

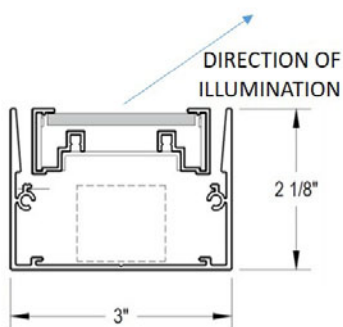


Click or scan QR code to view latest spec sheet

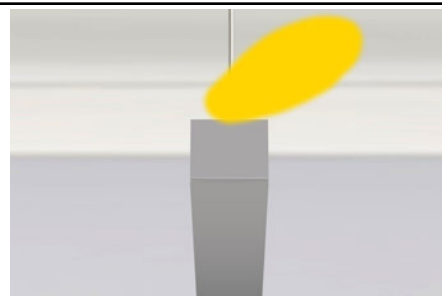
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Symmetric Version

Revision Date: April 18, 2025
Gammalux Lighting Systems reserves the right to change details of fixture designs and construction at any time.



LED LAMPING



Click photo to view product page

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Page 12: Application Guides

Product Overview (for complete specifications, see pages 2 & 3) *****NEW***** See last page for **APPROVED CUT RELEASE**.

NEW GradientGuide Optic: Why specify Gammalux GradientGuide Optic?

Simply stated, Gammalux understood the necessity to "tame" the intensity of LEDs in indirect lighting applications. By refracting the light output from LED sources through a proprietary optical array, we created optimal near-field photometry. The result: a beautiful, smooth, even ceiling gradient illumination along with an extremely wide distribution and a reduction in overall source brightness. Oh, BTW, we also eliminated the harsh striations and cut-off found in typical batwing designs. Is our new GradientGuide Optic better than a "batwing"? [You be the judge](#). Gammalux understands quality of light, & what's important for "your design intent"!

Construction: BABA, ARRA, RoHS, REACH and Prop 65 compliant. Runs and patterns have a single item # and can be built to field dims.

Electrical: LED components by major manufacturers, may be upgraded in the field to increase energy efficiency. Fixtures can be fitted with specialty LED and control components (consult factory). Standard Output, High Output, Very High Output and Custom Output options available.

Standard Nomenclature

Manufacturer		Output		Driver		Mounting Method		Paint Colors		Paint Finish	
Gammalux		S Standard Output		ZTV10 0-10V Dim to 10%		C Cable		BK Black		H High Gloss	
Series		H High Output		ZTV1 0-10V Dim to 1%		S Swivel Stem		W White (See color chart for other colors)		SG Semi-Gloss	
Beam		V Very High Output		For all options, see next page		SEQ CA Earthquake Stems/Fittings		CCM Custom Color Match			
Cross Section (nom)		C Custom Output (see addendum page)		Length Option		SF Surface		For wood finishes, see addendum page			
3" x 2"		Color Temp. (nom)		N Nominal		WM Wall Mount, Flush					
		27 2700K 50 5000K		S Specific		WSP Wall Spacer, 1/2"					
		30 3000K				Unless ordered otherwise, cable mount canopies are white semi-gloss and all other painted mounting components match the fixture finish.					
		35 3500K									
		40 4000K									
GB32U2		ASYSL358		UNIV		ZTV10		C24"		GGMA	
Model		CRI**		Run or Pattern		Suspension Length		Options		Shielding	
2nd Gen		8 for 80+ 9 for 90+		Specify total run length (i.e. 43' 5 1/8")		Distance to top of fixture. If not suspended, leave blank.		BPE Battery Pack (4' section)		GGMA GradientGuide	
Distribution		Lamp		For illuminated patterns, follow overall length with L, T, X, U, RECT or SQ. Examples:				DL UL Damp Label		Mid-range suspension	
U Indirect		LED		23'6" x 17'2" L Pattern would be 41'LPTTN.				EMERG Emergency Ckt		Asymmetric Optic	
		Voltage		12' x 12' Square Pattern would be 48'SQPTTN.				2CKT Dual Circuiting			
		120V, 277V, UNIV		Provide leg dimensions as a line note in the spec.				SBO Sensor By Others#			
		Lamp Configuration									
		ASY Asymmetric									

** 90+ CRI increases watts nom. 14.5%. # Sensor by Others (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**).

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** 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 watts 14.5%.

Battery Pack: Bodine **BSL10T3*** (**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**.

Sensors: Sensors are as specified, confirmed by Gammalux prior to factory quote. Examples are Enlighted **Micro Sensor**, Lutron **Athena Wireles Node**, Lutron **Vive**, Wattstopper **FS-205**.

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					
GRADIENTGUIDE (GGMS) DELIVERS: 417.2 LPF						GRADIENTGUIDE (GGMS) DELIVERS: 558.7 LPF					
FOR VERY HIGH OUTPUT SEE PAGE 6											
CCT	2700 K	3000 K	3500 K*	4000 K	5000 K	CCT	2700 K	3000 K	3500 K*	4000 K	5000 K
WATTS / FT.	6.3	5.9	5.8	5.7	5.4	WATTS / FT.	8.2	7.9	7.7	7.6	7.2
* 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.											

Construction

Housing: BABA, ARRA, RoHS, REACH and Prop 65 compliant. Extruded aluminum body 3.00" wide x 2.25" 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 accomodate standard mounting positions or grid centers. Factory drawings will show all dimensions of mounting and power feed locations. Fixtures built to less than 4' may require remote driver installation - consult factory.

Mounting: Aircraft cable is 7x7 stranded stainless steel with stopper fitting at the top end. Lower end strands are welded and ground for easy insertion into adjustable cable gripper (**C**). Feed cord is straight, white 3/C SVT or SJT #18 AWG. Unless specified otherwise, cable mount canopies are white semi-gloss and all other painted mounting components match the fixture finish. Stems are 3/8" schedule 40 pipe with top swivels (**S**). California UBC compliant stems with internal safety cables available (**SEQ**). Direct to surface mounting available for indirect illumination (**SF**). Housing can be mounted direct to wall (**WM**). Wall Spacer mounting (**WSP**) allows projection from wall of 3.50" to meet ADA requirements.

Specifications (continued)

Optical

Reflectors: Shall be formed diffuse high reflectance aluminum.

GradientGuide Optic: Proprietary wide distribution array optimized for 12" to 24" suspension (**GGMA**).

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. Unless specified otherwise, cable mount canopies are white semi-gloss and all other painted mounting components match the fixture finish. Custom finish, consult factory. Wood Finishes, back page.

High Gloss Finish



White (WH)



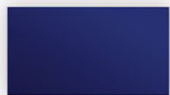
Red (RH)



Yellow (YH)



Green (GH)



Blue (BH)



Black (BKH)

Semi Gloss Finish



White (WSG)



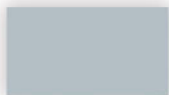
Silver (SSG)



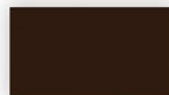
Gray (GYSG)



Off White (OWSG)



Light Gray (LGYSG)



Bronze (BZSG)



Satin Aluminum (SAPSG)



Black (BKSG)

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 12 lbs. including carton. Weight of pallet and supplemental packing materials not factored in.

Optimized Optics

This product is optimized for the best ceiling illumination at 12" to 24" suspension.

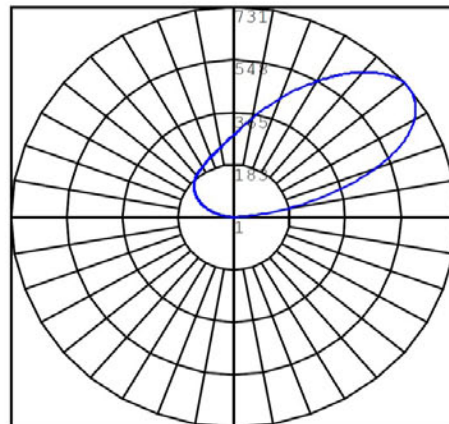
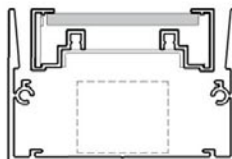
Photometric Reports for
STANDARD OUTPUT FIXTURES

FIXTURE USES GRADIENTGUIDE OPTIC AND 3500K LEDs @ 80+ CRI

IESNA: LM-63-2002
ISSUEDATE: 8/10/2020
TEST: 13441844.01, GB32U2
TESTLAB: UL VERIFICATION SVCS, INC.
MANUFAC: GAMMALUX LTG SYS
LUMCAT: GB32U21ASYSL358GGSA
LAMPS: 144 WHITE LEDs

EFFICACY (TOTAL): 71.9 LPW
DISTRIBUTION % UP: 100% (417.2 LPF)
DISTRIBUTION % DN: 0%
CIE CLASSIFICATION: INDIRECT

LUMINOUS OPENING: RECTANGULAR
WIDTH: 2.5 in.
LENGTH: 49 in.
HEIGHT: .18 ft
INPUT WATTS: 23.20 per 4'



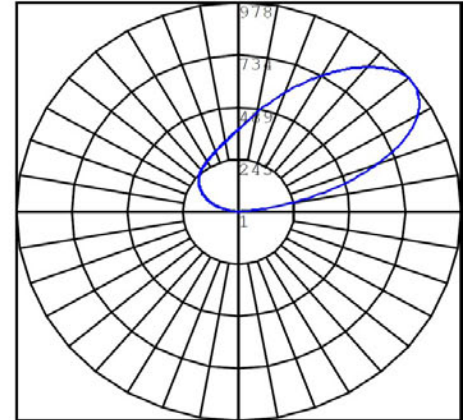
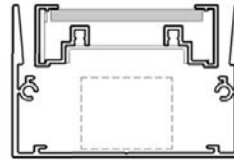
**Photometric Reports for
HIGH OUTPUT FIXTURES**

FIXTURE USES GRADIENTGUIDE OPTIC AND 3500K LEDs @ 80+ CRI

IESNA: LM-63-2002
ISSUEDATE: 8/10/2020
TEST: 13441844.02, GB32U2
TESTLAB: UL VERIFICATION SVCS, INC.
MANUFAC: GAMMALUX LTG SYS
LUMCAT: GB32U21ASYHL358GGSA
LAMPS: 144 WHITE LEDs

EFFICACY (TOTAL): 72.2 LPW
DISTRIBUTION % UP: 100% (558.65 LPF)
DISTRIBUTION % DN: 0%
CIE CLASSIFICATION: INDIRECT

LUMINOUS OPENING: RECTANGULAR
WIDTH: 2.5 in.
LENGTH: 49 in.
HEIGHT: .18 ft
INPUT WATTS: 30.93 per 4'



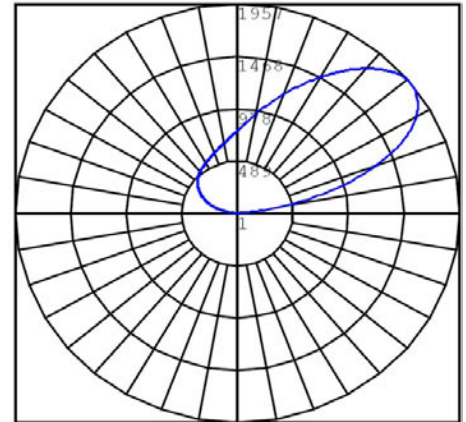
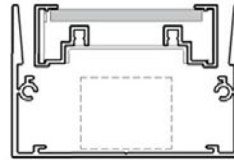
Photometric Info / Downloads

FIXTURE USES GRADIENTGUIDE OPTIC AND 3500K LEDs @ 80+ CRI

IESNA: LM-63-2002
ISSUEDATE: 8/10/2020
TEST: 13441844.02, GB32U2, VHO
TESTLAB: UL VERIFICATION SVCS, INC.
MANUFAC: GAMMALUX LTG SYS
LUMCAT: GB32U21ASYVL358GGSA
LAMPS: 144 WHITE LEDs

EFFICACY (TOTAL): 68.2 LPW
DISTRIBUTION % UP: 100% (1117.33 LPF)
DISTRIBUTION % DN: 0%
CIE CLASSIFICATION: INDIRECT

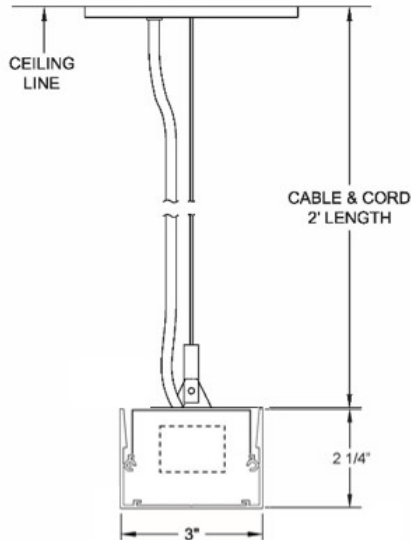
LUMINOUS OPENING: RECTANGULAR
WIDTH: 2.5 in.
LENGTH: 49 in.
HEIGHT: .18 ft
INPUT WATTS: 65.5 per 4'



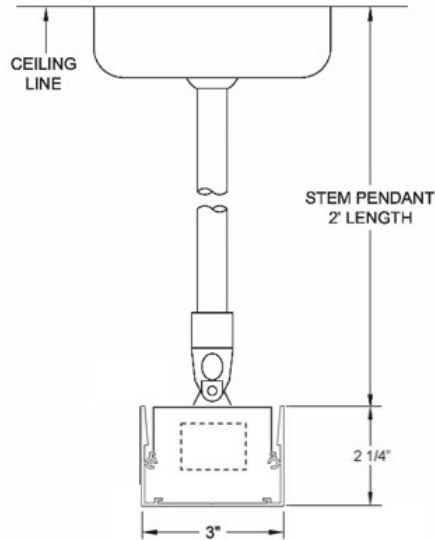
Mounting Details

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

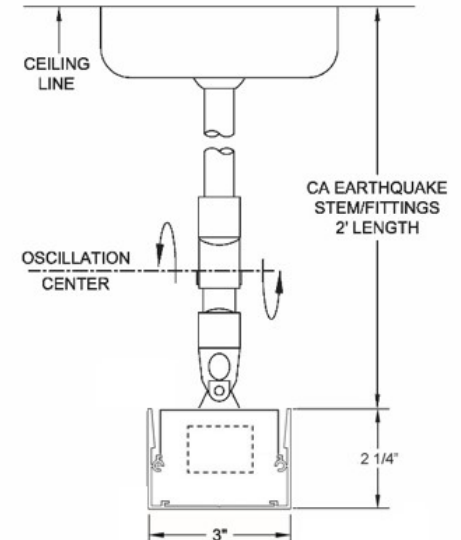
Cable Mount:
Specify **C** code in catalog #



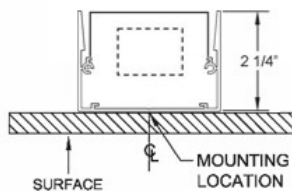
Swivel Stem Mount:
Specify **S** code in catalog #



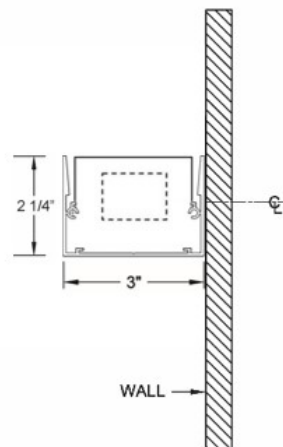
CA Earthquake Stem Mount:
Specify **SEQ** code in catalog #



Surface Mount:
Specify **SF** code in catalog #



Wall Mount:
Specify **WM** code in catalog #

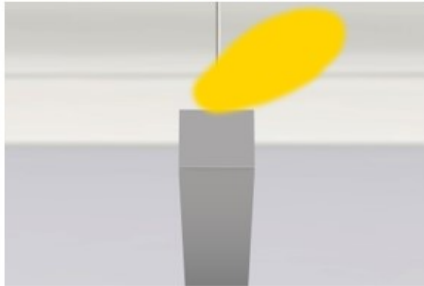


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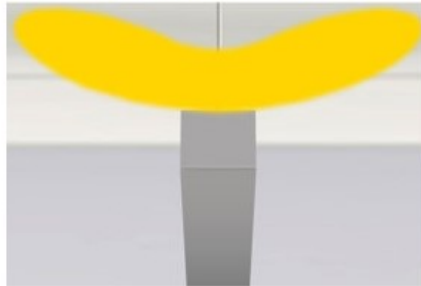
GradientGuide Options

Each G-Beam configuration below delivers smooth, even ceiling gradient illumination. Specify the G-Beam rectilinear form factor that works with *your design intent*.

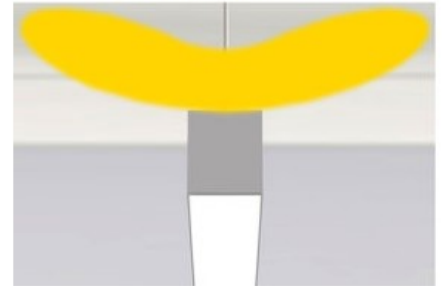
GB32U2 Asymmetric Indirect 3" W x 2" H



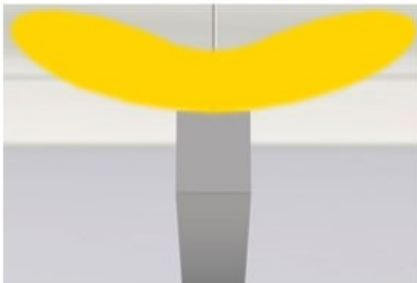
GB32U2 Indirect 3" W x 2" H



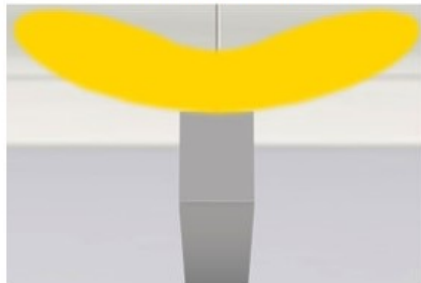
GB33B2 Bi-Directional 3" W x 3" H



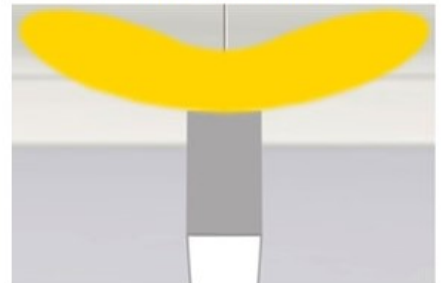
GB33U2 Indirect 3" W x 3" H



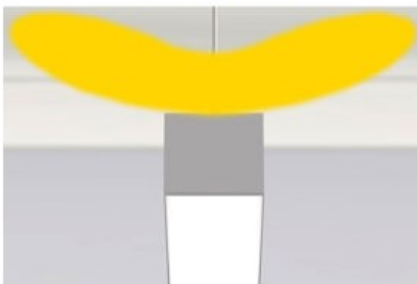
GB34U2 Indirect 3" W x 4" H



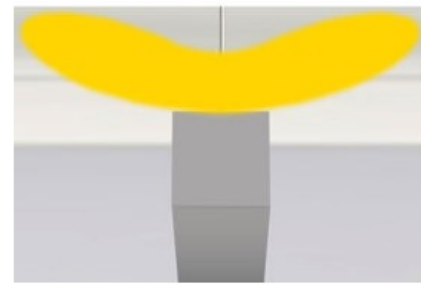
GB43B2 Bi-Directional 4" W x 3" H



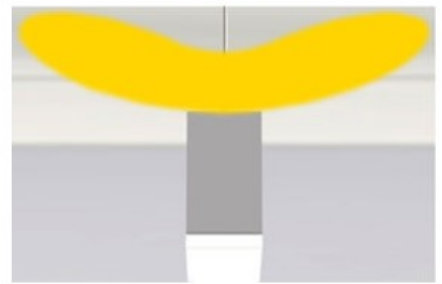
GB43B2 Bi-Directional 4" W x 3" H



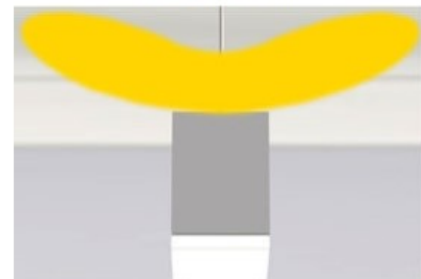
GB44U2 Indirect 4" W x 4" H



GX3D35B2 Bi-Directional 3" W x 5" H,
3D Lens Direct



GX3D45B2 Bi-Directional 4" W x 5" H,
3D Lens Direct



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").

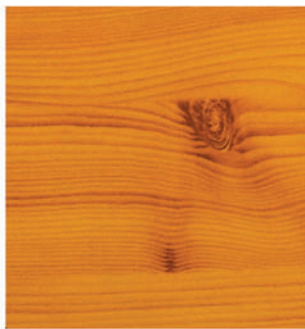
Maximum Watts Per Foot

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 scaled accurately for 8.5" x 11" page.



FINISH CODE: KPI



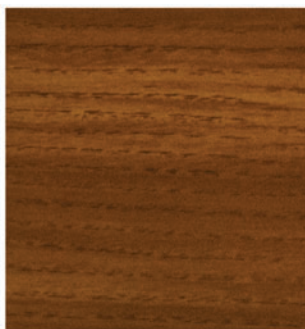
FINISH CODE: MED



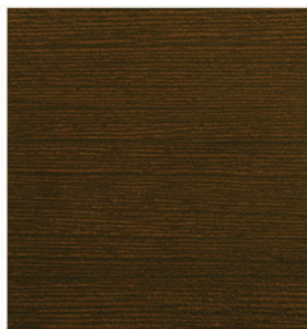
FINISH CODE: HCH



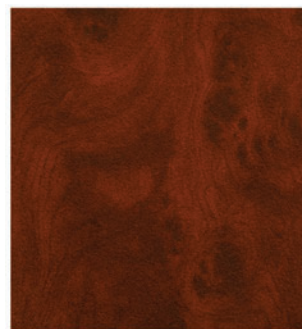
FINISH CODE: WAL



FINISH CODE: AOK



FINISH CODE: FWG



FINISH CODE: MH1



FINISH CODE: MH2



SAMPLE FIXTURE WITH WOOD FINISH



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

Approved Cut Release option

If offered for Approved Cut Release in the Gammalux factory quote, the product in the accompanying purchase order is authorized by the GC to be released to production without the need for factory drawings for approval.

I confirm that:

- all ordering options are clearly noted (highlighted, boxed, written in, etc.) on page 1 of this fixture cut sheet
- quoted leadtime begins upon Gammalux's confirmation that the P.O. and marked cut sheet match their quote.
- the order will be released to production and a "record only" drawing will be provided prior to product shipment
- changes after Gammalux's release to production will result in a minimum 25% change fee which increases as production progresses.

General Contractor _____

GC's authorized Signature (or stamp below) _____

Signatory's printed name _____