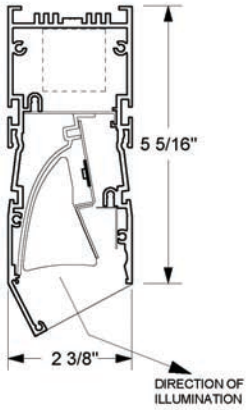
Click or scan QR code to view latest spec sheet



LED Lamping

Click photo to view product page

Revision Date: May 18, 2022

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

Upgrade Capability: LED components may be easily upgraded in the field to increase energy efficiency.

Construction: I.C. rated. ARRA, RoHS, REACH and Prop 65 compliant. Extruded aluminum housing for superior fit and finish. Grid mounted version can be installed from below. Runs and complex patterns can be built to match field conditions, including full illuminated patterns.

Unbroken Illumination: Continuous illumination in custom-length runs and patterns with illuminated corners.

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.

Optical: LEDs are not visible at any angle. Optional white semi-gloss internal baffle reduces inline glare and striations on adjacent wall.

Standard Nomenclature

Manufacturer
Gammalux

Cross Section (nom)
2"x 5"

Distribution
Wall Wash

Housing
RC Recessed

Output
S Standard Output
H High Output
C Custom Output
(see addendum page)

Color Temp. (nom)
27 2700K 30 3000K
30 3000K 35 3500K
40 4000K
RGB & RGBW, consult factory

Driver
ZTV10 0-10V Dim to 10%
For all options, see next page

Length Option
S Specific
N Nominal
(Nominal is recommended for grid mount)

Ceiling Interface
GFR Gyp w/ .5" cover flange
GMR Gyp w/ mud flange
NFR No flange or interface
T1W 15/16" flat grid w/ flat tiles
T1TW 15/16" flat grid w/ tegular tiles
T9W 9/16" flat grid w/ flat tiles
T9TW 9/16" flat grid w/ tegular tiles
TSW 9/16" slot grid
Consult factory for all others.

Paint Colors
W White (See color chart for other colors)
CCM Custom Color Match
For wood finishes, see addendum page

Paint Finish
H High Gloss
SG Semi-Gloss

GB25WWRC – 1ASYSL358 – UNIV – ZTV10 – 4'N – REC/XXXX – OP – WSG –

Series
Beam

LED Arrays in X-Sec
1

Lamp
LED

CRI**
8 for 80+
9 for 90+

Voltage
120V, 277V, UNIV

Lamp Configuration
ASY Asymmetric

Run or Pattern
Specify total run length (i.e. **43' 5 1/8"**)
For illuminated patterns, follow overall length or dimensions with **L**, **T**, **X**, **U**, **RECT** or **SQ** (i.e. **43' 5 1/8" RECT** or **10' X 10' SQ**).
If overall length or dims are unknown, use TBD and follow with **L**, **T**, **X**, **U**, **RECT** or SQ (i.e. **TBD RECT** or **TBD SQ**).
Consult factory for complex or multi-plane patterns.

Mounting
REC Recessed in ceiling.
Consult factory for in-wall.

Shielding
OP Open

Options
BPE Battery Pack (4' section)
DL UL Damp Label
EMERG Emergency Ckt
2CKT Dual Circuiting
SBO Sensor By Others#

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

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Fax 909.599.5288 E-mail: info@gammalux.com
Gammalux products comply with ARRA Buy American requirements

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 — OPEN APERTURE (OP) — DELIVERS: 384.6 LPF					
CCT	2700 K	3000 K	3500 K*	4000 K	5000 K
WATTS / FT.	5.9	5.7	5.6	5.3	5.2

HIGH OUTPUT LED — OPEN APERTURE (OP) — DELIVERS: 485.8 LPF					
CCT	2700 K	3000 K	3500 K*	4000 K	5000 K
WATTS / FT.	8.1	7.8	7.6	7.3	7.1

*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.

Construction

Housing: I.C. rated. ARRA, RoHS, REACH and Prop 65 compliant. Extruded aluminum body 2.00" wide x 5.00" 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.

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 accomodate 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 ceiling system (**REC**). Fixtures surrounded by grid should be ordered in Nominal length (Length Option **N**) and can be installed from below. Consult factory for in-wall installation. Mud flange (**GMR**) includes integral expansion gap to allow for heat expansion with no pressure on surrounding plaster. GMR FIXTURE MUST BE INSTALLED PRIOR TO GYP. Gammalux recommends mounting no less than 18" from the object wall.

Specifications (continued)

Optical

Reflector: Shall be asymmetric extruded aluminum painted high reflectance white.

Dust Cover: Clear acrylic dust cover, snap-in fitting (**DC**). Multiply delivered lumens by .97.

Internal Baffle: Optional, field removable baffle shall be formed steel, painted white semi-gloss (**EBBWSG**or **FBBWSG**). Multiply delivered lumens by .90.

Finish

Acid etched or clear annodized 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 17 lbs. including carton. Weight of pallet and supplemental packing materials not factored in.

Internal Blade Baffle

Fixtures built with no internal baffle (**OP** or **DC**) may create glare for viewers in a corridor and striations on adjacent walls in a wall-to-wall installation.

Internal 2' end baffle (**EBB**) provides lateral cutoff at fix

Photometric Reports for

STANDARD OUTPUT FIXTURES

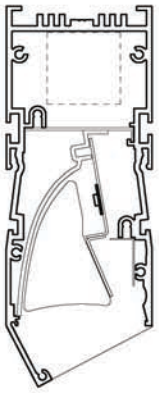
FIXTURE USES OPEN APERTURE AND 3500 K BOARDS. @ 80+ CRI

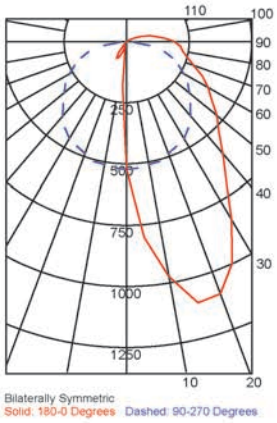
IESNA: LM 79-2008
ISSUEDATE: 1/31/2017
TEST: GB25WWRC1SL358-4.IES
TESTLAB: PLI ENTERPRISES INC
MANUFAC: GAMMALUX LIGHTING SYSTEMS
LUMCAT: GB25WWRC-1SL358-OP
LAMPS: PLPG2-BAR-1100-835-289X38-DC

EFFICACY (Total): 68.7 LPW
DISTRIBUTION % UP: 4.8%
DISTRIBUTION % DOWN: 95.2%
CIE CLASSIFICATION: DIRECT

LUMINOUS OPENING: RECTANGULAR
Width: 4.00 (Feet)
Length: 0.17
Height: 0.50
INPUT WATTS: 25.4

IES DOWNLOAD REVIT DOWNLOAD





Photometric Reports for

HIGH OUTPUT FIXTURES

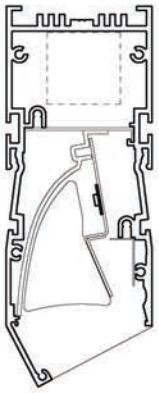
FIXTURE USES OPEN APERTURE AND 3500 K BOARDS. @ 80+ CRI

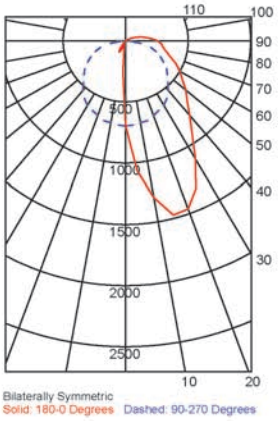
IESNA:	LM 79-2008
ISSUEDATE:	1/31/2017
TEST:	GB25WWRC1HL358-4.IES
TESTLAB:	PLI INTERPRISES INC
MANUFAC:	GAMMALUX LIGHTING SYSTEMS
LUMCAT:	GB25WWRC-1HL358-120V-DVR-4'N-OP
LAMPS:	96 WHITE LEDS

EFFICACY (Total):	61.8 LPW
DISTRIBUTION % UP:	4.8%
DISTRIBUTION % DOWN:	95.2%
CIE CLASSIFICATION:	DIRECT

LUMINOUS OPENING:	RECTANGULAR
Width:	4.00 (Feet)
Length:	0.17
Height:	0.50
INPUT WATTS:	37.6

IES DOWNLOAD REVIT DOWNLOAD



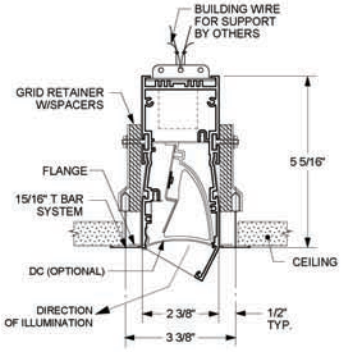


Mounting Details

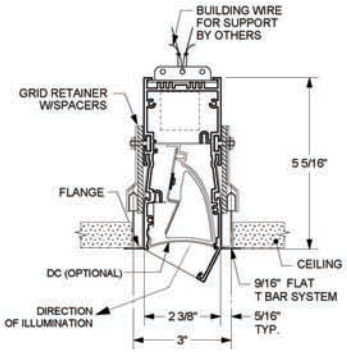
Factory Drawings: Fully dimensioned factory drawings will be provided upon receipt of purchase order.

Grid Mount

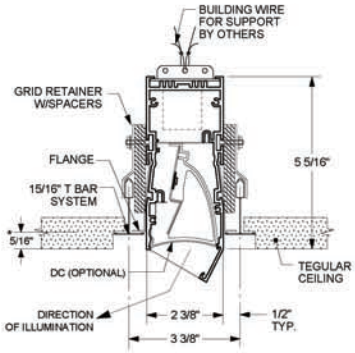
15/16" Flat TBar:
Specify **T1W** code in catalog #



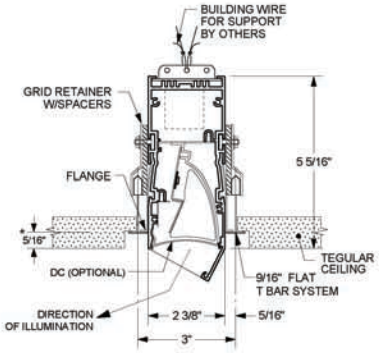
9/16" Flat TBar:
Specify **T9W** code in catalog #



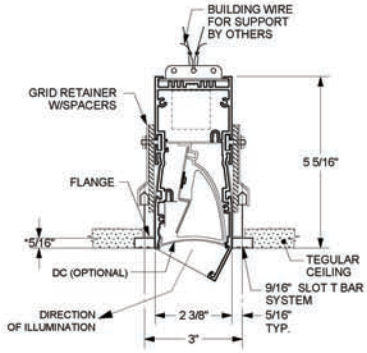
15/16" Flat TBar with Tegular Tiles:
Specify **T1TW** code in catalog #



9/16" Flat TBar with Tegular Tiles:
Specify **T9TW** code in catalog #

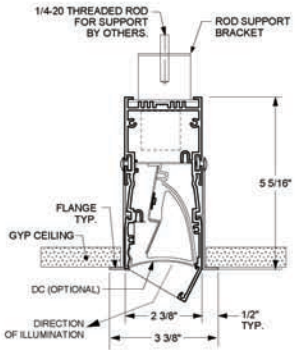


9/16" Slot Grid:
Specify **TSW** code in catalog #

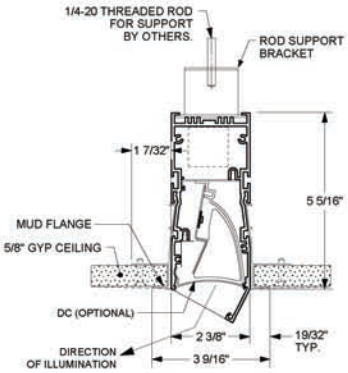


Hard Ceiling Mount

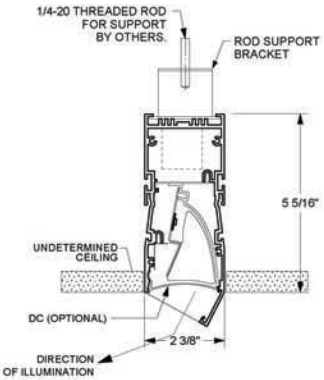
Gyp type ceiling with cover flange:
Specify **GFR** code in catalog #



Gyp type ceiling, Flangeless (mud flange):
Specify **GMR** code in catalog #



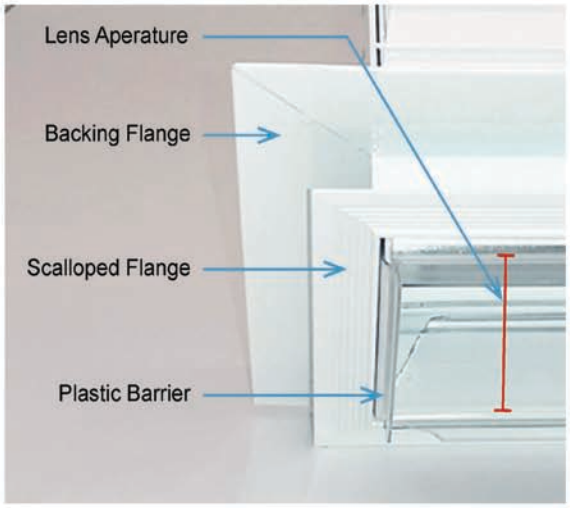
Undetermined ceiling, Flangeless:
Specify **NFR** code in catalog #



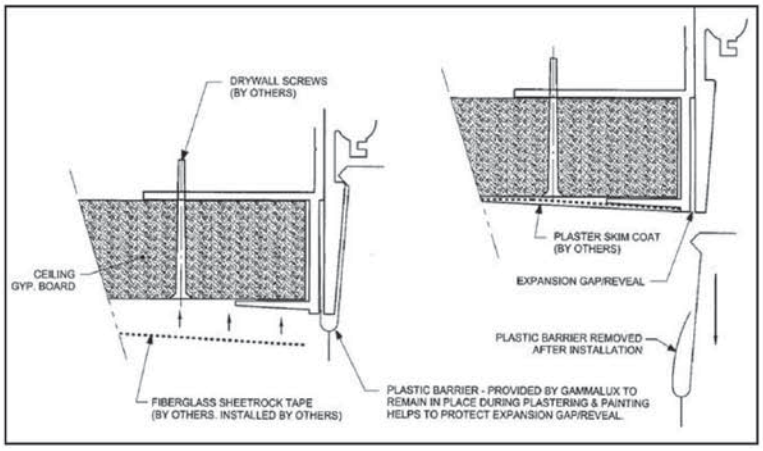
Gammalux Lighting Systems reserves the right to change the details of fixture design and construction at any time.

Mud Flange Detail

Fixture ships with steel spacer bracket to maintain aperture integrity during installation.



Mud flange assembly consists of a backing flange and scalloped flange. Plastic barriers protect the integral expansion gap from mud and paint.



Gyp material is embedded between the backing flange and scalloped flange, then drywall screws secure the drywall to the backing flange. Fiberglass tape, skim coat of plaster and paint are added on top of the scalloped flange with the plastic barrier installed throughout all procedures. After paint is dry, plastic barrier is removed, revealing clean expansion gap.

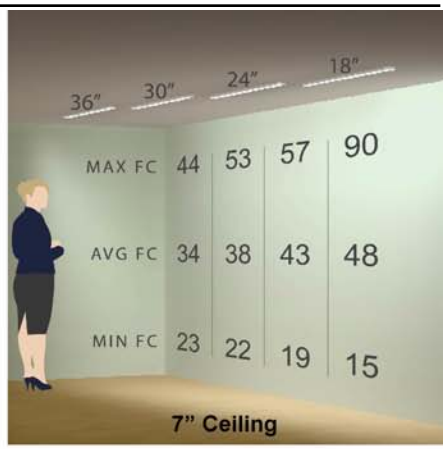
Application Guide

The images on this page depict several typical installations and the resulting light levels as calculated in a computer model scenario.

Examples are of a 16' installation centered on a 24' wall. Reflectivity assumptions are: ceiling 80%, walls 50%, floor 20%. The values represented are the footcandle levels obtained in the horizontal center of the wall. The fixture is using High Output LED boards with 3500K diodes.

Although the LED boards are hidden from view, the inside of the fixture is bright. This will be visible to room occupants positioned between the fixture and the wall.

Example:
• In a 7' ceiling with the fixture mounted 36" from the wall, the user obtains an average of 34fc with a max of 44 and a min of 23.



Example:
• In a 9' ceiling with the fixture mounted 30" from the wall, the user obtains an average of 30fc with a max of 53 and a min of 13.

Example:
• In an 11' ceiling with the fixture mounted 30" from the wall, the user obtains an average of 28fc with a max of 53 and a min of 9.

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.

Wood Finishes

Fixture housings are powder coated with a base finish, baked, then wrapped in a film with the decorative grain pattern. Baking the housing again allows the grain to become embedded into the powder coated finish. This is not a decal or veneer. Additional lead time and cost increases apply. Consult factory for pricing. Swatches are 3" x 4".


FINISH CODE: KPI

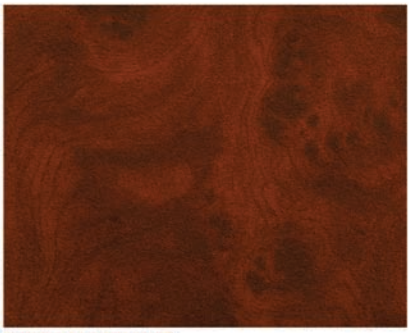

FINISH CODE: MED


FINISH CODE: HCH


FINISH CODE: WAL


FINISH CODE: AOK


FINISH CODE: FWG


FINISH CODE: MH1


FINISH CODE: MH2

DUE TO VARIANCES IN MONITORS AND PRINTERS, ACTUAL FINISHES MAY APPEAR DIFFERENT FROM SWATCHES.