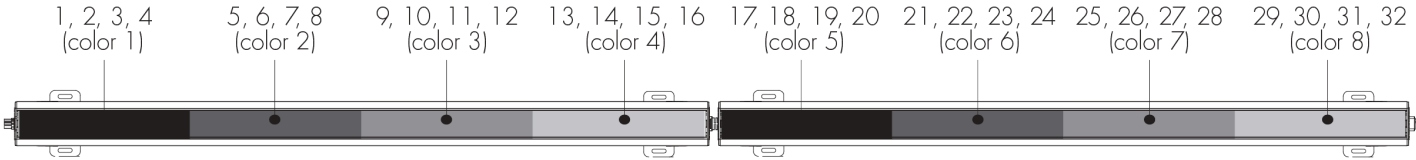
Resolution Details

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

DMX Addresses:



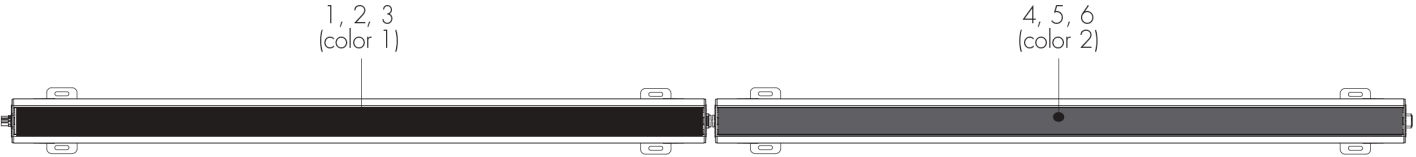
RGB color mixing option



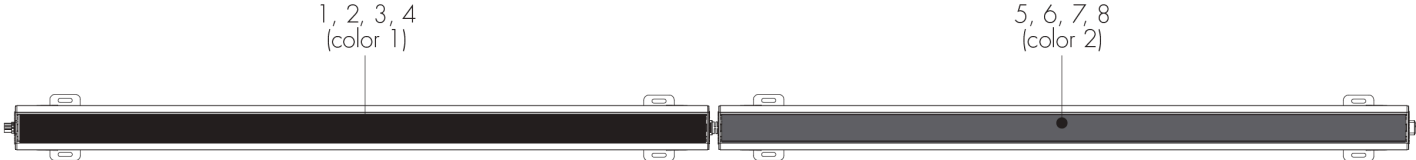
RGBW30K, RGBW40K and RGBA color mixing options

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

DMX Addresses:



RGB color mixing option



RGBW30K, RGBW40K and RGBA color mixing options

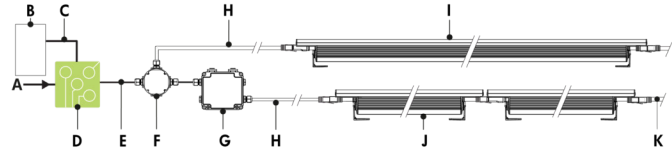
- 48 in fixtures shown.
- Applicable for DMX/RDM control option only. Fixture resolution can be configured on-site within the LumenID V3 software. A DMX/RDM enabled CBX is required.

Typical Wiring Diagrams

Wiring Color Code

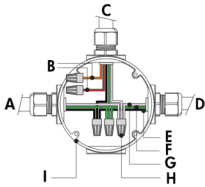
UL Color Code	USE
Green	Ground
Black	Line
White	Line/Neutral
Red or Purple	0-10V / Data +
Orange	0-10V / Data -

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 (LCS2LC)
- I** - Lumencove 2.0 (24 in, 36 in, 48 in or 96 in fixture lengths)
- J** - Lumencove 2.0 (12 in)
- K** - Jumper cable (LCS2JC) (optional)

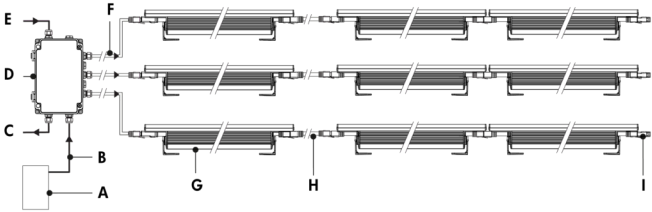
Lumentalk (LT) - Wiring Detail



- 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)

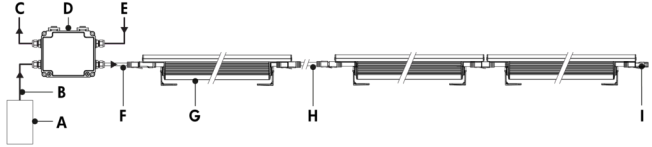
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Lumentalk Data Bridge required for 12 in fixture lengths, see LDB installation instructions for details. Fixtures must be specified as DMX/RDM and the Lumentalk Data Bridge must be specified as DMX. 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.
- Regular Output RGB version: 6 W/ft, High Output RGB version : 9 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 (LCS2LC)
- G - Lumencove 2.0
- H - Jumper cable (LCS2JC) (optional)
- I - DMX Terminator (last fixture in DMX/RDM run only)

Daisy Chain Layout (DMX/RDM)



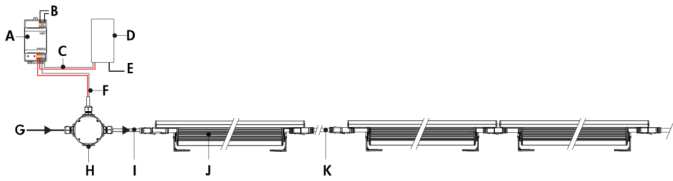
- A - DMX/RDM controller (order separately from Lumenpulse, or by others)
- B - Data input (Belden 9841 or equivalent, by others)
- C - Data output to next CBX (optional, not isolated/not boosted)
- D - CBX-DS
- E - Power input (120-277V, wiring by others)
- F - Leader cable (LCS2LC)
- G - Lumencove 2.0
- H - Jumper cable (LCS2JC) (optional)
- I - DMX Terminator (last fixture in DMX/RDM run only)

Maximum Run of Fixtures, Lumencove® 2.0 RGB RO 6W/ft			
Voltage	120V	240V	277V
Maximum Run of Fixtures*	128ft		
Maximum Run of Fixtures, Lumencove® 2.0 RGB HO 9W/ft			
Voltage	120V	240V	277V
Maximum Run of Fixtures*	91ft	128ft	
Maximum Run of Fixtures, Lumencove® 2.0 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 LCS2 RO).

- 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.
- Regular Output RGB version: 6 W/ft, High Output RGB version: 9 W/ft, RGBW30K, RGBW40K and RGBA versions: 5 W/ft.

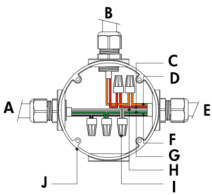
DALI 2 T8 (DALIT8)



- A - DALI bus power supply
- B - Power input for DALI bus power supply (wiring by others)
- C - Data output to DALI controller (by others)
- D - DALI controller (by others)
- E - Power input for controller (if required, wiring by others)
- F - Data output to fixture
- G - Power input (100-277V)
- H - Junction box (by others)
- I - Leader cable (LCS2LC)
- J - Lumencove 2.0 (LCS2-DALI)
- K - Jumper cable (LCS2JC) (optional)
- L - Sealing end cap

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Maximum of 64 DALI fixtures per DALI loop.
- Regular Output RGB version: 6 W/ft, High Output RGB version: 9 W/ft, RGBW and RGBA versions: 5 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.

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)

How to Order

Housing	Voltage	Length	Color and Color Temperature	Lens	Finish	Control
LCS2 Lumencove® 2.0 ⁽¹⁾	120 Volts	12 12 1/4 in (1.25 lbs) ⁽²⁾	RGB RO Additive RGB Regular Output, 6 W/ft	FR Frosted Lens	WH Smooth White	LT Lumentalk ⁽²⁾ ⁽⁶⁾
	220 Volts	24 24 in (2.5 lbs)	RGB HO Additive RGB High Output, 9 W/ft	CL Clear Lens	CC Custom Color & Finish ⁽³⁾ ⁽⁴⁾ ⁽⁵⁾	DMX/RDM DMX/RDM Enabled Dimming ⁽⁷⁾
	208 Volts	36 35 3/4 in (3.75 lbs)	RGBW30K Additive RGB + 3000K, 5 W/ft			DALIT8 DALI 2 T8 Enabled Dimming 0.1% ⁽⁸⁾
	240 Volts	48 47 1/2 in (5 lbs)	RGBW40K Additive RGB + 4000K, 5 W/ft			
	277 Volts	96 94 9/16 in (10 lbs)	RGBA Additive RGB + amber 5 W/ft			

Notes:

1. Consult factory for products that are BAA-approved (Buy American Act).

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.

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. A Lumentranslator 2 (LTL2) and LumenID (LID) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.

7. A control box (CBX) and LumenID (LID) must be specified.

8. DALI 2 T8 controller required, provided by others. DALI 2 T8 control uses a single DALI short address.