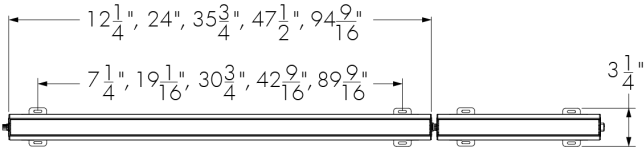


Project Name

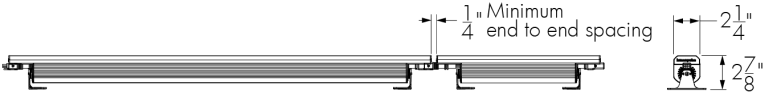
Qty

Type

Catalog / Part Number



Top view



Front and side views

Photometric Summary

RO - Regular output ^[3]	Delivered output (lm)	Power [W]
DMX/RDM 3-channel control (DMX/RDM)		
DWW (CCT @2,600) ^[4]	1023	20.8
DWH (CCT @4,000) ^[4]	1107	20.8
Dim to Warm via DMX/RDM Single channel control (DMX/RDM1)		
DWW (CCT @2,700) ^[4]	921	20.8
Dim to Warm via 0-10V (DIM/DTW)		
DWW (CCT @2,700) ^[4]	921	20.8

HO - High output ^[3]	Delivered output (lm)	Power [W]
DMX/RDM 3-channel control (DMX/RDM)		
DWW (CCT @2,600) ^[4]	2643	44
DWH (CCT @4,000) ^[4]	2855	44
Dim to Warm via DMX/RDM Single channel control (DMX/RDM1)		
DWW (CCT @2,700) ^[4]	2379	44
Dim to Warm via 0-10V (DIM/DTW)		
DWW (CCT @2,700) ^[4]	2379	44

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

[1] Use 0.25 multiplier for each 1.2in [305mm] section.

[2] Frosted lens option ratio = x0.85.

[3] Estimated. Consult website for the latest photometric files.

[4] Tested at full output.

Optics



110° x
110°

Description

The Lumencove 2.0 Dynamic White is a modular system for applying variable white light to interior coves and domed ceilings, giving users the special ability to tune the ambience of a space. The Dynamic White version of the system allows smooth variations across color temperature, from 2700K to 6500K; while Dynamic Warm, an ideal option for hospitality applications, enables tuning on the warmer end of the spectrum, from 2200K to 3000K. The system is available in 12 in, 24 in, 36 in, 48 in and 96 in sections for both curved and linear layouts. The longer 96 in sections help decrease installation costs by reducing the number of connections.

Features

Color and Color Temperature	Dynamic White (2700K to 6500K), Dynamic Warm White (2200K to 3000K)
Length (Nominal)	12 in, 24 in, 36 in, 48 in, 96 in
Optics	110° x 110°
Power Consumption	5 W/ft (RO version), 12 W/ft (HO version)
Warranty	5-year limited warranty
Adjustability	+/- 90° tilt angle

Performance

Maximum Delivered Output	2855 lm (HO DMX/RDM DWH full output, 48 in fixture)
Lumen Maintenance	L70 80,000 hrs (Ta 25 °C)
	L95 11,000 hrs (Ta 25 °C)
	L70 60,000 hrs (Ta 40 °C)
	L95 8,800 hrs (Ta 40 °C)

Physical

Housing Material	Low copper content extruded aluminum
Lens Material	Extruded polycarbonate, clear or frosted

Color and Color Temperature

D_{WW}

Dynamic Warm White
(2200K to 3000K)

D_{WH}

Dynamic White
(2700K to 6500K)

Control

lumen talk

DIM/DTW

DMX/RDM1

DMX/RDM

DALI
T8

Rating

IP20

Certifications

UL

US

CE

✓

RoHS

5

YEARS

lumenpulse

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 350 ft (DIM/DTW, DMX/RDM1, 277V, RO version), Up to 170 ft (DMX/RDM, 277V, RO version)
Control	Lumentalk, Dim to Warm via 0-10V (2700K to 2200K), Dim to Warm via Single-Channel DMX/RDM (2700K to 2200K), 3-Channel Color Temperature Control via DMX/RDM, 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
Dynamic Warm Color Temperature Mixing	21 LEDs per 12 in RO version (7x 2200K, 7x 2700K, 7x 3000K), 42 LEDs per 12 in HO version (14x 2200K, 14x 2700K, 14x 3000K)
Dynamic White Color Temperature Mixing	21 LEDs per 12 in RO version (7x 2700K, 7x 4000K, 7x 6500K), 42 LEDs per 12 in HO version (14x 2700K, 14x 4000K, 14x 6500K)

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	Lumetone™ 2 (LTN2), Pharos® Designer Lighting Control Kit (PHAROS)
Diagnostic and Addressing Tools	LumenID (LID), LumentalkID (LIDLT)

Important

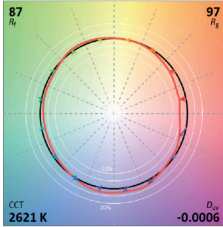
Virtual Patent Marking Notice

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.

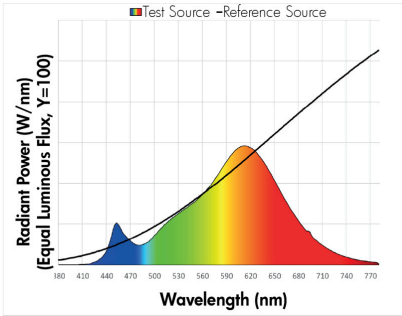
Chromaticity Data

TM-30 - DWW

CCT	CIE		TM-30	
DWW	R _a	86	87	R _f
Full Output	R _g	26	97	R _g

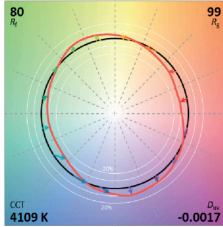


DWW Spectral Power Distribution

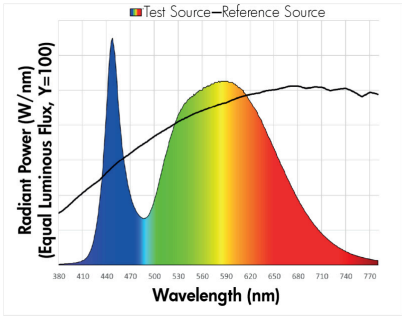


TM-30 - DWH

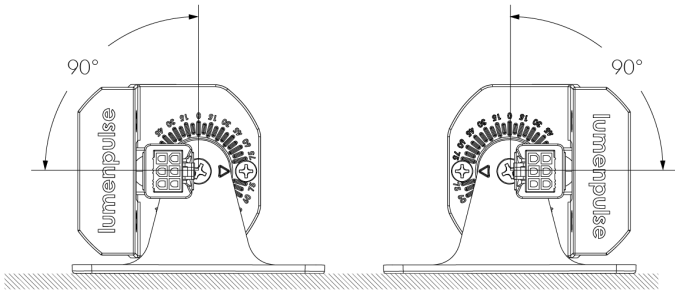
CCT	CIE		TM-30	
DWH	R _a	81	80	R _f
Full Output	R _g	22	99	R _g



DWH Spectral Power Distribution



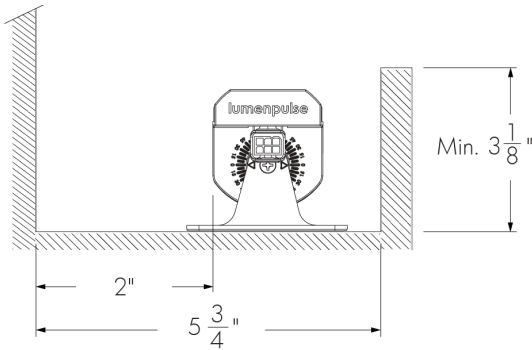
Maximum Pivot Limits



SIDE VIEW

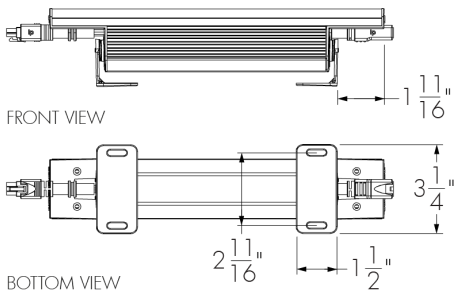
Mounting Details

Suggested Cove Dimensions



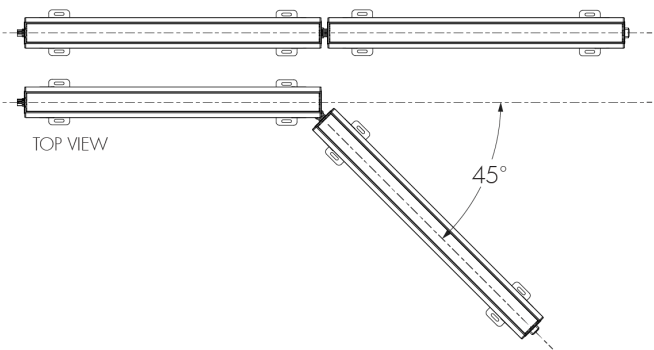
Minimum cove height depends on sight line.

Mounting Bracket Dimensions



12 in fixture shown.

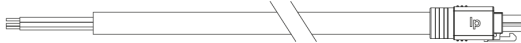
Maximum Angle Adjustment



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

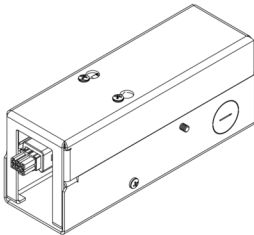
Please specify:

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)

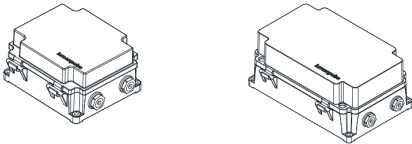
WC-120/277-LCS2-WH - Wiring Compartment



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

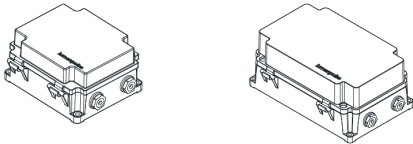
Control Boxes (Order Separately)

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



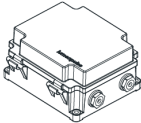
DMX/RDM control box. Up to six power and data outputs to fixtures or fixture runs. Consult CBX specification sheet and installation instructions for details. Lumenterminators provided with CBX (2x for Daisy Chain configuration, 6x for Star configuration), consult factory to order spares.

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

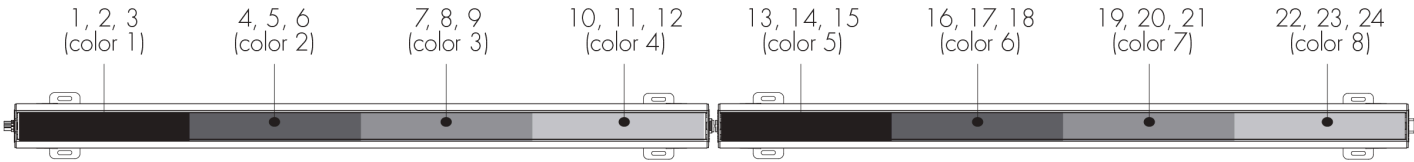


LumenID is a diagnostic and addressing DMX/RDM tool. It must be specified on all DMX applications. Consult LID specification sheet for details.

Resolution Details

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

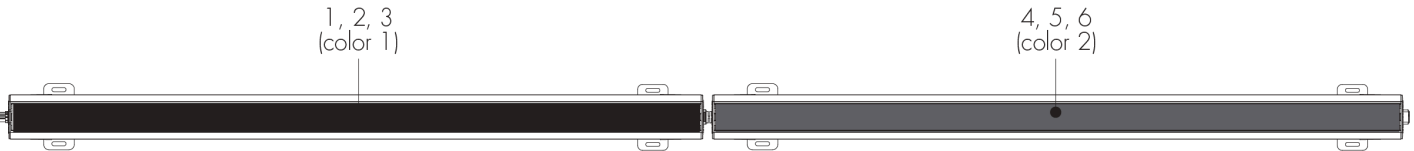
DMX Addresses:



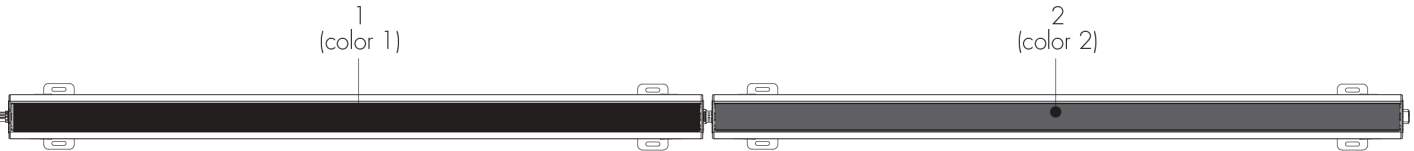
DMX/RDM control option (DWH and DWW)

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

DMX Addresses:



DMX/RDM control option (DWH and DWW)



DMX/RDM1 control option (DWW)

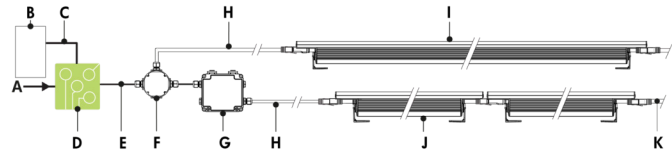
- 48 in fixtures shown.
- Applicable for DMX/RDM control option only. Fixture resolution can be configured on-site within the LumenID V3 software. A DMX/RDM enabled CBX is required.

Typical Wiring Diagrams

Wiring Color Code

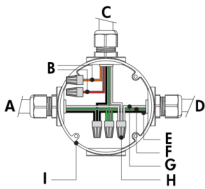
UL Color Code	USE
Green	Ground
Black	Line
White	Line/Neutral
Red or Purple	0-10V / Data +
Orange	0-10V / Data -

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)

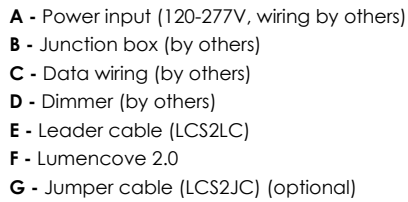
Lumentalk (LT) - Wiring Detail



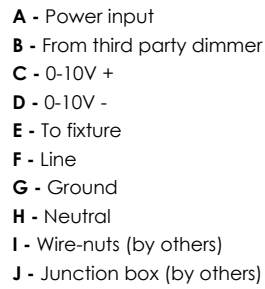
- A - Power input (control over power line via Lumentalk system)
- B - Not required
- C - To fixture
- D - To Lumentalk Data Bridge (for run lengths with 12 in fixtures)
- E - Line
- F - Ground
- G - Line/Neutral
- H - Wire-nuts (by others)
- I - Junction box (by others)

- 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 version : 5 W/ft, High Output version : 12 W/ft.

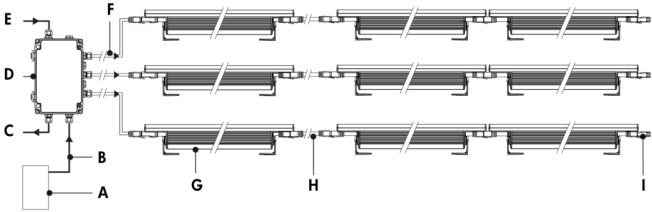
***Available For DWW Version Only, 2700K to 2200K**



- ### Dim to Warm Via 0-10V (DIM/DTW) - Wiring Detail

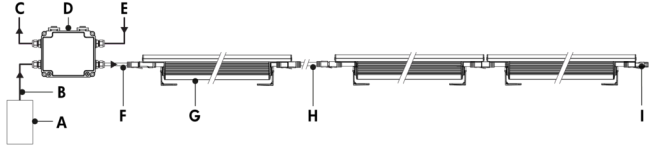


Star Layout (DMX/RDM)



- 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 Dynamic White RO 5W/ft

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

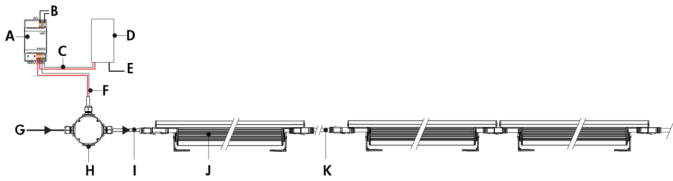
Maximum Run of Fixtures, Lumencove® 2.0 Dynamic White HO 12W/ft

Voltage	120V	240V	277V
Maximum Run of Fixtures*	71ft	128ft	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.
- DMX/RDM1 control option requires 1 DMX address. DMX/RDM control option requires 3 DMX addresses.
- Regular Output version: 5 W/ft, High Output version : 12 W/ft.

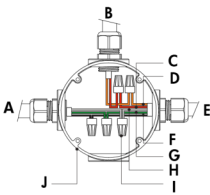
DALI 2 T8 (DALIT8)



- 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 version : 5 W/ft, High Output version : 12 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 RO Lumencove® 2.0 Regular Output 5 W/ft ⁽¹⁾	120 120 Volts	12 12 1/4 in (1.25 lbs) ⁽²⁾	DWW Dynamic Warm White (2200K to 3000K)	CL Clear Lens FR Frosted Lens	WH Smooth White	LT Lumentalk ⁽²⁾ ⁽⁶⁾ DIM/DTW Dim to Warm via 0-10V (2700K to 2200K) DMX/RDM1 Dim to Warm via Single- Channel DMX/RDM (2700K to 2200K) ⁽⁷⁾ ⁽⁸⁾ DMX/RDM 3-Channel Color Temperature Control via DMX/RDM ⁽⁸⁾ DALIT8 DALI 2 T8 Enabled Dimming 0.1% ⁽⁹⁾
	208 208 Volts	24 24 in (2.5 lbs)			CC Custom Color & Finish ⁽³⁾ ⁽⁴⁾ ⁽⁵⁾	
LCS2 HO Lumencove® 2.0 High Output 12 W/ft ⁽¹⁾	220 220 Volts	36 35 3/4 in (3.75 lbs)	DWH Dynamic White (2700K to 6500K)			
	240 240 Volts	48 47 1/2 in (5 lbs)				
	277 277 Volts	96 94 9/16 in (10 lbs)				

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 (LD8-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. Available for DWW color temperature option only.

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.