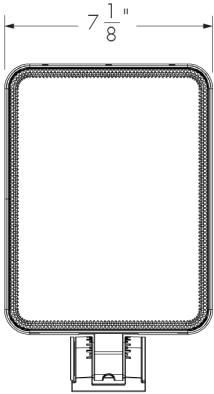


Project Name

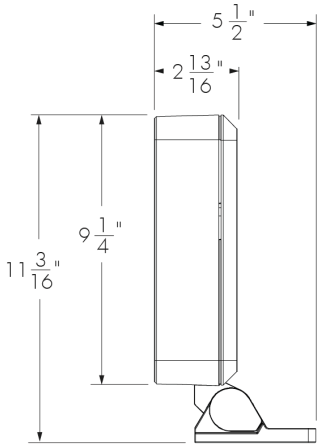
Qty

Type

Catalog / Part Number



Front View



Side View

Photometric Summary (Discrete RGBW40K)

Symmetric		
	Delivered output (lm)	Intensity (peak cd)
VN (6°)	1,572	76,932
NS (10°)	1,533	54,810
NF (20°)	1,411	11,384
M (30°)	1,356	6,270
FL (40°)	1,294	3,500
WFL (60°)	1,142	892
Asymmetric		
NAS	1,442	23,041 (@2.5°)
WW	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)
NS (10°)	1,158	22,488
NF (20°)	1,090	7,161
M (30°)	1,070	4,026
FL (40°)	1,107	2,959
WFL (60°)	1,089	1,112
VWFL (90°)	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
Colors and Color Temperature (Opticolor™)	RGB: Discrete Red, Green, Blue
	MRGBA: Opticolor™ Mix-at-Source Red, Green, Blue, PC Amber
	MRGBWP: Opticolor+® Mix-at-Source Red, Green, Blue Plus White Settable Range 24K to 65K
Colors and Color Temperature (Opticolor+®)	MRGBWP Typical Color Rendering:
	2700K-5000K: 90+ CRI
	2500K-6500K: 80+ CRI
Colors and Color Temperature (Opticolor+®)	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)

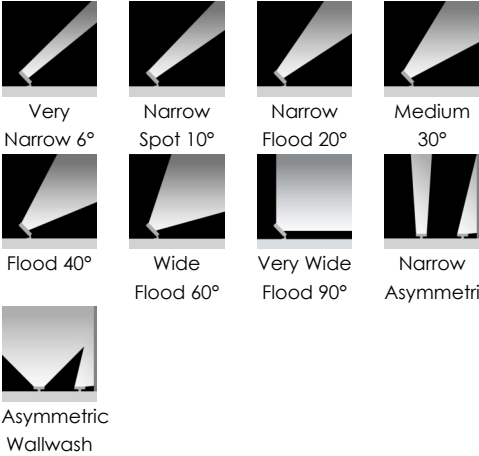
Photometric Summary (Opticolor MRGBA)

Symmetric

	Delivered output (lm)	Intensity (peak cd)
NS (10°)	1,139	22,105
NF (20°)	1,071	7,040
M (30°)	1,052	3,957
FL (40°)	1,088	2,908
WFL (60°)	1,070	1,093
VWFL(90°)	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
Discrete Red,
Green Blue,
Amber



RGBW
Discrete Red,
Green, Blue,
White 30K



RGBW
Discrete Red,
Green, Blue,
White 40K



RGB
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

Lumencycle™ Program



Certifications











Physical

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

Electrical and Control

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

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	IK10
Application Wind Speed	Luminaires were designed based on AASHTO 2018 (50 ft, 150 mph) 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. Consult factory for zones with higher wind speeds or higher mounting heights.

Accessories (Order Separately)

Optical Accessories	Snoot, Visor, Linear Spread Lens Adjustable, Wire Guard
Control Boxes	DMX/RDM enabled (Daisy Chain or Star Configuration), Ethernet enabled (Daisy Chain or Star Configuration), Lumentalk Data Bridge
Control Systems	Pharos® Designer Lighting Control Kit (PHAROS), Pharos® Express Control Kit (EXPERT)
Diagnostic and Addressing Tools	LumenID (LID)

Operation and Maintenance

Lumencycle™ Program

Lumencycle-enabled fixtures are designed for serviceability and circular lifecycle management.

Lumenpulse will provide factory refurbishment programs, allowing luminaires to be restored and redeployed rather than replaced.

Important

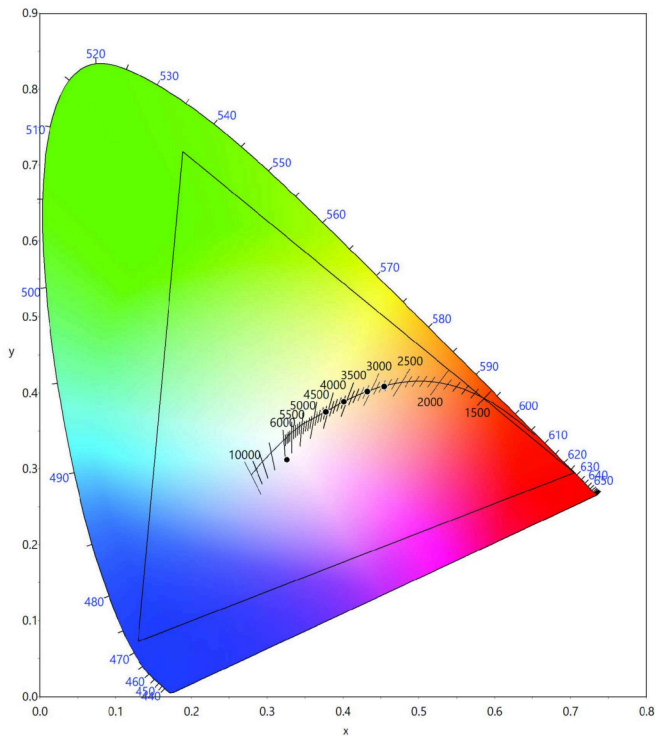
Virtual Patent Marking Notice

This website (<https://www.lripg.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.

Lumencycle™ Program

Lumencycle is a comprehensive program designed to maximize the life of Lumenpulse fixtures while preserving their performance, quality, and design intent. Built around three pillars—Repair, Restore, and Recycle—the program provides clear pathways to maintain existing installations, restore fixtures, and responsibly manage them at end of life. For full program details, visit <https://www.lumenpulse.com/lumencycle>.

Color Point Information

MRGBWP

Dominant Wavelength and Chromaticity

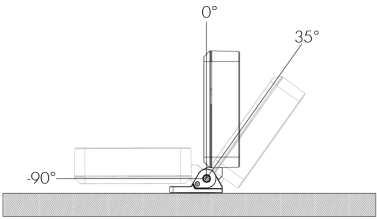
	Dominant Wavelength	Chromaticity	
		C _x	C _y
Red	~628nm	0.7050	0.2949
Green	~531nm	0.1885	0.7178
Blue	~471nm	0.1298	0.0726
Amber	~591nm	0.5755	0.4126

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

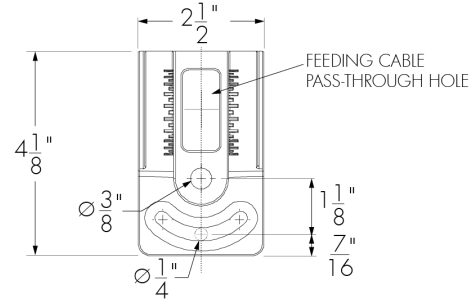
Values measured from Steady State Full on Optidrive @ 25°C ambient conditions.

Mounting Options

SM - Surface Mount

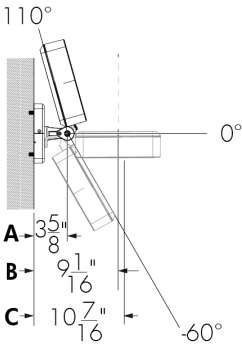


SM - Mounting Hole Pattern

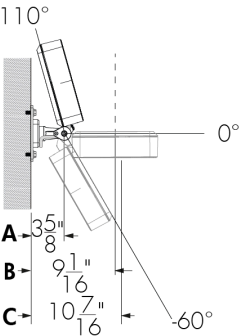


The SM mounting option cannot be interchanged with any other mounting option. All others mountings are interchangeable. Consult factory for details.

WM - Wall Mount Bracket with Decorative Cover

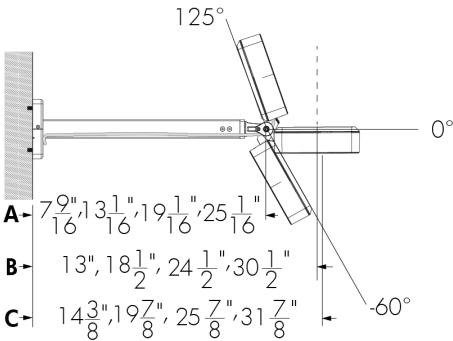


WMNC - Wall Mount Bracket Without Decorative Cover

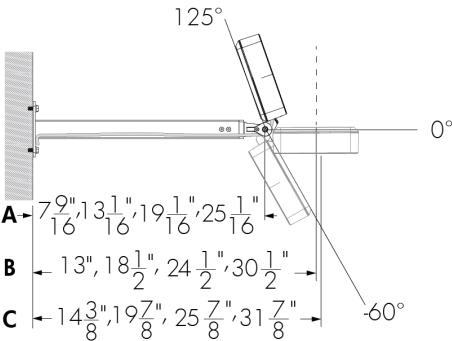


- A - Dimension from wall to pivot.
- B - Dimension from wall to the geometric center of the fixture.
- C - Dimension from wall to the center of the board.

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



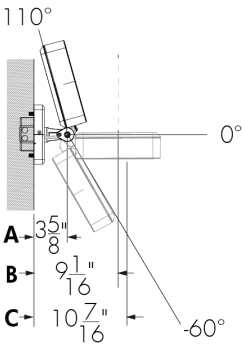
WAMNC - Wall Mount Bracket Without Decorative Cover
Cover 6 in, 12 in, 18 in or 24 in



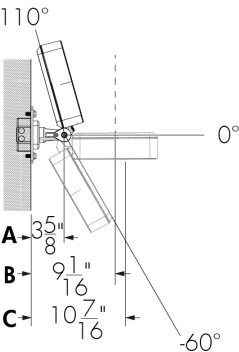
A cable length of 10 ft or greater must be specified for the WAM24 mounting option.

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

WMRJB - Recessed JBOX Wall Mount With Decorative Cover



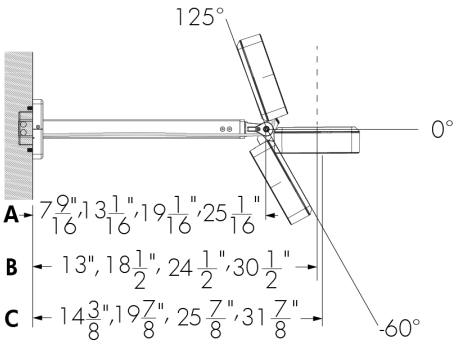
WMRJNC - Recessed JBOX Wall Mount Without Decorative Cover



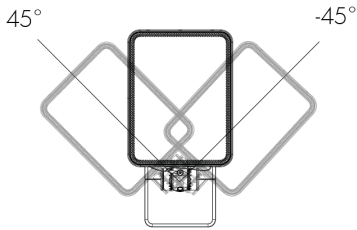
Fixture cable length is determined by Lumenpulse.

Fixture cable length is determined by Lumenpulse.

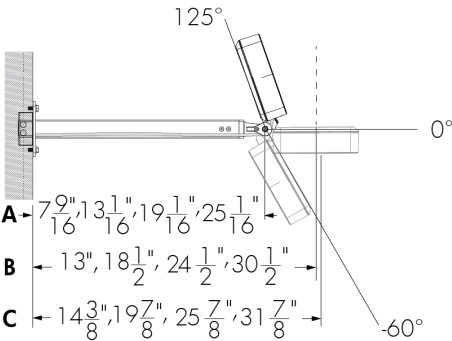
WAMRJB - Recessed JBOX Wall Arm Mount With
Decorative Cover 6 in, 12 in, 18 in or 24 in



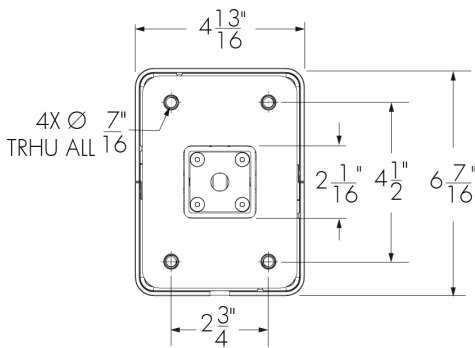
Wall Mount Horizontal Pivot Limits



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

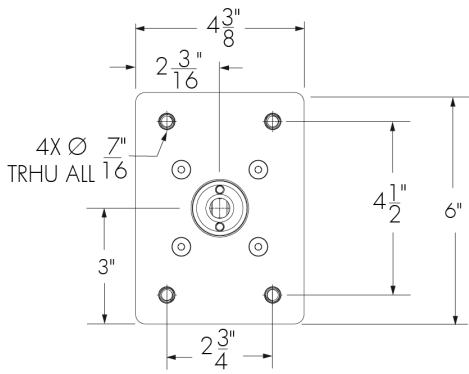


A - Dimension from wall to pivot.

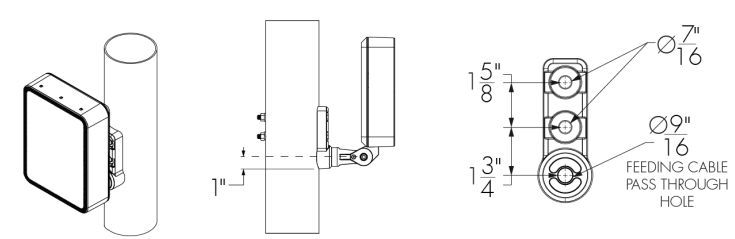
B - Dimension from wall to the geometric center of the fixture.

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

WMNC, WAMNC, WMRJBNC and WAMRJBNC -
Mounting Hole Pattern



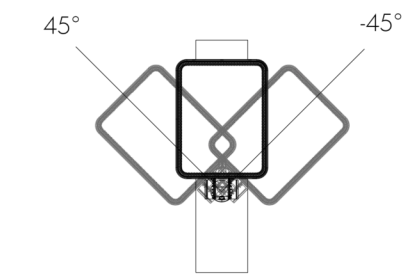
RPM4/1, RPM4.5/1, RPM5/1 - Round Pole Mount



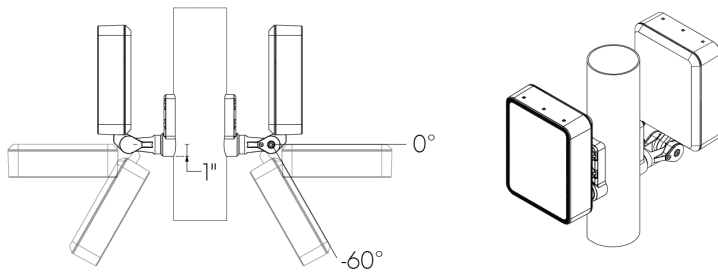
	RPM4/1	RPM4.5/1	RPM5/1
For pole Ø	4" ± 1/16	4.5" ± 1/16	5" ± 1/16
Bolt length	5 1/4	5 3/4	6 1/4

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

Round Pole Mount Horizontal Pivot Limits



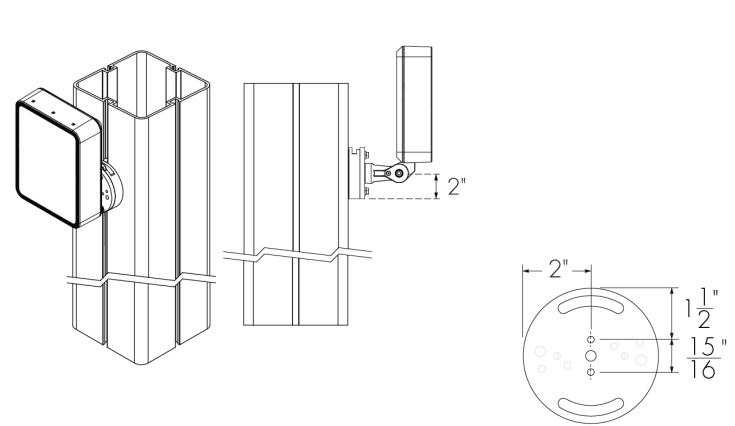
RPM4/2, RPM4.5/2, RPM5/2 - Round Pole Mount For Two Fixtures



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

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

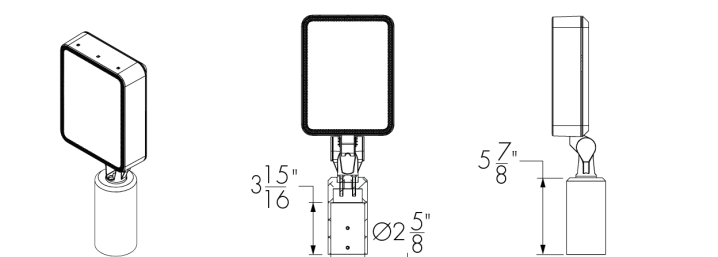
PLTU - Universal Yoke



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

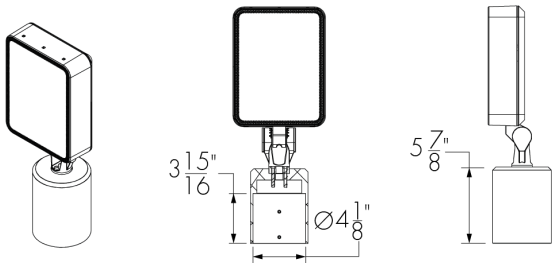
All mounting options (except for SM mounting) are interchangeable. Consult factory for details.

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



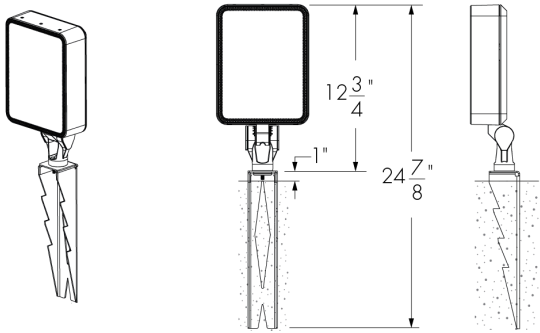
Vertical mounting only. Consult factory for horizontal mounting.

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

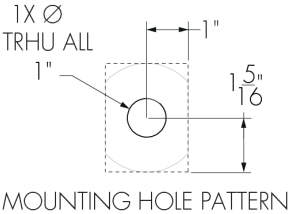
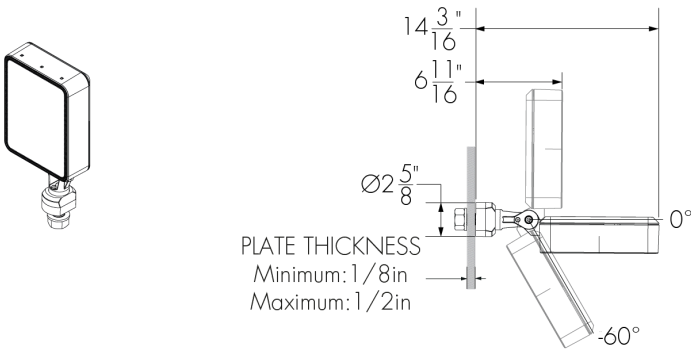


Vertical mounting only. Consult factory for horizontal mounting.

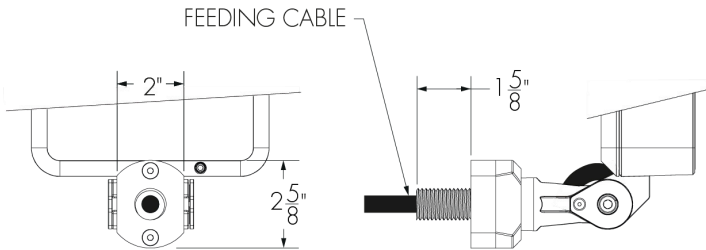
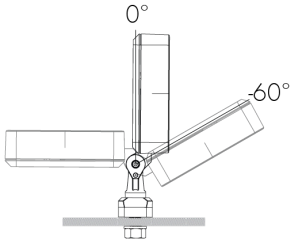
SK - Stake Mount



STM - Stud Mount



MOUNTING HOLE PATTERN



DETAILS

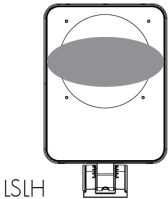
Vertical or horizontal mounting

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

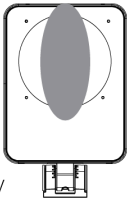
Optical Options – Discrete

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.

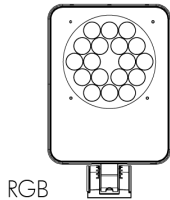
See 'Optical Accessories' section for field adjustable spread lens (LSLA).

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

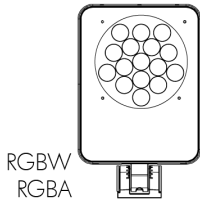
LLF: 0.88*

*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.

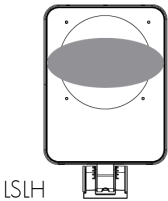
LLF: 0.90*

*LLF may vary slightly by distribution chosen.

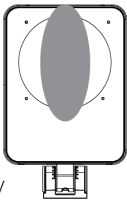
Optical Options - Opticolor™ and Opticolor+

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
NS	11° x 61°
NF	19° x 66°
M	26° x 70°
FL	31° x 71°

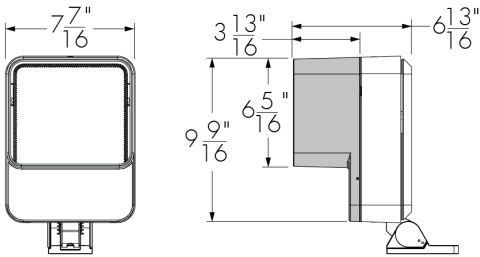
LLF: 0.88*

*LLF may vary slightly by distribution chosen.

Optical Accessories (Factory Installed, Order Separately)

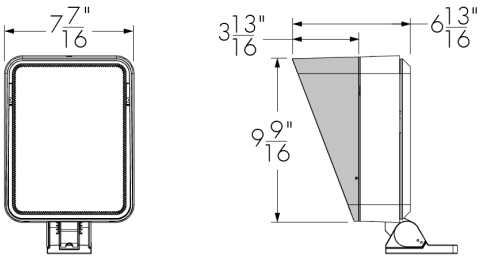
Installed optical accessories will affect the maximum pivot limits for each mounting option, consult factory for details.

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.

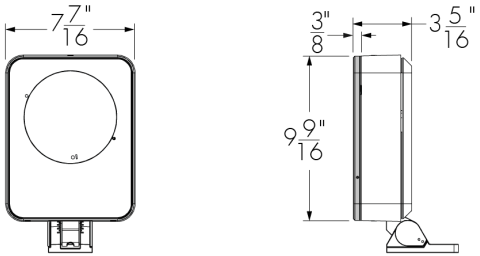
VS - Visor



LQMVS-FINISH-BK-OPTIONS (CRC)
Interior surface painted black. Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

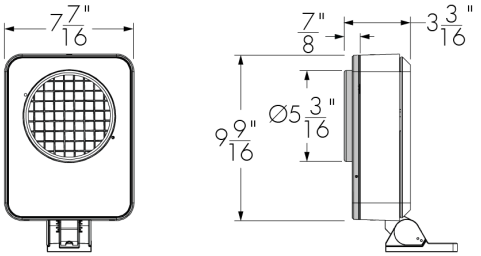
The Visor is not recommended for the WW optic.

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.

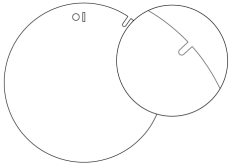
Accessory Combinations

	+	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

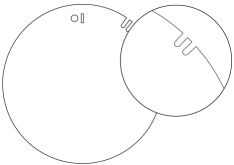
Diffuser Lenses (Intended for Mockup Purposes Only, Order Separately)

Diffuser Lens 1 (1 Notch)



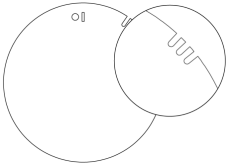
147701

Diffuser Lens 2 (2 Notches)



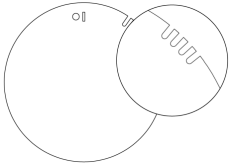
147702

Diffuser Lens 3 (3 Notches)



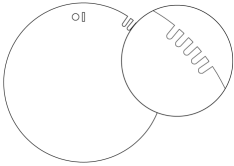
147703

Diffuser Lens 4 (4 Notches)



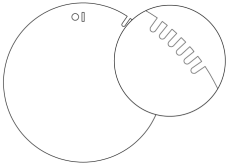
147704

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	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	NF	M	FL	WFL
VN (6°)	NS					
NS (10°)						
NF (20°)						
M (30°)			FL	WFL		
FL (40°)						
WFL (60°)				VWFL		
VWFL (90°)						

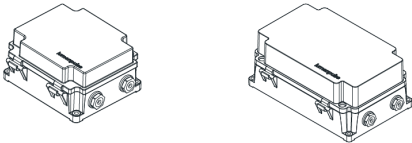
Choose a diffuser lens based on the desired final beam distribution. Refer to the 6-digit part numbers above to order diffuser lenses individually. To order a complete set of 6 diffuser lenses in a bag, refer to the following item names: **LQS**: LQALK-S **LQM**: LQALK-M **LQL**: LQALK-L **LQG**: LQALK-G

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.

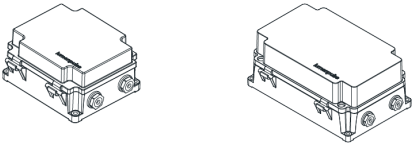
Control Boxes (Order Separately)

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



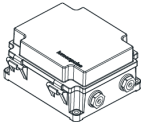
DMX/RDM control box. Up to six power and data outputs to fixtures or fixture runs. Consult CBX specification sheet and installation instructions for details. Lumenterminators provided with CBX (2x for Daisy Chain configuration, 6x for Star configuration), consult factory to order spares.

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.

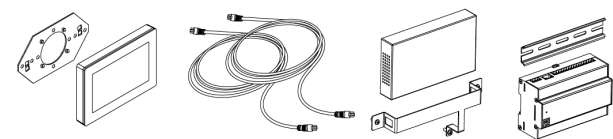
LDB - Lumentalk Data Bridge



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

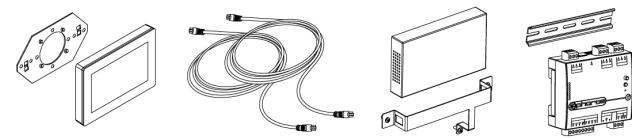
Control Systems (Order Separately)

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® Express 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
EPA Front (sq ft)	0.581	0.732	0.732	N/A	N/A	N/A	N/A
EPA Side (sq ft)	0.258	0.484	0.484	0.134	0.287	0.440	0.593
EPA Front 45° (sq ft)	0.560	0.861	0.861	N/A	N/A	N/A	N/A

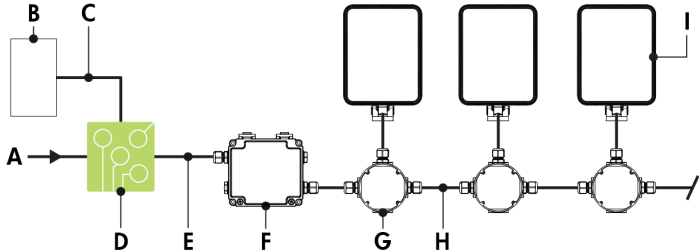
*Mounting arm only. Fixture EPA calculation must also be considered.

Typical Wiring Diagrams

Wiring Color Code

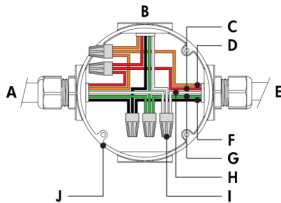
UL Color Code	USE
Green	Ground
Black	Line 120-277V AC
White	Line/Neutral
Red or Purple	0-10V / Data +
Orange	0-10V / Data -
Gray	Signal common (DMX/RDM only)

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

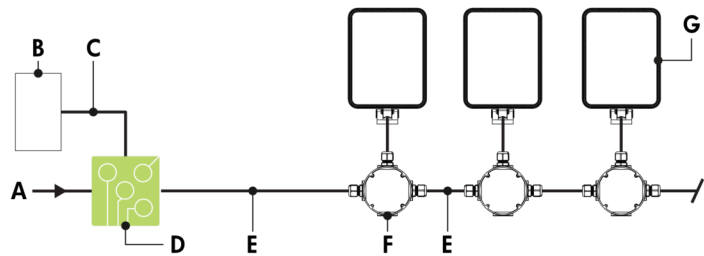
Lumentalk (LT) - Wiring Detail Using LDB



- 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)

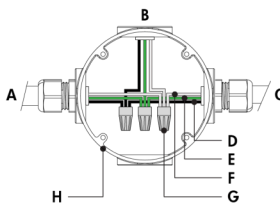
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Lumentalk Data Bridge required for Lumentalk system, see LDB installation instructions for details. Fixtures must be specified as DMX/RDM and the Lumentalk Data Bridge must be specified as DMX. 2-step 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

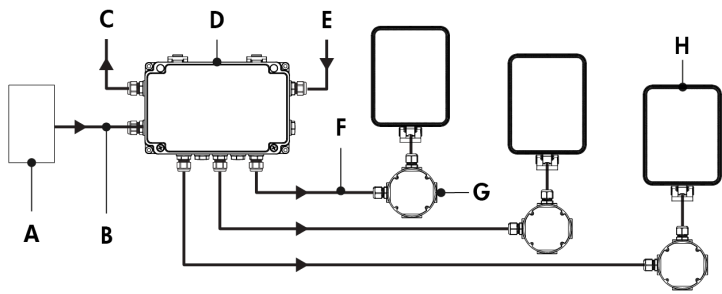
Lumentalk (LT) - Wiring Detail



- 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)

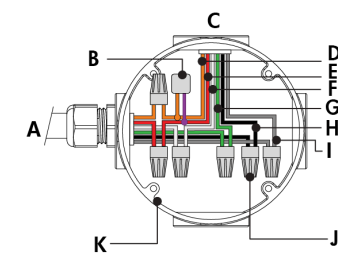
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Lumentalk enabled fixtures must be commissioned using LumentalkID software and a LID. Consult factory for details.
- Maximum of 1 transmitter (Lumentranslator or Lumenlink) per system.
- No third party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

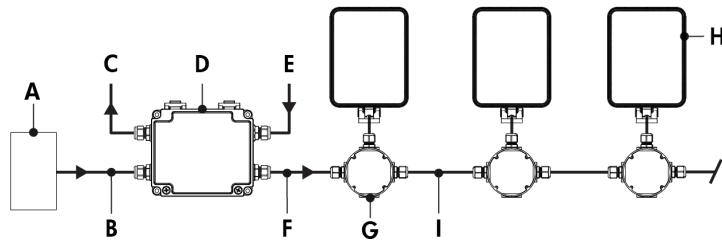
Maximum Fixture Count

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
LQM	29	32	32	32

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

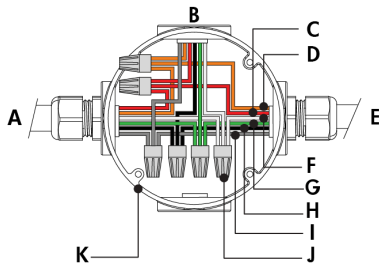
- Consult CBX installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run.
- Maximum of 4 DMX/RDM repeaters/CBX cascading 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)

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

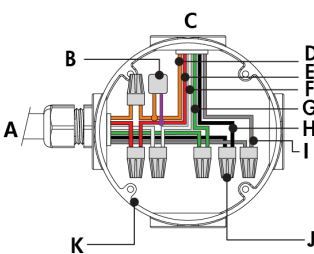


- A - From CBX or previous fixture
- B - To fixture
- C - Data -
- D - Data +
- E - To next fixture
- F - Neutral
- G - Line
- H - Ground
- I - Signal common
- J - Wire-nuts (by others)
- K - Junction box (by others)

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
LQM	29	32	32	32

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

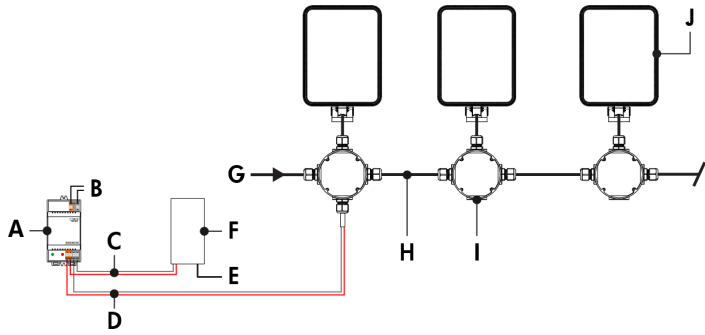


- A - From CBX or previous fixture
- B - Lumenterminator*
- C - To fixture
- D - Data -
- E - Data +
- F - Neutral
- G - Ground
- H - Line
- I - Signal common
- J - Wire-nuts (by others)
- K - Junction box (by others)

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

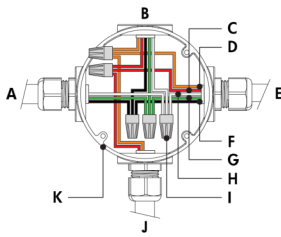
- Consult CBX installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run.
- Maximum of 4 DMX/RDM repeaters/CBX cascading 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 lumenterminators 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 ⁽²⁾	Color and Color Temperature ⁽³⁾	Optic	Optical Option ⁽¹³⁾	Mounting Options ⁽¹⁵⁾
LQM Lumenquad Medium ⁽¹⁾	120 120 Volts 208 208 Volts 220 220 Volts 240 240 Volts 277 277 Volts	MRGBWP Opticolor+® Mix-at-Source Red, Green, Blue Plus White Settable Range 24K to 65K ^{(4) (5) (6) (7) (8)} MRGBA Opticolor™ Mix-at-Source Red, Green, Blue, PC Amber ^{(4) (6) (9)} RGBA Discrete Red, Green, Blue, Amber RGBW30K Discrete Red, Green, Blue, White 30K ⁽⁹⁾ RGBW40K Discrete Red, Green, Blue, White 40K ⁽⁹⁾ RGB Discrete Red, Green, Blue MRGBROYWP Opticolor+® Mix-at-Source Red, Green, Royal Blue Plus White Settable Range 24K to 65K ^{(4) (5) (6) (7) (8)}	VN Very Narrow 6° ^{(10) (11)} NS Narrow Spot 10° ⁽¹⁰⁾ NF Narrow Flood 20° ⁽¹⁰⁾ M Medium 30° ⁽¹⁰⁾ FL Flood 40° ⁽¹⁰⁾ WFL Wide Flood 60° ⁽¹⁰⁾ VWFL Very Wide Flood 90° ^{(10) (12)} NAS Narrow Asymmetric ^{(10) (11)} WW Asymmetric Wallwash ^{(10) (11)}	LSLH Linear Spread Lens Horizontal Distribution ⁽¹⁴⁾ LSLV Linear Spread Lens Vertical Distribution ⁽¹⁴⁾ HL Honeycomb Louver ^{(11) (14)}	SM Surface Mount WM Wall Mount Bracket with Decorative Cover WMNC Wall Mount Bracket without Decorative Cover WAM6 Wall Arm Mount 6 in with Decorative Cover WAM6NC Wall Arm Mount 6 in without Decorative Cover WAM12 Wall Arm Mount 12 in with Decorative Cover WAM12NC Wall Arm Mount 12 in without Decorative Cover WAM18 Wall Arm Mount 18 in with Decorative Cover WAM18NC Wall Arm Mount 18 in without Decorative Cover WAM24 Wall Arm Mount 24 in with Decorative Cover ⁽¹⁴⁾ WAM24NC Wall Arm Mount 24 in without Decorative Cover ⁽¹⁴⁾ WMRJB Recessed JBOX Wall Mount with Decorative Cover WMRJBNC Recessed JBOX Wall Mount without Decorative Cover WMRJB6 Recessed JBOX Wall Arm Mount 6 in with Decorative Cover WMRJB6NC Recessed JBOX Wall Arm Mount 6 in without Decorative Cover WMRJB12 Recessed JBOX Wall Arm Mount 12 in with Decorative Cover WMRJB12NC Recessed JBOX Wall Arm Mount 12 in without Decorative Cover WMRJB18 Recessed JBOX Wall Arm Mount 18 in with Decorative Cover WMRJB18NC Recessed JBOX Wall Arm Mount 18 in without Decorative Cover WMRJB24 Recessed JBOX Wall Arm Mount 24 in with Decorative Cover WMRJB24NC Recessed JBOX Wall Arm Mount 24 in without Decorative Cover RPM4/1 Round Pole Mount 4 in RPM4.5/1 Round Pole Mount 4.5 in RPM5/1 Round Pole Mount 5 in RPM4/2 Round Pole Mount 4 in for two fixtures RPM4.5/2 Round Pole Mount 4.5 in for two fixtures RPM5/2 Round Pole Mount 5 in for two fixtures PLTU Lumentech Pole Mount ⁽¹⁷⁾ TN2 Tenon Adapter for 2 3/8 in O.D. Pole TN4 Tenon Adapter for 4 in O.D. Pole

					SK Stake Mount STM Stud mount ⁽¹⁸⁾
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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 ⁽²²⁾ ⁽²³⁾	Option	Certification	Cable Length ⁽²⁵⁾ ⁽³⁰⁾ ⁽³²⁾
BK Black Sandtex® BRZ Bronze Sandtex® SI Silver Sandtex® WH Smooth White BKTX Textured Black BRZTX Textured Bronze Non-Metallic GRATX Textured Medium Gray GRNTX Textured Green WHTX Textured White CC Custom Color & Finish ⁽¹⁹⁾ ⁽²⁰⁾ ⁽²¹⁾	LT Lumentalk ⁽¹²⁾ ⁽²³⁾ DMX/RDM DMX/RDM Enabled ⁽²⁴⁾ ⁽²⁵⁾ DALIT8 DALI 2 T8 Enabled Dimming 0,1% ⁽⁸⁾ ⁽²⁶⁾	CRC Corrosion-Resistant Coating ⁽²⁷⁾ ⁽²⁸⁾	UL UL Compliant CE CE Compliant ⁽²⁹⁾	3FT 3 ft ⁽²⁵⁾ ⁽³¹⁾ 10FT 10 ft 20FT 20 ft 30FT 30 ft 50FT 50 ft 70FT 70 ft 100FT 100 ft

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.