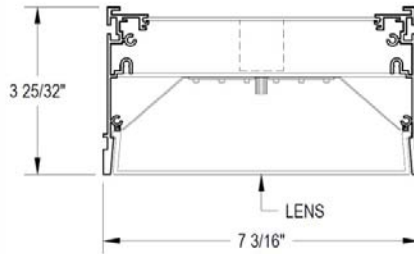




Click or scan QR code to view latest spec sheet



Revision Date: July 08, 2021
Gammalux Lighting Systems reserves the right to change details of fixture designs and construction at any time.



LED LAMPING | **MR16 AVAILABLE**
SEE ADDENDUM



Click photo to view product page
Page 1: Overview & Nomenclature
Pages 2-3: Specifications
Pages 4-5: Photometric Info / Downloads
Page 6: Mounting Details
Page 8: Custom Programming

Product Overview (for complete specifications, see pages 2 & 3)

Integration: GAMMALUX GB74RC2BX8 is approved for use in the following CertainTeed Architectural ceilings: Box 8, Deep Box 8, Multi-Box. GAMMALUX Premium fixtures are designed, engineered, & constructed for precise fit and finish for specific CertainTeed Architectural ceiling systems. GAMMALUX factory shop submittal drawings will be provided for each lighting fixture order. Fixture end cap includes field-removable flange for interface with cut panel in line with fixture.

Construction: I.C. rated. ARRA, RoHS, REACH and Prop 65 compliant. Runs can be built to match field conditions.

Unbroken Illumination: Continuous illumination via flush lenses available in medium or heavy diffusion, evenly illuminated.

Electrical: LED components by major manufacturers. Fixtures can be fitted with integral sensors, control interface devices and specialty LED components (consult factory). Standard Output, High Output and Custom Output options available.

Standard Nomenclature

<p>Manufacturer Gammalux</p> <p>Cross Section (nom) 7" x 4"</p> <p>Housing RC Recessed</p>	<p>Output S Standard Output H High Output C Custom Output (see addendum page)</p> <p>Color Temp. (nom) 27 2700K 40 4000K 30 3000K 50 5000K 35 3500K RGB/RGBW consult factory</p> <p>Length Option N Nominal S Specific</p>	<p>Driver ZTV10 0-10V Dim to 10% For all options, see next page</p> <p>Run Length Specify total run length (i.e. 43' 5 1/8")</p>	<p>Ceiling Interface BX8 Box 8 DBX8 Deep Box 8 Consult factory for all others.</p> <p>Mounting REC Recessed in ceiling. Consult factory for in-wall.</p>	<p>Paint Colors COT Gammalux match of CertainTeed Cotton White #0280 NAT Gammalux match of CertainTeed Natural #7163</p> <p>Shielding ASLMD Acrylic Satin Lens, Medium Diffuse ASLHD Acrylic Satin Lens, Heavy Diffuse</p>	<p>Reflectance 10 10% 20 20% If NAT, leave blank</p> <p>Options BPE Battery Pack (4' section) DL UL Damp Label EMERG Emergency Ckt 2CKT Dual Circuiting SBO Sensor By Others#</p>
<p>GB74RC2BX8 - 1SL358 - UNIV - ZTV10 - 4'N - REC/XXXX - ASLMD - COT10 -</p> <p>Model 2nd Gen</p> <p>Series Beam</p> <p>Housing Variant BX8 Box 8</p> <p>CRI** 8 for 80+ 9 for 90+</p> <p>Lamp LED</p> <p>Voltage 120V, 277V, UNIV</p> <p>LED Arrays in X-Sec 1</p>					

** 90+ CRI option increases wattage by nom. 14.5%. # Sensor By Others, factory installed (consult factory).

Specifications (continued on next page)

Electrical

Output: Standard (S) and high (H) options deliver a pre-set lumen package (see chart below). Custom-programmed output (C) is specified as LPF, WPF or % of High Output (see Custom Programmed Output page).

Static Driver: Osram [Optotronic](#)* programmable driver, wired for static operation (DVR).

0-10V Dimming: Osram [Optotronic](#)* programmable driver, wired for 0-10v control and dimming to 10% (ZTV10) or to 1% (ZTV1). For 0-10v dimming to 1% in lengths other than 1' increments, consult factory.

Step Dimming: Generic step dimming driver, two hot inputs for 100% and 50% output (SD2).

DALI Dimming: Generic DALI driver with two loose control wires exiting fixture at power feed location (DALI).

Lutron Dimming: [Hi-lume LTE](#) dim to 1% 2-wire 120V forward phase (LTEA2WA for PWM providing smoothest dimming or LTEA2WC for CCR in applications with EMI requirements). [Hi-Lume](#) dim to 1% EcoSystem with Soft-On, Fade-to-Black (LDE1).

White Emitter: Nichia 757G emitters* binned within 3 MacAdam ellipses in Osram or Gammalux proprietary array. 90+ CRI option with extended lead time (CRI code 9) results in nominal 14.5% drop in efficacy; increase calculated wattage by 14.5%.

Battery Pack: Bodine [BSL310LP](#)* (BPE). 4W max input, 10W initial output, delivers min. 27% of High Output value per 4' length.

LED System: 70% lumen output (L70) at max 85 degrees C calculated at >60k hours. Fixtures are shipped with anti-static gloves to minimize the risk of damage to LEDs during installation. [5 year limited warranty](#).

Upgrade Capability: LED assemblies can be replaced in the future with the latest factory-provided and fully warranted components. On-board sensors, control interface devices and alternate LED components may be specified (consult factory). Fixtures bear UL & cUL Dry Location label. Damp Location label available (DL).

*Subject to availability; may be substituted by Gammalux. Components and specifications may be changed without notice.

LUMENS AND WATTS BY OUTPUT OPTION AND LED COLOR @ 80+ CRI*											
STANDARD OUTPUT LED						HIGH OUTPUT LED					
MEDIUM DIFFUSE LENS (ASLMD)		DELIVERS: 881.4 LPF				MEDIUM DIFFUSE LENS (ASLMD)		DELIVERS: 908.6 LPF			
HEAVY DIFFUSE LENS (ASLHD)		DELIVERS: 498.2 LPF				HEAVY DIFFUSE LENS (ASLHD)		DELIVERS: 664.3 LPF			
CCT	2700 K	3000 K	3500 K*	4000 K	5000 K	CCT	2700 K	3000 K	3500 K*	4000 K	5000 K
WATTS / FT.	5.9	5.7	5.6	5.3	5.2	WATTS / FT.	8.2	7.8	7.7	7.4	7.2
<small>*IES FILES WERE CREATED USING 3500K DIODES @80+ CRI. WATTAGE IS MULTIPLIED BY 1.08 FOR 2700K, 1.02 FOR 3000K, .98 FOR 4000K AND .93 FOR 5000K DIODES TO MAINTAIN THE SAME DELIVERED LUMENS THROUGHOUT ALL COLOR TEMPERATURES. FOR 90+ CRI, INCREASE WATTAGE BY 14.5%. SEE ADDENDUM FOR CUSTOM PROGRAMMING.</small>											

Construction

Housing: I.C. rated. ARRA, RoHS, REACH and Prop 65 compliant. Extruded aluminum body 7.19" wide x 3.781" high, 6063T5, 0.070" min thickness. Each housing is 12' max unless longer housings are pre-coordinated with the factory to reduce joints and installation labor. Fixtures are built per approved factory drawings and tested as a complete system at the factory. Continuous runs and patterns are ordered, built and shipped with a single item #. Fixtures ordered as individuals are not designed to be joined together in the field.

Joiner System: Automatic alignment, no loose parts, one tool to tighten factory installed bolts for hairline seam. No light leaks.

Lamping: Patterns are fully illuminated. Runs ordered in Specific Length (Length Option S) will be built to the exact dimension shown on signature-approved shop drawings. Runs ordered in Nominal Length (Option N) may be length-adjusted to accommodate standard mounting positions or grid centers. Factory drawings will show all dimensions for approval prior to production. Fixtures built to less than 4' may require master/satellite driver installation - consult factory.

Mounting: Recessed into a Box 8 (REC/BX8) or Deep Box 8 (REC/DBX8) ceiling system by CertainTeed Architectural. Fixture end cap includes field-removable flange for interface with cut panel inline with fixture.

Specifications (continued)

Optical

Reflectors: Shall be formed diffuse high reflectance aluminum.

Acrylic Satin Lens, Medium Diffuse: Snap-in. Shall be 100% DR acrylic (**ASLMD**).

Acrylic Satin Lens, Heavy Diffuse: Snap-in. Shall be 100% DR acrylic (**ASLHD**).

See lens images on photometric pages.

Finish

Acid etched or clear anodized housing electrostatically sprayed with high solids aliphatic two component polyurethane to an avg. thickness of 2 mils. Gammalux match of CertainTeed finish. For custom finish, consult factory. Wood Finishes, back page.

Packing and Shipping

Fixtures built for continuous rows and patterns are given a specific location identifier, clearly identified on factory layout drawings, the fixture's ID Label, protective wrapping and on each end of fixture carton. Shipping pallets are built with 2" clearance, extending beyond the length and width of cartons, providing shipping protection.

Approx. weight of 4' module is 24 lbs. including carton. Weight of pallet and supplemental packing materials not factored in.

ATTENTION

Fixture, or run of fixtures, must interface with at least two ceiling Universal Carriers.

**Photometric Reports for
STANDARD OUTPUT FIXTURES**

FIXTURE USES LENS ASLMD (MEDIUM DIFFUSE) AND 3500K LEDs @ 80+ CRI

IESNA: LM-63-2002
ISSUEDATE: 07/13/2016
TEST: 1265806 MOD TO 2016 SO, 6", 57452
TESTLAB: UL VERIFICATION SVCS, INC.
MANUFAC: GAMMALUX LTG SYS
LUMCAT: GB74RC22SL358ASLMD
LAMPS: 288 WHITE LEDs

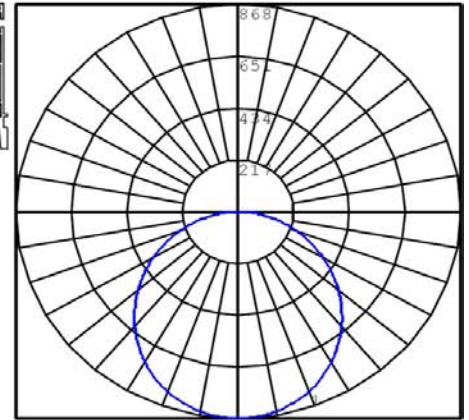
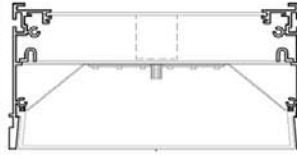
EFFICACY (TOTAL): 111.36 LPW
DISTRIBUTION % UP: 0%
DISTRIBUTION % DN: 100% (623.6 LPF)
CIE CLASSIFICATION: DIRECT

LUMINOUS OPENING: RECTANGULAR
WIDTH: 4 in.
LENGTH: 48.5 in.

INPUT WATTS: 22.4 per 4'



Acrylic Satin Lens,
Medium Diffuse
(ASLMD)



FIXTURE USES LENS ASLHD (HEAVY DIFFUSE) AND 3500K LEDs @ 80+ CRI

IESNA: LM-63-2002
ISSUEDATE: 07/13/2016
TEST: 1265806, 2016 SO, 6", 57452, HD
TESTLAB: UL VERIFICATION SVCS, INC.
MANUFAC: GAMMALUX LTG SYS
LUMCAT: GB74RC22SL358ASLHD
LAMPS: 288 WHITE LEDs

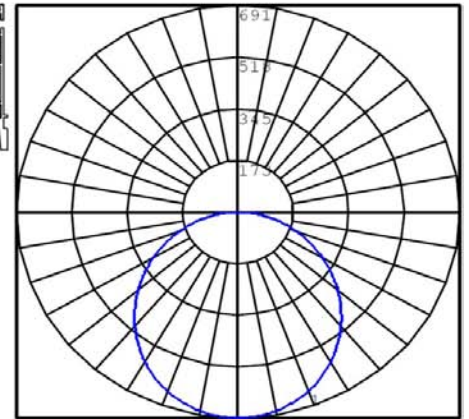
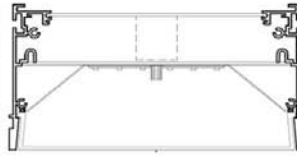
EFFICACY (TOTAL): 88.61 LPW
DISTRIBUTION % UP: 0%
DISTRIBUTION % DN: 100% (496.2 LPF)
CIE CLASSIFICATION: DIRECT

LUMINOUS OPENING: RECTANGULAR
WIDTH: 4 in.
LENGTH: 48.5 in.

INPUT WATTS: 22.4 per 4'



Acrylic Satin Lens,
Medium Diffuse
(ASLHD)



**Photometric Reports for
HIGH OUTPUT FIXTURES**

FIXTURE USES LENS ASLMD (MEDIUM DIFFUSE) AND 3500K LEDs @ 80+ CRI

IESNA: LM-63-2002
ISSUEDATE: 07/13/2016
TEST: 1265806 MOD TO 2016, 6", 57452
TESTLAB: UL VERIFICATION SVCS, INC.
MANUFAC: GAMMALUX LTG SYS
LUMCAT: GB74RC22HL358ASLMD
LAMPS: 288 WHITE LEDs

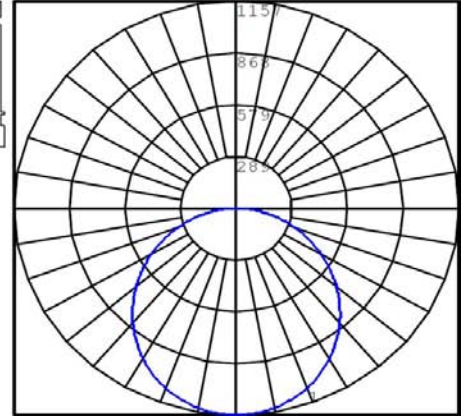
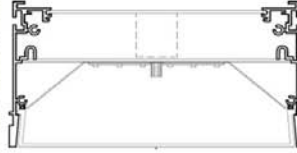
EFFICACY (TOTAL): 108.13 LPW
DISTRIBUTION % UP: 0%
DISTRIBUTION % DN: 100% (831.5 LPF)
CIE CLASSIFICATION: DIRECT

LUMINOUS OPENING: RECTANGULAR
WIDTH: 4 in.
LENGTH: 48.5 in.

INPUT WATTS: 30.76 per 4'



Acrylic Satin Lens,
Medium Diffuse
(ASLMD)



FIXTURE USES LENS ASLHD (HEAVY DIFFUSE) AND 3500K LEDs @ 80+ CRI

IESNA: LM-63-2002
ISSUEDATE: 07/13/2016
TEST: 1265806 MOD TO 2016, 6", 57452, HD
TESTLAB: UL VERIFICATION SVCS, INC.
MANUFAC: GAMMALUX LTG SYS
LUMCAT: GB74RC22HL358ASLHD
LAMPS: 288 WHITE LEDs

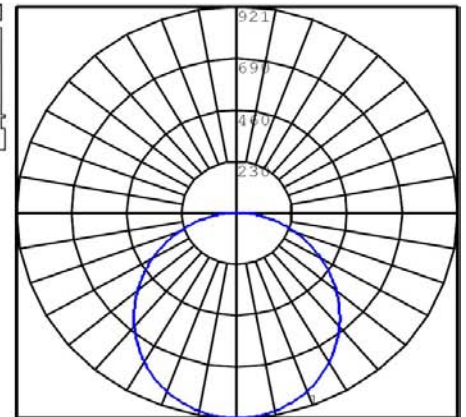
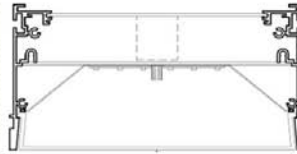
EFFICACY (TOTAL): 86.02 LPW
DISTRIBUTION % UP: 0%
DISTRIBUTION % DN: 100% (661.5 LPF)
CIE CLASSIFICATION: DIRECT

LUMINOUS OPENING: RECTANGULAR
WIDTH: 4 in.
LENGTH: 48.5 in.

INPUT WATTS: 30.76 per 4'



Acrylic Satin Lens,
Heavy Diffuse
(ASLHD)

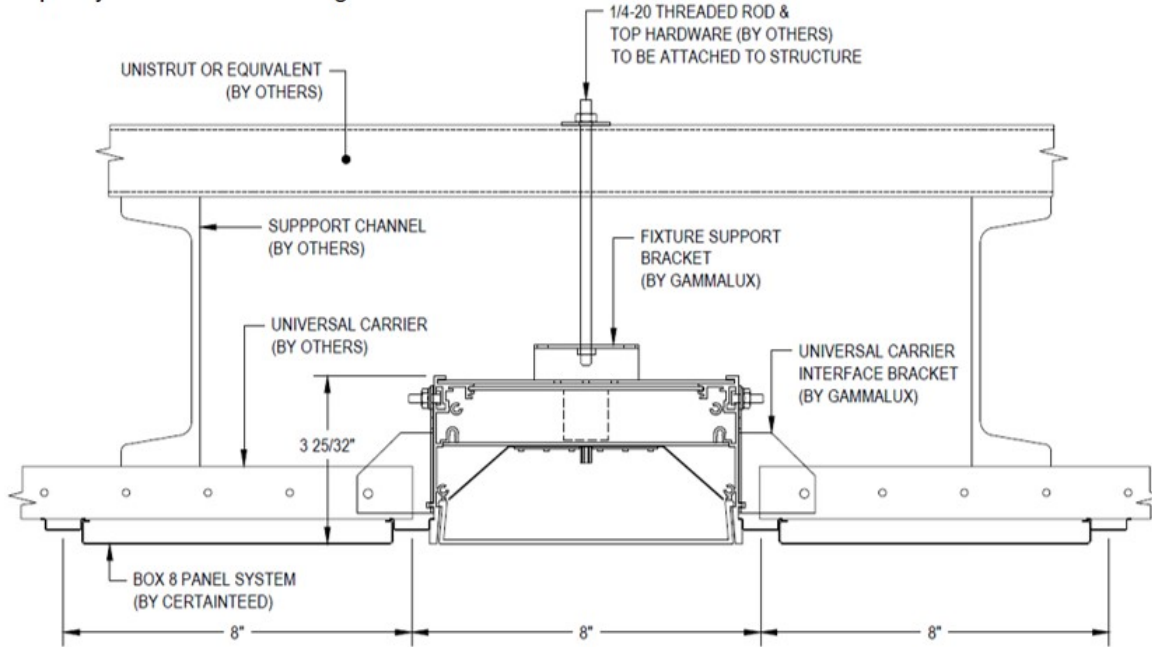


Mounting Details

Factory Drawings: Fully dimensioned factory drawings will be provided upon receipt of purchase order.

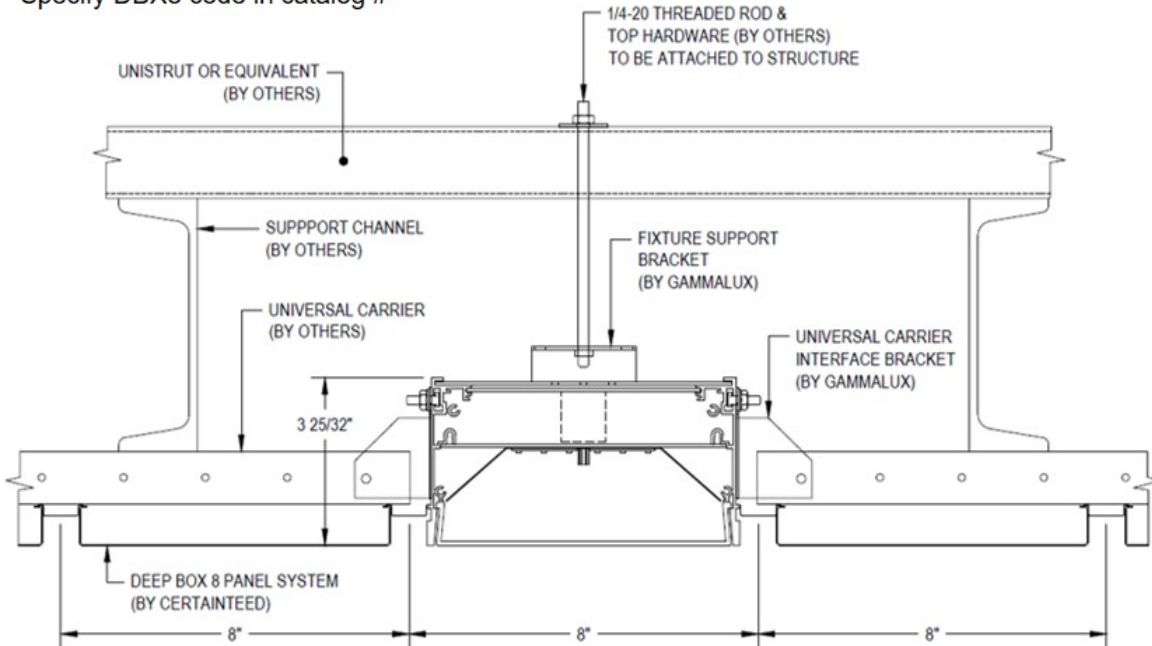
Box 8 Ceiling:

Specify BX8 code in catalog #



Deep Box 8 Ceiling:

Specify DBX8 code in catalog #



MOUNTING BRACKET IS FIELD ADJUSTABLE TO ACCOMMODATE BOX 8 OR DEEP BOX 8

Gammalux Lighting Systems reserves the right to change the details of fixture design and construction at any time.

Custom Programmed Output

Custom Programmed Output can be specified to produce approximate Delivered Lumens per Foot, Percentage of High Output Value or Maximum Watts per Foot.

Delivered Lumens Per Foot

Gammalux deals only in delivered lumens per foot. When working to match or exceed a competitor product's Lumens Per Foot package, be sure you are looking at their Delivered (through the lens) lumens per foot, not their System (bare board) lumens per foot.

In the Gammalux item #, use **C** as the Output designator and add a fixture description stating the required Lumens Per Foot value (ie: if you need 600 lumens per foot delivered by the fixture, the line note would read "Program = 600 LPF").

Percentage of High Output Value

If the required delivered lumens per foot are not known, run lighting calculations using our High Output IES file and identify the percentage of increase or decrease required to produce the correct lighting in the space.

In the Gammalux item #, use **C** as the Output designator and add a fixture description stating the required percentage of decrease from our High Output value (ie: for 60% of our High Output value, the line note would read "Program = 60% of High Output").

Maximum Watts Per Foot

In the Gammalux item #, use **C** as the Output designator and add a fixture description stating the required Maximum Watts per Foot (ie: if you need the fixtures capped at a maximum of 7 watts per foot, the line note would read "Program = 7 WPF").

For all three methods, custom programming capability is currently 25-200% of our High Output value. For requirements outside of this range, consult factory.