

Client \_\_\_\_\_ Project name \_\_\_\_\_

Order# \_\_\_\_\_ Type \_\_\_\_\_ Qty \_\_\_\_\_

## FEATURES AND BENEFITS

### Physical :

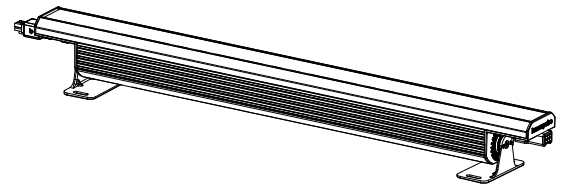
- Low copper content extruded aluminum housing
- Available in 1', 2', 3', 4' or 8' sections
- Electro-statically applied polyester powder coat finish
- Tool-less LED frame adjustable mechanism, +/- 90° tilt angle
- Low profile design
- White standard finish
- Extruded polycarbonate lens, clear or frosted
- Indoor applications, dry location only

### Performance :

- Binning within a 2 step MacAdam ellipse
- 2200K, 2700K, 3000K, 3500K, 4000K, Red, Green, Blue static colors available
- CRI value: 78+
- Available in Regular Output or High Output versions
- Lumen maintenance: 80,000 hrs [L70 @ 25°C]
- Lumen maintenance: 60,000 hrs [L70 @ 50°C]
- Lumen measurements comply with LM - 79 - 08 standard
- Resolution per foot or per fixture (configured with LumenID V3 software & DMX/RDM)
- Operating temperatures: -25° C to 50° C [-13F to 122F]

### Electrical :

- Line voltage luminaire for 100 to 277V (neutral connection required)
- Power and data in 1 cable (#16-5), white cable and connector standard, end-to-end standard configuration, no jumper cable needed
- Thumb latch connectors, breakable under load
- 5W/ft - RO version, 12W/ft - HO version
- Dimming options: Lumentalk, 0-10 volt, DALI, Lutron® EcoSystem® or DMX/RDM enabled

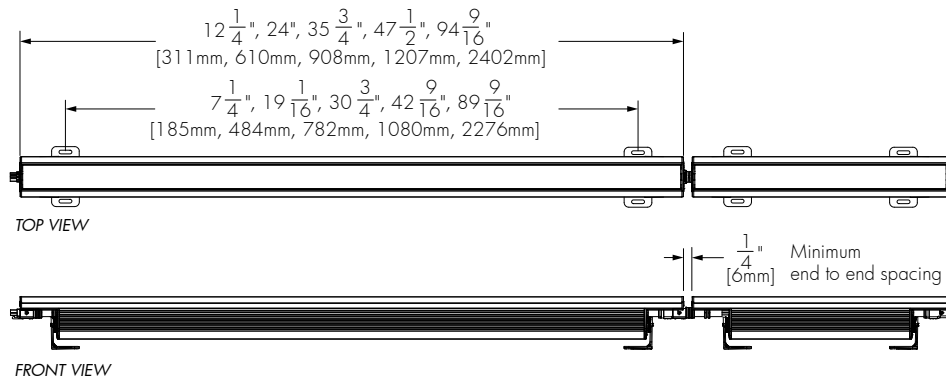


### Performance summary

Based on 4ft fixture, clear lens\*

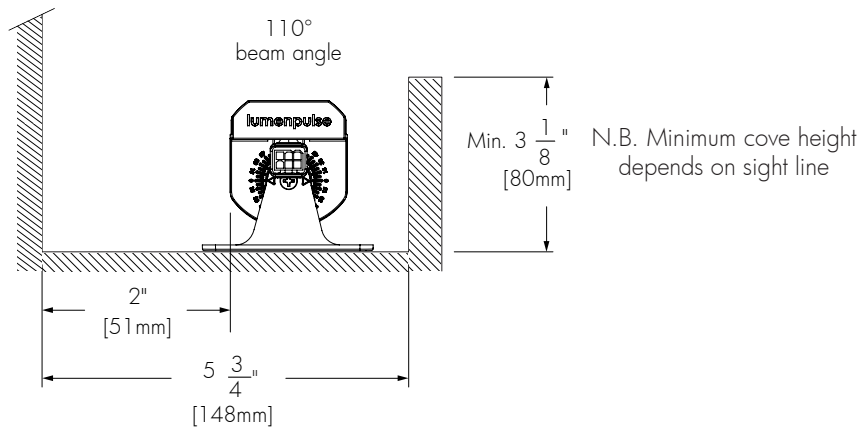
CCT	Delivered Output RO [lm]	Delivered Output HO [lm]
2200K	1,518**	2,530**
2700K	1,920	3,445
3000K	1,965	3,504
3500K	1,922	3,517
4000K	1,806	3,459

Photometric performance is measured in compliance with IESNA LM-79-08.  
\*Frosted lens option delivered output ratio = x0.75.  
\*\*Estimated. Consult lumenpulse website for the latest IES and IDT files.



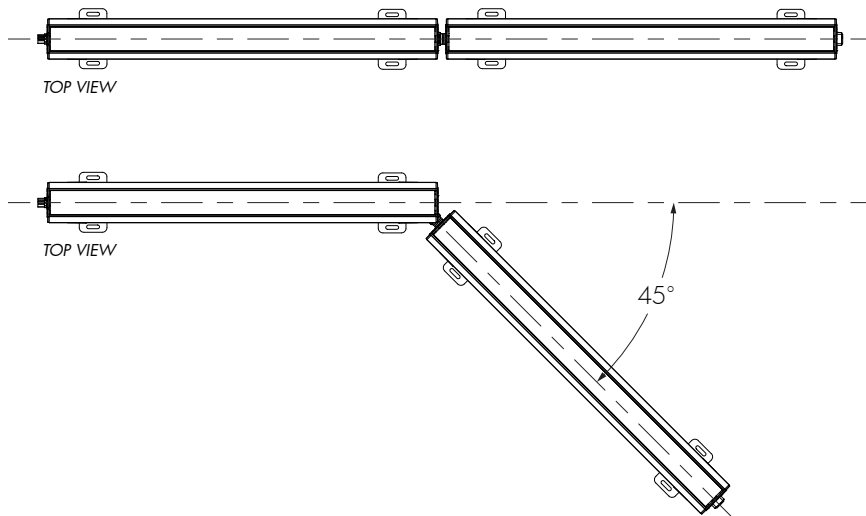
## MOUNTING DETAILS

### SUGGESTED COVE DIMENSIONS



### MAXIMUM ANGLE ADJUSTMENT

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



## ACCESSORIES

Order separately

### Control Systems:

- LTO2** Lumentouch is a wall mount DMX 512 controller keypad.
- LCU** Lumencue is a USB / mini SD DMX 512 controller.
- LID** LumenID is a diagnostic and addressing DMX 512 controller. It must be specified for all DMX applications. Refer to LID specification sheet for details.
- LID-LT** LumentalkID is a diagnostic and addressing controller. It must be specified for all Lumentalk (LT) applications. Refer to LID-LT specification sheet for details.
- LTN** Lumentone is a simple pre-programmed DMX 512 controller with a push button rotary dial and live feedback.

### Control Boxes:

- CBX** DMX/RDM control box. Up to six power and data outputs to fixtures or fixture runs. Ethernet enabled option. Refer to CBX specification sheet for details.
- LDB** Lumentalk Data Bridge, 0-10V or DMX output. Refer to LDB specification sheet for details.

### Leader Cable :

- LCS2LC** Leader Cable for Lumencove® 2.0, 10' or 25' [3m or 7.6m] standard lengths

### Jumper Cable :

- LCS2JC** Jumper Cable for Lumencove® 2.0, 2' or 4' [0.6m or 1.2m] standard lengths

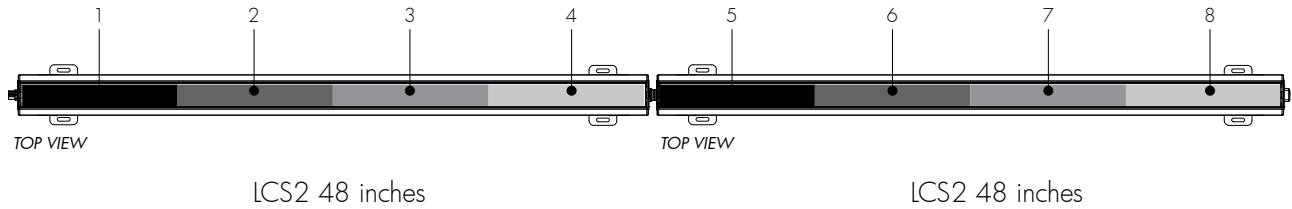
## RESOLUTION DETAILS

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.

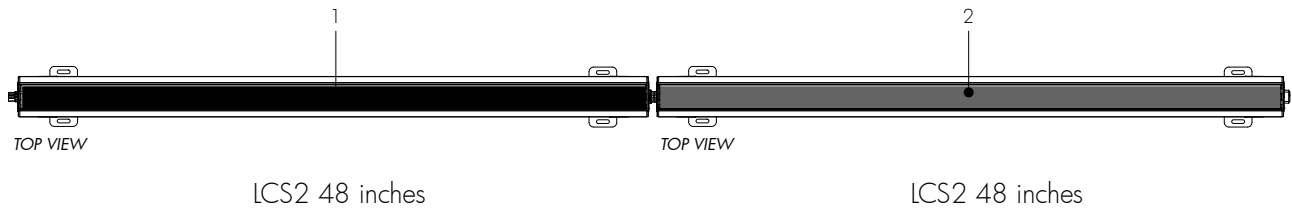
Resolution per foot: each foot is addressed independently

DMX ADDRESSES:



Resolution per fixture: each fixture is addressed independently

DMX ADDRESSES:



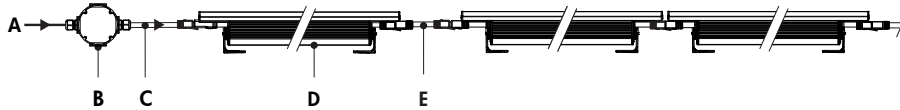
## TYPICAL WIRING DIAGRAMS

### Wiring Color Code

American Color Code	CE Color Code	USE
Green	Yellow/Green	Ground
Black	Brown	Live 100-277V
White	Blue	Neutral
Red/Purple	Black	0-10V / Data +
Orange	Grey	0-10V / Data -

Neutral connection required

### Non-Dimming (NO)

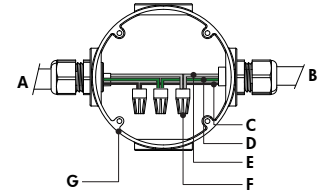


- A** - Power input (100-277V)
- B** - Junction box (by others)
- C** - Leader cable (LCS2LC)
- D** - lumencove 2.0 (LCS2NO)
- E** - Jumper cable (LCS2JC) (optional)

**Notes:**

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Regular Output version: 5 watts per foot [0.3m], High Output version: 12 watts per foot [0.3m].

### Non-Dimming (NO) - Wiring detail



- A** - Power input
- B** - To fixture
- C** - Line
- D** - Ground
- E** - Neutral
- F** - Wire-nuts (by others)
- G** - Junction box (by others)

## TYPICAL WIRING DIAGRAMS - continued

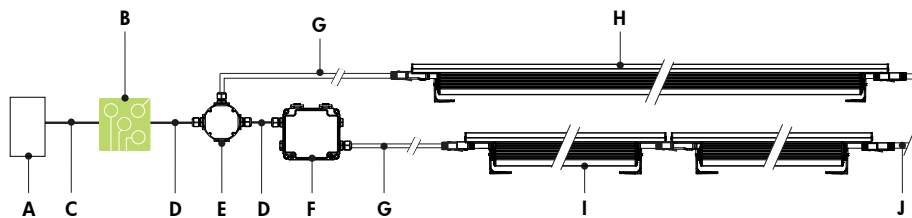
### Wiring Color Code

American Color Code	CE Color Code	USE
Green	Yellow/Green	Ground
Black	Brown	Live 100-277V
White	Blue	Neutral
Red/Purple	Black	0-10V / Data +
Orange	Grey	0-10V / Data -

Neutral connection required

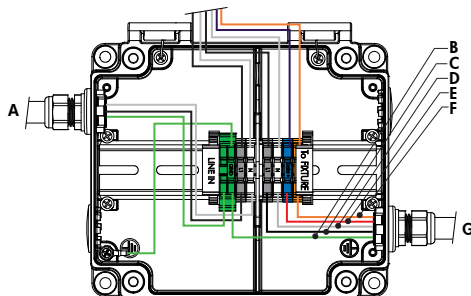
### Lumentalk (LT)

1% minimum dimming value



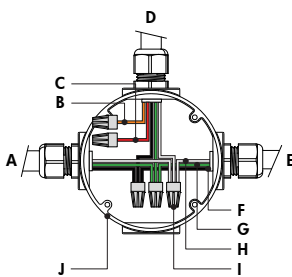
- A - Third party dimmer/controller
- B - lumentranslator (LT-L010, -DMX, -TRIAC, -DALI)
- C - Data wiring (by others)
- D - Power line (120-277V AC)
- E - Junction box (by others)
- F - Lumentalk Data Bridge (LDB-DIM or LDB-DMX)
- G - leader cable (LCS2LC)
- H - lumencove 2.0 (LCS2LT)  
(2, 3, 4 or 8' fixture lengths) [0.6, 0.9, 1.2 or 2.4m]
- I - lumencove 2.0 1' [0.3m] (LCS2-DIM or LCS2-DMX/RDM)
- J - Jumper cable (LCS2JC) (optional)

### Wiring detail using LDB-DIM or LDB-DMX (for 1' fixtures [0.3 m])



- A - Power input (control over power line via Lumentalk system)
- B - Ground
- C - Line
- D - Neutral
- E - 0-10V + / Data +
- F - 0-10V - / Data -
- G - To fixture

### Lumentalk (LT) - Wiring detail (for 2, 3, 4 or 8' fixture lengths [0.6, 0.9, 1.2 or 2.4m])



- A - Power input (control over power line via Lumentalk system)
- B - Data -
- C - Data +
- D - To fixture
- E - To Lumentalk Data Bridge (for run lengths with 1' fixtures [0.3m])
- F - line
- G - Ground
- H - Neutral
- I - Wire-nuts (by others)
- J - Junction box (by others)

#### Notes:

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Lumentalk Data Bridge required for 1' [0.3m] fixture lengths.
- For applications with all fixtures controlled as 1 zone: fixtures and Lumentalk Data Bridge must be specified as DIM. Maximum of 10 fixtures per LDB-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 IID, 2 - Lumentalk system using LumentalkID software and a IID-IT. 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.
- Consult factory for DALI Lumentalk applications.
- Regular Output version: 5 watts per foot [0.3m], High Output version: 12 watts per foot [0.3m].

## TYPICAL WIRING DIAGRAMS - continued

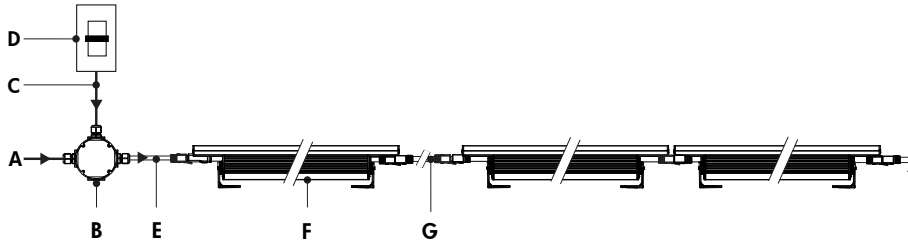
### Wiring Color Code

American Color Code	CE Color Code	USE
Green	Yellow/Green	Ground
Black	Brown	Live 100-277V
White	Blue	Neutral
Red/Purple	Black	0-10V / Data +
Orange	Grey	0-10V / Data -

Neutral connection required

### 0-10V Dimming (DIM)

10% minimum dimming value



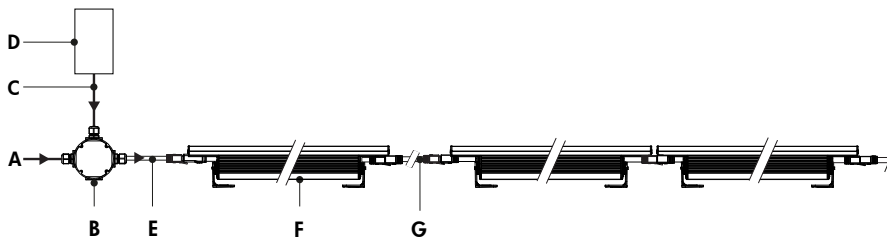
- A - Power input (100-277V)
- B - Junction box (by others)
- C - Data wiring (by others)
- D - Third party dimmer
- E - Leader cable (LCS2LC)
- F - Lumencove 2.0 (LCS2-DIM)
- G - Jumper cable (LCS2JC) (optional)

**Notes:**

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- 0-10V mA ratings: passive dimmer (Current Sink): 3mA per fixture, active dimmer (Current Source): 0.5mA per fixture.
- Regular Output version: 5 watts per foot [0.3m], High Output version: 12 watts per foot [0.3m].

### DALI Dimming (DALI)

1% dimming value

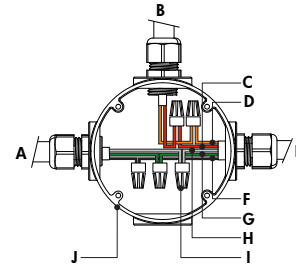


- A - Power input (100-277V)
- B - Junction box (by others)
- C - Data wiring (by others)
- D - Third party DALI controller
- E - Leader cable (LCS2LC)
- F - Lumencove 2.0 (LCS2-DALI)
- G - Jumper cable (LCS2JC) (optional)

**Notes:**

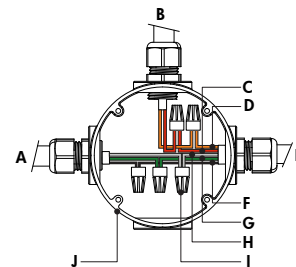
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Maximum of 64 DALI fixtures per DALI loop.
- Regular Output version: 5 watts per foot [0.3m], High Output version: 12 watts per foot [0.3m].

### 0-10V Dimming (DIM) - Wiring detail



- A - Power input
- B - From third party dimmer
- C - 0-10V +
- D - 0-10V -
- E - To fixture
- F - Line
- G - Ground
- H - Neutral
- I - Wire-nuts (by others)
- J - Junction box (by others)

### DALI Dimming (DALI) - Wiring detail



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

## TYPICAL WIRING DIAGRAMS - continued

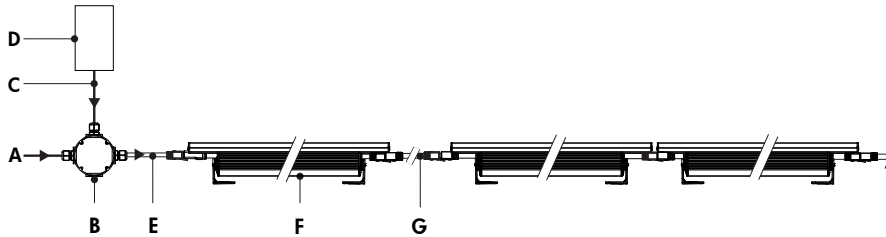
### Wiring Color Code

American Color Code	CE Color Code	USE
Green	Yellow/Green	Ground
Black	Brown	Live 100-277V
White	Blue	Neutral
Red/Purple	Black	0-10V / Data +
Orange	Grey	0-10V / Data -

Neutral connection required

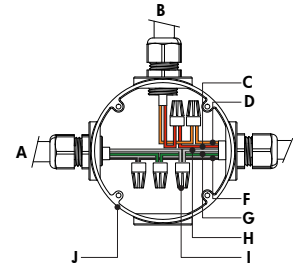
### Lutron® EcoSystem® Enabled Dimming (ES)

1% minimum dimming value



- A - Power input (100-277V)
- B - Junction box (by others)
- C - Data wiring (by others)
- D - Lutron® EcoSystem® controller
- E - Leader cable (LCS2LC)
- F - Lumencove 2.0 (LCS2-ES) (2, 3, 4 or 8' fixture lengths) [0.6, 0.9, 1.2 or 2.4m]
- G - Jumper cable (LCS2JC) (optional)

### Lutron® EcoSystem® Enabled Dimming (ES) - Wiring detail



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

#### Notes:

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Each Lutron® EcoSystem® enabled fixture has its own address; for the example shown, there are a total of 3 EcoSystem® addresses.
- Regular Output version: 5 watts per foot [0.3m], High Output version: 12 watts per foot [0.3m].



## TYPICAL WIRING DIAGRAMS - continued

### Wiring Color Code

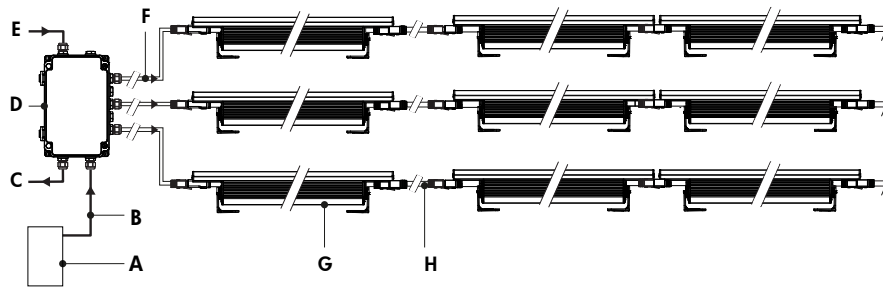
American Color Code	CE Color Code	USE
Green	Yellow/Green	Ground
Black	Brown	Live 100-277V
White	Blue	Neutral
Red/Purple	Black	0-10V / Data +
Orange	Grey	0-10V / Data -

Neutral connection required

Maximum run length, 8A maximum - Lumencove® 2.0 RO 5W/ft [0.3m]			
Cable length/Voltage	120V	240V	277V
50ft [15m] leader cable	128ft [39m]	128ft [39m]	128ft [39m]
Maximum run length, 8A maximum - Lumencove® 2.0 HO 12W/ft [0.3m]			
50ft [15m] leader cable	71ft [22m]	128ft [39m]	128ft [39m]

### Star Layout (DMX/RDM)

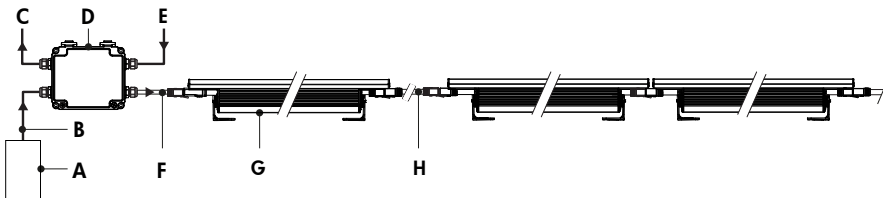
1% minimum dimming value



- A - Third party DMX/RDM controller
- 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 (100-277V)
- F - Leader cable (LCS21C)
- G - lumencove 2.0 (LCS2-DMX/RDM)
- H - Jumper cable (LCS2J) (optional)

### Daisy Chain Layout (DMX/RDM)

1% minimum dimming value

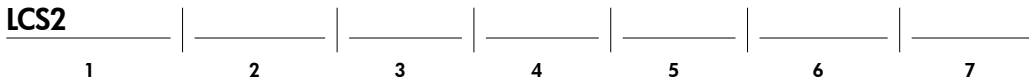


- A - Third party DMX/RDM controller
- B - Data input (Belden 9841 or equivalent, by others)
- C - Data output to next CBX (optional, not isolated/not boosted)
- D - CBX-DS
- E - Power input (100-277V)
- F - leader cable (LCS21C)
- G - lumencove 2.0 (LCS2-DMX/RDM)
- H - Jumper cable (LCS2J) (optional)

#### Notes:

- Consult factory for specific applications and maximum fixture count/cable length recommendations. Maximum run length calculations are typically based on 4' [1.2m] 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
- Each fixture requires 1 DMX address.
- Regular Output version: 5 watts per foot [0.3m], High Output version: 12 watts per foot [0.3m].

## HOW TO ORDER



1

### Housing:

- LCS2 RO** - lumencove® 2.0 Regular Output 5W/ft
- LCS2 HO** - lumencove® 2.0 High Output 12W/ft

2

### Voltage:

- |                        |                        |
|------------------------|------------------------|
| <b>100</b> - 100 volts | <b>220</b> - 220 volts |
| <b>120</b> - 120 volts | <b>240</b> - 240 volts |
| <b>208</b> - 208 volts | <b>277</b> - 277 volts |

3

### Length (nominal):

- 12** - 12 1/4 inches (311mm) (0.57 kg/1.25 lbs)
- 24** - 24 inches (610mm) (1.14 kg/2.5 lbs)
- 36** - 35 3/4 inches (908mm) (1.71 kg/3.75 lbs)
- 48** - 47 1/2 inches (1207mm) (2.28 kg/5 lbs)
- 96** - 94 9/16 inches (2402mm) (4.56 kg/10 lbs)

4

### Colors and Color temperatures:

- 22K** - 2200K
- 27K** - 2700K
- 30K** - 3000K
- 35K** - 3500K
- 40K** - 4000K
- RD** - Red (8-10 weeks lead time)<sup>1</sup>
- GR** - Green (8-10 weeks lead time)
- BL** - Blue (8-10 weeks lead time)

Consult factory for availability of static Royal Blue, 6500K and 90+ CRI.

5

### Lens:

- CL** - Clear lens
- FR** - Frosted lens

6

### Finish:

- WH** - Smooth white, low gloss
- CC** - Custom color and finish (please specify RAL color)<sup>2</sup>

7

### Control:

- NO** - No Dimming
- LT** - Lumentalk Dimming<sup>3</sup>
- DIM** - 0-10V Dimming<sup>4</sup>
- DALI** - DALI Dimming<sup>5</sup>
- ES** - Lutron® EcoSystem® Enabled Dimming<sup>6</sup>
- DMX/RDM** - DMX/RDM enabled<sup>7</sup>

### Notes:

<sup>1</sup> Consult factory for HO static red configuration. <sup>2</sup> North American RAL colors specified with RAL number only are provided with a smooth/high-gloss finish. Please consult factory for other RAL textures and glosses, or to match alternate color charts. Final color matching results may vary. <sup>3</sup> Lumentalk system is enabled with LDB accessory for 1' [0.3m] fixture lengths, see Typical Wiring Diagrams pages for details. 1% minimum dimming value. <sup>4</sup> 10% minimum dimming value. Current Sink: 3mA/fixture, Current Source: 0.5mA/fixture. <sup>5</sup> 1% minimum dimming value. 1 DALI address per fixture. <sup>6</sup> Available for 2' [0.6m], 3' [0.9m], 4' [1.2m] and 8' [2.4m] fixture lengths only. 1% minimum dimming value. 1 EcoSystem® address per fixture length. <sup>7</sup> 1% minimum dimming value. Fixtures set to by fixture resolution. 1 DMX address per fixture.