Project Name _____   **Qty** _____

Type _____   **Catalog / Part Number** _____

12$\frac{1}{4}$", 24", 35$\frac{3}{4}$", 47$\frac{1}{2}$", 94$\frac{9}{16}$"

7$\frac{1}{4}$", 19$\frac{1}{16}$", 30$\frac{3}{4}$", 42$\frac{9}{16}$", 89$\frac{9}{16}$"

3$\frac{1}{4}$"

Top view

1$\frac{1}{4}$" Minimum end to end spacing

2$\frac{1}{4}$"

2$\frac{7}{8}$"
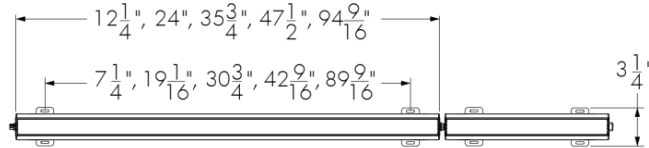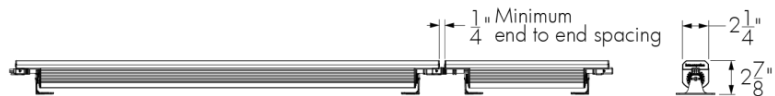
Front and side views

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]

	Delivered output (lm)	Power (W)
RGB RO	378	12
RGB HO	585	18
RGBW30K	425	10
RGBW40K	434	10
RGBA	311	10

3ft fixture [914 mm]

	Delivered output (lm)	Power (W)
RGB RO	566	18
RGB HO	878	27
RGBW30K	638	15
RGBW40K	651	15
RGBA	466	15

4ft fixture [1219 mm]

	Delivered output (lm)	Power (W)
RGB RO	755	24
RGB HO	1,171	36
RGBW30K	850	20
RGBW40K	868	20
RGBA	622	20

8ft fixture [2438mm]

	Delivered output (lm)	Power (W)
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

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

Optics

110° x 110°

Color and Color Temperature

R$_{GB}$ Red Green Blue	R$_{GB}$ Red Green Blue	R$_{GBW}$ 30K Red Green Blue White	R$_{GBW}$ 40K Red Green Blue White
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

R$_{GBA}$ Red Green Blue Amber

Additive RGB + amber

Control

lumentalk   DMX/RDM   DALI 2 T8

Rating

IP20

Certifications

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 control
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)

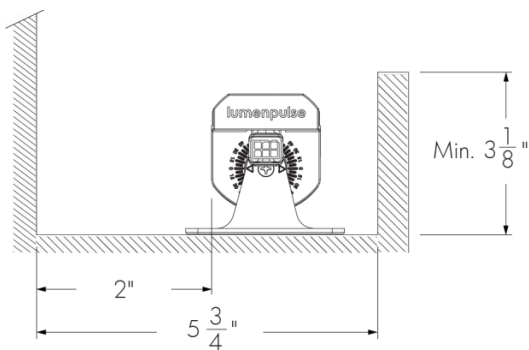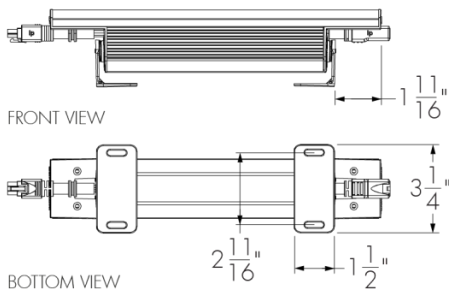| Cables	Leader Cable, Jumper Cable
Control Boxes	DMX/RDM enabled (daisy chain or star configuration), Ethernet enabled (daisy chain or star configuration), Lumentalk Data Bridge
Control Systems	Lumentone™ 2 (LTN2), Pharos® kit (PHAROS)
Diagnostic and Addressing Tools	LumenID (LID), LumentalkID (LIDLT)

Maximum pivot limits
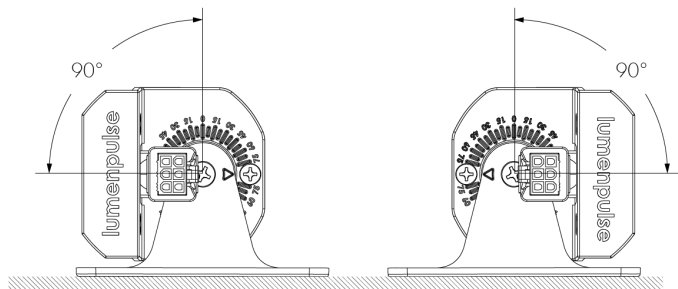
SIDE VIEW

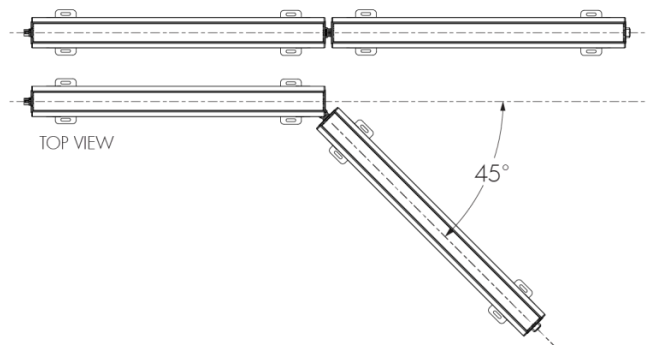## Mounting Details

Suggested cove dimensions

Minimum cove height depends on sight line.

Mounting bracket dimensions

FRONT VIEW

BOTTOM VIEW

12 in fixture shown.

Maximum angle adjustment

TOP VIEW

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

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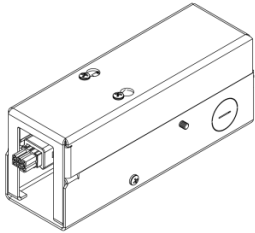
The Wiring Compartment is pre-wired with a leader cable, allowing the quick
connection of conduits. Consult WC specification sheet for details.

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Control Boxes (Order Separately)

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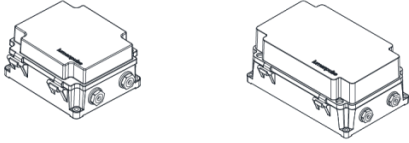
DMX/RDM control box. Up to six power and data outputs to fixtures or fixture runs. Consult CBX specification sheet and installation instructions for details. Lumenterminators provided with CBX (2x for daisy chain configuration, 6x for star configuration), consult factory to order spares.

CBX-ENET - Ethernet Enabled (Daisy Chain or Star Configuration)
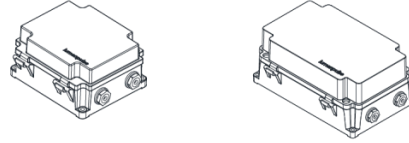
Ethernet control box. Up to four power and data outputs to fixture or fixture runs. Consult Ethernet CBX specification sheet and installation instructions for details.

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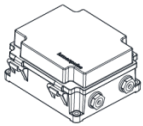
The Lumentalk Data Bridge is a digital interface that connects non-Lumentalk luminaires to the Lumentalk network, 0-10V or DMX output. Consult LDB specification sheet for details.

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.
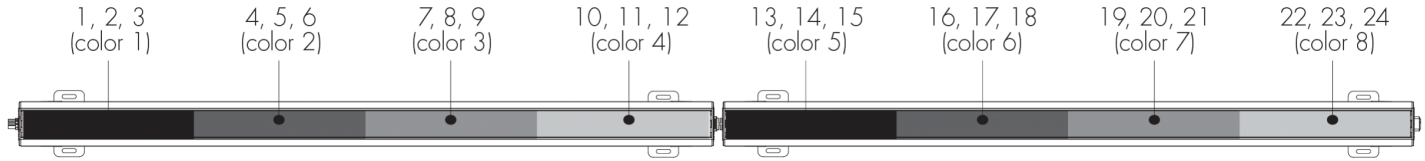
LID-LT - LumentalkID

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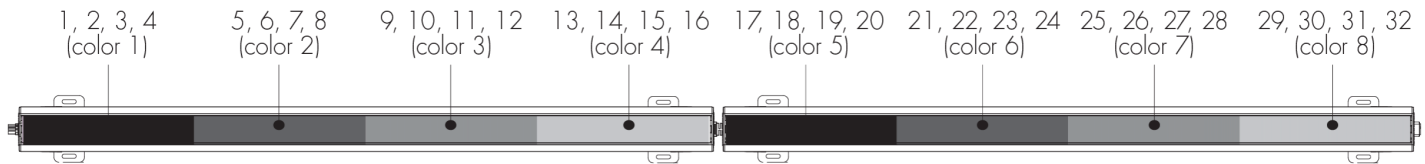
Resolution details

DMX/RDM control, resolution per foot: each 12 in 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 color 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)
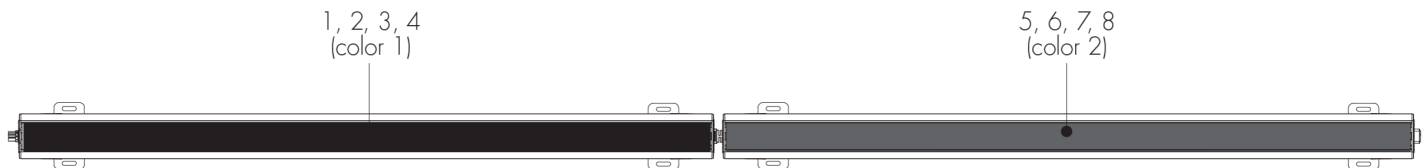
RGBW30K, RGBW40K and RGBA color mixing options

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

1, 2, 3 (color 1)　4, 5, 6 (color 2)

RGB color mixing option

1, 2, 3, 4 (color 1)　5, 6, 7, 8 (color 2)
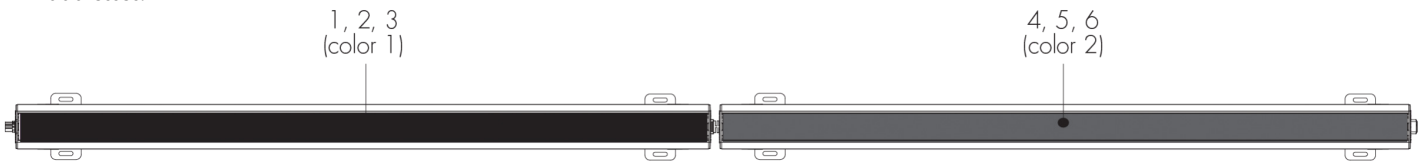
RGBW30K, RGBW40K and RGBA color mixing options

- 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.

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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)
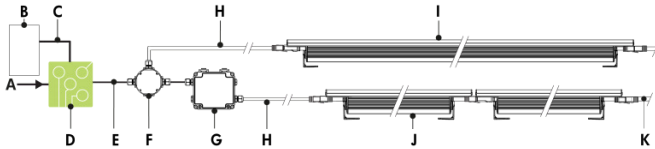
A - Power input (100-277V AC, wiring by others)
B - DMX/RDM controller (order separately from lumenpulse, or by others)
C - Data wiring (by others)
D - Lumentranslator 2 (LTL2-DMX)
E - Power wiring (by others)
F - Junction box (by others)
G - Lumentalk Data Bridge (LDB-DMX)
H - Leader cable (LCS2LC)
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
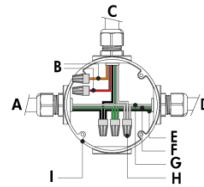
A - Power input (control over power line via Lumentalk system)
B - Not required
C - To fixture
D - To Lumentalk Data Bridge (for run lengths with 12 in fixtures)
E - Line
F - Ground
G - Line/Neutral
**H -** Wire-nuts (by others)
I - Junction box (by others)

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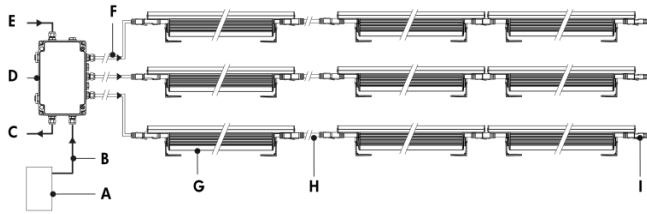
A - DMX/RDM controller (order separately from Lumenpulse, or by others)
B - Data input (Belden 9841 or equivalent, by others)
C - Data output to next CBX (optional, not isolated/not boosted)
D - CBX-ST
E - Power input (120-277V, wiring by others)
F - Leader cable (LCS2LC)
G - Lumencove 2.0
H - Jumper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

Daisy Chain Layout (DMX/RDM)
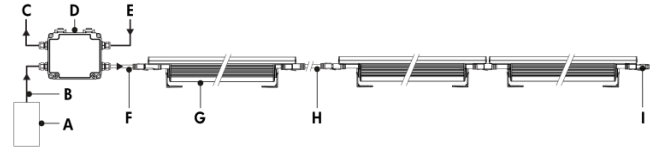
A - DMX/RDM controller (order separately from Lumenpulse, or by others)
B - Data input (Belden 9841 or equivalent, by others)
C - Data output to next CBX (optional, not isolated/not boosted)
D - CBX-DS
E - Power input (120-277V, wiring by others)
F - Leader cable (LCS2LC)
G - Lumencove 2.0
H - Jumper 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
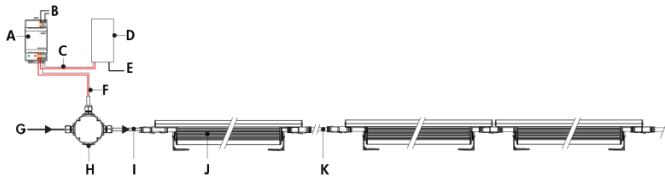
Voltage	120V	240V	277V
Maximum Run of Fixtures*		128ft	

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.

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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

DALI 2 T8 (DALIT8) - Wiring Detail
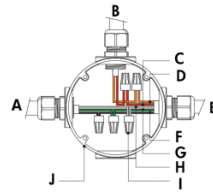
A - Power input
B - From DALI controller
C - DA +
D - DA -
E - To fixture
F - Line
G - Ground
H - Neutral
I - Wire-nuts (by others)
J - Junction box (by others)

- 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.

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How to Order

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

Notes:

1. Consult factory for products that are BAA-approved (Buy America.n 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 LumentalkID (LIDLT) 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. DALI2 T8 control uses a single DALI short address.

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