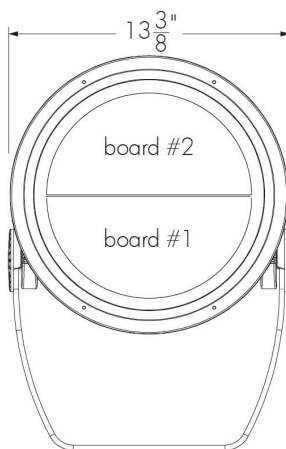
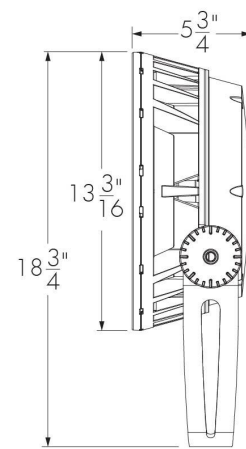


Project Name \_\_\_\_\_ Qty \_\_\_\_\_

Type \_\_\_\_\_ Catalog / Part Number \_\_\_\_\_



Front view



Side view

**Photometric Summary**

**Symmetric**

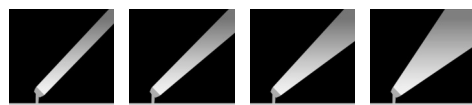
	Delivered output (lm)	Intensity (peak cd)
<b>XN (5°)</b>	6,511	452,608
<b>VN (6°)</b>	5,695	243,890
<b>NS (10°)</b>	5,755	216,057
<b>NF (20°)</b>	5,071	42,766
<b>M (30°)</b>	5,132	21,666
<b>FL (40°)</b>	5,115	14,101
<b>WFL (60°)</b>	5,263	5,463

**Asymmetric**

<b>NAS</b>	6,010	99,473 (@2.5°)
<b>WW</b>	4,930	21,485 (@5°)

Based on DWH full output, DMX/RDM configuration.  
Photometric performance is measured in compliance with IESNA LM-79-08.

**Optic**



Extra Narrow 5°    Very Narrow 6°    Narrow Spot 10°    Narrow Flood 20°



Medium 30°    Flood 40°    Wide Flood 60°    Narrow Asymmetric



Asymmetric Wallwash

**Description**

The Lumenbeam Grande Dynamic White is an IP66-rated luminaire for lighting landscapes, trees, columns, monuments, and architectural details with a special feature that enables the selection of any color temperature from 2200K to 3000K or from 2700K to 6500K. This dynamic feature gives designers and their clients the freedom to alter the ambiance of a space in response to the time of day or the way a space is used. A number of other options are on offer: optics for flood or accent lighting, as well as accessories, spread lenses, and controls. The luminaire also has an anti-corrosion option for use in harsh, chemical, or coastal environments.

**Features**

<b>Color and Color Temperature</b>	Dynamic white (2700K to 6500K), Dynamic warm white (2200K to 3000K)
<b>Optics (Nominal Distribution)</b>	XN (5°), VN (6°), NS (10°), NF (20°), M (30°), FL (40°), WFL (60°), NAS (Narrow Asymmetric), WW (Asymmetric Wallwash)
<b>Optical Option</b>	Linear spread lens horizontal distribution, Linear spread lens vertical distribution
<b>Option</b>	Short Yoke 3G ANSI C136.31-2010 Vibration Rating for bridge applications Corrosion-resistant coating for hostile environments
<b>Cable Color</b>	Black, White
<b>Power Consumption</b>	70 to 104 W (see Power Consumption table for details)
<b>Warranty</b>	5-year limited warranty

**Performance**

<b>Maximum Delivered Output</b>	5,040 lm (DWH full output, XN 5°, DMX/RDM) 6,511 lm (DWH full output, XN 5°, DMX/RDM)
---------------------------------	--

**Color and Color Temperature**



**D<sub>ww</sub>**  
Dynamic warm white (2200K to 3000K)

**D<sub>wh</sub>**  
Dynamic white (2700K to 6500K)

**Control**

DIM/DTW    DMX/RDM1    DMX/RDM   

**DALI 2**  
T8

**Ratings**

IP66    IK09

**Certifications**



**5 YEARS**  
lumenpulse

**3G**  
VIBRATION RATING

**Maximum Delivered Intensity**      350,318 cd at nadir (DWW full output, XN 5°, DMX/RDM)  
452,608 cd at nadir (DWH full output, XN 5°, DMX/RDM)

**Illuminance at Distance**      Minimum 1 fc at 594 ft (DWW full output, XN 5°, DMX/RDM)  
Minimum 1 fc at 676 ft (DWH full output, XN 5°, DMX/RDM)

**Lumen Maintenance**      L70 120,000 hrs (Ta 25 °C)

**Physical**

**Housing Material**      Low copper content high pressure die-cast aluminum

**Yoke Material**      Heavy aluminum (standard yoke included)

**Lens Material**      Clear tempered glass

**Hardware Material**      Stainless steel

**Gasket Material**      Silicone

**Surface Finish**      Electrostatically applied polyester powder coat

**Weight**      24 lbs

**EPA**      Front = 1.12 sq ft, Side = 0.34 sq ft

**Electrical and control**

**Voltage**      100 to 277 volts

**Fixture Cable**      Power and data in one cable

**Conductors**      3C #16-3 (LT control), 5C #16-5 (DIM/DTW, DALI8 control), 6C #14-3/ #24-3 (DMX/RDM1, DMX/RDM control)

**Control**      Lumentalk, Dim to Warm via 0-10V (2700K to 2200K), Dim to Warm via single-channel DMX/RDM (2700K to 2200K), DMX/RDM enabled 3-channel color temperature control, DALI 2 T8 control

**Resolution (DMX/RDM)**      Per board or fixture for DMX/RDM control option (configured with LumenID V3 software), Per fixture for DMX/RDM1 control option, 8-bit or 16-bit

**Dynamic Warm Color Temperature Mixing**      72 LEDs (12x 2200K, 12x 2700K, 12x 3000K per board)

**Dynamic White Color Temperature Mixing**      72 LEDs (12x 2700K, 12x 4000K, 12x 6500K per board)

**Environmental**

**Storage Temperature**      -40 °F to 158 °F (device must reach start-up temperature value before operating)

**Start-up Temperature**      -13 °F to 122 °F

**Operating Temperature**      -40 °F to 122 °F

**Ingress Protection Rating**      IP66, Wet location rated

**Impact Resistance Rating**      IK09

**Application Wind Speed**      Luminaires were designed based on AASHTO 2013 standard to ensure highest quality and safety. Installation should be validated by a local project engineer to ensure the luminaires are suitable for the wind speed and exposure of the specific application

**Accessories (order separately)**

<b>Optical Accessories</b>	Snoot, Snoot wide, Visor, Linear spread lens adjustable, Wire guard
<b>Control Boxes</b>	DMX/RDM enabled (daisy chain or star configuration), Ethernet enabled (daisy chain or star configuration)
<b>Control Systems</b>	Lumentone™ 2 (LTN2), Pharos® kit (PHAROS)
<b>Diagnostic and Addressing Tools</b>	LumenID (LID), LumentalkID (LIDLIT)

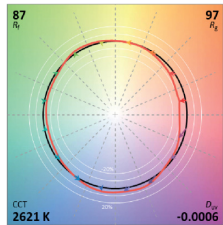
**Power Consumption**

Control Option	Color and Color Temperature	Optic	Wattage (W)
DIM/DTW	DWW	XN/NAS	88
		VN/NS/NF/M/FL/WFL/WWW	70
LT DMX/RDM DALI8	DWH & DWW	XN/NAS	104
		VN/NS/NF/M/FL/WFL/WWW	
	DWH & DWW	XN/NAS	86
		VN/NS/NF/M/FL/WFL/WWW	

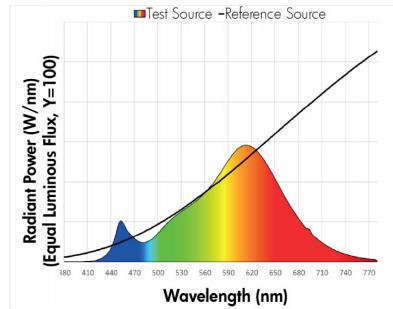
**Chromaticity Data**

**TM-30 - DWW**

CCT	CIE		TM-30	
DWW	R <sub>a</sub>	86	R <sub>f</sub>	87
Full Output	R <sub>g</sub>	26	R <sub>g</sub>	97

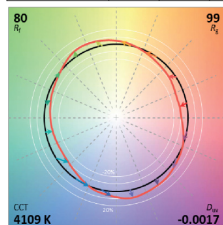


**DWW Spectral Power Distribution**

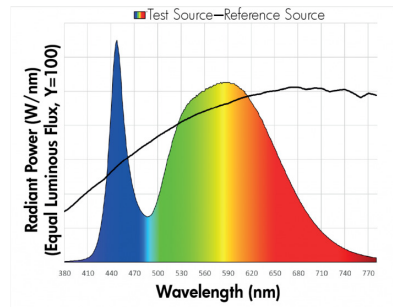


**TM-30 - DWH**

CCT	CIE		TM-30	
DWH	R <sub>a</sub>	81	R <sub>f</sub>	80
Full Output	R <sub>g</sub>	22	R <sub>g</sub>	99

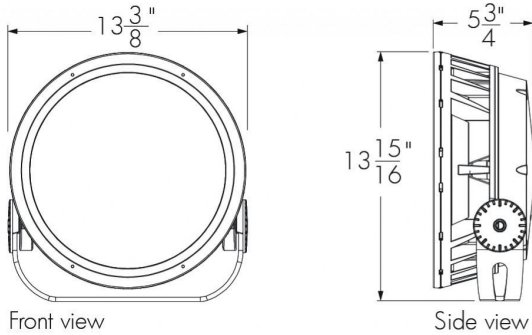


**DWH Spectral Power Distribution**



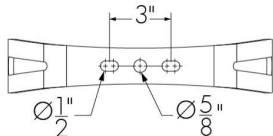
**Mounting Options**

**SY - Short Yoke**

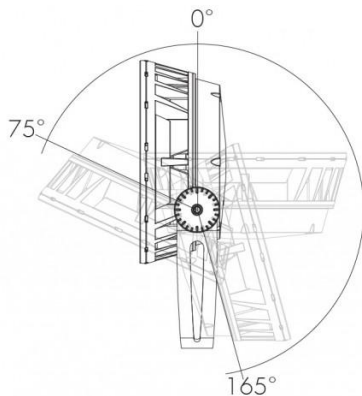


**Mounting Details**

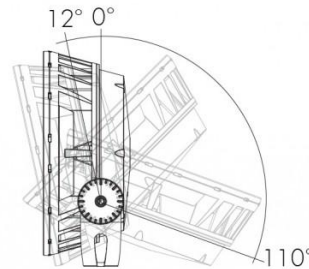
**Mounting Hole Pattern - Standard and Short Yoke**



**Adjustable pivot limits (adjustable in 6 degree increments)**



Standard yoke



Short yoke

**Optical Options**

**LSLH - Linear Spread Lens Horizontal Distribution**



LSLH - Linear spread lens horizontal distribution

**LSLV - Linear Spread Lens Vertical Distribution**



**Beam Angles**

Optic installed in fixture	Beam angle with LSLH/LSLV
<b>XN</b>	5° x 60°
<b>VN</b>	8° x 50°
<b>NS</b>	9° x 56°
<b>NF</b>	17° x 57°
<b>M</b>	27° x 68°
<b>FL</b>	37° x 74°

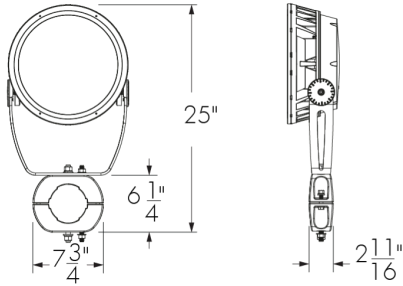
LLF: 0.88\*

\*LLF may vary slightly by distribution chosen.

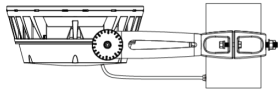
Factory installed, not adjustable on site. Not available for WFL, NAS and WW optics.  
See 'Optical Accessories' section for field adjustable spread lens (LSLA).

## Mounting Accessories (Order Separately)

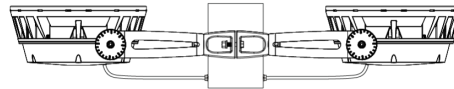
### Round Pole Mounting Accessory



PM4 model shown.  
Consult factory for square pole section.



**PM4-1, PM4.5-1, PM5-1** - Round pole mounting accessory - single fixture

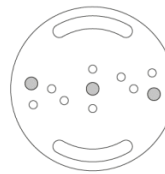
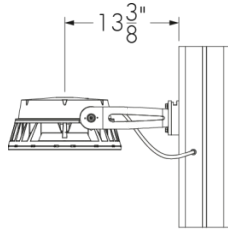
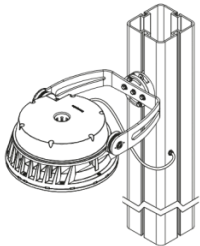


**PM4-5, PM4.5-2, PM5-2** - Round pole mounting accessory - twin fixtures  
\*One bracket assembly is supplied per 2 fixtures unless otherwise specified.

	PM4	PM4.5	PM5
For pole Ø	$4" \pm \frac{1}{16}$	$4.5" \pm \frac{1}{16}$	$5" \pm \frac{1}{16}$

Consult factory for other pole diameters.

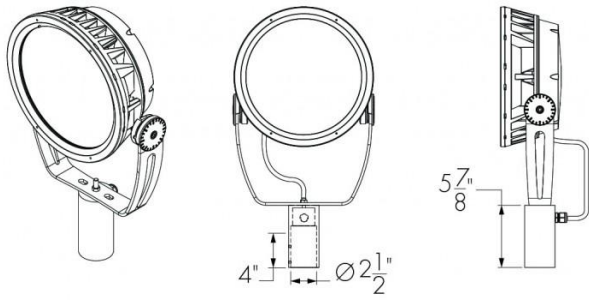
### PLTU - Universal Yoke



Refer to the Universal Yoke specification sheet and Pole installation instructions for more details. Square Lumentech profile shown.

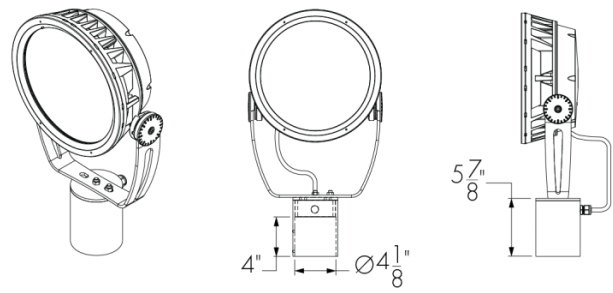
The mounting holes used for this fixture are shown in gray.

**Tenon Adapter**



**TN2** - Tenon adapter to fit on 2 3/8 in O.D. tenon

Vertical mounting only. Consult factory for horizontal mounting.



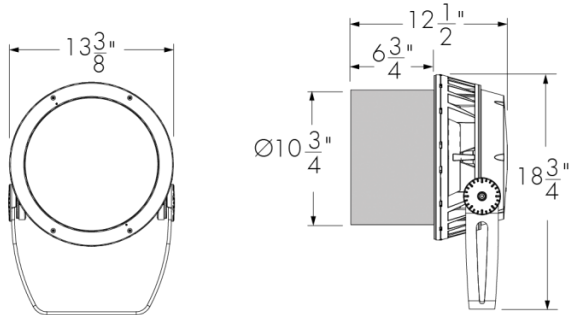
**TN4** - Tenon adapter to fit on 4 in O.D. tenon

Vertical mounting only. Consult factory for horizontal mounting.

**Optical Accessories (Order Separately)**

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

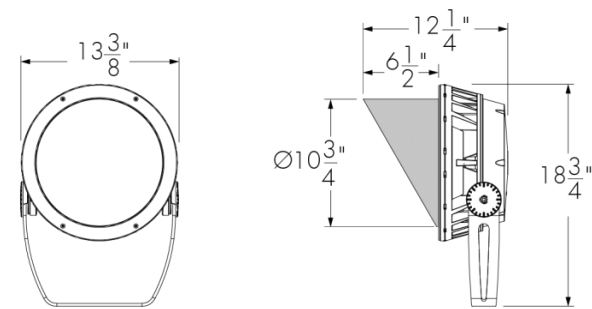
**SN - Snoot**



**LBGSN-FINISH-BK-OPTIONS (CRC)**

Interior surface painted black. Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

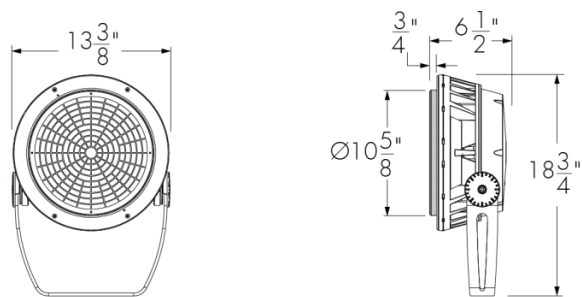
**VS - Visor**



**LBGVS-FINISH-BK-OPTIONS (CRC)**

Interior surface painted black. Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

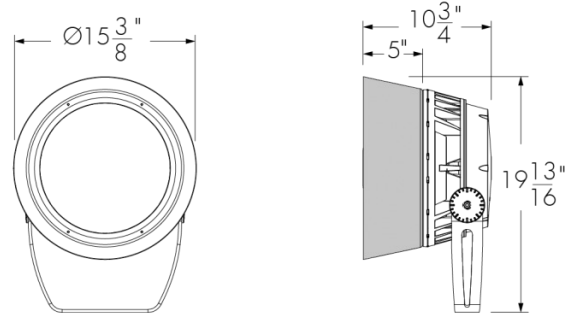
**WG - Wire Guard**



**LBGWG-FINISH-OPTIONS (CRC)**

Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

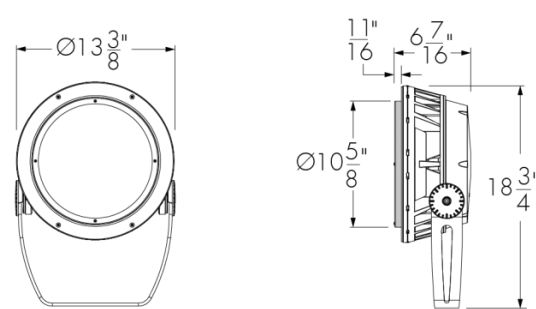
**SNW - Snoot Wide**



**LBGSNW-FINISH-BK-OPTIONS (CRC)**

Interior surface painted black. Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

**LSLA - Linear Spread Lens Adjustable**



**LBGLSLA-FINISH-OPTIONS (CRC)**

Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

**Accessory Combinations**

+	Snoot	Snoot wide	Visor
<b>Linear spread lens adjustable</b>	LBGSNLSLA	N/A*	LBGVLSLA
<b>Wire guard</b>	LBGSNWG	N/A	LBGVSWG

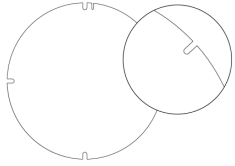
Accessory combinations must be ordered together on a single line

Ex: A snoot + wire guard combination order code is LBGSNWG-**FINISH-BK-OPTIONS**. A maximum of two accessories can be combined per fixture.

\*Consult factory for a linear spread lens adjustable + snoot wide combination.

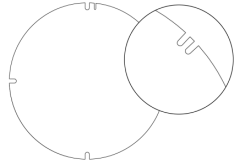
**Diffuser Lenses (Intended for Mockup Purposes only, Order Separately)**

Diffuser Lens 1 (1 Notch)



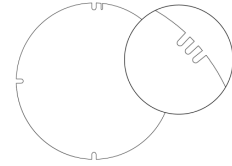
147683

Diffuser Lens 2 (2 Notches)



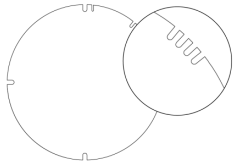
147684

Diffuser Lens 3 (3 Notches)



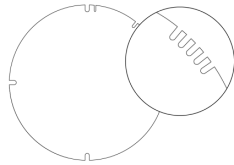
147685

Diffuser Lens 4 (4 Notches)



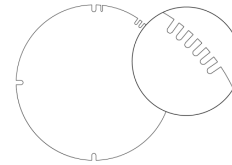
147686

Diffuser Lens 5 (5 Notches)



147687

Diffuser Lens 6 (6 Notches)



147688

**Final Distribution Using Diffuser Lenses**

Original Distribution on Fixture	Final Distribution Using Diffuser Lens					
	Diffuser Lens 1 1 Notch	Diffuser Lens 2 2 Notches	Diffuser Lens 3 3 Notches	Diffuser Lens 4 4 Notches	Diffuser Lens 5 5 Notches	Diffuser Lens 6 6 Notches
XN (4°/5°)	VN	NS				
VN (6°)	NS					
NS (10°)			NF	M	FL	WFL
NF (20°)						
M (30°)				FL		
FL (40°)					WFL	
WFL (60°)						

Choose a diffuser lens based on the desired final beam distribution. Refer to the 6-digit part numbers above to order diffuser lenses individually. To order a complete set of 6 diffuser lenses in a bag, refer to the following item names: **LBS**: LBALK-S **LBM/LBMP**: LBALK-M **LBL/LBLP**: LBALK-L **LBG/LBGP**: LBALK-G **LBX/LBXP**: LBALK-X.

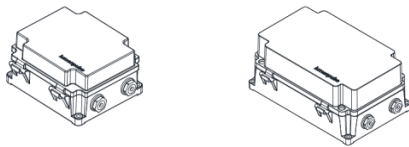
The diffuser lenses are intended for mockup purposes only. A lens holder is required to install a diffuser lens on the fixture, order separately using the following names: **LBS**: LBSLSLA-FINISH-LBALK **LBM/LBMP**: LBMLSLA-FINISH-LBALK **LBL/LBLP**: LBLLSLA-FINISH-LBALK **LBG/LBGP**: LBGLSLA-FINISH-LBALK **LBX/LBXP**: LBXLSLA-FINISH-LBALK

Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

Refer to the Diffuser Lens Installation Instructions on the Lumenpulse website for information on installing the diffuser lenses.

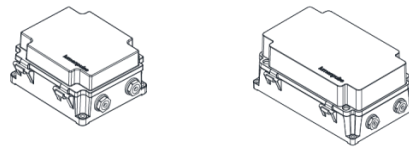
**Control Boxes (Order Separately)**

**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.



## Control Systems (Order Separately)

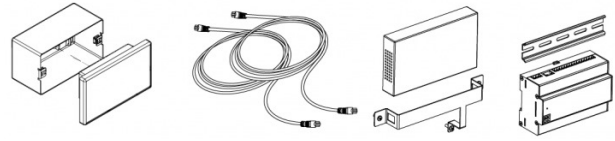
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### LTN2 - Lumentone™ 2



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)

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### 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



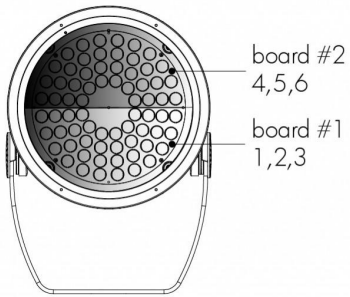
LumentalkID is a diagnostic and addressing tool. It must be specified for all Lumentalk (LT) applications. Consult LID-LT specification sheet for details.

**EPA Guide**

	<b>LBG</b> 	<b>LBG with snoot</b> 	<b>LBG with visor</b> 	<b>LBG with snoot wide</b> 
<b>EPA front (sq ft)</b>	1.117	1.117	1.117	1.800
<b>EPA side (sq ft)</b>	0.341	0.740	0.726	0.733

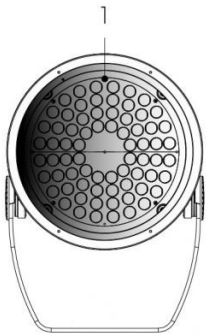
**Resolution Details**

**Resolution per Board: each Board is addressed independently**  
DMX addresses:



DMX/RDM control option

**Resolution per Fixture: each Fixture is addressed independently**  
DMX addresses:



DMX/RDM1 control option



DMX/RDM control option

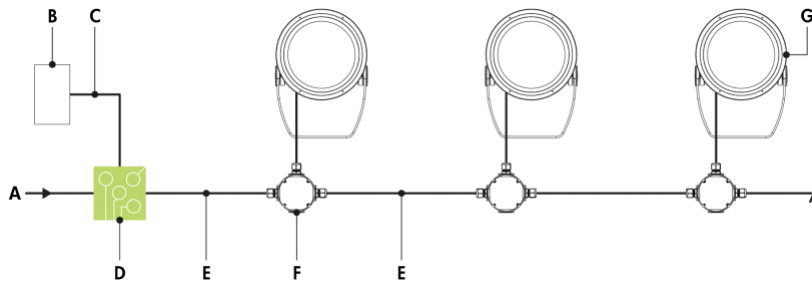
Fixture resolution can be configured on-site within the LumenID V3 software.

**Typical Wiring Diagrams**

**Wiring Color Code**

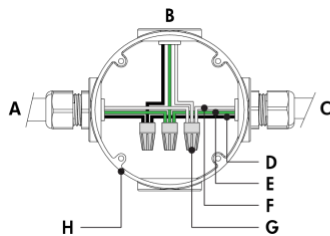
UL Color Code	USE
Green	Ground
Black	Line
White	Line/Neutral
Red or Purple	0-10V / Data +
Orange	0-10V / Data -
Gray	Signal common (DMX/RDM only)

**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** - Lumenbeam Grande

**Lumentalk (LT) - Wiring Detail**

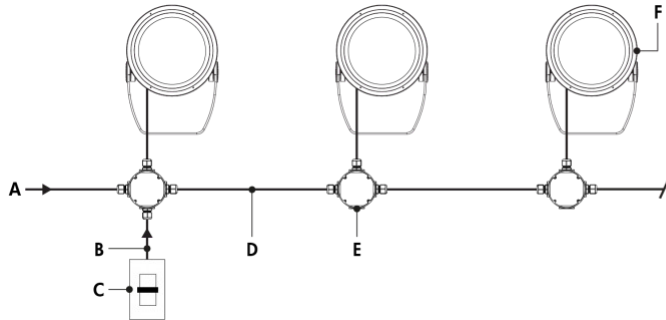


- A** - Power input (control over power line via Lumentalk system) or from previous fixture
- B** - To fixture
- C** - To next fixture
- D** - Line
- E** - Ground
- F** - Line/Neutral
- G** - Wire-nut (by others)
- H** - Junction box (by others)

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Lumentalk enabled fixtures must be commissioned using LumentalkID software and a LID-LT. Consult factory for details.
- Maximum of 1 transmitter (Lumentranslator or Lumenlink) per system.
- No third party fixtures allowed on the same circuit.
- 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.
- 70 to 104 watts per fixture, see Power Consumption table for details.

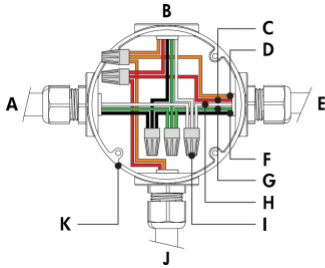
## Dim to Warm via 0-10V (DIM/DTW\*)

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



- A - Power input (100-277V AC, wiring by others)
- B - Data wiring (by others)
- C - Dimmer (by others)
- D - Power and data wiring (by others)
- E - Junction box (by others)
- F - Lumenbeam Grande

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

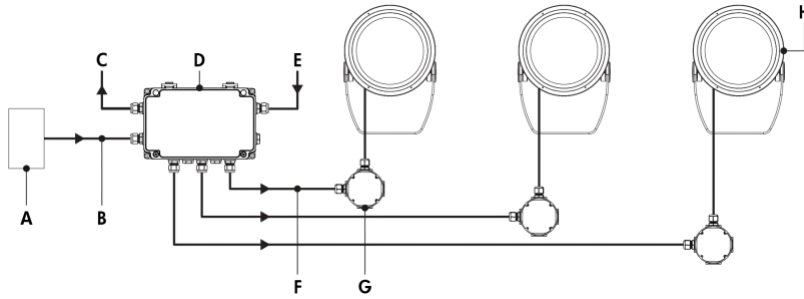


- A - Power input or from previous fixture
- B - To fixture
- C - 0-10 V +
- D - 0-10 V -
- E - To next fixture
- F - Line
- G - Ground
- H - Neutral
- I - Wire-nut (by others)
- J - From dimmer (by others)
- K - Junction box (by others)

- 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.
- 70 to 104 watts per fixture, see Power Consumption table for details.

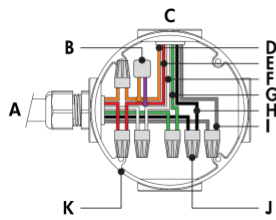
## Star Layout (Dim to Warm via DMX/RDM1\* or 3-channel DMX/RDM)

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



- 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 (100-277V AC, wiring by others)
- F** - Power and data output to fixture (by others)
- G** - Junction box (by others)
- H** - Lumenbeam Grande

## Star Layout (DMX/RDM1 or DMX/RDM) - Wiring Detail



- A** - From CBX
- B** - Lumenterminator
- C** - To fixture
- D** - Data -
- E** - Data +
- F** - Neutral
- G** - Ground
- H** - Line
- I** - Signal common
- J** - Wire-nut (by others)
- K** - Junction box (by others)

## Maximum Fixture Count Per Run

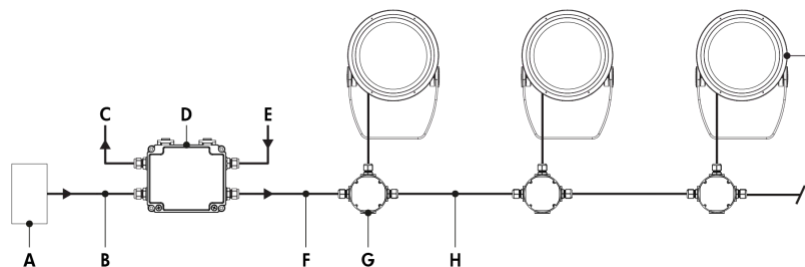
Configuration/Voltage	120V	208V	240V	277V
<b>LBG</b>	10	16	18	21

Based on 15A maximum, 16AWG cable, fixtures spaced 10 ft on center, first fixture 50 ft from CBX.

- Consult CBX installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run.
- Maximum of 4 DMX/RDM repeaters/CBX cascading in line.
- Maximum of 6 outputs per CBX-ST.
- DMX/RDM1 control option requires 1 DMX address. DMX/RDM control option requires 3 DMX addresses.
- DMX terminator is required at the end of each run to maintain data integrity. Six (6x) DMX lumenterminators included per CBX-ST. See installation instructions for details.
- 70 to 104 watts per fixture, see Power Consumption table for details.

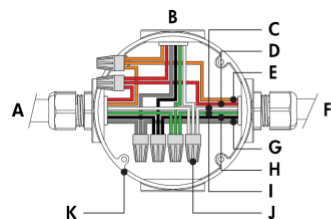
## Daisy Chain Layout (Dim to Warm Via DMX/RDM1\* or 3-channel DMX/RDM)

\*Available for DWW Version Only, 2700K to 2200K



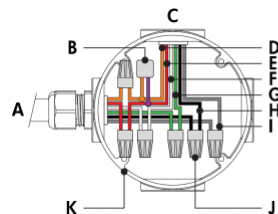
- A** - DMX/RDM controller (order separately from Lumenpulse, or by others)
- B** - Data input (Belden 9841 or equivalent, by others)
- C** - Data output to next CBX (optional, not isolated/not boosted)
- D** - CBX-DS
- E** - Power input (100-277V AC, wiring by others)
- F** - Power and data output to fixture (wiring by others)
- G** - Junction box (by others)
- H** - Power and data wiring (by others)
- I** - Lumenbeam Grande

## Daisy Chain Layout (DMX/RDM1 or DMX/RDM) - Wiring Detail (First or Middle of Run)



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

## Daisy Chain Layout (DMX/RDM1 or 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** - Signal common
- J** - Wire-nut (by others)
- K** - Junction box (by others)

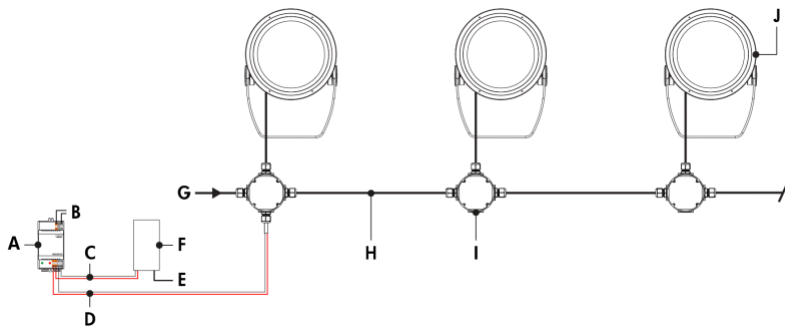
## Maximum Fixture Count Per Run

Configuration/Voltage	120V	208V	240V	277V
<b>LBG</b>	10	16	18	21

Based on 15A maximum, 16AWG cable, fixtures spaced 10 ft on center, first fixture 50 ft from CBX.

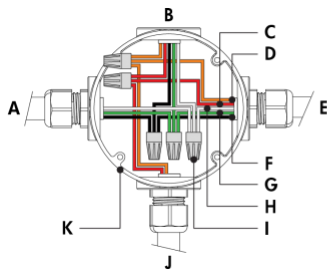
- Consult CBX installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run.
- Maximum of 4 DMX/RDM repeaters/CBX cascading in line.
- Maximum of 1 output per CBX-DS.
- Maximum of 3 ft cable length between fixture and next junction box for daisy chain layout.
- DMX/RDM1 control option requires 1 DMX address. DMX/RDM control option requires 3 DMX addresses.
- DMX terminator is required at the end of each run to maintain data integrity. Two (2x) DMX lumenterminators included per CBX-DS. See installation instructions for details.
- 70 to 104 watts per fixture, see Power Consumption table for details.

**DALI 2 T8 (DALIT8)**



- A** - DALI bus power supply (by others)
- B** - Power input for DALI bus power supply (wiring by others)
- C** - Data output to DALI controller (wiring by others)
- D** - Data output to fixture (wiring by others)
- E** - Power input for DALI controller (if required, wiring by others)
- F** - DALI controller (by others)
- G** - Power input (100-277V AC, wiring by others)
- H** - Power and data wiring (by others)
- I** - Junction box (by others)
- J** - Lumenbeam Grande

**DALI 2 T8 (DALIT8) - Wiring Detail**



- A** - Power input or from previous fixture
- B** - To fixture
- C** - DA +
- D** - DA -
- E** - To next fixture
- F** - Line
- G** - Ground
- H** - Neutral
- I** - Wire-nut (by others)
- J** - From DALI controller (by others)
- K** - Junction box (by others)

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Maximum of 64 DALI fixtures per DALI loop.
- The Lumenbeam responds to RGBWAF controls.
- Commissioning may be required based on the selection of 3rd party DALI controller. Controller and commissioning provided by others.
- 86 to 104 watts per fixture, see Power Consumption table for details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Maximum of 64 DALI fixtures per DALI loop.
- The Lumenbeam responds to RGBWAF controls.
- Commissioning may be required based on the selection of 3rd party DALI controller. Controller and commissioning provided by others.
- 70 to 104 watts per fixture, see Power Consumption table for details.

**How to Order**

Housing	Voltage	Color and Color Temperature	Optic1	Optic2	Optical Option <sup>(3)</sup> <sup>(5)</sup>
<b>LBG</b> Lumenbeam™ Grande	<b>100</b> 100 volts	<b>DWW</b> Dynamic warm white (2200K to 3000K)  <b>DWH</b> Dynamic white (2700K to 6500K)	<b>XN</b> Extra Narrow 5° <sup>(1)</sup>	<b>XN</b> Extra Narrow 5° <sup>(1)</sup>	<b>LSLH</b> Linear spread lens horizontal distribution <sup>(4)</sup>  <b>LSLV</b> Linear spread lens vertical distribution <sup>(4)</sup>
	<b>120</b> 120 volts		<b>VN</b> Very Narrow 6° <sup>(1)</sup>	<b>VN</b> Very Narrow 6° <sup>(1)</sup>	
	<b>208</b> 208 volts		<b>NS</b> Narrow Spot 10° <sup>(1)</sup>	<b>NS</b> Narrow Spot 10° <sup>(1)</sup>	
	<b>220</b> 220 volts		<b>NF</b> Narrow Flood 20° <sup>(1)</sup>	<b>NF</b> Narrow Flood 20° <sup>(1)</sup>	
	<b>240</b> 240 volts		<b>M</b> Medium 30° <sup>(1)</sup>	<b>M</b> Medium 30° <sup>(1)</sup>	
	<b>277</b> 277 volts		<b>FL</b> Flood 40° <sup>(1)</sup>	<b>FL</b> Flood 40° <sup>(1)</sup>	
		<b>WFL</b> Wide Flood 60° <sup>(1)</sup> <sup>(2)</sup>	<b>WFL</b> Wide Flood 60° <sup>(1)</sup> <sup>(2)</sup>		
		<b>NAS</b> Narrow Asymmetric <sup>(1)</sup>	<b>NAS</b> Narrow Asymmetric <sup>(1)</sup>		
		<b>WW</b> Asymmetric Wallwash <sup>(1)</sup>	<b>WW</b> Asymmetric Wallwash <sup>(1)</sup>		

**Notes:**

- 1. Factory installed, not interchangeable on site.
- 2. Cannot be combined with other optics.
- 3. Optical options are factory installed and cannot be changed in the field.
- 4. Field adjustable spread lens optical accessory available, order separately.
- 5. Not available with WFL, NAS and WW optics.



**How to Order**

Finish	Control	Option	Certification	Cable Length <sup>(13)</sup> <sup>(18)</sup>	Cable Color	Buy American Act
<b>BK</b> Black Sandtex®	<b>LT</b> Lumentalk <sup>(9)</sup> <sup>(10)</sup>	<b>SY</b> Short Yoke	<b>UL</b> UL Compliant	<b>3FT</b> 3 ft <sup>(13)</sup> <sup>(18)</sup>	<b>BK</b> Black	<b>BAA</b> Buy American <sup>(19)</sup> <sup>(20)</sup>
<b>BRZ</b> Bronze Sandtex®	<b>DIM/DTW</b> Dim to Warm via 0-10V (2700K to 2200K) <sup>(11)</sup>	<b>3GV</b> 3G ANSI C136.31-2010 Vibration Rating for bridge applications	<b>CE</b> CE Compliant <sup>(17)</sup>	<b>10FT</b> 10 ft	<b>WH</b> White <sup>(19)</sup>	
<b>SI</b> Silver Sandtex®	<b>DMX/RDM1</b> Dim to Warm via single- channel DMX/RDM (2700K to 2200K) <sup>(11)</sup> <sup>(12)</sup> <sup>(13)</sup>	<b>CRC</b> Corrosion-resistant coating <sup>(15)</sup> <sup>(14)</sup>	<b>CEII</b> CE compliant Class II double insulated <sup>(17)</sup>	<b>20FT</b> 20 ft		
<b>WH</b> Smooth White				<b>30FT</b> 30 ft		
<b>BKTX</b> Textured Black	<b>DMX/RDM</b> 3-channel color temperature control via DMX/RDM <sup>(12)</sup> <sup>(13)</sup>			<b>50FT</b> 50 ft		
<b>BRZTX</b> Textured Bronze Non- Metallic				<b>70FT</b> 70 ft		
<b>GRATX</b> Textured Medium Gray	<b>DALI8</b> DALI 2 T8 control <sup>(14)</sup>			<b>100FT</b> 100 ft		
<b>GRNTX</b> Textured Green						
<b>WHTX</b> Textured White						
<b>CC</b> Custom Color & Finish <sup>(6)</sup> <sup>(7)</sup> <sup>(8)</sup>						

**Notes:**

- 6. 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.
- 7. Setup charges apply for RAL colors. Consult factory for details.
- 8. Longer lead times can be expected for custom RAL color finishes.
- 9. A Lumentranslator 2 (LTL2) and LumentalkID (LIDL1) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.
- 10. Not available with Class II double insulated option.
- 11. Available for DWW color temperature option only.

- 12. A control box (CBX) and LumenID (LID) must be specified.
- 13. Maximum of 3 ft cable length for daisy chain DMX applications with CBX-DS.
- 14. DALI 2 T8 controller required, provided by others. DALI2 T8 control uses a single DALI short address.
- 15. Use only when exposed to salt spray. This option is not required for normal outdoor exposure.
- 16. Setup charges apply. Consult factory for details.
- 17. Consult European specification sheets and installation instructions for CE and CE Class II wiring information.
- 18. 3 ft cable length is standard unless otherwise specified.
- 19. Not available with CE or CEII certification options.
- 20. Contact your Lumenpulse Sales Representative for more information on order volume details.