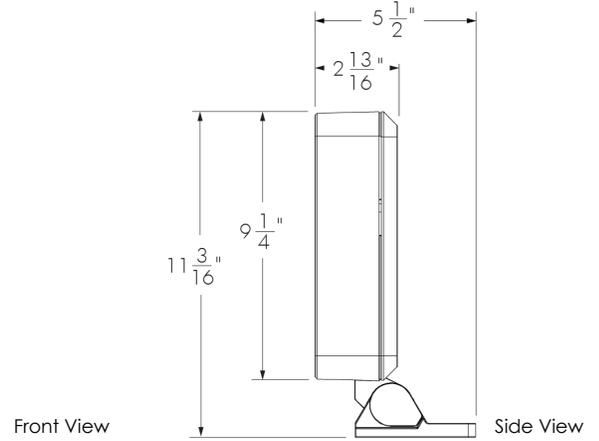
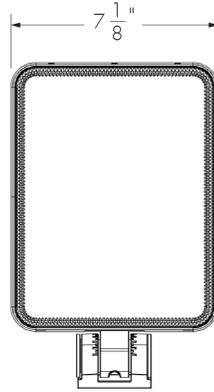


Project Name \_\_\_\_\_ Qty \_\_\_\_\_

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



**Photometric Summary (Discrete RGBW40K)**

**Symmetric**

	Delivered output (lm)	Intensity (peak cd)
<b>VN (6°)</b>	1,572	76,932
<b>NS (10°)</b>	1,533	54,810
<b>NF (20°)</b>	1,411	11,384
<b>M (30°)</b>	1,356	6,270
<b>FL (40°)</b>	1,294	3,500
<b>WFL (60°)</b>	1,142	892

**Asymmetric**

<b>NAS</b>	1,442	23,041 (@2.5°)
<b>WW</b>	1,290	5,877 (@5°)

1. Based on RGBW40K full output.

2. Photometric performance is measured in compliance with IESNA LM-79-24.

3. Refer to the [Lumenquad Color Changing Photometric Guide](#) on Lumenpulse website for information on other color temperatures.

**Photometric Summary (Opticolor+ MRGBWP)**

**Symmetric**

	Delivered output (lm)	Intensity (peak cd)
<b>NS (10°)</b>	1,158	22,488
<b>NF (20°)</b>	1,090	7,161
<b>M (30°)</b>	1,070	4,026
<b>FL (40°)</b>	1,107	2,959
<b>WFL (60°)</b>	1,089	1,112
<b>VWFL(90°)</b>	972	495

1. Based on MRGBWP full output, white set to 3000K.

2. Photometric performance is measured in compliance with IESNA LM-79-24.

3. Refer to the [Lumenquad Color Changing Photometric Guide](#) on Lumenpulse website for information on other color temperatures.

**Description**

The Lumenquad Medium Color Changing has a sleek 2 7/8 in profile with no visible wiring or hardware and seamlessly integrates with any architecture while also applying dynamic colour. Lumenpulse's LED boards possess an optimised candela and lumens recipe for both Narrow and Wide optics. The Lumenquad Large Color Changing is the epitome of versatility and can be configured with numerous optical, color mixing choices, mounting options, accessories, controls, and multiple standard finishes.

**Features**

**Colors and Color Temperature (Discrete)**

**RGBA:** Discrete Red, Green Blue, Amber  
**RGBW30K:** Discrete Red, Green, Blue, White 30K  
**RGBW40K:** Discrete Red, Green, Blue, White 40K  
**RGB:** Discrete Red, Green, Blue

**Colors and Color Temperature (Opticolor™)**

**MRGBA:** Opticolor® Mix-at-Source Red, Green, Blue, PC Amber

**Colors and Color Temperature (Opticolor+®)**

**MRGBWP:** Opticolor+® Mix-at-Source Red, Green, Blue Plus White Settable Range 24K to 65K  
**MRGBWP Typical Color Rendering:**  
 2700K-5000K: 90+ CRI  
 2500K-6500K: 80+ CRI  
**MRGROYWP:** Opticolor+® Mix-at-Source Red, Green, Royal Blue Plus White Settable Range 24K to 65K

**Optics (Nominal Distribution)**

**VN:** VN (6°)  
**NS:** NS (10°)  
**NF:** NF (20°)  
**M:** M (30°)  
**FL:** FL (40°)  
**WFL:** WFL (60°)  
**VWFL:** VWFL (90°)  
**NAS:** NAS (Narrow Asymmetric)  
**WW:** WW (Asymmetric Wallwash)

**Photometric Summary (Opticolor MRGBA)**

**Symmetric**

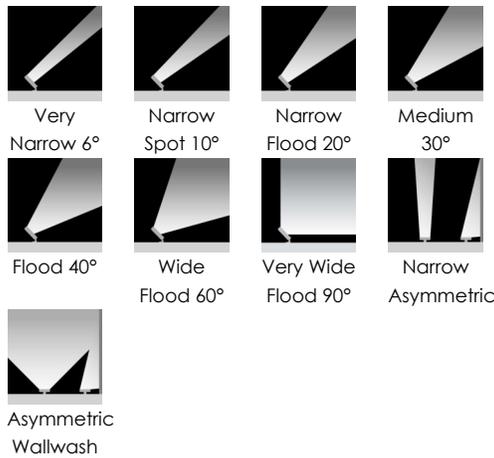
	Delivered output (lm)	Intensity (peak cd)
<b>NS (10°)</b>	1,139	22,105
<b>NF (20°)</b>	1,071	7,040
<b>M (30°)</b>	1,052	3,957
<b>FL (40°)</b>	1,088	2,908
<b>WFL (60°)</b>	1,070	1,093
<b>VWFL(90°)</b>	955	486

1. Based on MRGBA full output.

2. Photometric performance is measured in compliance with IESNA LM-79-24.

3. Refer to the [Lumenquad Color Changing Photometric Guide](#) on Lumenpulse website for information on other color temperatures.

**Optic**



**Mounting Options**

- SM:** Surface Mount
- WM:** Wall Mount Bracket with Decorative Cover
- WMNC:** Wall Mount Bracket without Decorative Cover
- RJBOX:** Recessed JBOX Wall Mount with Decorative Cover
- RJBOXNC:** Recessed JBOX Wall Mount Without Decorative Cover
- PM:** Pole Mount
- TN:** Tenon Mount
- SK:** Stake Mount
- STM:** Stud mount

**Optical Options (Factory Installed)**

- LSLV:** Linear Spread Lens Vertical Distribution
- LSLH:** Linear Spread Lens Horizontal Distribution
- HL:** Honeycomb Louver

**Option**

**CRC:** Corrosion-Resistant Coating for Hostile Environments

**Power Consumption**

28 W (RGB, RGBW30K, RGBW40K, RGBA), 25W (MRGBA, MRGBWP and MRGROYWP)

**Warranty**

5-year limited warranty

**Performance**

**Maximum Delivered Output (Discrete)**  
 1,598 lm (RGB full output, VN 6°, DMX/RDM)  
 1,540 lm (RGBW30K full output, VN 6°, DMX/RDM)  
 1,572 lm (RGBW40K full output, VN 6°, DMX/RDM)  
 1,284 lm (RGBA full output, VN 6°, DMX/RDM)

**Maximum Delivered Output (Opticolor)**  
 1,139 lm (MRGBA full output, NS 10°, DMX/RDM)

**Maximum Delivered Output (Opticolor+)**  
 1,158 lm (MRGBWP full output, NS 10°, DMX/RDM)

**Maximum Delivered Intensity (Discrete)**  
 76,667 cd at nadir (RGB full output, VN 6°, DMX/RDM)  
 75,393 cd at nadir (RGBW30K full output, VN 6°, DMX/RDM)  
 76,932 cd at nadir (RGBW40K full output, VN 6°, DMX/RDM)  
 62,853 cd at nadir (RGBA full output, VN 6°, DMX/RDM)

**Maximum Delivered Intensity (Opticolor)**  
 22,105 cd at nadir (MRGBA full output, NS 10°, DMX/RDM)

**Maximum Delivered Intensity (Opticolor+)**  
 22,488 cd at nadir (MRGBWP full output, NS 10°, DMX/RDM)

**Illuminance at Distance (Discrete)**  
 Minimum 1 fc at 278 ft (RGB full output, VN 6°, DMX/RDM)  
 Minimum 1 fc at 276 ft (RGBW30K full output, VN 6°, DMX/RDM)  
 Minimum 1 fc at 279 ft (RGBW40K full output, VN 6°, DMX/RDM)  
 Minimum 1 fc at 252 ft (RGBA full output, VN 6°, DMX/RDM)

**Illuminance at Distance (Opticolor)**  
 Minimum 1 fc at 149 ft (MRGBA full output, NS 10°, DMX/RDM)

**Illuminance at Distance (Opticolor+)**  
 Minimum 1 fc at 150 ft (MRGBWP full output, NS 10°, DMX/RDM)

**Lumen Maintenance**

L70 (15K) > 90,000 hrs Ta 25 °C (TM-21 reported)  
 L70 > 150,000 hrs Ta 25 °C (projected)\*  
 L90 (15K) = 55,400 hrs Ta 25 °C (TM-21 reported)  
 L90 = 55,400 hrs Ta 25 °C (projected)\*  
 \*Estimated based on in-situ case temperature and LM-80 report

**Color and Color Temperature**



**opticolor+®**

Opticolor®  
Mix-at-Source  
Red, Green,  
Blue Plus White  
Settable  
Range 24K to  
65K



**opticolor™**

Opticolor®  
Mix-at-Source  
Red, Green,  
Blue, PC  
Amber



**RGBA**  
Red Green Blue Amber

Discrete Red,  
Green Blue,  
Amber



**RGBW**  
Red Green Blue White  
30K

Discrete Red,  
Green, Blue,  
White 30K



**RGBW**  
Red Green Blue White  
40K

Discrete Red,  
Green, Blue,  
White 40K



**RGB**  
Red Green Blue

Discrete Red,  
Green, Blue



**opticolor+™**

Opticolor®  
Mix-at-Source  
Red, Green,  
Royal Blue Plus  
White Settable  
Range 24K to  
65K

**Control**



DMX/RDM



**Ratings**

IP66    IK10

**Certifications**







**Physical**

<b>Housing Material</b>	Low copper content high pressure die-cast aluminum
<b>Lens Material</b>	Clear tempered glass
<b>Hardware Material</b>	Stainless steel
<b>Gasket Material</b>	Silicone
<b>Surface Finish</b>	Electrostatically applied polyester powder coat
<b>Weight</b>	8.58 lbs
<b>EPA</b>	Front = 0.58 ft², Side = 0.26 ft², Front 45°= 0.56 ft²

**Electrical and Control**

<b>Voltage</b>	120-277 Volts
<b>Fixture Cable</b>	Power and data in one cable
<b>Conductors</b>	6C #14-3/ #24-3 (DMX/RDM control) 5C #16-5 (DALI8 control)
<b>Control</b>	DMX/RDM Enabled, DALI 2 T8 Enabled Dimming 0.1%, Lumentalk system is enabled with LDB accessory - see typical wiring diagrams for details
<b>Resolution (DMX/RDM)</b>	Per fixture, 8-bit or 16-bit, 3 channels (RGB) or 4 channels (RGBW30K, RGBW40K, RGBA, MRGBA, MRGBWP and MRGROYWP)

**Environmental**

<b>Storage Temperature</b>	-40 °F to 158 °F (device must reach start-up temperature value before operating)
<b>Start-up Temperature</b>	-13 °F to 122 °F
<b>Operating Temperature</b>	-40 °F to 122 °F
<b>Ingress Protection Rating</b>	IP66 Wet location rated
<b>Impact Resistance Rating</b>	IK10
<b>Application Wind Speed</b>	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, 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), Lumentalk Data Bridge
<b>Control Systems</b>	Pharos® Designer Lighting Control Kit (PHAROS), Pharos® Expert Control Kit (EXPERT)
<b>Diagnostic and Addressing Tools</b>	LumenID (LID)

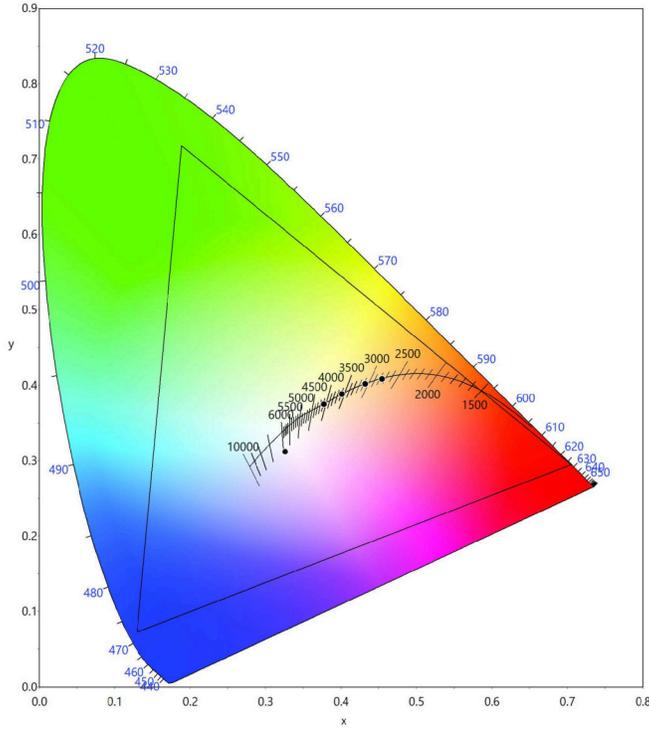
**Important**

**Virtual Patent Marking Notice**

This website (<https://www.lmpg.com/patents-trademarks>) is provided to satisfy the virtual patent marking provisions of applicable jurisdictions. Some products listed may be covered by additional patents not referenced here.

**Color Point Information**

**MRGBWP**



**Dominant Wavelength and Chromaticity**

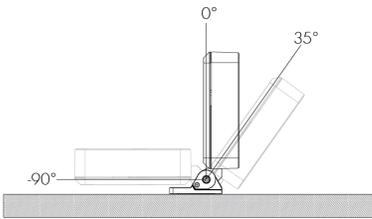
	Dominant Wavelength	Chromaticity	
		Cx	Cy
<b>Red</b>	~628nm	0.7050	0.2949
<b>Green</b>	~531nm	0.1885	0.7178
<b>Blue</b>	~471nm	0.1298	0.0726
<b>Amber</b>	~591nm	0.5755	0.4126

	Cx	Cy
<b>MRGBWP Full On</b>	0.3261	0.3121
<b>27K Optidrive</b>	0.4545	0.4081
<b>30K Optidrive</b>	0.4318	0.4017
<b>35K Optidrive</b>	0.4010	0.3883
<b>40K Optidrive</b>	0.3773	0.3747

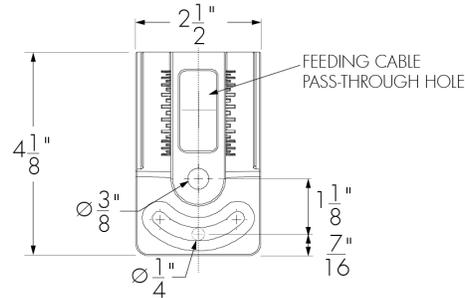
Values measured from Steady State Full on Optidrive @ 25°C ambient conditions.

**Mounting Options**

**SM - Surface Mount**

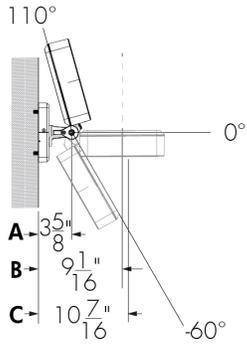


**SM - Mounting Hole Pattern**

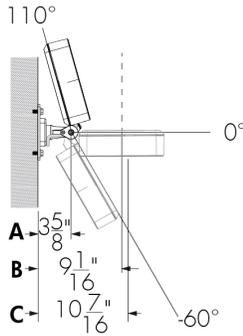


The SM mounting option cannot be interchanged with any other mounting option. All other mountings are interchangeable. Consult factory for details.

**WM - Wall Mount Bracket with Decorative Cover**

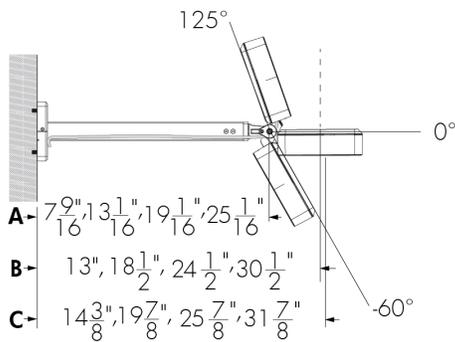


**WMNC - Wall Mount Bracket Without Decorative Cover**

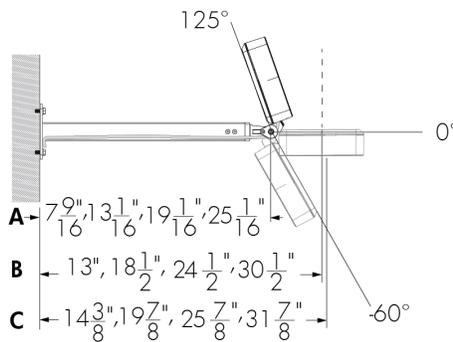


- A** - Dimension from wall to pivot.
- B** - Dimension from wall to the geometric center of the fixture.
- C** - Dimension from wall to the center of the board.

**WAM - Wall Mount Bracket With Decorative Cover  
6 in, 12 in, 18 in or 24 in**



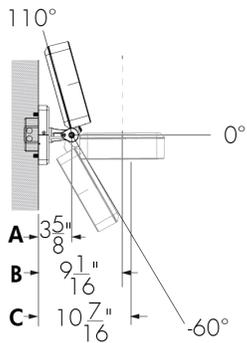
**WAMNC - Wall Mount Bracket Without Decorative Cover  
6 in, 12 in, 18 in or 24 in**



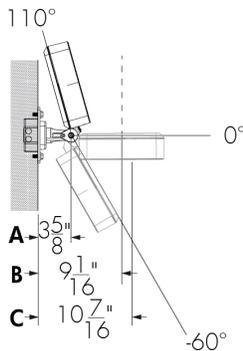
A cable length of 10 ft or greater must be specified for the WAM24 mounting option.

A cable length of 10 ft or greater must be specified for the WAM24 mounting option.

**WMRJB - Recessed JBOX Wall Mount With Decorative Cover**



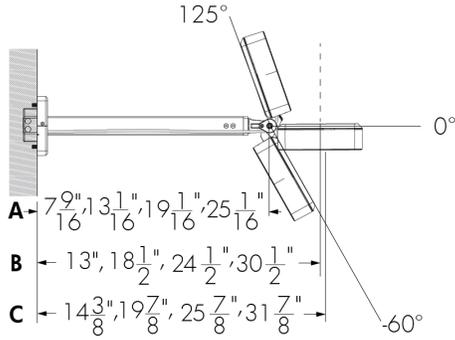
**WMRJBNC - Recessed JBOX Wall Mount Without Decorative Cover**



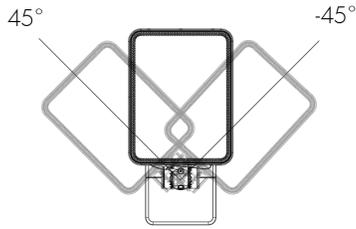
Fixture cable length is determined by Lumenpulse.

Fixture cable length is determined by Lumenpulse.

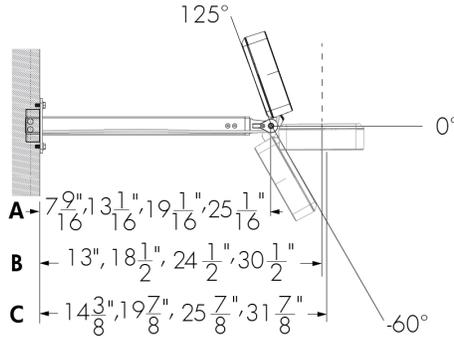
**WAMRJB - Recessed JBOX Wall Arm Mount With  
Decorative Cover 6 in, 12 in, 18 in or 24 in**



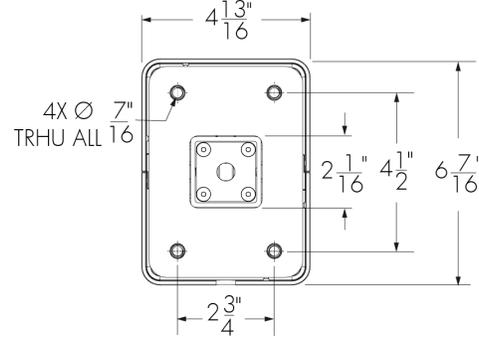
**Wall Mount Horizontal Pivot Limits**



**WAMRJBNC - Recessed JBOX Wall Arm Mount  
Without Decorative Cover 6 in, 12 in, 18 in or 24 in**



**WM, WAM, WMRJB and WAMRJB - Mounting Hole  
Pattern**

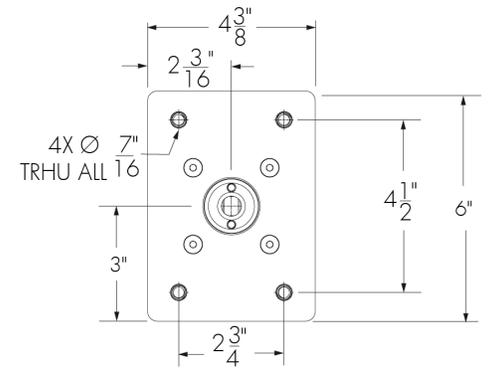


**A** - Dimension from wall to pivot.

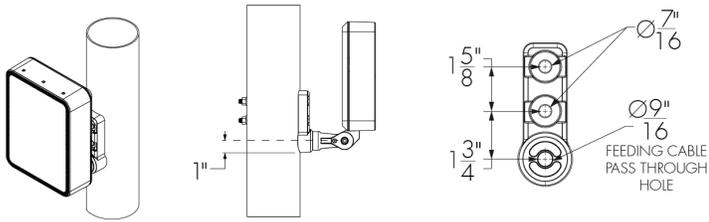
**B** - Dimension from wall to the geometric center of the fixture.

**C** - Dimension from wall to the center of the board.

**WMNC, WAMNC, WMRJBNC and WAMRJBNC -  
Mounting Hole Pattern**



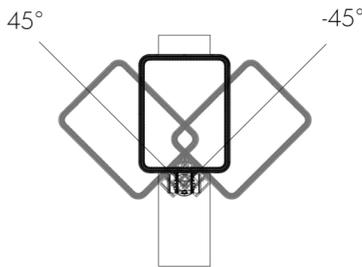
RPM4/1, RPM4.5/1, RPM5/1 - Round Pole Mount



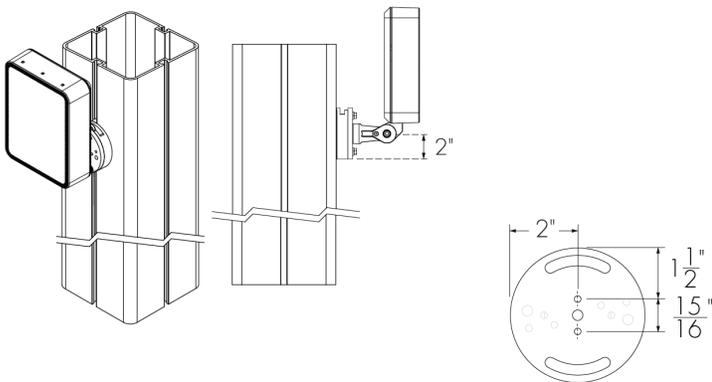
	RPM4/1	RPM4.5/1	RPM5/1
<b>For pole Ø</b>	4" ± 1/16	4.5" ± 1/16	5" ± 1/16
<b>Bolt length</b>	5 1/4"	5 3/4"	6 1/4"

Consult factory for other pole diameters.  
Hardware included with accessory.

Round Pole Mount Horizontal Pivot Limits



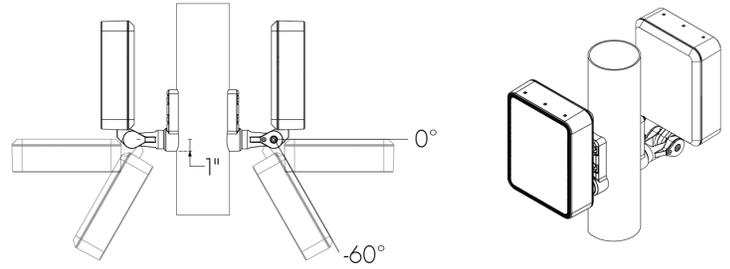
PLTU - Universal Yoke



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

All mounting options (except for SM mounting) are interchangeable. Consult factory for details.

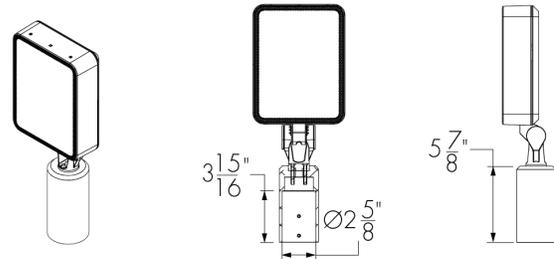
RPM4/2, RPM4.5/2, RPM5/2 - Round Pole Mount For Two Fixtures



	RPM4/2	RPM4.5/2	RPM5/2
<b>For pole Ø</b>	4" ± 1/16	4.5" ± 1/16	5" ± 1/16
<b>Bolt length</b>	5 3/4"	6 1/4"	7"

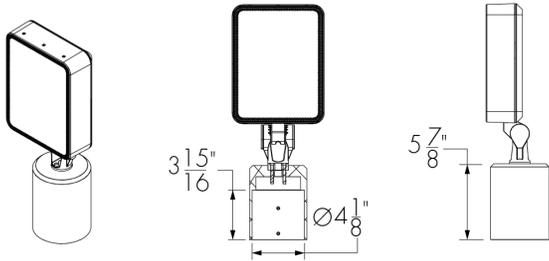
Consult factory for other pole diameters.  
Hardware included with accessory.

TN2 - Tenon Adapter For 2 3/8 in O.D. Pole



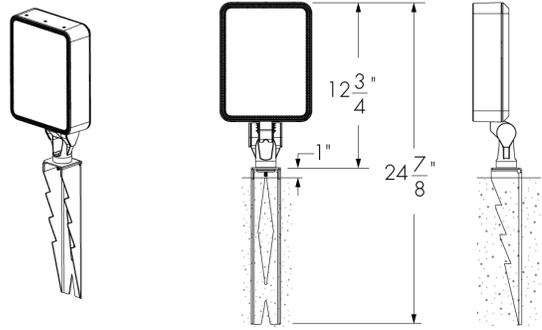
Vertical mounting only. Consult factory for horizontal mounting.

**TN4 - Tenon Adapter For 4 in O.D. Pole**

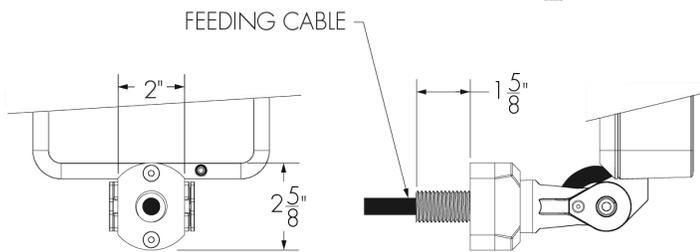
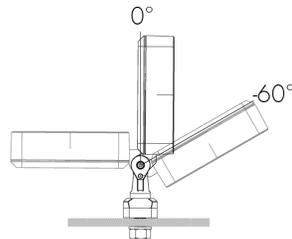
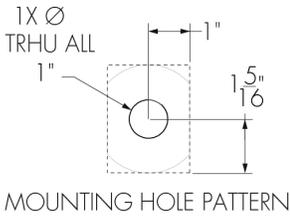
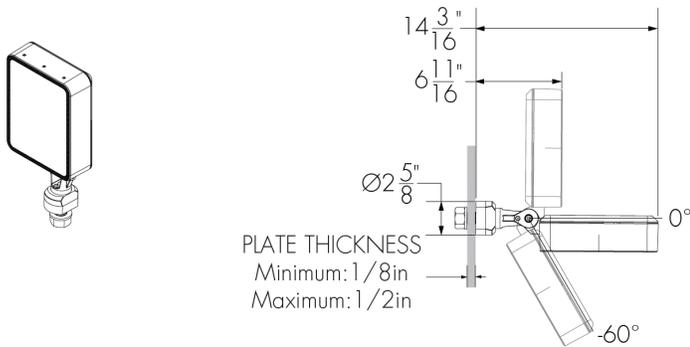


Vertical mounting only. Consult factory for horizontal mounting.

**SK - Stake Mount**



**STM - Stud Mount**



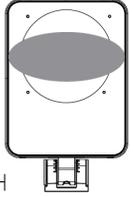
DETAILS

Vertical or horizontal mounting

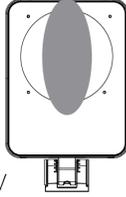
All mounting options (except for SM mounting) are interchangeable. Consult factory for details.

**Optical Options – Discrete**

LSLH - Linear Spread Lens Horizontal Distribution  
LSLV - Linear Spread Lens Vertical Distribution



LSLH



LSLV

Factory installed, not adjustable on site. Not available for WFL, VWFL, NAS and WW optics.

See 'Optical Accessories' section for field adjustable spread lens (LSLA).

	Beam angle with LSLH/LSLV
<b>VN</b>	7° x 60°
<b>NS</b>	13° x 60°
<b>NF</b>	18° x 65°
<b>M</b>	25° x 66°
<b>FL</b>	35° x 70°

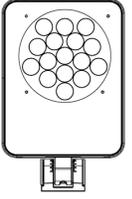
LLF: 0.88\*

\*LLF may vary slightly by distribution chosen.

**HL - Honeycomb Louver**



RGB



RGBW  
RGBA

Factory installed, not adjustable on site. HL not available for WFL, VWFL, NAS and WW optics.

The addition of a honeycomb louver will affect beam distribution. Consult factory for application support.

LLF: 0.90\*

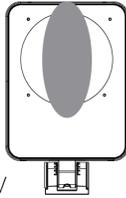
\*LLF may vary slightly by distribution chosen.

**Optical Options - Opticolor™ and Opticolor+**

LSLH - Linear Spread Lens Horizontal Distribution  
LSLV - Linear Spread Lens Vertical Distribution



LSLH



LSLV

Factory installed, not adjustable on site. Not available for WFL, VWFL, NAS and WW optics.

See 'Optical Accessories' section for field adjustable spread lens (LSLA).

Optic installed in fixture	Beam angle with LSLH/LSLV
<b>NS</b>	11° x 61°
<b>NF</b>	19° x 66°
<b>M</b>	26° x 70°
<b>FL</b>	31° x 71°

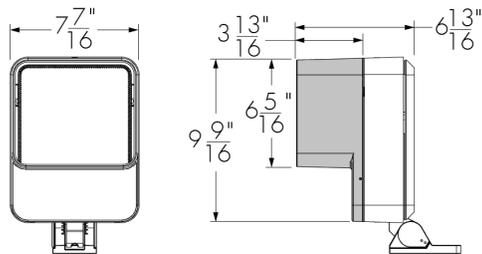
LLF: 0.88\*

\*LLF may vary slightly by distribution chosen.

**Optical Accessories (Factory Installed, Order Separately)**

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

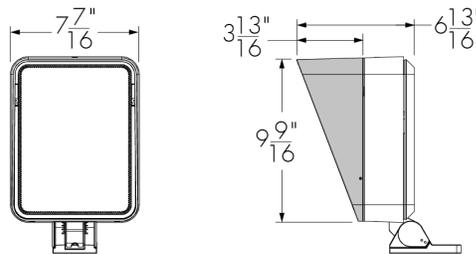
**SN - Snoot**



**LQMSN-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**

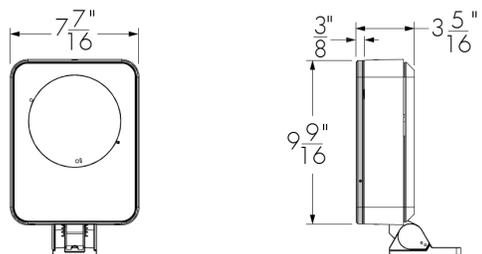


**LQMVS-FINISH-BK-OPTIONS (CRC)**

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

The Visor is not recommended for the WW optic.

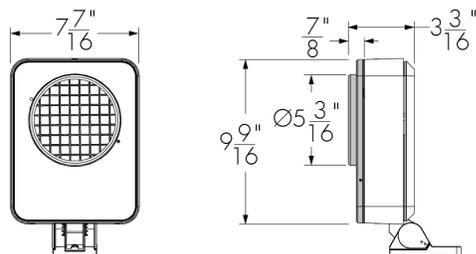
**LSLA - Linear Spread Lens Adjustable**



**LQMLSLA-FINISH-OPTIONS (CRC)**

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

**WG - Wire Guard**



**LQMWG-FINISH-OPTIONS (CRC)**

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

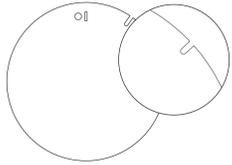
**Accessory Combinations**

	+	Snoot	Visor	Wire guard
Linear spread lens adjustable		YES	YES	NO
Wire guard		YES	YES	N/A

Accessory combinations must be ordered together on a single line. Ex: A snoot + wire guard combination order code is LQMSNWG-BK-BK. A maximum of two accessories can be combined per fixture

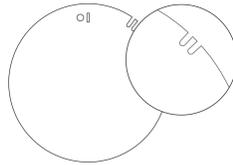
**Diffuser Lenses (Intended for Mockup Purposes Only, Order Separately)**

**Diffuser Lens 1 (1 Notch)**



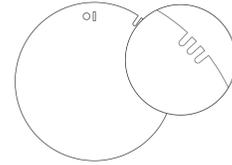
147701

**Diffuser Lens 2 (2 Notches)**



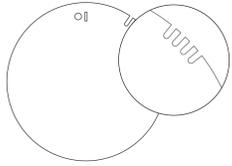
147702

**Diffuser Lens 3 (3 Notches)**



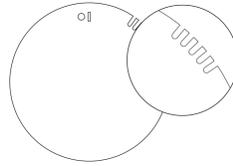
147703

**Diffuser Lens 4 (4 Notches)**



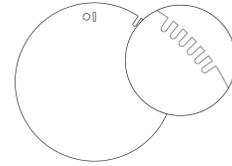
147704

**Diffuser Lens 5 (5 Notches)**



147705

**Diffuser Lens 6 (6 Notches)**



147706

**Final Distribution Using Diffuser Lenses**

**Final Distribution Using Diffuser Lens**

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		NF	M	FL	WFL
NS (10°)						
NF (20°)						
M (30°)				FL	WFL	
FL (40°)						
WFL (60°)						VWFL
VWFL (90°)						

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: **LQS:** LQALK-S **LQM:** LQALK-M **LQL:** LQALK-L **LQG:** LQALK-G

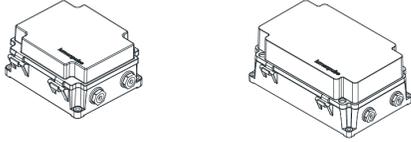
The diffuser lenses are intended for mockup purposes only. A lens holder is required to install a diffuser lens on the fixture, order separately using the following names: **LQS:** LQSLSLA-FINISH-LQALK **LQM:** LQMLSLA-FINISH-LQALK **LQL:** LQLLSLA-FINISH-LQALK **LQG:** LQGLSLA-FINISH-LQALK

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.

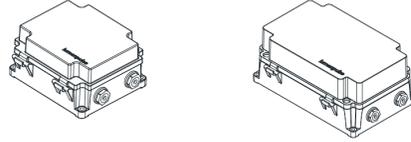
**Control Boxes (Order Separately)**

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



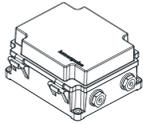
DMX/RDM control box. Up to six power and data outputs to fixtures or fixture runs. Consult CBX specification sheet and installation instructions for details. Lumenterminators provided with CBX (2x for Daisy Chain configuration, 6x for Star configuration), consult factory to order spares.

**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.

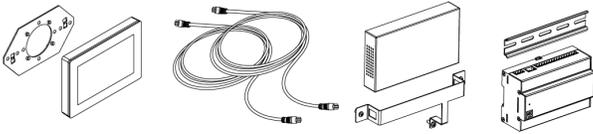
**LDB - Lumentalk Data Bridge**



Lumentalk Data Bridge, 0-10V or DMX output. Consult LDB specification sheet for details.

**Control Systems (Order Separately)**

**PHAROS - Pharos® Designer Lighting Control Kit**



The Pharos Designer Lighting Control Kit, available for 1 or 2 DMX universes, allows for complete control of large lighting installations.

**EXPERT - Pharos® Expert Control Kit**



The Pharos Expert Control Kit, available for 1, 2, 4 or 6 DMX universes, allows for complete control of large lighting installations.

**Diagnostic And Addressing Tools (Order Separately)**

**LID - LumenID**



The updated LumenID (LID) is an all-in-one diagnostic and addressing solution for both DMX/RDM and Lumentalk (LT) systems. Engineered for versatility, it streamlines commissioning and troubleshooting across protocols—no need for multiple tools. Cable option may vary; please consult factory. For complete details, refer to the LID specification sheet.

**EPA Guide**

	FIXTURE			MOUNTING OPTIONS*			
	LQM	LQM with Snoot	LQM with Visor	WAM/WAMRJB			
							
				6	12	18	24
<b>EPA Front (sq ft)</b>	0.581	0.732	0.732	N/A	N/A	N/A	N/A
<b>EPA Side (sq ft)</b>	0.258	0.484	0.484	0.134	0.287	0.440	0.593
<b>EPA Front 45° (sq ft)</b>	0.560	0.861	0.861	N/A	N/A	N/A	N/A

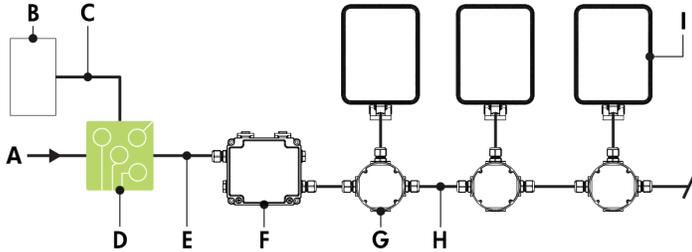
\*Mounting arm only. Fixture EPA calculation must also be considered.

## Typical Wiring Diagrams

### Wiring Color Code

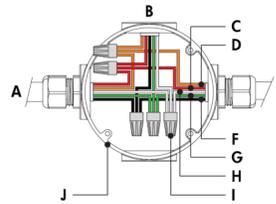
UL Color Code	USE
Green	Ground
Black	Line 120-277V AC
White	Line/Neutral
Red or Purple	0-10V / Data +
Orange	0-10V / Data -
Gray	Signal common (DMX/RDM only)

### Lumentalk (LT) RGB-RGBW30K-RGBW40K-RGBA



- A** - Power input (120-277V 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** - Lumentalk Data Bridge (LDB-DMX)
- G** - Junction box (by others)
- H** - Power and data wiring (by others)
- I** - Lumenquad Medium

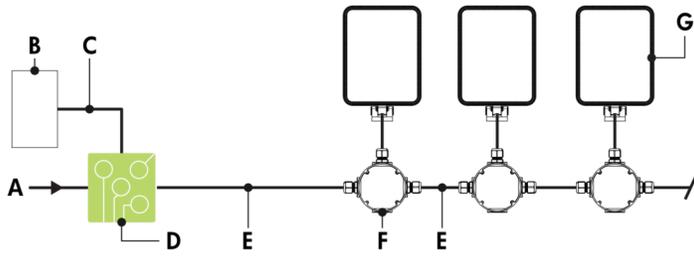
### Lumentalk (LT) - Wiring Detail Using LDB



- A** - From Lumentalk Data Bridge (control over power line via Lumentalk system) or from previous fixture
- B** - To fixture
- C** - 0-10 V + / Data +
- D** - 0-10 V - / Data -
- E** - To next fixture
- F** - Line
- G** - Ground
- H** - Line/Neutral
- I** - Wire-nut (by others)
- J** - Junction box (by others)

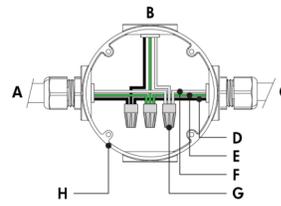
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Lumentalk Data Bridge required for Lumentalk system, see LDB installation instructions for details. Fixtures must be specified as DMX/RDM and the Lumentalk Data Bridge must be specified as DMX. 2-step commissioning process: 1 - DMX/RDM system using LumenID software and a LID, 2 - Lumentalk system using LumentalkID software and a LID. 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.
- 28 watts per fixture (RGB, RGBW30K, RGBW40K, RGBA).

**Lumentalk (LT) MRGBA-MRGBWP-MRGROYWP**



- A** - Power input (120-277V 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** - Lumenquad Medium

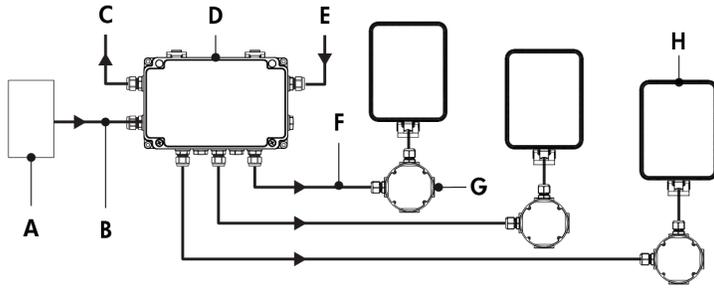
**Lumentalk (LT) - Wiring Detail**



- 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)

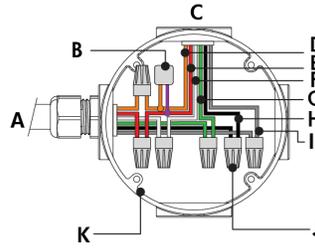
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Lumentalk enabled fixtures must be commissioned using LumentalkID software and a LID. Consult factory for details.
- Maximum of 1 transmitter (Lumentranslator or Lumenlink) per system.
- No third party 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.
- 25 watts per fixture (MRGBA, MRGBWP and MRGROYWP).

**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** - Power and data output to fixture (wiring by others)
- G** - Junction box (by others)
- H** - Lumenquad Medium

**Star Layout (DMX/RDM) - Wiring Detail**



- 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-nuts (by others)
- K** - Junction box (by others)

**Maximum Fixture Count**

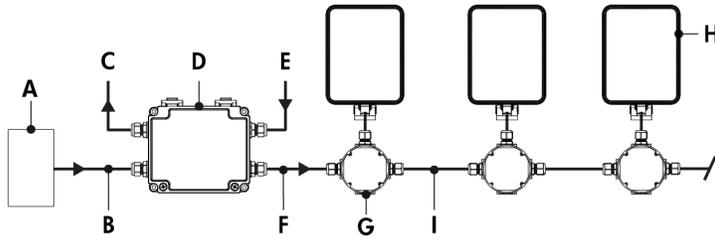
Maximum number of fixtures per run (Based on 15A maximum, 16AWG cable, fixtures spaced 10ft on center, first fixture 50ft from CBX)

Configuration/Voltage	120V	208V	240V	277V
<b>LQM</b>	29	32	32	32

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.
- RGB color mixture option requires 3 DMX addresses. RGBW30K, RGBW40K, RGBA, MRGBA, MRGBWP and MRGROYWP color mixture options require 4 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.
- 28 watts per fixture (RGB, RGBW30K, RGBW40K, RGBA), 25 watts per fixture (MRGBA, MRGBWP and MRGROYWP).

**Daisy Chain Layout (DMX/RDM)**



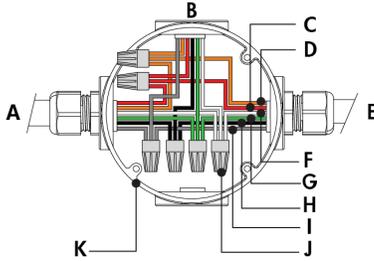
- A - DMX/RDM controller (order separately from Lumenpulse, or by others)
- B - Data input (Belden 9841 or equivalent, by others)
- C - Data output to next CBX (optional, not isolated/not boosted)
- D - CBX-DS
- E - Power input (120-277V, wiring by others)
- F - Power and data output to fixture (wiring by others)
- G - Junction box (by others)
- H - Lumenquad Medium
- I - Power and data wiring (by others)

**Maximum Fixture Count**

Maximum number of fixtures per run (Based on 15A maximum, 16AWG cable, fixtures spaced 10ft on center, first fixture 50ft from CBX)

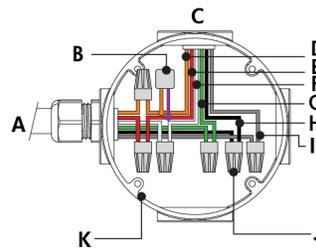
Configuration/Voltage	120V	208V	240V	277V
<b>LQM</b>	29	32	32	32

**Daisy Chain Layout (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 fixture
- F - Neutral
- G - Line
- H - Ground
- I - Signal common
- J - Wire-nuts (by others)
- K - Junction box (by others)

**Daisy Chain Layout (DMX/RDM) - Wiring Detail (End of Run)**

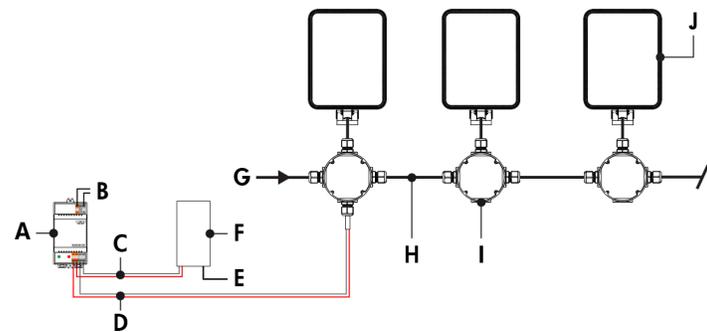


- A - From CBX or previous fixture
- B - Lumeterminator\*
- C - To fixture
- D - Data -
- E - Data +
- F - Neutral
- G - Ground
- H - Line
- I - Signal common
- J - Wire-nuts (by others)
- K - Junction box (by others)

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

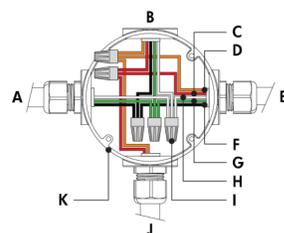
- Consult CBX installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run.
- Maximum of 4 DMX/RDM repeaters/CBX cascading 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.
- RGB color mixture option requires 3 DMX addresses. RGBW30K, RGBW40K, RGBA, MRGBA, MRGBWP and MRGROYWP color mixture options require 4 DMX addresses.
- DMX terminator is required at the end of each run to maintain data integrity. Two (2x) DMX lumeterminators included per CBX-DS. See installation instructions for details.
- 28 watts per fixture (RGB, RGBW30K, RGBW40K, RGBA), 25 watts per fixture (MRGBA, MRGBWP and MRGROYWP).

**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 (120-277V AC, wiring by others)
- H - Power and data wiring (by others)
- I - Junction box (by others)
- J - Lumenquad Medium

**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 Lumenquad responds to RGBWAF for color controls and Tc for dim to warm and tunable white.
- Commissioning may be required based on the selection of 3rd party DALI controller. Controller and commissioning provided by others.
- 28 watts per fixture (RGB, RGBW30K, RGBW40K, RGBA), 25 watts per fixture (MRGBA, MRGBWP and MRGROYWP).

How to Order

Housing	Voltage <sup>(2)</sup>	Color and Color Temperature <sup>(3)</sup>	Optic	Optical Option <sup>(13)</sup>	Mounting Options <sup>(15)</sup>
<b>LQM</b> Lumenquad Medium <sup>(1)</sup>	<b>120</b> 120 Volts  <b>208</b> 208 Volts  <b>220</b> 220 Volts  <b>240</b> 240 Volts  <b>277</b> 277 Volts	<b>MRGBWP</b> Opticolor+® Mix-at-Source Red, Green, Blue Plus White Settable Range 24K to 65K <sup>(4) (5) (6) (7) (8)</sup>  <b>MRGBA</b> Opticolor+® Mix-at-Source Red, Green, Blue, PC Amber <sup>(4) (6) (9)</sup>  <b>RGBA</b> Discrete Red, Green, Blue, Amber  <b>RGBW30K</b> Discrete Red, Green, Blue, White 30K <sup>(9)</sup>  <b>RGBW40K</b> Discrete Red, Green, Blue, White 40K <sup>(9)</sup>  <b>RGB</b> Discrete Red, Green, Blue  <b>MRGBROYWP</b> Opticolor+® Mix-at-Source Red, Green, Royal Blue Plus White Settable Range 24K to 65K <sup>(4) (5) (6) (7) (8)</sup>	<b>VN</b> Very Narrow 6° <sup>(10) (11)</sup>  <b>NS</b> Narrow Spot 10° <sup>(10)</sup>  <b>NF</b> Narrow Flood 20° <sup>(10)</sup>  <b>M</b> Medium 30° <sup>(10)</sup>  <b>FL</b> Flood 40° <sup>(10)</sup>  <b>WFL</b> Wide Flood 60° <sup>(10)</sup>  <b>VWFL</b> Very Wide Flood 90° <sup>(10) (12)</sup>  <b>NAS</b> Narrow Asymmetric <sup>(10) (11)</sup>  <b>WW</b> Asymmetric Wallwash <sup>(10) (11)</sup>	<b>LSLH</b> Linear Spread Lens Horizontal Distribution <sup>(14)</sup>  <b>LSLV</b> Linear Spread Lens Vertical Distribution <sup>(14)</sup>  <b>HL</b> Honeycomb Louver <sup>(11) (14)</sup>	<b>SM</b> Surface Mount  <b>WM</b> Wall Mount Bracket with Decorative Cover  <b>WMNC</b> Wall Mount Bracket without Decorative Cover  <b>WAM6</b> Wall Arm Mount 6 in with Decorative Cover  <b>WAM6NC</b> Wall Arm Mount 6 in without Decorative Cover  <b>WAM12</b> Wall Arm Mount 12 in with Decorative Cover  <b>WAM12NC</b> Wall Arm Mount 12 in without Decorative Cover  <b>WAM18</b> Wall Arm Mount 18 in with Decorative Cover  <b>WAM18NC</b> Wall Arm Mount 18 in without Decorative Cover  <b>WAM24</b> Wall Arm Mount 24 in with Decorative Cover <sup>(14)</sup>  <b>WAM24NC</b> Wall Arm Mount 24 in without Decorative Cover <sup>(14)</sup>  <b>WMRJB</b> Recessed JBOX Wall Mount with Decorative Cover  <b>WMRJBNC</b> Recessed JBOX Wall Mount without Decorative Cover  <b>WAMRJB6</b> Recessed JBOX Wall Arm Mount 6 in with Decorative Cover  <b>WAMRJB6NC</b> Recessed JBOX Wall Arm Mount 6 in without Decorative Cover  <b>WAMRJB12</b> Recessed JBOX Wall Arm Mount 12 in with Decorative Cover  <b>WAMRJB12NC</b> Recessed JBOX Wall Arm Mount 12 in without Decorative Cover  <b>WAMRJB18</b> Recessed JBOX Wall Arm Mount 18 in with Decorative Cover  <b>WAMRJB18NC</b> Recessed JBOX Wall Arm Mount 18 in without Decorative Cover  <b>WAMRJB24</b> Recessed JBOX Wall Arm Mount 24 in with Decorative Cover  <b>WAMRJB24NC</b> Recessed JBOX Wall Arm Mount 24 in without Decorative Cover  <b>RPM4/1</b> Round Pole Mount 4 in  <b>RPM4.5/1</b> Round Pole Mount 4.5 in  <b>RPM5/1</b> Round Pole Mount 5 in  <b>RPM4/2</b> Round Pole Mount 4 in for two fixtures  <b>RPM4.5/2</b> Round Pole Mount 4.5 in for two fixtures  <b>RPM5/2</b> Round Pole Mount 5 in for two fixtures  <b>PLTU</b> Lumentech Pole Mount <sup>(17)</sup>  <b>TN2</b> Tenon Adapter for 2 3/8 in O.D. Pole  <b>TN4</b> Tenon Adapter for 4 in O.D. Pole

					<b>SK</b> Stake Mount  <b>STM</b> Stud mount <sup>(18)</sup>
--	--	--	--	--	--------------------------------------------------------------------------

**Notes:**

1. Consult factory for products that are BAA-approved (Buy American Act).
2. Consult factory for 100 volts.
3. White Channel Set Point or Warm Dimming Range is adjustable at commissioning. Consult Opticolor+ Personality Guide for details.
4. Not available for VN, NAS and WW optics.
5. Fixtures are shipped from the factory in Optidrive™ Mode. Normal Mode can be activated onsite for DMX/RDM and LT fixtures. For DMX/RDM applications, Optidrive Mode requires a LumenID, LumenID software and onsite commissioning. For LT applications, Optidrive Mode requires a LumenID, LumentalkID software and onsite commissioning. Additionally, with Opticolor+™ the white CCT is configurable in the field from 2200K-8000K.
6. Consult factory for the availability of more color and CCT options (e.g. royal blue).
7. MRGBWP and MRGROYWP can be configured to MRGB via RDM, consult factory for more details.
8. Consult factory for DALI T8 applications with MRGBWP or MRGROYWP and a CCT other than 3000K.
9. Consult factory for availability of other color options such as Royal Blue.
10. Factory installed, not interchangeable on site.
11. Not available with MRGBA, MRGBWP and MRGROYWP color temperature options.
12. Available with MRGBA, MRGBWP and MRGROYWP color temperature options only.
13. Optical options are factory installed and cannot be changed in the field.
14. Not available with WFL, VWFL, NAS and WW optics.
15. All mounting options (except for SM mounting) are interchangeable. Consult factory for details.
16. A cable length of 10 ft or greater must be specified.
17. Available for Lumentech poles with a square or round profile. A PLTU - Universal Yoke accessory must be ordered with the Lumentech pole for the Lumentech to fit with the PLTU mounting option. Refer to Lumentech specification sheet and installation instructions for more details.
18. For thru-wall mounting.

**How to Order**

Finish	Control <sup>(22)</sup> <sup>(23)</sup>	Option	Certification	Cable Length <sup>(25)</sup> <sup>(30)</sup> <sup>(32)</sup>
<b>BK</b> Black Sandtex®	<b>LT</b> Lumentalk <sup>(12)</sup> <sup>(23)</sup>	<b>CRC</b> Corrosion-Resistant Coating <sup>(27)</sup> <sup>(28)</sup>	<b>UL</b> UL Compliant	<b>3FT</b> 3 ft <sup>(25)</sup> <sup>(31)</sup>
<b>BRZ</b> Bronze Sandtex®	<b>DMX/RDM</b> DMX/RDM Enabled <sup>(24)</sup> <sup>(25)</sup>		<b>CE</b> CE Compliant <sup>(29)</sup>	<b>10FT</b> 10 ft
<b>SI</b> Silver Sandtex®	<b>DALIT8</b> DALI 2 T8 Enabled Dimming 0,1% <sup>(6)</sup> <sup>(26)</sup>			<b>20FT</b> 20 ft
<b>WH</b> Smooth White				<b>30FT</b> 30 ft
<b>BKTX</b> Textured Black				<b>50FT</b> 50 ft
<b>BRZTX</b> Textured Bronze Non-Metallic				<b>70FT</b> 70 ft
<b>GRATX</b> Textured Medium Gray				<b>100FT</b> 100 ft
<b>GRNTX</b> Textured Green				
<b>WHTX</b> Textured White				
<b>CC</b> Custom Color & Finish <sup>(19)</sup> <sup>(20)</sup> <sup>(21)</sup>				

**Notes:**

- 8. Consult factory for DALI T8 applications with MRGBWP or MRGROYWP and a CCT other than 3000K.
- 12. Available with MRGBA, MRGBWP and MRGROYWP color temperature options only.
- 19. 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.
- 20. Longer lead times can be expected for custom RAL color finishes.
- 21. Setup charges apply for RAL colors. Consult factory for details.
- 22. For RGB, RGBW30K, RGBW40K and RGBA applications, a Lumentalk system is enabled with LDB-DMX accessory, DMX/RDM must be specified in the order code. See the typical wiring diagrams in the specification sheet for details.
- 23. A Lumentranslator 2 (LTL2) and LumenID (LID) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.

- 24. A control box (CBX) and LumenID (LID) must be specified.
- 25. Maximum of 3 ft cable length for daisy chain DMX applications with CBX-DS.
- 26. DALI 2 T8 controller required, provided by others. DALI 2 T8 control uses a single DALI short address.
- 27. Use only when exposed to salt spray. This option is not required for normal outdoor exposure.
- 28. Setup charges apply. Consult factory for details.
- 29. Consult European specification sheet and installation instructions for CE wiring information.
- 30. UL fixtures specified with a Smooth white finish and a SM, WM, WMNC, or WAM 6 in to 24 in mounting option (with or without decorative cover) are provided with a white cable. A black cable is provided for all other fixture configurations.
- 31. Not available with WAM24 or WAM24NC mounting options.
- 32. Not applicable to WMRJB, WMRJBNC and WAMRJB 6 in to 24 in mounting options (with or without decorative cover). Cable lengths for these mounting options are determined by the length of the mounting bracket.