

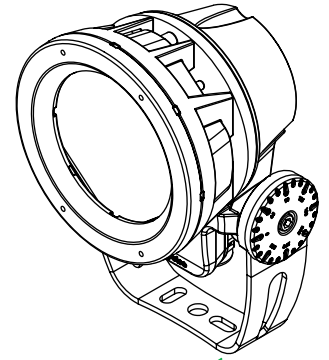
Client \_\_\_\_\_ Project name \_\_\_\_\_

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

## FEATURES AND BENEFITS

### Physical :

- Low copper content high pressure die-cast aluminum housing
- Heavy aluminum formed yoke
- Stainless steel hardware
- Silicone sealing devices
- Clear tempered glass lens
- Dual chamber design for heat management and ease of maintenance
- Electro-statically applied polyester powder coat finish
- 2.40 kg / 5.20 lbs
- EPA: Front = 0.35 sq.ft./0.033 sq.m. Side= 0.31 sq.ft./0.029 sq.m.
- IP66
- IK07 rated
- Meets 3G ANSI C136.31 Vibration standard for bridge applications
- Corrosion-resistant coating for hostile environments\*



### Performance :

- 701 delivered lumens and 32,796 candelas at nadir (DWH full output, 6° optic, DMX/RDM)
- Minimum 1 fc (10.7 lux) @ 181 feet (55m) distance (DWH full output, 6° optic, DMX/RDM)
- Dynamic Warm variable color temperature: 9 LEDs (3x 2200K, 3x 2700K, 3x 3000K)
- Dynamic White variable color temperature: 9 LEDs (3x 2700K, 3x 4000K, 3x 6500K)
- 6°, 10°, 20°, 40°, 60°, Elliptical distribution on 10° to 40° optics
- Lumen maintenance 120,000 hrs [L70 @ 25°C]
- Lumen measurements comply with LM - 79 - 08 standard
- Operating temperatures: -25° C to 50° C [-13F to 122F]

### Photometric Summary

#### DMX/RDM

3-channel control

6° Optic (VN)	Delivered Output [lm]	Intensity [peak cd]	Power [W]	CCT* [K]
DWW**	612	28,965	14	2,600
DWH**	701	32,796	14	4,000

#### Dim to Warm via DMX/RDM

Single channel control (DMX/RDM1)

DWW	387	22,986	12	2,700
-----	-----	--------	----	-------

#### Dim to Warm via 0-10V

(DIM/DTW)

DWW	389	23,105	12	2,700
-----	-----	--------	----	-------

\* Tested at full output.

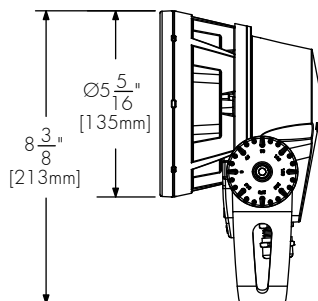
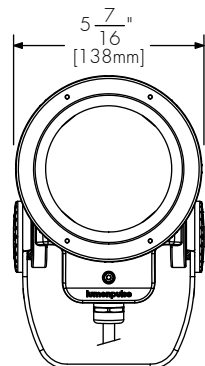
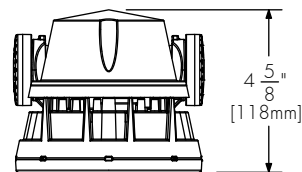
\*\* Photometric performance is measured in compliance with

IESNA LM-79-08.

Consult Lumenpulse website for the latest IES and LDT files.

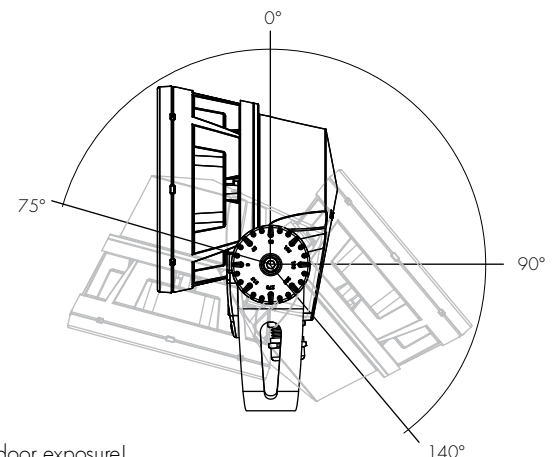
### Electrical :

- Line voltage luminaire for 100 to 277V
- Power and data in 1 cable, 3ft/1m cord standard (#16-5), other lengths available
- 14 watts
- Control options: dim to warm via 0-10V (DWW only), DMX/RDM enabled dim to warm via single channel (DWW only), DMX/RDM enabled 3-channel color temperature control, Lumentalk system is enabled with LDB-DMX accessory, see typical wiring diagrams for details

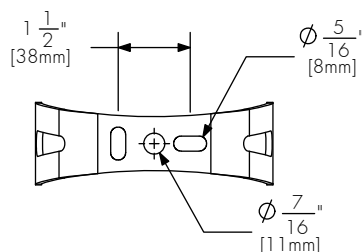
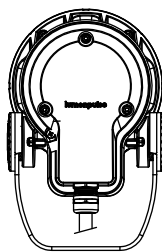
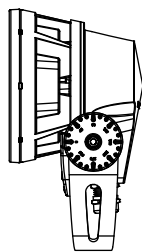
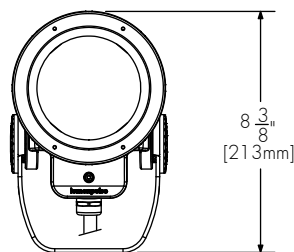


Standard Yoke Mounting (as shown, included)

\* Use only when exposed to salt spray and harsh chemicals. This option is not required for normal outdoor exposure!

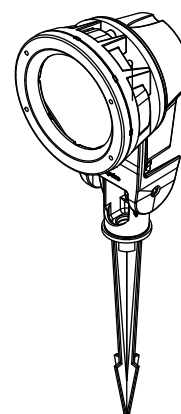
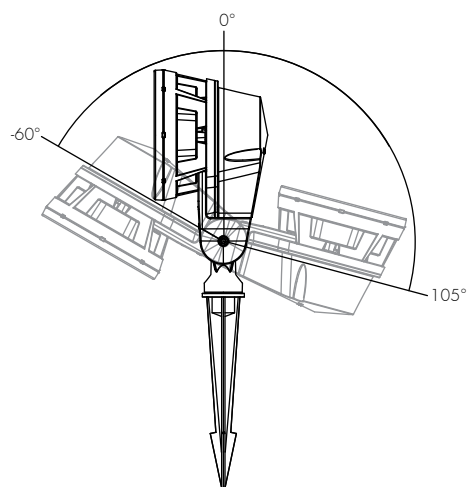
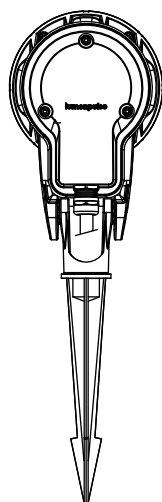
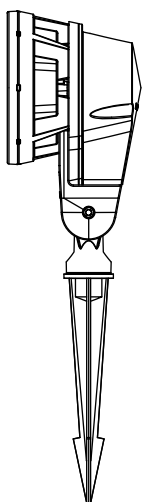
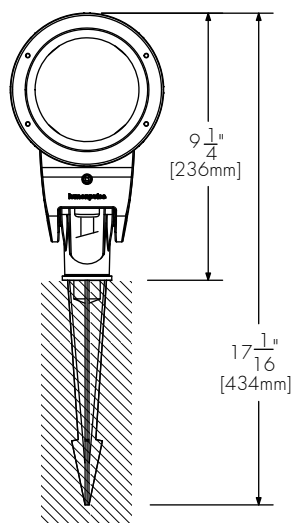


## MOUNTING OPTIONS



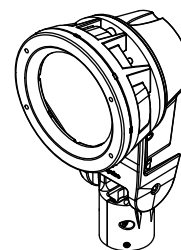
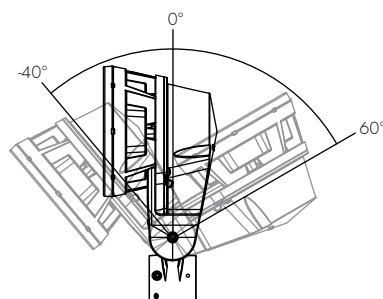
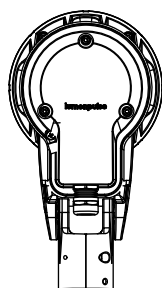
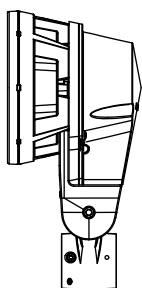
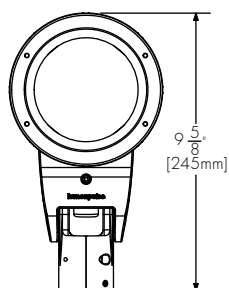
Standard Yoke Mounting  
(as shown, included)

Standard Yoke Mounting  
holes pattern



**SK**  
Stake

Stake Mounting  
Adjustable pivot limits

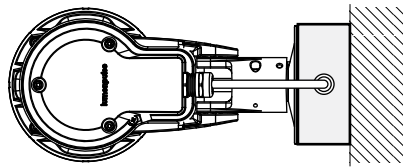


**KN**  
Knuckle

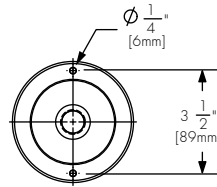
Suitable for 1/2", 3/4" and 1" pipe diameter

Knuckle Mounting  
Adjustable pivot limits

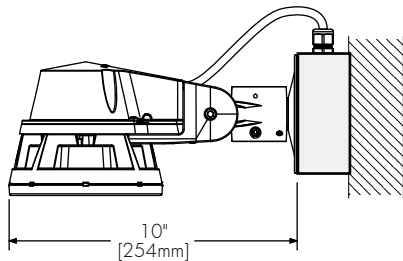
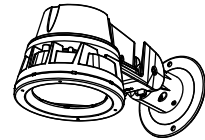
## MOUNTING OPTIONS - continued



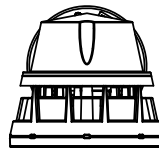
TOP VIEW



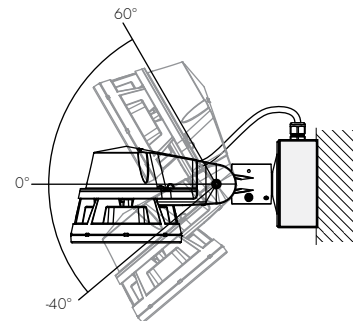
Mounting base  
screw hole pattern



RIGHT VIEW



FRONT VIEW

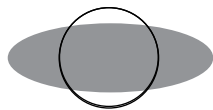


Canopy Cover Mounting  
Adjustable pivot limits

### CN

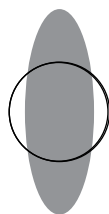
Canopy Cover  
Suitable for standard  
round junction boxes  
surface mounted

## OPTICAL OPTIONS Factory installed\*



### LSLH

Linear Spread Lens  
Horizontal distribution  
(not adjustable on site)



### LSLV

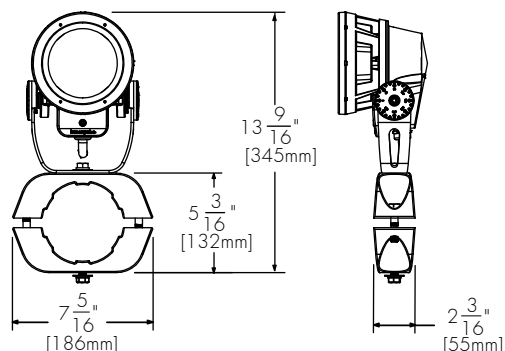
Linear Spread Lens  
Vertical distribution  
(not adjustable on site)

\*Factory installed, available for VN to FL optics.  
See Optical Accessories for field adjustable spread lens.

## ACCESSORIES

Order separately

### Mounting Accessories

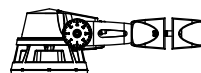


PM4 Round Pole Mounting Accessory Shown

\*Consult factory for square pole section

	PM4	PM4.5	PM5
For pole Ø	4"± 1/16" 101.6 mm± 1.6mm	4.5"± 1/16" 114.3mm ± 1.6mm	5"± 1/16" 127mm ± 1.6mm

\*Consult factory for other pole diameters.

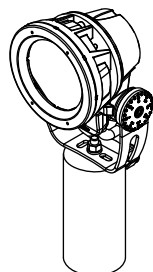


**PM4-1, PM4.5-1, PM5-1**  
Round Pole Mounting accessory  
single fixture



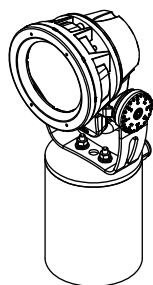
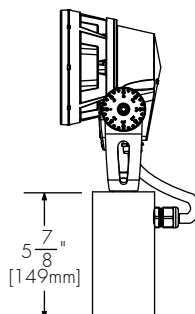
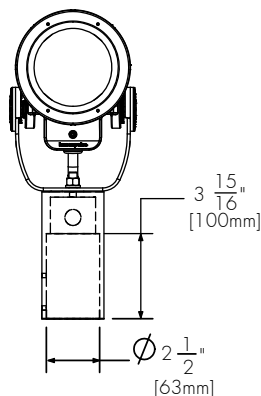
**PM4-2, PM4.5-2, PM5-2**  
Round Pole Mounting accessory  
twin fixtures

When **PM4-2, PM4.5-2 or PM5-2** are specified,  
one bracket assembly is supplied per 2 fixtures unless  
otherwise specified.



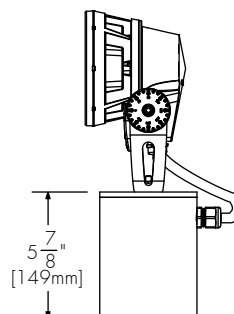
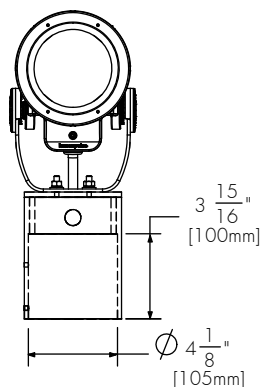
**TN2**

Tenon Adapter  
to fit on 2 3/8" O.D. tenon



**TN4**

Tenon adapter  
to fit on 4" O.D. tenon



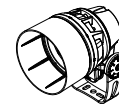
## ACCESSORIES - continued

Order separately.

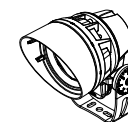
Note: installed optical accessories will affect the maximum pivot limits for each mounting option, consult factory for details.

## Optical Accessories:

**LBS-SN-\_\_\_-BK** Snoot accessory. Please specify desired exterior finish from the list below.  
Interior surface painted black.



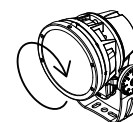
**LBS-VS-\_\_\_-BK** Visor accessory. Please specify desired exterior finish from the list below.  
Interior surface painted black.



**LBS-WG-\_\_\_** Wire Guard accessory. Please specify desired exterior finish from the list below.



**LBS-LSLA-\_\_\_** Linear Spread Lens Adjustable accessory. Please specify desired exterior finish from the list below.



Available finishes:

**BK** - Black Sandtex

**BRZ** - Bronze Sandtex

**SI** - Silver Sandtex

**WH** - Smooth white, low gloss

**BKTX** - Textured black

**BRZTX** - Textured bronze, non-metallic

**GRATX** - Textured medium gray

**GRNTX** - Textured green

**WHTX** - Textured white

**CC** - Custom color and finish (please specify RAL color)<sup>1</sup>

## Accessory combinations:

	+	Snoot	Visor
Linear Spread Lens Adjustable		YES	YES
Wire Guard		YES	YES

Accessory combinations must be ordered together on a single line.

Ex: A Snoot + Wire Guard combination order code is **LBS-SNWG-BK-BK**.

## Notes:

<sup>1</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.

## ACCESSORIES - continued

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:

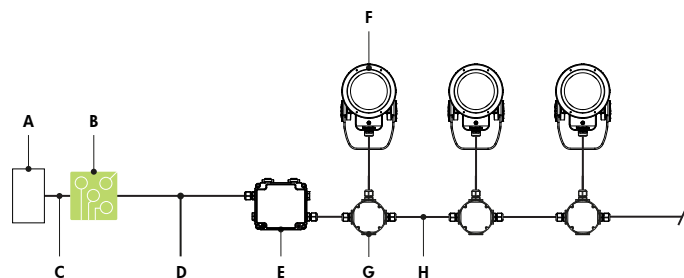
- CBX** DMX/RDM control box.  
Up to six power and data outputs to fixtures or fixture runs.  
Ethernet enabled option.  
Refer to CBX specification sheet for details.
- LDB-DMX** Lumentalk Data Bridge, DMX output.  
Refer to LDB specification sheet for details.

## 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 -

### Lumentalk (LT)



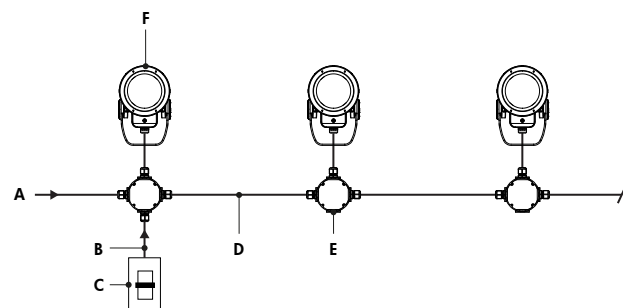
- A - Third party DMX/RDM controller
- B - Lumentranslator (LT-DMX)
- C - Data wiring (by others)
- D - Power line (120-277V AC)
- E - Lumentalk Data Bridge (LDB-DMX)
- F - Lumenbeam Small (LBS-DMX/RDM)
- G - Junction box (by others)
- H - Power wiring (by others)

#### Notes:

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Lumentalk Data Bridge required for Lumentalk system, 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 IID, 2 - Lumentalk system using LumentalkID software and a IID-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.
- 14 watts per fixture.

### Dim to Warm Via 0-10V (DIM/DTW)\*

\*Available for DWVW version only, 2700K to 2200K

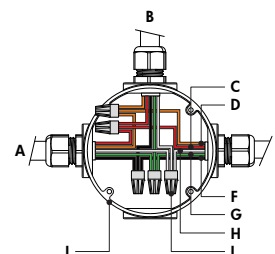


- A - Power input (100-277V)
- B - Data wiring (by others)
- C - Third party dimmer
- D - Power and data wiring (by others)
- E - Junction box (by others)
- F - Lumenbeam Small (LBS-DIM/DTW)

#### Notes:

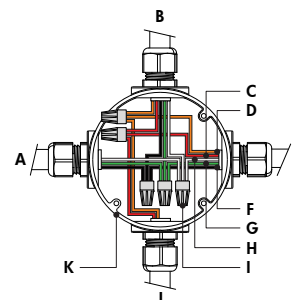
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- 0-10V mA ratings: passive dimmer (Current Sink): 3mA per fixture, active dimmer (Current Source): 0.5mA per fixture.
- 14 watts per fixture.

### Wiring detail using LDB-DMX



- A - From Lumentalk Data Bridge (control over powerline via Lumentalk system) or from previous fixture
- B - To fixture
- C - Data +
- D - Data -
- E - To next fixture
- F - Line
- G - Ground
- H - Neutral
- I - Wire nuts (by others)
- J - Junction box (by others)

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



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

## TYPICAL WIRING DIAGRAMS - continued

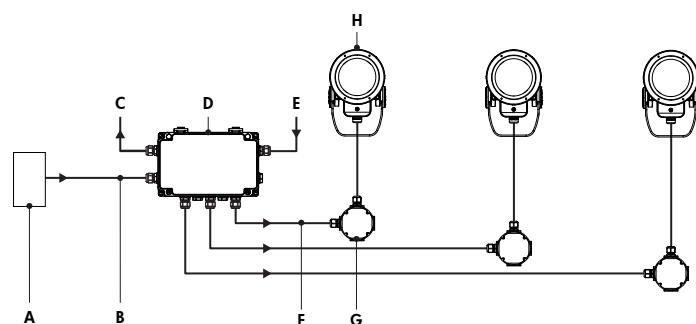
### Wiring Color Code

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 -

Maximum number of fixtures per run (based on 15A maximum, 16AWG cable, fixtures spaced 10ft [3m] on center, first fixture 50ft [15m] from CBX)				
Configuration/Voltage	120V	208V	240V	277V
50ft [15m] from CBX	32	32	32	32

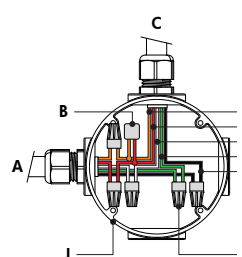
### Star Layout (Dim to Warm Via DMX/RDM1\* and 3-Channel DMX/RDM)

\* Available for DMX version only, 2700K to 2200K



- 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 - Power and data output to fixture (wiring by others)
- G - Junction box (by others)
- H - Lumenbeam Small (LBS-DMX/RDM or LBS-DMX/RDM1)

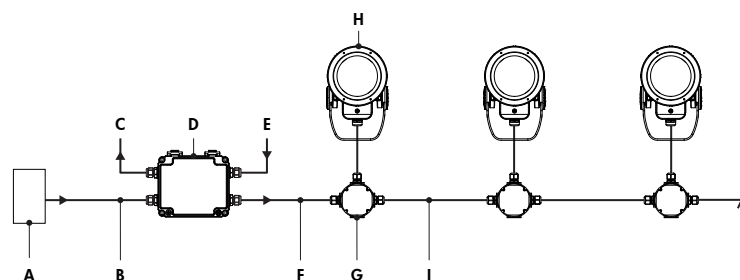
#### DMX/RDM1 and DMX/RDM - Wiring detail



- A - From CBX or previous fixture
- B - Lumenterminator (use at the end of each run only)\*
- C - To fixture
- D - Data -
- E - Data +
- F - Neutral
- G - Ground
- H - Line
- I - Wire nuts (by others)
- J - Junction box (by others)

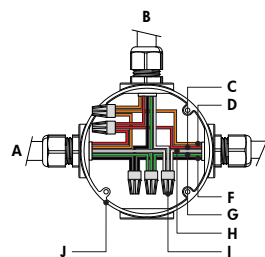
### Daisy Chain Layout (Dim to Warm Via DMX/RDM1\* and 3-Channel DMX/RDM)

\* Available for DMX version only, 2700K to 2200K



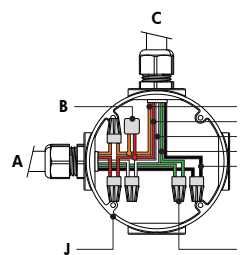
- A - Third party DMX/RDM controller
- B - Data input (Belden 9841 or equivalent, by others)
- C - Data output to next CBX (optional, not isolated/not boosted)
- D - CBX-DS
- E - Power input (100-277V)
- F - Power and data output to fixture (wiring by others)
- G - Junction box (by others)
- H - Lumenbeam Small (LBS-DMX/RDM or LBS-DMX/RDM1)
- I - Power and data wiring (by others)

#### DMX/RDM1 and DMX/RDM - Wiring detail (first or middle of run)



- A - From CBX or previous fixture
- B - To fixture
- C - Data +
- D - Data -
- E - To next/previous fixture
- F - Line
- G - Ground
- H - Neutral
- I - Wire nuts (by others)
- J - Junction box (by others)

#### DMX/RDM1 and DMX/RDM - Wiring detail (end of run)



- A - From CBX or previous fixture
- B - Lumenterminator\*
- C - To fixture
- D - Data -
- E - Data +
- F - Neutral
- G - Ground
- H - Line
- I - Wire nuts (by others)
- J - Junction box (by others)

#### Notes:

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- 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.
- Maximum 3ft [1m] fixture cable length recommended for daisy chain layout.
- DMX/RDM1 control option requires 1 DMX address. DMX/RDM control option requires 3 DMX addresses.
- 14 watts per fixture.

\* DMX terminator is required at the end of each run to maintain data integrity. (2x) DMX lumenterminator included per CBX-DS, (6x) DMX lumenterminator included per CBX-ST. See installation instructions for details.



## HOW TO ORDER

LBS									
1	2	3	4	5	6	7	8	9	10

### 1 Housing:

**LBS** - lumenbeam™ Small

### 2 Voltage:

**100** - 100 volts      **220** - 220 volts  
**120** - 120 volts      **240** - 240 volts  
**208** - 208 volts      **277** - 277 volts

### 3 Colors and Color temperatures:

**DWW** - Dynamic warm white color temperature ranging from 2200K to 3000K.  
**DWH** - Dynamic white color temperature ranging from 2700K to 6500K.

### 4 Optic:

**VN** - Very Narrow 6°



**NS** - Narrow Spot 10°



**NF** - Narrow Flood 20°



**FL** - Flood 40°



**WFL** - Wide Flood 60°



### 5 Optical Option:

**LSLH** - Linear Spread Lens Horizontal distribution<sup>1</sup>  
**LSLV** - Linear Spread Lens Vertical distribution<sup>1</sup>

### 6 Finish:

**BK** - Black Sandtex  
**BRZ** - Bronze Sandtex  
**SI** - Silver Sandtex  
**WH** - Smooth white, low gloss  
**BKTX** - Textured black  
**BRZTX** - Textured bronze, non-metallic  
**GRATX** - Textured medium gray  
**GRNTX** - Textured green  
**WHTX** - Textured white  
**CC** - Custom color and finish (please specify RAL color)<sup>2</sup>

### 7 Control:<sup>3</sup>

**DIM/DTW** - Dim to Warm via 0-10V, 2700K to 2200K<sup>4, 5</sup>  
**DMX/RDM1** - Dim to Warm via single-channel DMX/RDM, 2700K to 2200K<sup>4, 6</sup>  
**DMX/RDM** - 3-channel color temperature control via DMX/RDM<sup>7</sup>

### 8 Mounting Option:

**SK** - Stake Mounting  
**KN** - Knuckle Mounting  
**CN** - Canopy Cover Mounting

### 9 Option:

**3GV** - 3G ANSI C136.31 Vibration Rating<sup>8</sup>  
**CRC** - Corrosion-resistant coating for hostile environments  
**CE** - CE (certification covers European Economic Area)

### 10 Cable Length:

<b>3FT</b> - 3ft (standard length unless otherwise specified) <sup>9</sup>	<b>1M</b> - 1m (standard length unless otherwise specified) <sup>9</sup>
<b>10FT</b> - 10ft	<b>5M</b> - 5m
<b>20FT</b> - 20ft	<b>10M</b> - 10m
<b>30FT</b> - 30ft	<b>15M</b> - 15m
<b>50FT</b> - 50ft	<b>20M</b> - 20m
<b>70FT</b> - 70ft	<b>30M</b> - 30m
<b>100FT</b> - 100ft	

## Notes:

<sup>1</sup> Factory installed, available for 6° (VN) to 40° (FL) optics. See Optical Accessories for field adjustable spread lens. <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-DMX accessory, see Typical Wiring Diagrams pages for details. DMX/RDM must be specified in the order code. Lumentalk system requires 2-step commissioning; 1 - DMX/RDM system using LumenID software and a LID kit, 2 - Lumentalk system using LumentalkID software and a LID-IT kit. Consult factory for details. <sup>4</sup> For more information about Lumenpulse's Dim to Warm technology consult the [application note](#) and the [brochure](#) on the Lumenpulse website. <sup>5</sup> Available for DWW version only. 10% minimum dimming value. <sup>6</sup> Available for DWW version only. 1% minimum dimming value. <sup>7</sup> 3 DMX addresses per fixture. <sup>8</sup> 3GV option is available for standard yoke mounting only. <sup>9</sup> Maximum 3ft [1m] fixture cable length recommended for daisy chain DMX applications with CBX-DS.