<u>Project Name</u> <u>Bennett Bridge</u> **Qty** 34

Type O2A-E Catalog / Part Number LBM 120 MRGBWP NS __ DMX/RDM 3GV UI



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
\cummatr		0,2

Asymmetric

NAS	1,442	23,041 (@2.5°)
WW	1,290	5,877 (@5°)

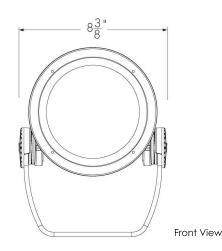
^{1.} Based on RGBW40K full output.

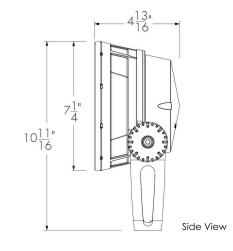
Photometric Summary (Opticolor+ MRGBWP)

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

 $^{^{\}rm l}\cdot$ Based on MRGBWP full output, white set to 3000K.





Description

The Lumenbeam Medium Color Changing is an IP66-rated luminaire for lighting landscapes, trees, columns, monuments, and architectural details. The system offers numerous options including optics for flood or accent lighting, a choice of color mixing, as well as various accessories, spread lenses, and controls. The luminaire also has an anti-corrosion option for use in harsh, chemical, or coastal environments.

Features

Colors and Color Temperature (Discrete)	RGBA: Discrete Red, Green Bue, 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+TM 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 MRGRBWP: Opticolor+TM 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)

LSLH: Linear Spread Lens Horizontal Distribution

LSLV: Linear Spread Lens Vertical Distribution

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Optical Option

 $^{^{\}hbox{2.}}$ Photometric performance is measured in compliance with IESNA IM-79-24

^{3.} Refer to the Lumenbeam Color Changing Photometric Guide on Lumenpulse website for information on other color temperatures.

 $^{^{\}hbox{2.}}$ Photometric performance is measured in compliance with IESNA LM-79-24.

 $^{{\}bf 3.}$ Refer to the Lumenbeam Color Changing Photometric Guide on Lumenpulse website for information on other color temperatures.

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.

Optic









Spot 10°

Wide

Flood 60°



Flood 90°

Flood 20°

Narrow Asymmetric

30°

Option SY: Short Yoke SRY: Short Rotational Yoke RY: Rotational Yoke 3GV: 3G ANSI C136.31-2010 Vibration Rating for Bridge **Applications** CRC: Corrosion-Resistant Coating for Hostile Environments Cable Color BK: Black WH: White **Power Consumption** 28 W (RGB, RGBW30K, RGBW40K, RGBA), 25W (MRGBA, MRGBWP and MRGRBWP) Warranty 5-year limited warranty **Performance**

Maximum Delivered Output (Discrete)

Maximum Delivered Output (Opticolor)	1,139 lm (MRGBA full output, NS 10°, DMX/RDM)
	1,284 lm (RGBA full output, VN 6°, DMX/RDM)
	1,572 lm (RGBW40K full output, VN 6°, DMX/RDM)
	1,540 lm (RGBW30K full output, VN 6°, 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 Dalivarad Intensity (Onticalar) 22 105 ad at padir (MADCRA full output NS 100 DMAY/DDMA)

Maximum Delivered Intensity (Opticolor)	22,105 cd di fidali (MRGBA Iuli output, NS 10°, DMA/KDM)
Maximum Delivered Intensity	22,488 cd at nadir (MRGBWP full output, NS 10°, DMX/RDM)

Illuminance at Distance (Discrete) 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)

1,598 lm (RGB 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 $L70 (15K) > 90,000 \text{ hrs Ta } 25 ^{\circ}\text{C (TM-21 reported)}$ L70 > 150,000 hrs Ta 25 °C (projected)* L90 (15K) = 55,400 hrs Ta 25 °C (TM-21 reported)

> $L90 = 55,400 \text{ hrs Ta } 25 \, ^{\circ}\text{C (projected)}^{*}$ *Estimated based on in-situ case temperature and LM-80

report

Physical

(Opticolor+)

Housing Material	Low copper content high pressure die-cast aluminum
Yoke Material	Heavy aluminum (standard yoke included)
Lens Material	Clear tempered glass
Dome Lens Material	Acrylic



Wallwash



 $^{^{\}hbox{2.}}$ Photometric performance is measured in compliance with IESNA LM-79-24

 $^{^{}m 3.}$ Refer to the Lumenbeam Color Changing Photometric Guide on Lumenpulse website for information on other color temperatures.

Color and Color Temperature





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



opticolor



Discrete Red, Green Bue, Amber



Discrete Red, Green, Blue, White 30K



Discrete Red, Green, Blue, White 40K



Discrete Red, Green, Blue



opticolor+

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

Control



DMX/RDM





IP66 IK09

Certifications

















Hardware Material	Stainless steel
Gasket Material	Silicone
Surface Finish	Electrostatically applied polyester powder coat
Weight	6.7 lbs
EPA	Front = 0.44 ft², Side = 0.18 ft²
Electrical and Control	
Voltage	100 to 277 volts
Fixture Cable	Power and data in one cable
Conductors	3C #16-3 (LT control for MRGBA, MRGBWP and MRGRBWP) 6C #14-3/ #24-3 (DMX/RDM control) 5C #16-5 (DALIT8 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 MRGRBWP)
Environmental	
Storage Temperature	-40 °F to 158 °F (device must reach start-up temperature value before operating)
Start-up Temperature	-13 °F to 122 °F
Operating Temperature	-40 °F to 122 °F
Ingress Protection Rating	IP66 Wet location rated
Impact Resistance Rating	IK09
Application Wind Speed	Luminaires were designed based on AASHTO 2013 standard to ensure highest quality and safety. Installation should be validated by a local project engineer to ensure the luminaires are suitable for the wind speed and exposure of the specific application
Accessories (Order Separately)	
Optical Accessories	Lumenbeam Medium Snoot, Lumenbeam Medium Snoot Wide, Lumenbeam Medium Visor, Lumenbeam Medium Linear Spread Lens Adjustable, Lumenbeam Medium Wire Guard, Lumenbeam Medium Dome Lens
Control Boxes	DMX/RDM enabled (Daisy Chain or Star Configuration), Ethernet enabled (Daisy Chain or Star Configuration),

Optical Accessories	Lumenbeam Medium Snoot, Lumenbeam Medium Snoot Wide, Lumenbeam Medium Visor, Lumenbeam Medium Linear Spread Lens Adjustable, Lumenbeam Medium Wire Guard, Lumenbeam Medium Dome Lens
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® Expert Control Kit (EXPERT)
Diagnostic and Addressing Tools	LumenID (LID)

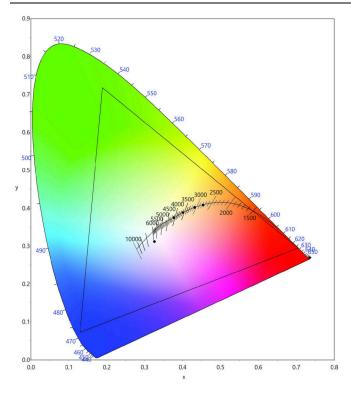
Important

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

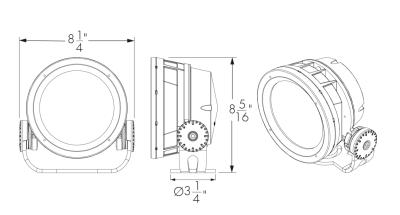
	Dominant Chromaticity		naticity
	Wavelength	Cx	Су
Red	~628nm	0.7050	0.2949
Green	~531nm	0.1885	0.7178
Blue	~471nm	0.1298	0.0726
Amber	~591nm	0.5755	0.4126

	Cx	Су
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

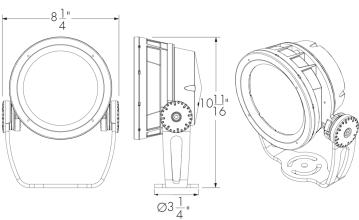
Values measured from Steady State Full on Optidrive @ 25°C ambient conditions.

Mounting Options

SRY - Short Rotational Yoke



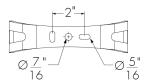
RY - Rotational Yoke



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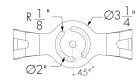
Mounting Details

Mounting Hole Pattern - Standard And Short Yoke



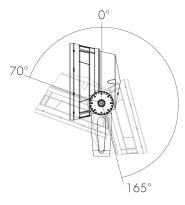
3 bolts are required for wind and vibration resistance, provided by others.

Mounting Hole Pattern - Rotational Yoke



3 bolts are required for wind and vibration resistance, provided by others.

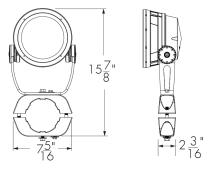
Adjustable Pivot Limits



Standard Yoke

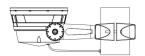
Mounting Accessories (Order Separately)

Round Pole Mounting Accessory

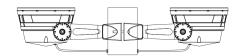


PM4 model shown.

Consult factory for square pole section.



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

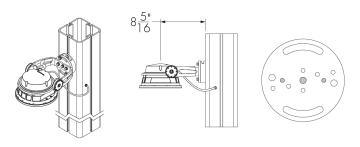


PM4-2, PM4.5-2, PM5-2 - Round pole mounting accessory - twin fixtures
*One bracket assembly is supplied per 2 fixtures unless otherwise specified.

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

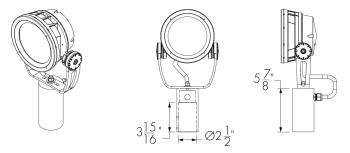
Consult factory for other pole diameters.

PLTU - Universal Yoke



Refer to the Universal Yoke specification sheet and Pole installation instructions for more details. Square Lumentech profile shown. The mounting holes used for this fixture are shown in gray.

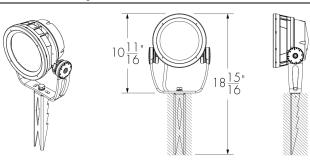
Tenon Adapter

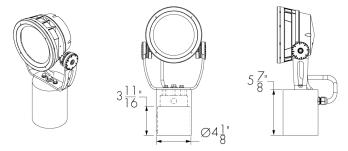


TN2 - Tenon adapter to fit on 2 3/8 in O.D. tenon

Vertical mounting only. Consult factory for horizontal mounting.

SK - Stake Mounting





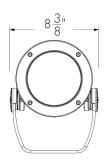
TN4 - Tenon adpater to fit on 4 in O.D. tenon

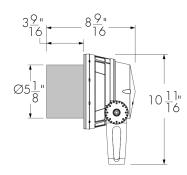
Vertical mounting only. Consult factory for horizontal mounting.

Optical Accessories (Order Separately)

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

SN - Snoot

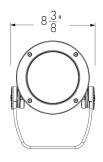


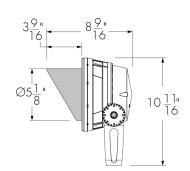


LBMSN-FINISH-BK-OPTIONS (CRC)

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

VS - Visor

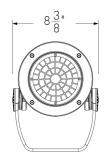


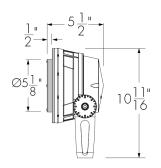


LBMVS-FINISH-BK-OPTIONS (CRC)

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

WG - Wire Guard



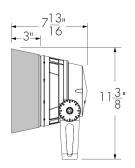


LBMWG-FINISH-OPTIONS (CRC)

Please specify the exterior ${f FINISH}$ from the list of finishes in the fixture order code.

SNW - Snoot Wide



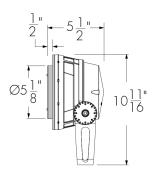


LBMSNW-FINISH-BK-OPTIONS (CRC)

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

LSLA - Linear Spread Lens Adjustable





LBMLSLA-FINISH-OPTIONS (CRC)

Please specify the exterior $\mbox{\it FINISH}$ from the list of finishes in the fixture order code.

Accessory Combinations

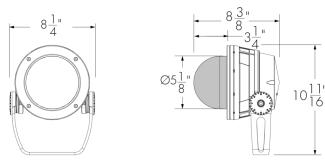
+	Snoot	Snoot wide	Visor
Linear spread lens adjustable	LBMSNLSLA	N/A*	LBMVSLSLA
Wire guard	LBMSNWG	N/A	LBMVSVVG

Accessory combinations must be ordered together on a single line.

Ex: A snoot + wire guard combination order code is LBMSNWG-FINISH-BKOPTIONS. A maximum of two accessories can be combined per fixture.

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

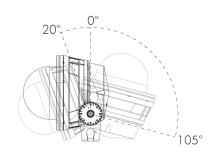
DM - Dome Lens



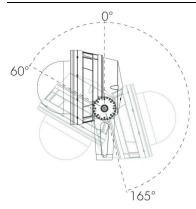
LBMDM-FINISH-OPTIONS (CRC)

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

Dome - Short Yoke - Pivot limits



Dome - Standard Yoke - Pivot limits



Dome Lens is available with WFL Optic only. The WFL optic must be specified for the fixture.

Dome Lens cannot be combined with other optical accessories.

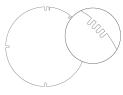
Dome Lens will affect beam distribution. Consult factory for application support and photometric performance.

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

Diffuser Lens 1 (1 Notch)

147671

Diffuser Lens 4 (4 Notches)



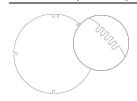
147674

Diffuser Lens 2 (2 Notches)



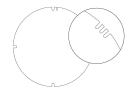
147672

Diffuser Lens 5 (5 Notches)



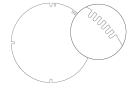
147675

Diffuser Lens 3 (3 Notches)



147673

Diffuser Lens 6 (6 Notches)



147676

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								
VN (6°)	NS		NF		FL FL	WFL				
NS (10°)			INF	M	ΓL	VVFL				
NF (20°)										
M (30°)				FL	WFL					
FL (40°)					VVFL					
WFL (60°)						VVVFL				
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: LBS: LBALK-S LBM/LBMP: LBALK-M LBL/LBLP: LBALK-L LBG/LBGP: LBALK-G LBX/LBXP: LBALK-y

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

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

Control Boxes (Order Separately)

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





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

CBX-ENET - Ethernet Enabled (Daisy Chain or Star Configuration)





Ethernet control box. Up to four power and data outputs to fixture or fixture runs. Consult Ethernet CBX specification sheet and installation instructions for details.

Control Systems (Order Separately)

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® 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)

EPA Guide

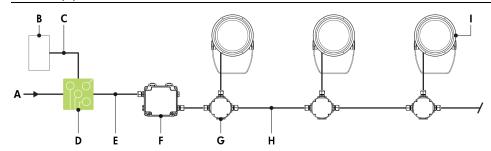
	LBM	LBM LBM with Snoot LBM with Visor		LBM with Snoot Wide	LBM with Dome Lens	
EPA front (sq ft)	0.437	0.437	0.437	0.578	0.437	
EPA side (sq ft)	0.178	0.317	0.317	0.301	0.214	

Typical Wiring Diagrams

Wiring Color Code

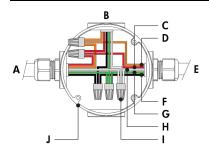
UL Color Code	USE
Green	Ground
Black	Line
White	Line/Neutral
Red or Purple	0-10V / Data +
Orange	0-10V / Data -
Gray	Signal common (DMX/RDM only)

Lumentalk (LT) RGB-RGBW30K-RGBW40K-RGBA



- A Power input (100-277V AC, wiring by others)
- **B** DMX/RDM controller (order separately from Lumenpulse, or by others)
- C Data wiring (by others)
- **D** Lumentranslator 2 (LTL2-DMX)
- E Power wiring (by others)
- **F** Lumentalk Data Bridge (LDB-DMX)
- G Junction box (by others)
- H Power and data wiring (by others)
- I Lumenbeam Medium

Lumentalk (LT) - Wiring Detail Using LDB

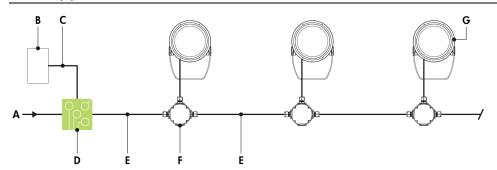


- A From Lumentalk Data Bridge (control over power line via Lumentalk system) or from previous fixture
- B To fixture
- C 0-10 V + / Data +
- D 0-10 V / Data -
- E To next fixture
- F Line
- G Ground
- H Line/Neutral
- I Wire-nut (by others)
- J Junction box (by others)
- Consult factory for specific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

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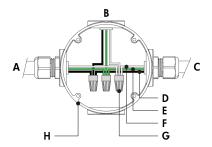
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Lumentalk (LT) MRGBA-MRGBWP-MRGRBWP



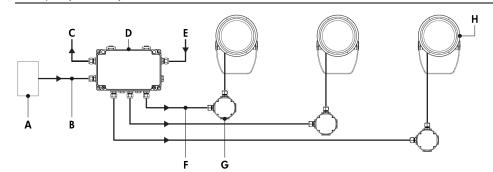
- A Power input (100-277V AC, wiring by others)
- **B** DMX/RDM controller (order separately from Lumenpulse, or by others)
- C Data wiring (by others)
- **D** Lumentranslator 2 (LTL2-DMX)
- **E** Power wiring (by others)
- F Junction box (by others)
- **G** Lumenbeam Medium

Lumentalk (LT) - Wiring Detail



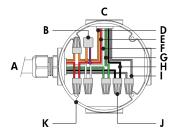
- A Power input (control over power line via Lumentalk system) or from previous fixture
- B To fixture
- C To next fixture
- **D** Line
- E Ground
- F Line/Neutral
- G Wire-nut (by others)
- **H** Junction box (by others)
- Consult factory for specific applications and maximum fixture count/cable length 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 MRGRBWP).

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

Star Layout (DMX/RDM) - Wiring Detail



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

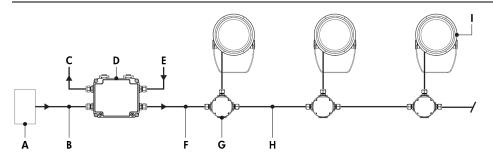
Maximum Fixture Count Per Run

Configuration/Voltage	120V	208V	240V	277V
LBM	29	32	32	32

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

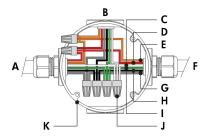
- Consult CBX installation instructions for additional wiring details.
- · Consult factory for specific applications and maximum fixture count/cable length recommendations.
- The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run.
- Maximum of 4 DMX/RDM repeaters/CBX cascading in line.
- Maximum of 6 outputs per CBX-ST.
- RGB color mixture option requires 3 DMX addresses. RGBW30K, RGBW40K, RGBA, MRGBA, MRGBWP and MRGRBWP color mixture options require 4 DMX
- 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 MRGRBWP).

Daisy Chain Layout (DMX/RDM)



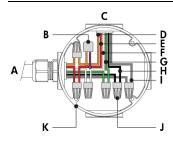
- A DMX/RDM controller (order separately from Lumenpulse, or by others)
- B Data input (Belden 9841 or equivalent, by others)
- C Data output to next CBX (optional, not isolated/not boosted)
- D CBX-DS
- E Power input (100-277V AC, wiring by others)
- F Power and data output to fixture (wiring by others)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

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



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

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



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

Maximum Fixture Count Per Run

Configuration/Voltage	120V	208V	240V	277V
LBM	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 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 MRGRBWP 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 MRGRBWP).



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LBM	120	MRGBWP	NS		Unselected	DMX/RDM	3GV	UL	Unselected	Unselected	
Housing	Voltage	Color and Color Temperature	Optic	Optical Option (14) (16) (17)	Finish	Control (21) (22)	Option	Certification	Cable Length	Cable Color	Buy America.n Act
LBM Lumenbeam Medium	100 100 Volts 120 120 Volts 208 208 Volts 220 220 Volts 240 240 Volts 277 277 Volts	MRGBWP Opticolor+TM Mix-at- Source Red, Green, Blue Plus Whitle Settable Range 24K to 45K (1) (2) (3) (4) (9) MRGBA OpticolorTM Mix-at- Source Red, Green, Blue, PC Amber (1) (6) RGBA Discrete Red, Green Bue, Amber RGBW30K Discrete Red, Green, Blue, White 30K (6) RGBW40K Discrete Red, Green, Blue, White 40K (6) RGB Discrete Red, Green, Blue White 40K (6) RGB Discrete Red, Green, Blue MRGRBWP Opticolor+TM Mix-at- Source Red, Green, Royal Blue Plus White Settable Range 24K to 65K (1) (3) (4) (5) (7) (8) (9)	VN Very Narrow &* (10) (11) NS Narrow Spot 10° (10) NF Narrow Flood 20° (10) M Medium 30° (10) FL Flood 40° (10) WFL Wide Flood &0° (10) (12) VWFL Very Wide Flood 90° (10) (13) NAS Narrow Asymmetric (10) WW Asymmetric Wallwash (10) (11)	LSLH Linear Spread Lens Horizontal Distribution (15) LSLV Linear Spread Lens Vertical Distribution (15)	BK Black Sandtex® BRZ Bronze Sandtex® SI Silver Sandtex® WH Smooth White BKTX Textured Black BRZIX Textured Bronze Non-Metallic GRATX Textured Medium Gray GRNTX Textured Green WHIX Textured White CC Custom Color & Finish (18) (19) (20)	LT Lumentalk (13) (22) (23) DMX/RDM Enabled Dimming (24) (25) DALIT8 DALI 2 18 Enabled Dimming (0.1)% (5) (26)	SY Short Yoke SRY Short Rotational Yoke (27) RY Rotational Yoke (27) 3GV 3GANSI C136.31-2010 Vibration Rating for Bridge Applications CRC Corrosion- Resistant Coating (28) (29)	UL UL Compliant CE CE Compliant (30) CEII CE CE Dompliant Class II Double Insulated (30)	3FT 3 ff (25) (31) 10FT 10 ff 20FT 20 ff 30FT 30 ff 50FT 70 ff 100FT 100 ff	BK Black WH White (32)	BAA Buy America.n ⁽³²⁾

Notes:

- 1. Not available for VN, NAS and WW optics.
- 2. Consult factory for the availability of more color and CCT options (e.g. royal blue).
- 3. MRGBWP and MRGRBWP can be configured to MRGB via RDM, consult factory for more details.
- 4. 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+TM the white CCT is configurable in the field from 2200K-8000K.
- 5. Consult factory for DALI T8 applications with MRGBWP or MRGRBWP and a CCT other than 3000K.
- 6. Consult factory for availability of other color options such as Royal Blue.
- 7. Longer lead time of 10-12 weeks.
- 8. Consult factory for the availability of more color and CCT options.
- 9. Consult factory for photometric performance. 10. Factory installed, not interchangeable on site
- 11. Not available with MRGBA, MRGBWP and MRGRBWP color temperature options.
- 12. A dome lens accessory is available, order separately. For compatibility, a WFL optic must be specified for the fixture.
 13. Available with MRGBA, MRGBWP and MRGRBWP color temperature options only.
- 14. Optical options are factory installed and cannot be changed in the field.
- 15. Field adjustable spread lens optical accessory available, order separately.
- 16. Not available with WFL, NAS and WW optics when combined with RGB color temperature option.
- 17. Not available with VN, WFL, VWFL, NA\$ and WW optics when combined with MRGBA, MRGBWP or MRGRBWP color temperature options.

- 18. 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.
- Setup charges apply for RAL colors. Consult factory for details.
 Longer lead times can be expected for custom RAL color finishes.
- $\textbf{21.} \ For \ RGB, \ RGBW30K, \ RGBW40K \ and \ RGBA \ applications, \ a \ Lumentalk \ system \ is \ enabled \ with \ LDB-DMX \ accessory, \ DMX/RDM \ accessory, \ Accessory, \ DMX/RDM \ accessory, \ Accessory,$ must be specified in the order code. See the typical wiring diagrams in the specification sheet for details.
- 22. A Lumentranslator 2 (LTL2) and LumenID (LID) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.
- 23. Not available with CEII certification option.
- 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. Consult factory for applications with 3GV requirements.
- 28. Use only when exposed to salt spray. This option is not required for normal outdoor exposure.
 29. Setup charges apply. Consult factory for details.
- 30. Consult European specification sheets and installation instructions for CE and CE Class II wiring information.
- 31, 3 ft cable length is standard unless otherwise specified.
- 32. Not available with CE or CEII certification options.
- 33. Contact your Lumenpulse Sales Representative for more information on order volume details



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