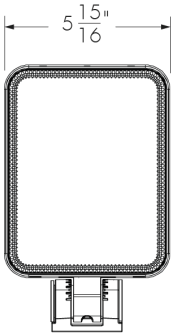
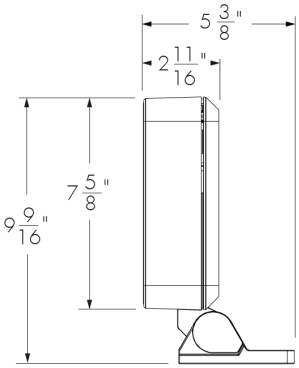
Project Name _____ **Qty** _____

Type _____ **Catalog / Part Number** _____



Front View



Side View

Photometric Summary (Discrete RGB)

Symmetric

	Delivered output (lm)	Intensity (peak cd)
VN (6°)	734	35,285
NS (10°)	706	24,627
NF (20°)	646	5,477
M (30°)	619	2,859
FL (40°)	601	1,704
WFL (60°)	488	396
VWFL (90°)		

Asymmetric

NAS	659	10,507 (@2.5°)
WW	605	2,681 (@5°)

1. Based on RGB 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°)	678	11,925
NF (20°)	628	4,070
M (30°)	613	2,313
FL (40°)	635	1,679
WFL (60°)	602	609
VWFL(90°)	557	284

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 Small Color Changing has a sleek 2 11/16 in profile with no visible wiring or hardware and seamlessly integrates with any architecture while also applying dynamic colour. Lumenpulse's latest generation of LED boards possess an optimised candela and lumens recipe for both Narrow and Wide optics. The Lumenquad Small 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)	**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)
NS (10°)	668	11,746
NF (20°)	619	4,009
M (30°)	604	2,278
FL (40°)	625	1,654
WFL (60°)	593	600
VWFL(90°)	548	279

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


Very Narrow 6°


Narrow Spot 10°


Narrow Flood 20°


Medium 30°


Flood 40°


Wide Flood 60°


Very Wide Flood 90°


Narrow Asymmetric


Asymmetric Wallwash

Color and Color Temperature

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

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

Discrete Red, Green, Blue

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

Control

lumentalk

DMX/RDM

DALI T8

Ratings

IP66 IK10

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	14 W (RGB), 16 W (MRGBA, MRGBWP and MRGROYWP)
Warranty	5-year limited warranty

Performance

Maximum Delivered Output (Discrete)	734 lm (RGB full output, VN 6°, DMX/RDM)
Maximum Delivered Output (Opticolor)	668 lm (MRGBA full output, NS 10°, DMX/RDM)
Maximum Delivered Output (Opticolor+)	678 lm (MRGBWP full output, NS 10°, DMX/RDM)
Maximum Delivered Intensity (Discrete)	35,285 cd at nadir (RGB full output, VN 6°, DMX/RDM)
Maximum Delivered Intensity (Opticolor)	11,746 cd at nadir (MRGBA full output, NS 10°, DMX/RDM)
Maximum Delivered Intensity (Opticolor+)	11,925 cd at nadir (MRGBWP full output, NS 10°, DMX/RDM)
Illuminance at Distance (Discrete)	Minimum 1 fc at 189 ft (RGB full output, VN 6°, DMX/RDM)
Illuminance at Distance (Opticolor)	Minimum 1 fc at 108 ft (MRGBA full output, NS 10°, DMX/RDM)
Illuminance at Distance (Opticolor+)	Minimum 1 fc at 109 ft (MRGBWP full output, NS 10°, DMX/RDM)
Illuminance at Distance (Opticolor™)	Minimum 1 fc at 90 ft (MRGBW30K full output, NS 10°, DMX/RDM) Minimum 1 fc at 91 ft (MRGBW40K full output, NS 10°, DMX/RDM) Minimum 1 fc at 85 ft (MRGBA 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

Physical

Housing Material	Low copper content high pressure die-cast aluminum
Lens Material	Clear tempered glass
Hardware Material	Stainless steel

Lumencycle™ Program

Certifications

Gasket Material	Silicone
Surface Finish	Electrostatically applied polyester powder coat
Weight	6.65 lbs
EPA	Front = 0.43 ft², Side = 0.21 ft², Front 45°= 0.41 ft²

Electrical and Control

Voltage	120-277 Volts
Fixture Cable	Power and data in one cable
Conductors	3C #16-3 (LT control for MRGBA, MRGBWP and MRGROYWP) 5C #16-5 (DALIT8 control) 6C #14-3/ #24-3 (DMX/RDM control)
Control	DMX/RDM Enabled DALI 2 T8 Enabled Dimming 0.1% Lumentalk For RGB applications, 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 (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

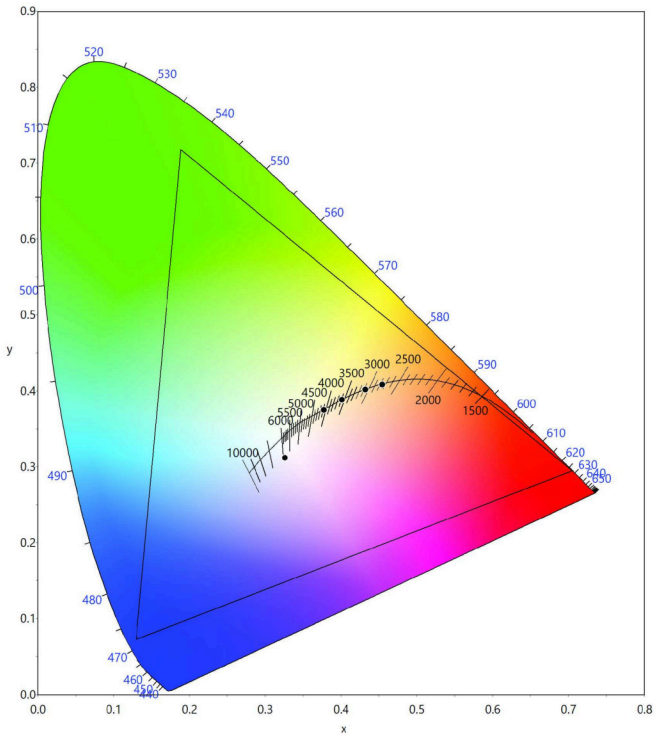
This website (https://www.lmpg.com/patents-trademarks) is provided to satisfy the virtual patent marking provisions of applicable jurisdictions. Some products listed may be covered by additional patents not referenced here.

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

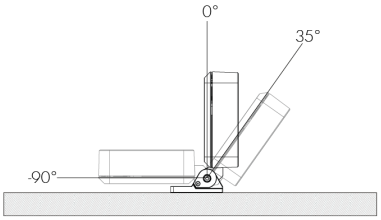
	Dominant Wavelength	Chromaticity	
		Cx	Cy
Red	~628nm	0.7050	0.2949
Green	~531nm	0.1885	0.7178
Blue	~471nm	0.1298	0.0726
Amber	~591nm	0.5755	0.4126

	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

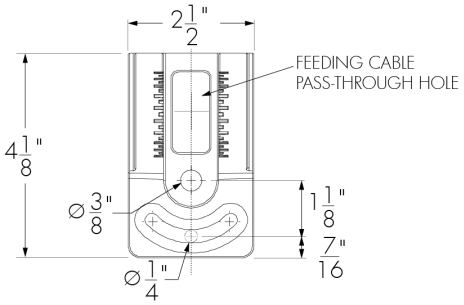
Values measured from Steady State Full on Optidrive @ 25°C ambient conditions.

Mounting Options

SM - Surface Mount

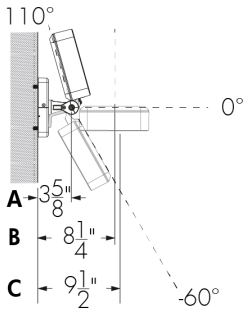


SM - Mounting Hole Pattern

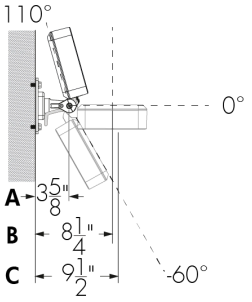


The SM mounting option cannot be interchanged with any other mounting option. All others mountings are interchangeable. Consult factory for details.

WM - Wall Mount Bracket with Decorative Cover



WMNC - Wall Mount Bracket Without Decorative Cover

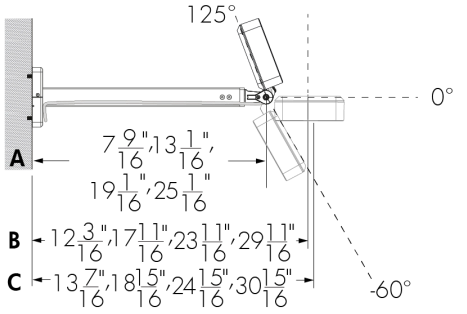


A - Dimension from wall to pivot.

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

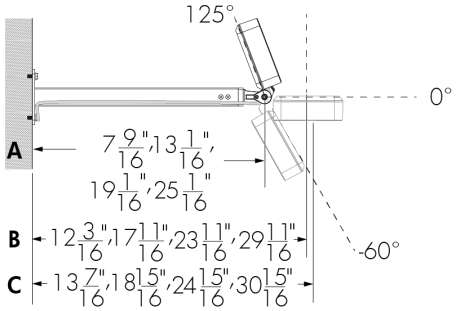
C - Dimension from wall to the center of the board.

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



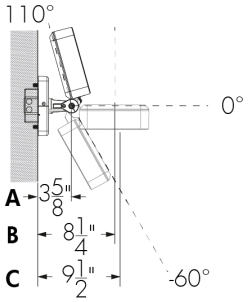
A cable length of 10 ft or greater must be specified for the WAM24 mounting option.

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



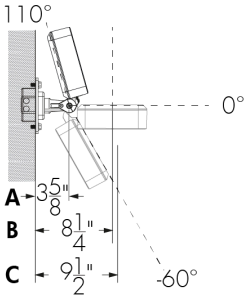
A cable length of 10 ft or greater must be specified for the WAM24 mounting option.

WMRJB - Recessed JBOX Wall Mount With Decorative Cover



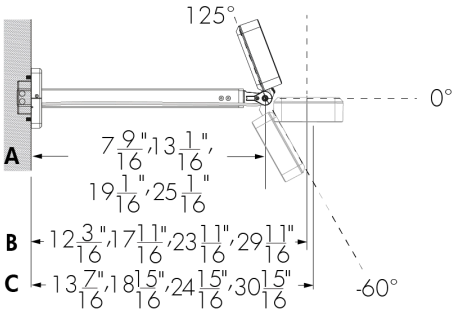
Fixture cable length is determined by Lumenpulse.

WMRJBNC - Recessed JBOX Wall Mount Without Decorative Cover

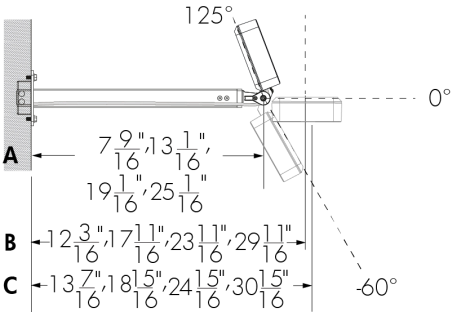


Fixture cable length is determined by Lumenpulse.

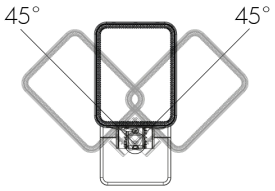
WAMRJB - Recessed JBOX Wall Arm Mount With Decorative Cover 6 in, 12 in, 18 in or 24 in



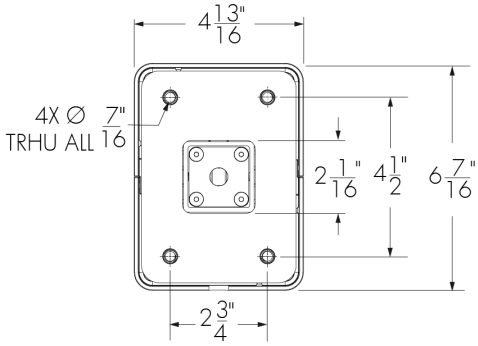
WAMRJBNC - Recessed JBOX Wall Arm Mount Without Decorative Cover 6 in, 12 in, 18 in or 24 in



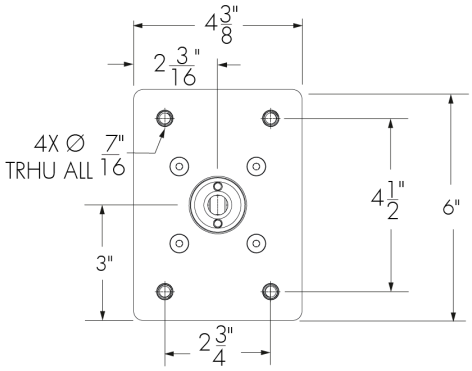
Wall Mount Horizontal Pivot Limits



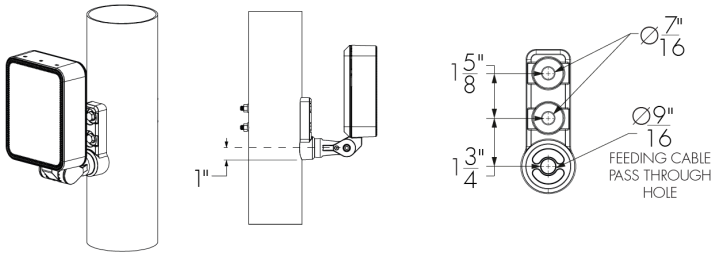
WM, WAM, WMRJB and WAMRJB - Mounting Hole Pattern



WMNC, WAMNC, WMRJBNC and WAMRJBNC - Mounting Hole Pattern



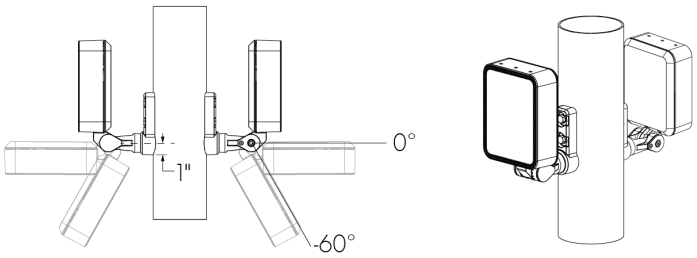
RPM4/1, RPM4.5/1, RPM5/1 - Round Pole Mount



	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.

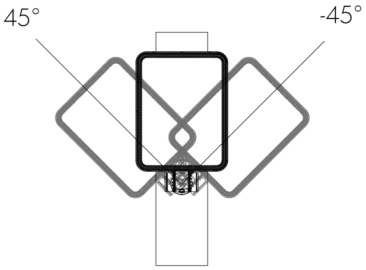
RPM4/2, RPM4.5/2, RPM5/2 - Round Pole Mount For Two Fixtures



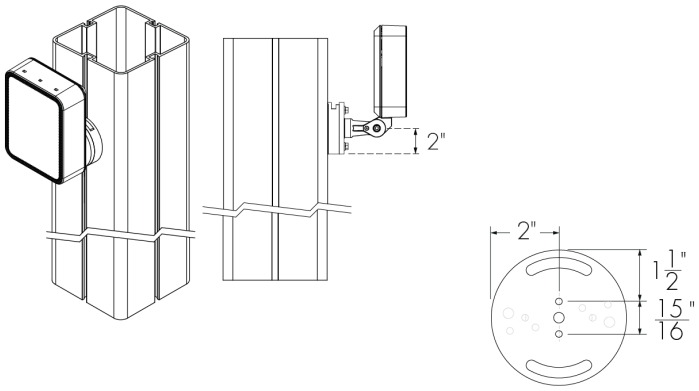
	RPM4/2	RPM4.5/2	RPM5/2
For pole Ø	4" ± 1/16"	4.5" ± 1/16"	5" ± 1/16"
Bolt length	5 3/4"	6 1/4"	7"

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

Round Pole Mount Horizontal Pivot Limits

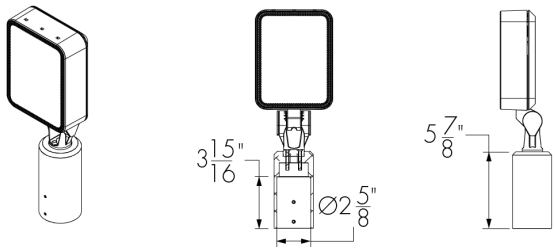


PLTU - Universal Yoke



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

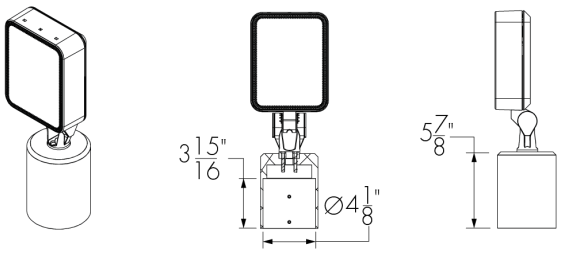
TN2 - Tenon Adapter For 2 3/8 in O.D. Pole



Vertical mounting only. Consult factory for horizontal mounting.

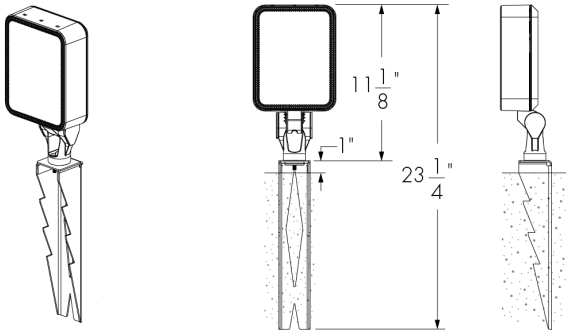
All mounting options (except for SM mounting) are interchangeable. Consult factory for details.

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



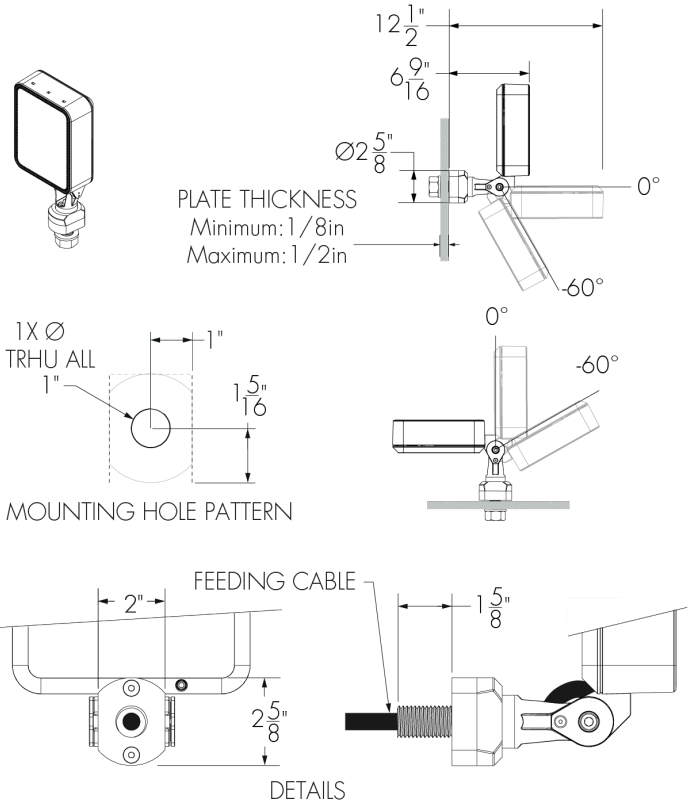
Vertical mounting only. Consult factory for horizontal mounting.

SK - Stake Mount



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

STM - Stud Mount

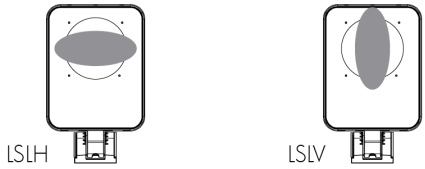


Vertical or horizontal mounting

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



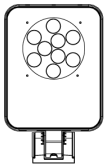
Factory installed, not adjustable on site. Not available for WFL, VWFL, NAS and WW optics.

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



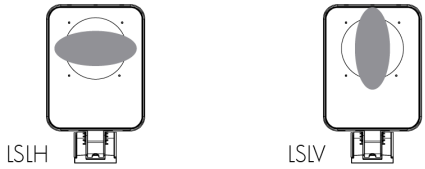
Factory installed, not adjustable on site. HL not available for WFL, VWFL, NAS and WW optics.

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



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).

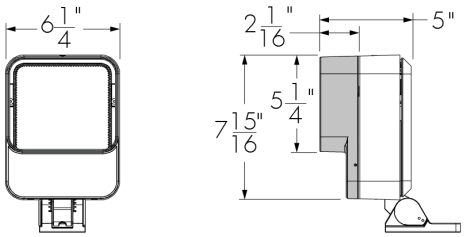
Optic installed in fixture	Beam angle with LSLH/LSLV
NS	11° x 61°
NF	19° x 66°
M	26° x 70°
FL	31° x 71°

LLF: 0.88*
*LLF may vary slightly by distribution chosen.

Optical Accessories (Factory Installed, Order Separately)

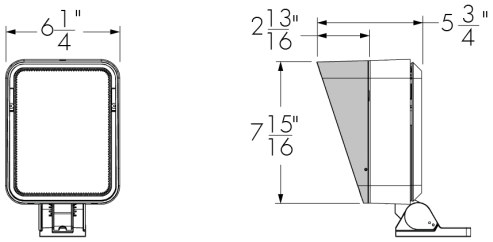
Installed optical accessories will affect the maximum pivot limits for each mounting option, consult factory for details.

SN - Snoot



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

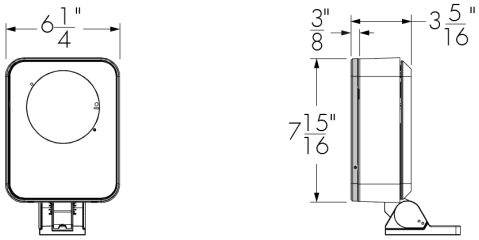
VS - Visor



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

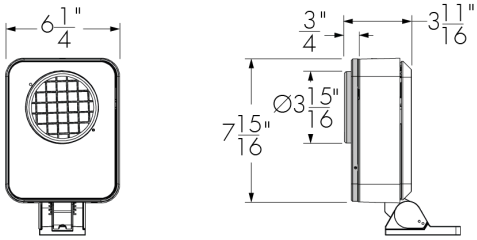
The Visor is not recommended for the WW optic.

LSLA - Linear Spread Lens Adjustable



LQSLSLA-**FINISH-OPTIONS** (CRC)
Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

WG - Wire Guard



LQSWG-**FINISH-OPTIONS** (CRC)
Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

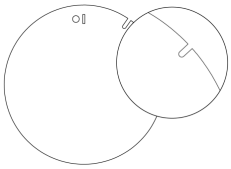
Accessory Combinations

+	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 LQSSNWG-BK-BK. A maximum of two accessories can be combined per fixture.

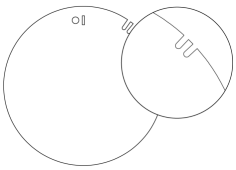
Diffuser Lenses (Intended for Mockup Purposes Only, Order Separately)

Diffuser Lens 1 (1 Notch)



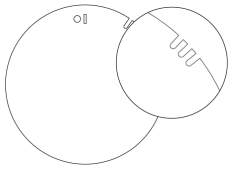
147695

Diffuser Lens 2 (2 Notches)



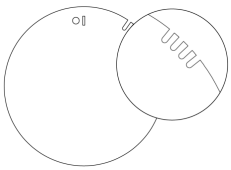
147696

Diffuser Lens 3 (3 Notches)



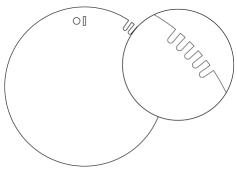
147697

Diffuser Lens 4 (4 Notches)



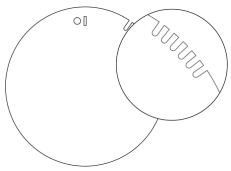
147698

Diffuser Lens 5 (5 Notches)



147699

Diffuser Lens 6 (6 Notches)



147700

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°)						

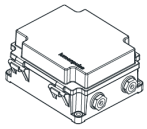
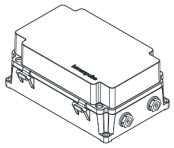
Choose a diffuser lens based on the desired final beam distribution. Refer to the 6-digit part numbers above to order diffuser lenses individually. To order a complete set of 6 diffuser lenses in a bag, refer to the following item names: **LQS:** LQALK-S **LQM:** LQALK-M **LQL**: LQALK-L **LQG:** LQALK-G

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.

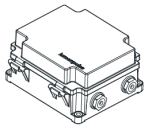
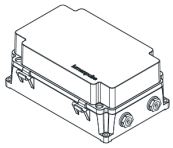
Control Boxes (Order Separately)

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

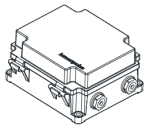
DMX/RDM control box. Up to six power and data outputs to fixtures or fixture runs. Consult CBX specification sheet and installation instructions for details. Lumenterminators provided with CBX (2x for Daisy Chain configuration, 6x for Star configuration), consult factory to order spares.

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.

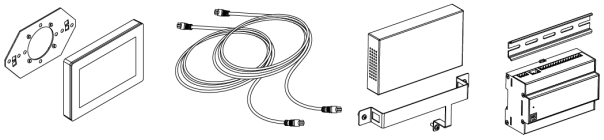
LDB - Lumentalk Data Bridge



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

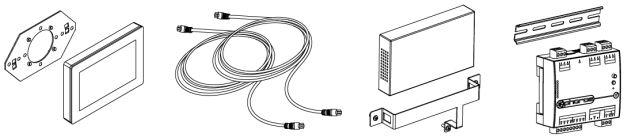
Control Systems (Order Separately)

PHAROS - Pharos® Designer Lighting Control Kit



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

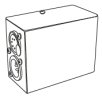
EXPERT - Pharos® Express Control Kit



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

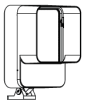
Diagnostic And Addressing Tools (Order Separately)

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*			
	LQS 	LQS with Snoot 	LQS with Visor 	WAM/WAMRJB 			
				6	12	18	24
EPA Front (sq ft)	0.431	0.517	0.517	N/A	N/A	N/A	N/A
EPA Side (sq ft)	0.205	0.334	0.334	0.134	0.287	0.440	0.593
EPA Front 45° (sq ft)	0.409	0.592	0.592	N/A	N/A	N/A	N/A

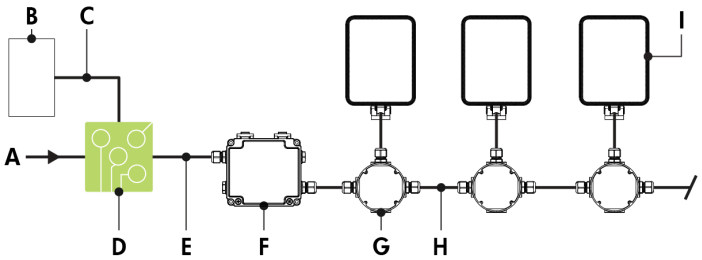
*Mounting arm only. Fixture EPA calculation must also be considered.

Typical Wiring Diagrams

Wiring Color Code

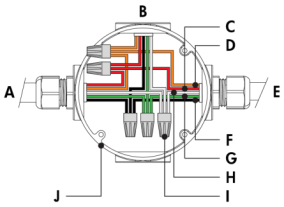
UL Color Code	USE
Green	Ground
Black	Line 120-277V AC
White	Line/Neutral
Red or Purple	0-10V / Data +
Orange	0-10V / Data -
Gray	Signal common (DMX/RDM only)

Lumentalk (LT) RGB



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 Small

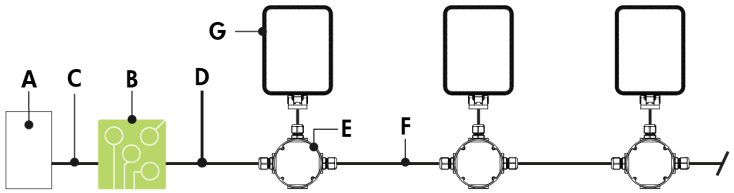
Lumentalk (LT) - Wiring Detail Using LDB



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)

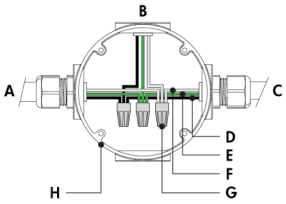
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Lumentalk Data Bridge required for Lumentalk system, see LDB installation instructions for details. Fixtures must be specified as DMX/RDM and the Lumentalk Data Bridge must be specified as DMX. 2-step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

Lumentalk (LT) MRGBA-MRGBWP-MRGROYWP



A - DMX/RDM controller (order separately from Lumenpulse, or by others)
B - Lumentranslator 2 (LTL2-DMX)
C - Data wiring (by others)
D - Power line (100-277V, wiring by others)
E - Junction box (by others)
F - Power wiring (by others)
G - Lumenquad Small

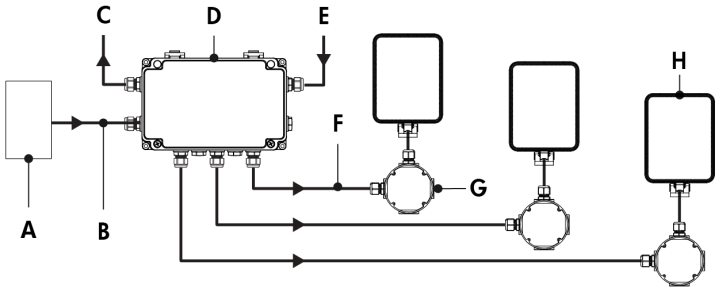
Lumentalk (LT) - Wiring Detail



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)

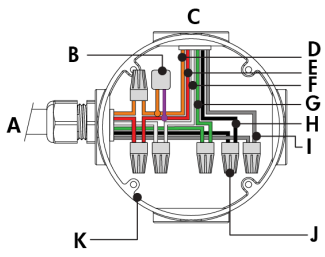
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Lumentalk enabled fixtures must be commissioned using LumentalkID software and a LID. Consult factory for details.
- 1 DMX controller per Lumentalk network, maximum of 48 DMX channels per Lumentalk network (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.
- 16 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 Small

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)

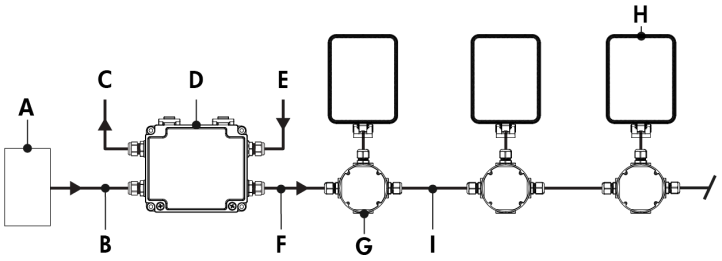
Maximum Fixture Count

Maximum number of fixtures per run (Based on15A maximum, 16AWG cable, fixtures spaced 10ft on center, first fixture 50ft from CBX)				
Configuration/Voltage	**120V**	**208V**	**240V**	**277V**
LQS	32	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. 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.
- 14 watts per fixture (RGB), 16 watts per fixture (MRGBA, MRGBWP and MRGROYWP).

Daisy Chain Layout (DMX/RDM)



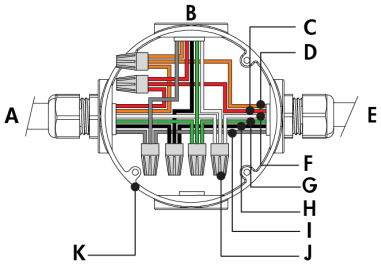
A - DMX/RDM controller (order separately from Lumenpulse, or by others)
B - Data input (Belden 9841 or equivalent, by others)
C - Data output to next CBX (optional, not isolated/not boosted)
D - CBX-DS
E - Power input (120-277V, wiring by others)
F - Power and data output to fixture (wiring by others)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

Maximum Fixture Count

Maximum number of fixtures per run (Based on15A maximum, 16AWG cable, fixtures spaced 10ft on center, first fixture 50ft from CBX)

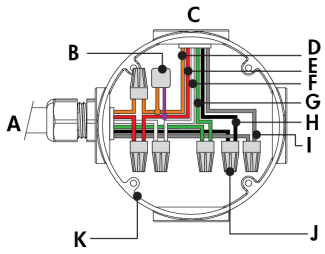
Configuration/Voltage	120V	208V	240V	277V
LQS	32	32	32	32

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)

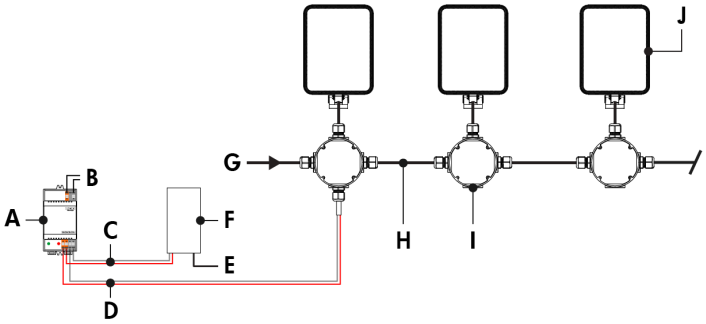


A - From CBX or previous fixture
B - Lumenterminator*
C - To fixture
D - Data -
E - Data +
F - Neutral
G - Ground
H - Line
I - Signal common
J - Wire-nuts (by others)
K - Junction box (by others)

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

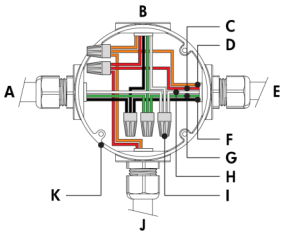
- Consult CBX installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run.
- Maximum of 4 DMX/RDM repeaters/CBX cascading 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. 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.
- 14 watts per fixture (RGB), 16 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 Small

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.
- 14 watts per fixture (RGB), 16 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]
LQS Lumenquad Small [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] [5] **RGB** Discrete Red, Green, Blue **MRGROYWP** Opticolor+® Mix-at-Source Red, Green, Royal Blue Plus White Settable Range 24K to 65K [4] [6] [7] [8] [9]	**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 [16] **WAM24NC** Wall Arm Mount 24 in without Decorative Cover [16] **WMRJB** Recessed JBOX Wall Mount with Decorative Cover **WMRJBNC** Recessed JBOX Wall Mount without Decorative Cover **WAMRJB6** Recessed JBOX Wall Arm Mount 6 in with Decorative Cover **WAMRJB6NC** Recessed JBOX Wall Arm Mount 6 in without Decorative Cover **WAMRJB12** Recessed JBOX Wall Arm Mount 12 in with Decorative Cover **WAMRJB12NC** Recessed JBOX Wall Arm Mount 12 in without Decorative Cover **WAMRJB18** Recessed JBOX Wall Arm Mount 18 in with Decorative Cover **WAMRJB18NC** Recessed JBOX Wall Arm Mount 18 in without Decorative Cover **WAMRJB24** Recessed JBOX Wall Arm Mount 24 in with Decorative Cover **WAMRJB24NC** 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]

Notes:

1. Consult factory for products that are BAA-approved (Buy America.n 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. Consult factory for the availability of more color and CCT options (e.g. royal blue).
6. MRGBWP and MRGROYWP can be configured to MRGB via RDM, consult factory for more details.
7. 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.
8. Consult factory for DALI T8 applications with MRGBWP or MRGROYWP and a CCT other than 3000K.
9. Consult factory for the availability of more color and CCT options.
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®	**LT** Lumentalk [12]	**CRC** Corrosion-Resistant Coating [27] [28]	**UL** UL Compliant	**3FT** 3 ft [25] [31]
BRZ Bronze Sandtex®	**DMX/RDM** DMX/RDM Enabled [24] [25]		**CE** CE Compliant [29]	**10FT** 10 ft
SI Silver Sandtex®	**DALIT8** DALI 2 T8 Enabled Dimming 0.1% [8] [26]			**20FT** 20 ft
WH Smooth White				**30FT** 30 ft
BKTX Textured Black				**50FT** 50 ft
BRZTX Textured Bronze Non-Metallic				**70FT** 70 ft
GRATX Textured Medium Gray				**100FT** 100 ft
GRNTX Textured Green				
WHTX Textured White				
CC Custom Color & Finish [19] [20] [21]				

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 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. 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.
31. Not available with WAM24 or WAM24NC mounting options.
32. 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.