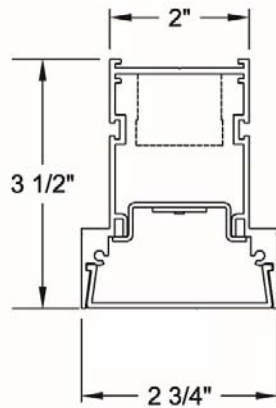




Click or scan QR code to view latest spec sheet



Revision Date: May 18, 2022
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 GB34RC2TS is approved for use in CertainTeed Architectural Techstyle ceilings. 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. Construction maintains intended gap between fixture and adjacent panels.

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) 3" x 4"</p> <p>Housing RC Recessed</p> <p>Model 2nd Gen</p> <p>Series Beam</p> <p>Housing Variant TS Techstyle</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>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>	<p>Driver ZTV10 0-10V Dim to 10% For all options, see next page</p> <p>Length Option S Specific N Nominal (Nominal is recommended if matching panel dimension)</p> <p>Run Length Specify total run length (i.e. 48') If aligning with panel ends, use beginning and ending grid center dimensions for entire run length and length option N. Continuous runs will be fully illuminated.</p>	<p>Techstyle Interface T1SW 15/16" flat grid w/ Techstyle snap-on panels</p> <p>Mounting REC Recessed in ceiling. Consult factory for in-wall.</p>	<p>Paint Colors W White (See color chart for other colors) CCM Custom Color Match</p>	<p>Paint Finish H High Gloss SG Semi-Gloss</p> <p>Options BPE Battery Pack (4' section) DL UL Damp Label EMERG Emergency Ckt 2CKT Dual Circuiting SBO Sensor By Others#</p> <p>Shielding ASLMD Acrylic Satin Lens, Medium Diffuse ASLHD Acrylic Satin Lens, Heavy Diffuse</p>
<p>GB34RC2TS - 1SL358 - UNIV - ZTV10 - 4'N - REC/XXXX - ASLMD - WSG -</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: eldoLED **Optotronic*** programmable driver, wired for static operation (**DVR**).

0-10V Dimming: eldoLED **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: 519.4 LPF			MEDIUM DIFFUSE LENS (ASLMD)			DELIVERS: 692.5 LPF		
HEAVY DIFFUSE (ASLHD)			DELIVERS: 446 LPF			HEAVY DIFFUSE (ASLHD)			DELIVERS: 594.7 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 3500 K DIODES @ 80+ CRI. WATTAGE IS MULTIPLIED BY 1.06 FOR 2700 K, 1.02 FOR 3000 K, .98 FOR 4000 K AND .93 FOR 5000 K 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 2.75" wide x 3.50" 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 factory-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 CertainTeed Architectural Techstyle ceiling. Fixtures surrounded by grid should be ordered in Nominal length (Length Option **N**) and can be installed from below.

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 high (**H**) or semi-gloss (**SG**) to an avg. thickness of 2 mils. Custom finish, consult factory. Wood Finishes, back page.

Packing and Shipping

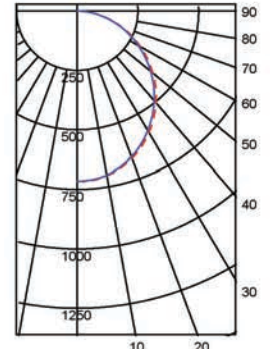
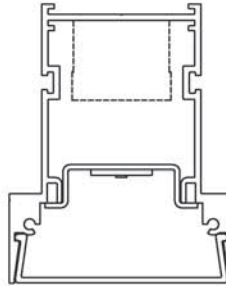
Fixtures built for continuous rows and patterns are given a specific location identifier, clearly identified on factory layout drawings, the fixture's ID Label, protective wrapping and on each end of fixture carton. Shipping pallets are built with 2" clearance, extending beyond the length and width of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

Approx. weight of 4' module is 13 lbs. including carton. Weight of pallet and supplemental packing materials not factored in.

**Photometric Reports for
STANDARD OUTPUT FIXTURES**

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

IESNA: LM 79-2008
ISSUEDATE: 04/17/13
TEST: ITL76971 mod to 2016 COMP
TESTLAB: Photopia 3.2.6
MANUFAC: GAMMALUX LIGHTING SYSTEMS
LUMCAT: GB34D2-SOLED35-4'-ASLMD
LAMPS: 73571 P LPG2-Bar-1100-835-289x38-DC



Quadralaterally Symmetric
Dashed: 0 Degrees Solid: 90 Degrees

EFFICACY (Total): 86.8 LPW
DISTRIBUTION % UP: 0%
DISTRIBUTION % DOWN: 100%
CIE CLASSIFICATION: DIRECT

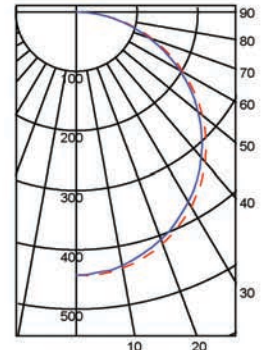
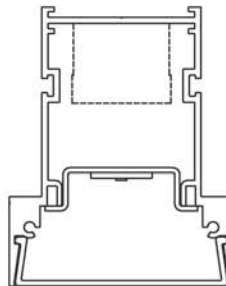
Acrylic Satin Lens,
Medium Diffuse
(ASLMD)

LUMINOUS OPENING: RECTANGULAR
Width: 0.24 (Feet)
Length: 3.96
Height: 0.00
INPUT WATTS: 25.4



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

IESNA: LM 79-2008
ISSUEDATE: 04/18/13
TEST: ITL76972 mod to 2016 COMP
TESTLAB: ITL, INC
MANUFAC: GAMMALUX LIGHTING SYSTEMS
LUMCAT: GB34D2-SOLED35-4'-ASLHD
LAMPS: 73571 P LPG2-Bar-1100-835-289x38-DC



Quadralaterally Symmetric
Dashed: 0 Degrees Solid: 90 Degrees

EFFICACY (Total): 63.5 LPW
DISTRIBUTION % UP: 0%
DISTRIBUTION % DOWN: 100%
CIE CLASSIFICATION: DIRECT

Acrylic Satin Lens,
Heavy Diffuse
(ASLHD)

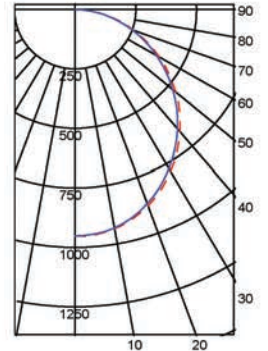
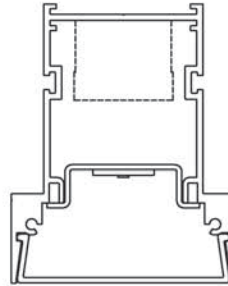
LUMINOUS OPENING: RECTANGULAR
Width: 0.24 (Feet)
Length: 3.96
Height: 0.00
INPUT WATTS: 25.4



**Photometric Reports for
HIGH OUTPUT FIXTURES**

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

IESNA: LM 79-2008
ISSUEDATE: 04/16/13
TEST: ITL76971 mod to 2016 COMP
TESTLAB: ITL, INC
MANUFAC: GAMMALUX LIGHTING SYSTEMS
LUMCAT: GB34D2-HOLED35-4'-ASLMD
LAMPS: 73571 P LPG2-Bar-1100-835-289x38-DC



Quadralaterally Symmetric
Dashed: 0 Degrees Solid: 90 Degrees

EFFICACY (Total): 86.5 LPW
DISTRIBUTION % UP: 0%
DISTRIBUTION % DOWN: 100%
CIE CLASSIFICATION: DIRECT

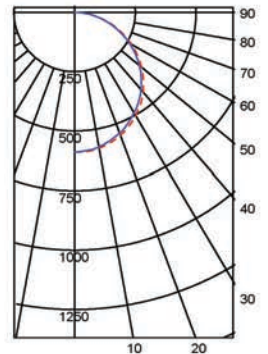
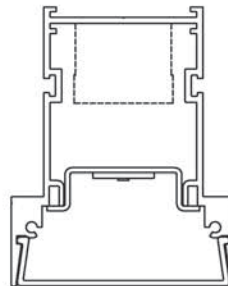
Acrylic Satin Lens,
Medium Diffuse
(ASLMD)

LUMINOUS OPENING: RECTANGULAR
Width: 0.24 (Feet)
Length: 3.96
Height: 0.00
INPUT WATTS: 35.3



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

IESNA: LM 79-2008
ISSUEDATE: 04/16/13
TEST: ITL76972 mod to 2016 COMP
TESTLAB: ITL, INC
MANUFAC: GAMMALUX LIGHTING SYSTEMS
LUMCAT: GB34D2-HOLED35-4'-ASLHD
LAMPS: 73571 P LPG2-Bar-1100-835-289x38-DC



Quadralaterally Symmetric
Dashed: 0 Degrees Solid: 90 Degrees

EFFICACY (Total): 60.9 LPW
DISTRIBUTION % UP: 0%
DISTRIBUTION % DOWN: 100%
CIE CLASSIFICATION: DIRECT

Acrylic Satin Lens,
Heavy Diffuse
(ASLHD)

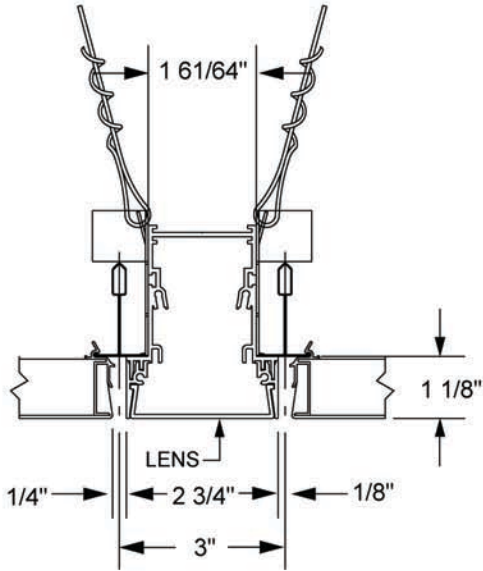
LUMINOUS OPENING: RECTANGULAR
Width: 0.24 (Feet)
Length: 3.96
Height: 0.00
INPUT WATTS: 35.3



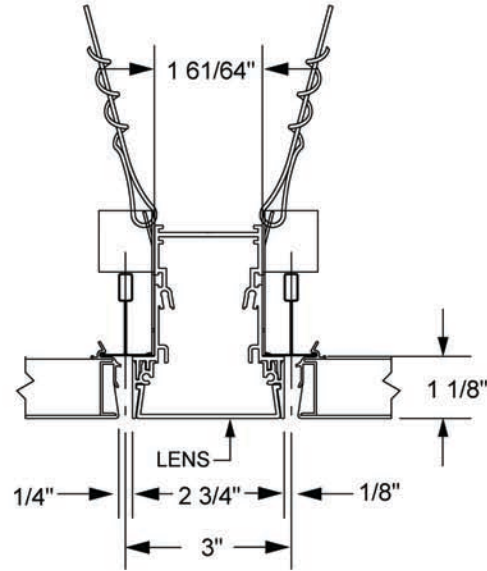
Mounting Details

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

15/16" T Bar - 1 11/16":
Specify **T1SW** code in catalog #



15/16" T Bar - 1 1/2":
Specify **T1SW** code in catalog #



Mounting bracket is field adjustable to accommodate both conditions.

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.