INSTALLATION INSTRUCTIONS

lumenbeam™

MEDIUM, LARGE, GRANDE AND XLARGE
WHITE & STATIC COLORS
COLOR CHANGING
DYNAMIC WHITE

⚠ This product must be installed in accordance with applicable national and local electrical and construction codes by a person familiar with the construction and operation of the product and the hazards involved. Failure to comply with the following installation instructions may result in death or serious injury.

⚠ **WARNING**
SEPARATION OF FIELD INSTALLED POWER LIMITED CIRCUIT (DIMMING/CONTROL) WIRING FROM THE BRANCH CIRCUIT WIRING IN THE OUTLET BOX ARE TO BE MADE IN ACCORDANCE WITH LOCAL AND/OR NATIONAL ELECTRICAL INSTALLATION CODES.

⚠ **WARNING**
DISCONNECT POWER BEFORE INSTALLING OR SERVICING TO AVOID ELECTRICAL SHOCK.

⚠ **WARNING**
DO NOT EXCEED FIXTURE SPECIFIED VOLTAGE.

⚠ **WARNING**
MAXIMUM CABLE DIAMETER : #16-5 (TO FIT 1/2" NPT, PG16 OR 20MM STRAIN RELIEF, BY OTHERS).

⚠ **WARNING**
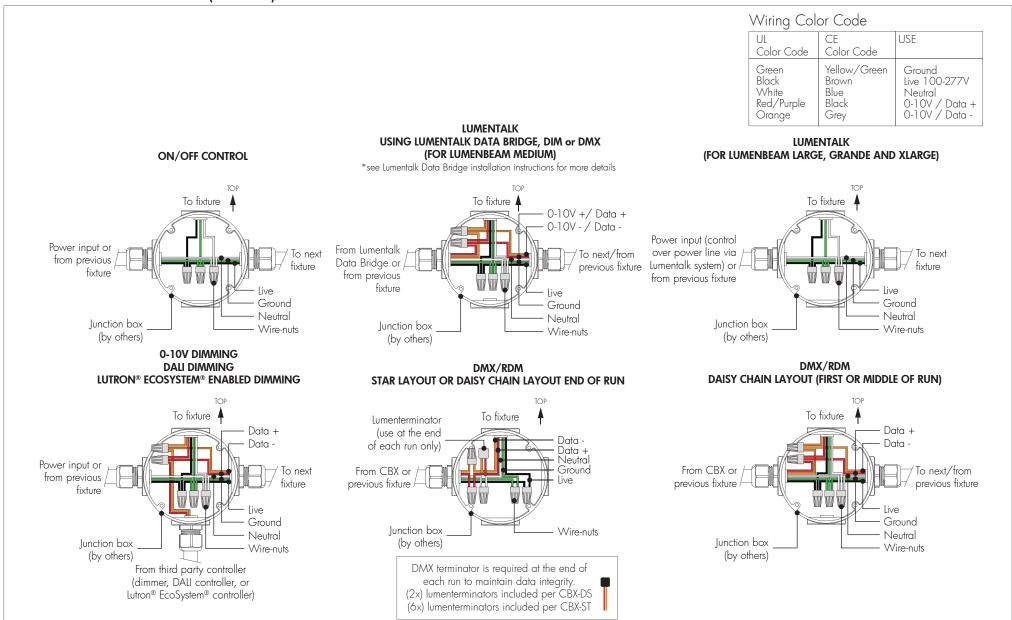FIXTURE CORD SHOULD BE FED THROUGH THE TOP KNOCKOUT HOLE OF THE JBOX.

⚠ **WARNING**
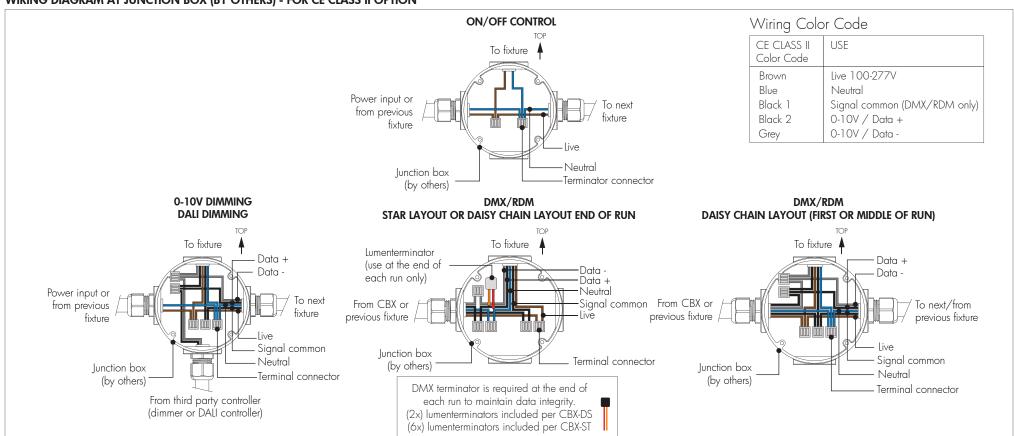DO NOT USE IF FIXTURE, PARTS OR CONNECTORS ARE DAMAGED.

CAUTION
UNAUTHORIZED FIELD REPAIRS WILL VOID WARRANTY.

WIRING DIAGRAM AT JUNCTION BOX (BY OTHERS) - FOR UL OR CE OPTIONS

Wiring Color Code

UL Color Code	CE Color Code	USE
Green	Yellow/Green	Ground
Black	Brown	Live 100-277V
White	Blue	Neutral
Red/Purple	Black	0-10V / Data +
Orange	Grey	0-10V / Data -

ON/OFF CONTROL

LUMENTALK USING LUMENTALK DATA BRIDGE, DIM or DMX (FOR LUMENBEAM MEDIUM)
*see Lumentalk Data Bridge installation instructions for more details

LUMENTALK (FOR LUMENBEAM LARGE, GRANDE AND XLARGE)

0-10V DIMMING / DALI DIMMING / LUTRON® ECOSYSTEM® ENABLED DIMMING

DMX/RDM STAR LAYOUT OR DAISY CHAIN LAYOUT END OF RUN

DMX/RDM DAISY CHAIN LAYOUT (FIRST OR MIDDLE OF RUN)

DMX terminator is required at the end of each run to maintain data integrity.
(2x) lumenterminators included per CBX-DS
(6x) lumenterminators included per CBX-ST

WIRING DIAGRAM AT JUNCTION BOX (BY OTHERS) - FOR CE CLASS II OPTION

ON/OFF CONTROL

Wiring Color Code

CE CLASS II Color Code	USE
Brown	Live 100-277V
Blue	Neutral
Black 1	Signal common (DMX/RDM only)
Black 2	0-10V / Data +
Grey	0-10V / Data -

0-10V DIMMING / DALI DIMMING

DMX/RDM STAR LAYOUT OR DAISY CHAIN LAYOUT END OF RUN

DMX/RDM DAISY CHAIN LAYOUT (FIRST OR MIDDLE OF RUN)

DMX terminator is required at the end of each run to maintain data integrity.
(2x) lumenterminators included per CBX-DS
(6x) lumenterminators included per CBX-ST

DMX/Data Cable Specification
DMX Cable from Controller to CBX and CBX to CBX shall adhere to ANSI E1.11 – 2008 (r2013) – Entertainment Technology – USITT DMX512-A, Asynchronous Serial Digital Data Transmission Standard for Controlling Lighting Equipment and Accessories. At minimum DMX Cable shall be 1-Pair (24 AWG, 7x32 Stranding)Twisted (minimum of 4.8 twists/foot), Shielded, minimum of 100 ohms Impedance, and <25 pF/ft. Capacitance.

Combined Power & Data Cable Specification
Fixture cabling from CBX to Fixtures shall be installed per NEC and Local Codes. All cables shall be SOOW style cables with minimum of 16 AWG annealed stranded bare copper per ASTM B-174 with a minimum temperature range of -40°C to +90°C. All conductor standing must be a minimum of 26/30 and capable of handling 13 amps. Cable must be water resistant, UL Listed and CSA certified for indoor and outdoor use. Must be Ozone-sunlight (UV) and weather resistant.

NOTICE
RECORD THE LOCATION OF EACH FIXTURE BY SERIAL NUMBER TO PREPARE FOR THE COMMISSIONING PROCESS (DMX/RDM).

lumenbin™, a proprietary binning method, guarantees color temperature consistency within a 3-step MacAdam ellipse.

lumentalk lumenear™ Combine lumentranslator with Lumentalk-enabled luminaires housing Lumenpulse's proprietary lumenear control card to build your Lumentalk system.

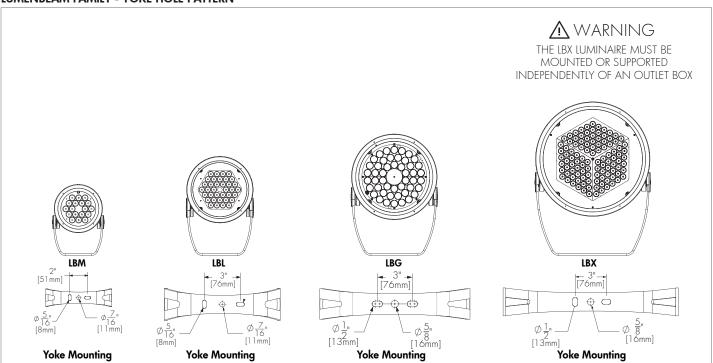# lumenpulse™

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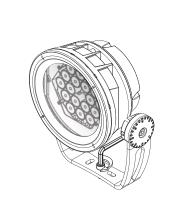# INSTALLATION INSTRUCTIONS

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LUMENBEAM FAMILY - YOKE HOLE PATTERN

⚠ WARNING
THE LBX LUMINAIRE MUST BE MOUNTED OR SUPPORTED INDEPENDENTLY OF AN OUTLET BOX

LBM
2" [51mm]
Ø 5/16" [8mm]   Ø 7/16" [11mm]
Yoke Mounting

LBL
3" [76mm]
Ø 5/16" [8mm]   Ø 7/16" [11mm]
Yoke Mounting

LBG
3" [76mm]
Ø 1/2" [13mm]   Ø 5/8" [16mm]
Yoke Mounting

LBX
3" [76mm]
Ø 1/2" [13mm]   Ø 5/8" [16mm]
Yoke Mounting

SCREW ONTO MOUNTING SURFACE

Hardware to Fix Yoke to Mounting Surface	
FIXTURE	**TYPE**
Lumenbeam Medium	3/8" or M10 bolt at center, min. 2x 1/4" or M6 bolts
Lumenbeam Large	3/8" or M10 bolt at center, min. 2x 1/4" or M6 bolts
Lumenbeam Grande & XLarge	1/2" or M14 bolt at center, min. 2x 3/8" or M10 bolts

SEAL JUNCTION BOX

RTV silicone

⚠ WARNING
FOR WET LOCATION INSTALLATIONS, USE WEATHERPROOF JUNCTION BOXES AND SEAL ALL POSSIBLE WATER ENTRY POINTS AND COVERS USING RTV SILICONE. (SEALING COMPOUND AND JUNCTION BOXES BY OTHERS)

STAKE MOUNTING ACCESSORY (SK) FOR LBM ONLY

INSTALL STAKE IN THE GROUND USING A RUBBER MALLET.

SECURE FIXTURE TO STAKE USING THE BOLT IN THE CENTER OF THE SPIKE (PROVIDED).

RECOMMENDED TORQUE: 300 lbf.in (34 N.m)

REQUIRED TOOL: RUBBER MALLET

ADJUST BEAM ORIENTATION

⚠ CAUTION
DO NOT LOOK INTO BEAM.

LOOSEN SCREWS ON YOKE

TILT FIXTURE

RE-TIGHTEN SCREWS

2X ⬡
HEX KEY SIZE: 6MM

OPTICAL ACCESSORY OPTIONS & INSTALLATION

LINEAR SPREAD LENS ADJUSTABLE

SNOOT

SNOOT WIDE

VISOR

WIRE GUARD

GASKET
ACCESSORY
HOLDER
SCREW (X4)

ACCESSORY ADJUSTMENT

REMOVE SCREWS FROM ACCESSORY

SPIN ACCESSORY TO ADJUST ORIENTATION

TIGHTEN SCREWS TO SECURE ASSEMBLY

4X ⬡
HEX KEY SIZE : 2.5MM

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