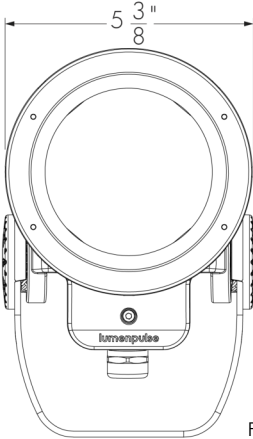


Project Name _____

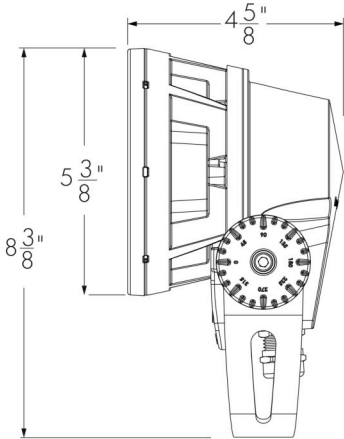
Qty _____

Type _____

Catalog / Part Number _____



Front View



Side View

Photometric Summary (Discrete RGB)

Symétrique

	Lumens délivrés (lm)	Intensité lumineuse (cd)
VN (6°)	734	35 285
NS (10°)	706	24 627
NF (20°)	646	5477
M (30°)	619	2859
FL (40°)	601	1704
WFL (60°)	488	396
VWFL (90°)		

Asymétrique

NAS	659	10 507 (@2.5°)
WW	605	2681 (@5°)

1. Based on RGB full output.
2. Photometric performance is measured in compliance with IESNA LM-79-24.
3. Refer to the [Lumenbeam 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 [Lumenbeam Color Changing Photometric Guide](#) on Lumenpulse website for information on other color temperatures.

Description

The Lumenbeam Small Color Changing is a compact, 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)	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)

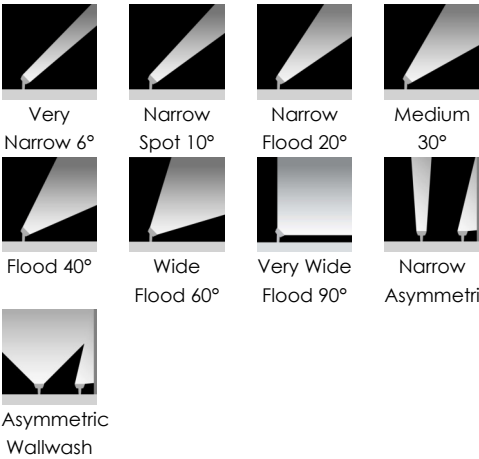
Optical Option	LSLH: Linear Spread Lens Horizontal Distribution LSLV: Linear Spread Lens Vertical Distribution
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Photometric Summary (Opticolor MRGBA)

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 Lumenbeam Color Changing Photometric Guide on Lumenpulse website for information on other color temperatures.

Optic



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

Discrete

Discrete Red, Green, Blue

Opticolor+®

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

Control

DMX/RDM DALI T8

Ratings

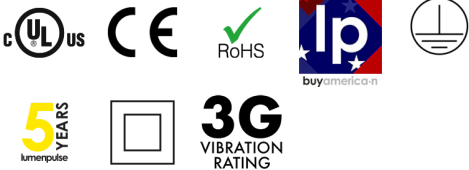
IP66 IK07

Mounting Option	SK: Stake Mounting KN: Knuckle Mounting CN: Canopy Mounting Option (for Mounting on a Standard Round Junction Box)
Option	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	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)
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
Yoke Material	Heavy aluminum
Lens Material	Clear tempered glass
Dome Lens Material	Acrylic
Hardware Material	Stainless steel
Gasket Material	Silicone
Surface Finish	Electrostatically applied polyester powder coat
Weight	5.2 lbs
EPA	Front = 0.19 ft², Side = 0.11 ft²

Lumencycle™ Program



Certifications



Electrical and Control

Voltage	100 to 277 volts
Fixture Cable	Power and data in one cable
Conductors	5C #16-5 (DALI8 control) 6C #14-3/ #24-3 (DMX/RDM 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 (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	IK07
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	Lumenbeam Small Snoot, Lumenbeam Small Visor, Lumenbeam Small Linear Spread Lens Adjustable, Lumenbeam Small Wire Guard, Lumenbeam Small 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® 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.
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Important

Virtual Patent Marking Notice

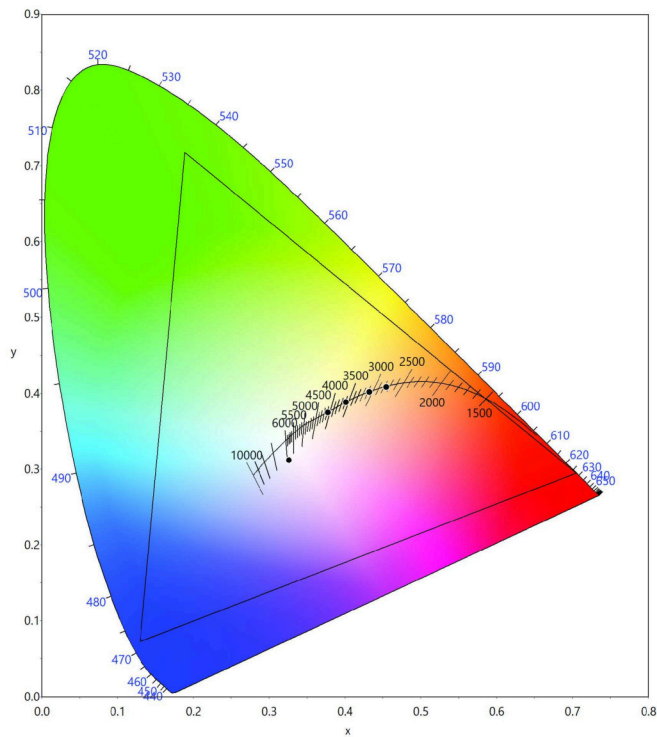
This website (<https://www.lripg.com/patents-trademarks>) is provided to satisfy the virtual patent marking provisions of applicable jurisdictions. Some products listed may be covered by additional patents not referenced here.

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

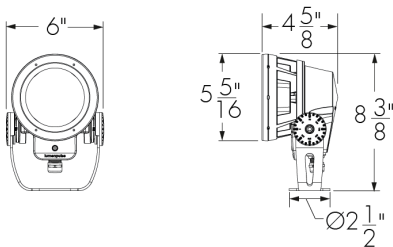
	Dominant Wavelength	Chromaticity	
		Cx	Cy
Red	~628nm	0.7050	0.2949
Green	~531nm	0.1885	0.7178
Blue	~471nm	0.1298	0.0726
Amber	~591nm	0.5755	0.4126

	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.

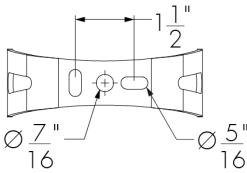
Mounting Options

RY - Rotational Yoke



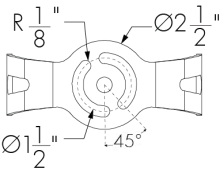
Mounting Details

Mounting Hole Pattern - Standard Yoke



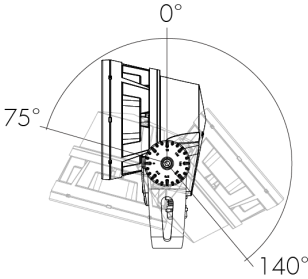
3 bolts are required for wind and vibration resistance, provided by others.

Mounting Hole Pattern - Rotational Yoke



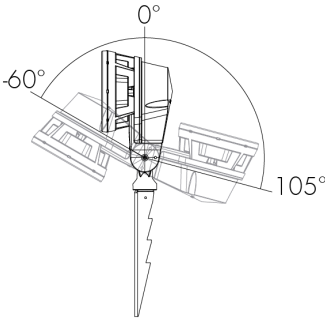
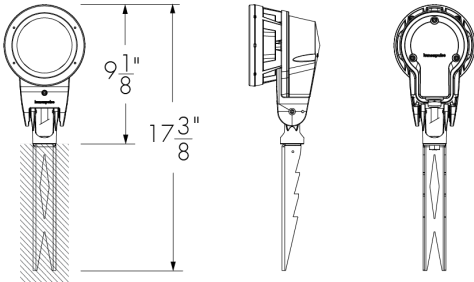
3 bolts are required for wind and vibration resistance, provided by others.

Adjustable Pivot Limits



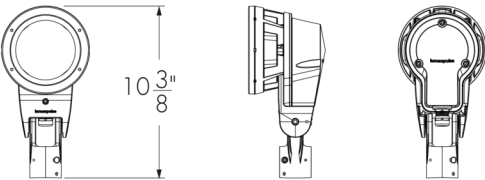
Mounting Options

SK - Stake Mounting

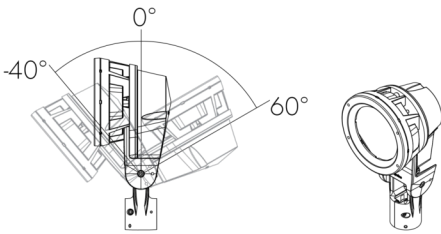


Adjustable Pivot Limits

KN - Knuckle Mounting

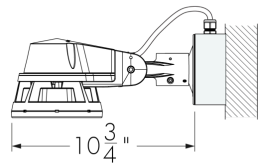


Suitable for 1/2 in, 3/4 in, and 1 in pipe diameter

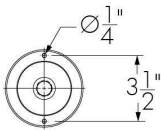


Adjustable Pivot Limits

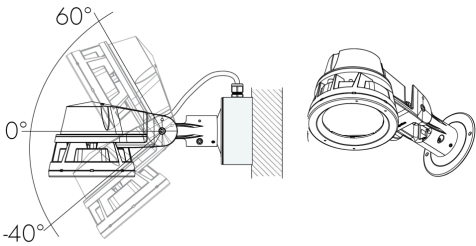
CN - Canopy Cover



Suitable for standard round junction boxes, surface mounted



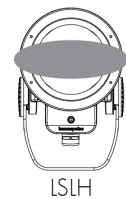
Mounting Hole Pattern



Adjustable Pivot Limits

Optical Options – Discrete

LSLH - Linear Spread Lens Horizontal Distribution



LSLV - Linear Spread Lens Vertical Distribution



Beam Angles

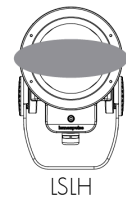
Optic installed in fixture	Beam angle with LSLH/LSLV
VN	7° x 60°
NS	13° x 66°
NF	16° x 62°
M	23° x 65°
FL	33° x 70°

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

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).

Optical Options - Opticolor™ and Opticolor+

LSLH - Linear Spread Lens Horizontal Distribution



LSLV - Linear Spread Lens Vertical Distribution



Beam Angles

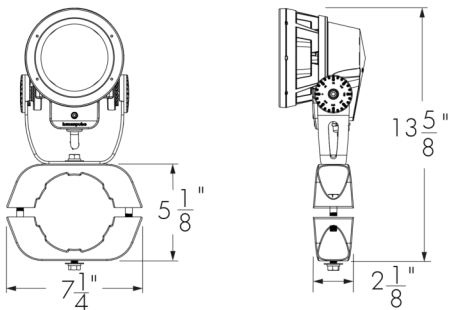
Optic installed in fixture	Beam angle with LSLH/LSLV
NS	11° x 61°
NF	19° x 66°
M	26° x 70°
FL	31° x 71°

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

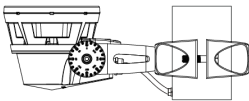
Factory installed, not adjustable on site. Not available for VN, WFL, VWFL, NAS and WW optics.
See 'Optical Accessories' section for field adjustable spread lens (LSLA).

Mounting Accessories (Order Separately)

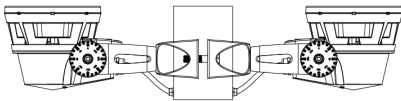
Round Pole Mounting Accessory



PM4 model shown.
Consult factory for square pole section.



PM4-1, PM4.5-1, PM5-1 - Round Pole Mounting Accessory - Single Fixture

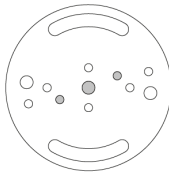
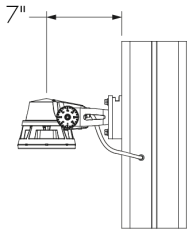
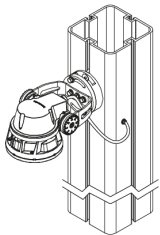


PM4-2, PM4.5-2, PM5-2 - Round Pole Mounting Accessory - Twin Fixtures
*One bracket assembly is supplied per 2 fixtures unless otherwise specified.

	PM4	PM4.5	PM5
For pole Ø	4" ± 1/16	4.5" ± 1/16	5" ± 1/16

Consult factory for other pole diameters.

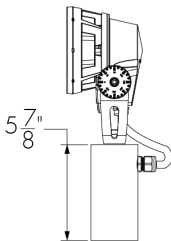
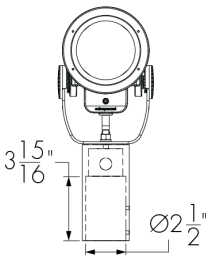
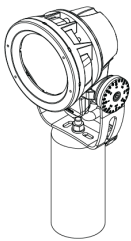
PLTU - Universal Yoke



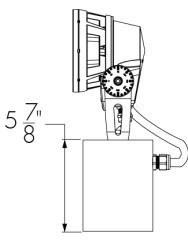
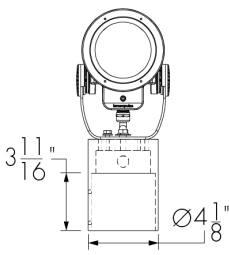
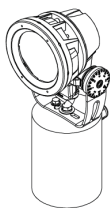
Refer to the Universal Yoke specification sheet and Pole installation instructions for more details. Square Lumentech profile shown.

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

Tenon Adapter



TN2 - Tenon Adapter to Fit on 2 3/8 in O.D. Tenon
Vertical mounting only. Consult factory for horizontal mounting.

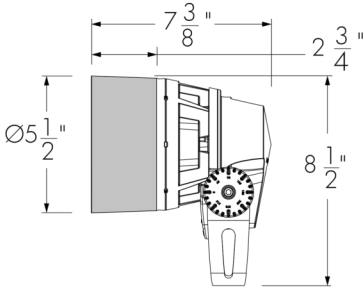


TN4 - Tenon Adpater to Fit on 4 in O.D. Tenon
Vertical mounting only. Consult factory for horizontal mounting.

Optical Accessories (Order Separately)

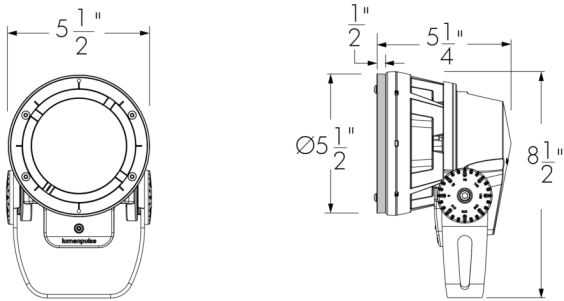
Installed optical accessories will affect the maximum pivot limits for each mounting option, consult factory for details.

SN - Snoot



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

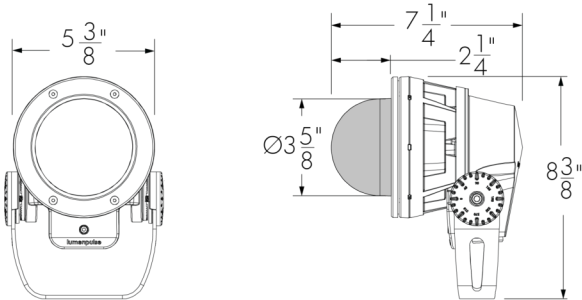
LSLA - Linear Spread Lens Adjustable



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

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

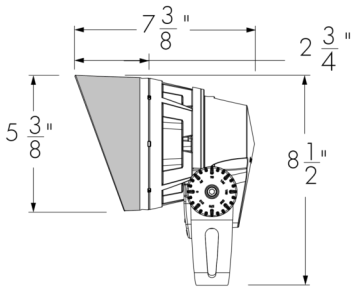
DM - Dome Lens



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

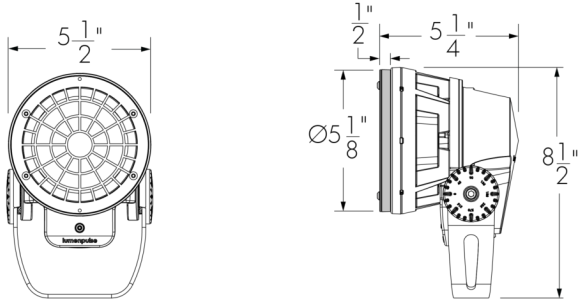
Dome Lens is available with WFL Optic only. The WFL optic must be specified for the fixture.
Dome Lens cannot be combined with other optical accessories.
Dome Lens will affect beam distribution. Consult factory for application support and photometric performance.

VS - Visor



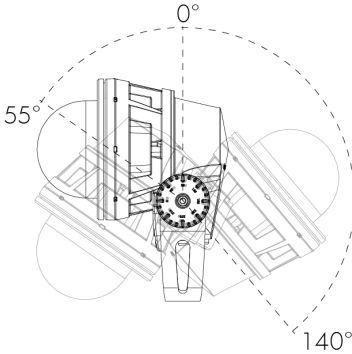
LBSVS-FINISH-BK-OPTIONS (CRC)
Interior surface painted black. Please specify the exterior **FINISH** from the list of finishes in the fixture order code.

WG - Wire Guard



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

Dome - Standard Yoke - Pivot limits



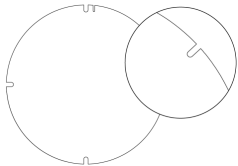
Accessory Combinations

	+	Snoot	Visor
Linear spread lens adjustable		LBSSNLSLA	LBSVSLSLA
Wire guard		LBSSNWWG	LBSVSWWG

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

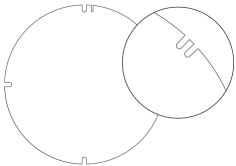
Diffuser Lenses (Intended for Mockup Purposes Only, Order Separately)

Diffuser Lens 1 (1 Notch)



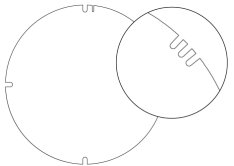
147665

Diffuser Lens 2 (2 Notches)



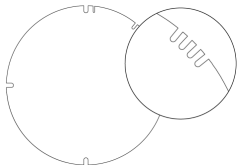
147666

Diffuser Lens 3 (3 Notches)



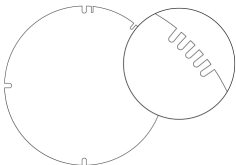
147667

Diffuser Lens 4 (4 Notches)



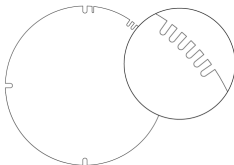
147668

Diffuser Lens 5 (5 Notches)



147669

Diffuser Lens 6 (6 Notches)



147670

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: **LBS**: LBALK-S **LBM/LBMP**: LBALK-M **LBL/LBLP**: LBALK-L **LBG/LBGP**: LBALK-G **LBX/LBXP**: LBALK-X.

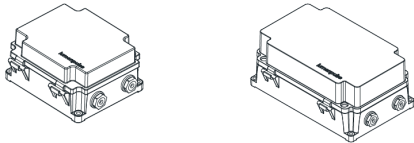
The diffuser lenses are intended for mockup purposes only. A lens holder is required to install a diffuser lens on the fixture, order separately using the following names: **LBS**: LBSLSLA-FINISH-LBALK **LBM/LBMP**: LBMLSLSLA-FINISH-LBALK **LBL/LBLP**: LBLLSLSLA-FINISH-LBALK **LBG/LBGP**: LBGLSLA-FINISH-LBALK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

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

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

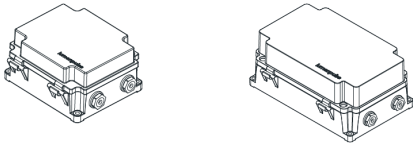
Control Boxes (Order Separately)

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



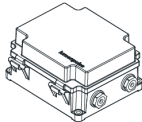
DMX/RDM control box. Up to six power and data outputs to fixtures or fixture runs. Consult CBX specification sheet and installation instructions for details. Lumenterminators provided with CBX (2x for Daisy Chain configuration, 6x for Star configuration), consult factory to order spares.

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



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

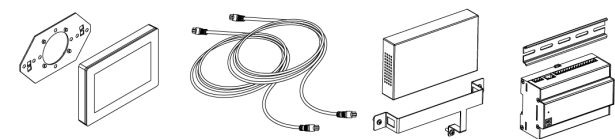
LDB - Lumentalk Data Bridge



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

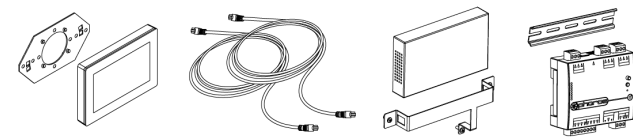
Control Systems (Order Separately)

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

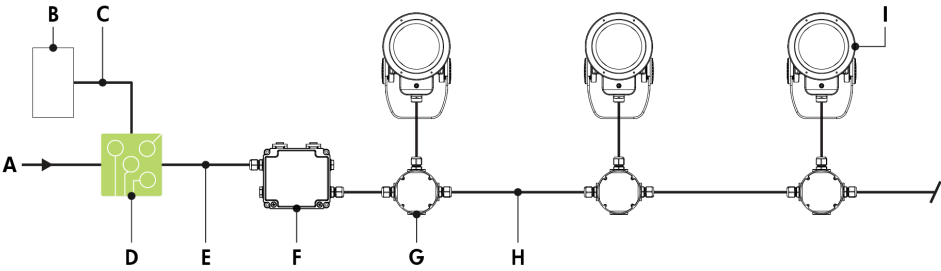
	LBS	LBS with Snoot	LBS with Visor	LBS with Dome Lens
EPA front (sq ft)	0.188	0.188	0.188	0.188
EPA side (sq ft)	0.113	0.186	0.176	0.133

Typical Wiring Diagrams

Wiring Color Code

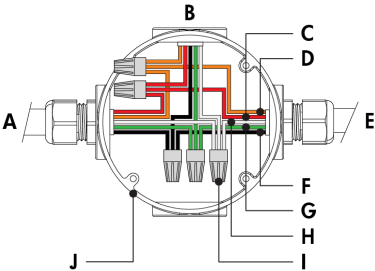
UL Color Code	USE
Green	Ground
Black	Line
White	Line/Neutral
Red or Purple	0-10V / Data +
Orange	0-10V / Data -
Gray	Signal common (DMX/RDM only)

Lumentalk (LT)



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

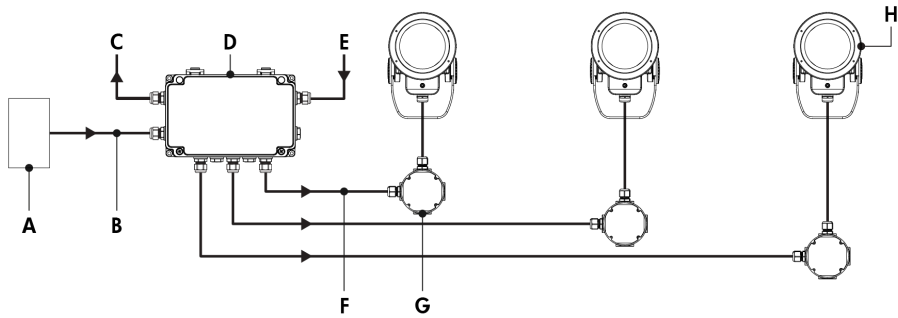
Lumentalk (LT) - Wiring Detail Using LDB



- 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)

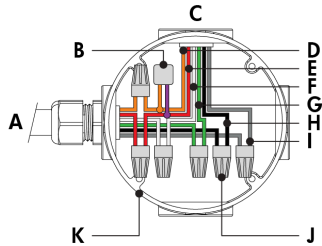
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Lumentalk Data Bridge required for Lumentalk system, see LDB installation instructions for details. Fixtures must be specified as DMX/RDM and the Lumentalk Data Bridge must be specified as DMX. 2-step 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), 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 (100-277V AC, wiring by others)
- F - Power and data output to fixture (by others)
- G - Junction box (by others)
- H - Lumenbeam Small

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)

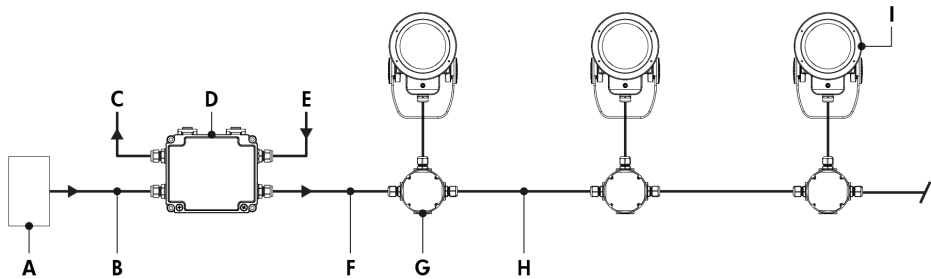
Maximum Fixture Count Per Run

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

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

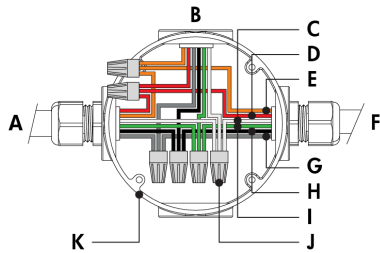
- Consult CBX installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run.
- Maximum of 4 DMX/RDM repeaters/CBX cascading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



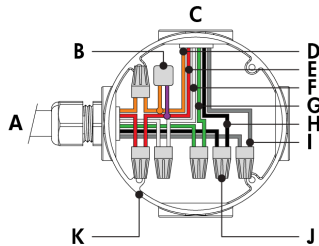
- A - DMX/RDM controller (order separately from Lumenpulse, or by others)
- B - Data input (Belden 9841 or equivalent, by others)
- C - Data output to next CBX (optional, not isolated/not boosted)
- D - CBX-DS
- E - Power input (100-277V AC, wiring by others)
- F - Power and data output to fixture (wiring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

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)

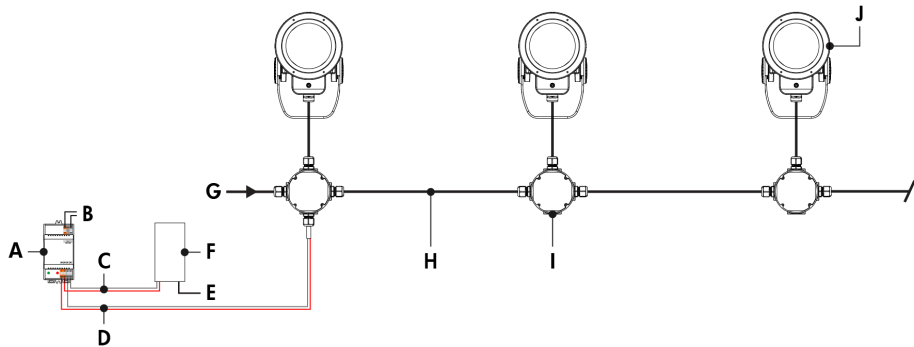
Maximum Fixture Count Per Run

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

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

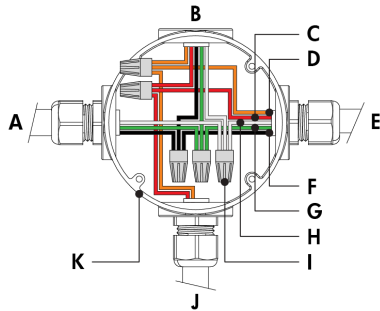
- Consult CBX installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run.
- Maximum of 4 DMX/RDM repeaters/CBX cascading in line.
- Maximum of 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 (100-277V AC, wiring by others)
- H - Power and data wiring (by others)
- I - Junction box (by others)
- J - Lumenbeam 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 Lumenbeam 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	Color and Color Temperature ⁽¹⁾	Optic	Optical Option ^{(14) (16) (17)}	Finish	Control ^{(21) (24)}	Mounting Option ⁽²⁶⁾	Option	Certification	Cable Length ^{(23) (32)}	Cable Color	Buy America.n Act
LBS Lumenbeam™ Small	100 100 Volts	MRGBWP Opticolor+® Mix-at-Source Red, Green, Blue Plus White Settable Range 24K to 65K ^{(2) (3) (4) (5) (6)} MRGBA Opticolor™ Mix-at-Source Red, Green, Blue, PC Amber ^{(2) (7)} RGB Discrete Red, Green, Blue MRGROYWP Opticolor+® Mix-at-Source Red, Green, Royal Blue Plus White Settable Range 24K to 65K ^{(2) (3) (4) (5) (6) (8) (9)}	VN Very Narrow 6° ^{(10) (11)}	LSLH Linear Spread Lens Horizontal Distribution ⁽¹⁵⁾	BK Black Sandtex®	DMX/RDM DMX/RDM Enabled Dimming ^{(22) (23)} DALI8 DALI 2 T8 Enabled Dimming 0.1% ^{(5) (25)}	SK Stake Mounting	RY Rotational Yoke ⁽²⁷⁾ 3GV 3G ANSI C136.31-2010 Vibration Rating for Bridge Applications CRC Corrosion-Resistant Coating ^{(28) (29)}	UL UL Compliant CE CE Compliant ^{(30) (31)} CEII CE Compliant Class II Double Insulated ^{(11) (30)}	3FT 3 ft ^{(23) (32)}	BK Black WH White ⁽³³⁾	BAA Buy America.n ^{(33) (34)}
	120 120 Volts		NS Narrow Spot 10° ⁽¹⁰⁾	LSLV Linear Spread Lens Vertical Distribution ⁽¹⁵⁾	BRZ Bronze Sandtex®		KN Knuckle Mounting			10FT 10 ft		
	208 208 Volts		NF Narrow Flood 20° ⁽¹⁰⁾		SI Silver Sandtex®		CN Canopy Mounting Option			20FT 20 ft		
	220 220 Volts		M Medium 30° ⁽¹⁰⁾		WH Smooth White					30FT 30 ft		
	240 240 Volts		FL Flood 40° ⁽¹⁰⁾		BKTX Textured Black					50FT 50 ft		
	277 277 Volts		WFL Wide Flood 60° ^{(10) (12)}		BRZTX Textured Bronze Non-Metallic					70FT 70 ft		
			VWFL Very Wide Flood 90° ^{(10) (13)}		GRATX Textured Medium Gray					100FT 100 ft		
			NAS Narrow Asymmetric ^{(10) (11)}		GRNTX Textured Green							
			WW Asymmetric Wallwash ^{(10) (11)}		WHTX Textured White							
					CC Custom Color & Finish ^{(18) (19) (20)}							

Notes:

1. White Channel Set Point or Warm Dimming Range is adjustable at commissioning. Consult Opticolor+ Personality Guide for details.

2. Not available for VN, NAS and WW optics.

3. Consult factory for the availability of more color and CCT options.

4. MRGBWP and MRGROYWP can be configured to MRGB via RDM, consult factory for more details.

5. Consult factory for DALI T8 applications with MRGBWP or MRGROYWP and a CCT other than 3000K.

6. 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.

7. Consult factory for availability of other color options such as Royal Blue.

8. Longer lead time of 10-12 weeks.

9. Consult factory for photometric performance.

10. Factory installed, not interchangeable on site.

11. Not available with MRGBA, MRGBWP and MRGROYWP 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 MRGROYWP 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, NAS and WW optics when combined with MRGBA, MRGBWP or MRGROYWP 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.

19. Setup charges apply for RAL colors. Consult factory for details.

20. Longer lead times can be expected for custom RAL color finishes.

21. 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.

22. A control box (CBX) and LumenID (LID) must be specified.

23. Maximum of 3 ft cable length for daisy chain DMX applications with CBX-DS.

24. A Lumentranslator 2 (LTL2) and LumenID (LID) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.

25. DALI 2 T8 controller required, provided by others. DALI 2 T8 control uses a single DALI short address.

26. The standard yoke is provided unless an alternate mounting option is specified as part of the order code.

27. The Rotational Yoke cannot be combined with any other mounting option.

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. Not available with DALI8 control option when combined with RGB color temperature option.

32. 3 ft cable length is standard unless otherwise specified.

33. Not available with CE or CEII certification options.

34. Contact your Lumenpulse Sales Representative for more information on order volume details.