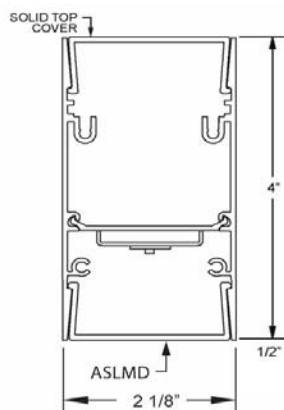**GAMMALUX®**
Lighting Systems
"Your design intent"

Click or scan QR code to view latest spec sheet

NEED FLUORESCENT?
CLICK HERE

Revision Date: May 18, 2022
Gammalux Lighting Systems reserves the right to change details of fixture designs and construction at any time.

SOLID TOP COVER

4"

1/2"

ASLMD

2 1/8"

LED Lamping

Click photo to view product page
Page 1:   Overview & Nomenclature
Pages 2-3:   Specifications
Pages 4-5:   Photometric Info / Downloads
Page 6:   Mounting Details
Pages 8-9:   Custom Programming

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: ARRA, RoHS, REACH and Prop 65 compliant. Extruded aluminum housing for superior fit and finish. Runs and complex patterns are ordered, built and shipped with a single item # and can be built to match field conditions.

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: Lenses available in medium or heavy diffusion, evenly illuminated.

Standard Nomenclature

Manufacturer	Output	Driver	Mounting Method	Paint Colors	Paint Finish
Gammalux	**S** Standard Output	**ZTV10** 0-10V Dim to 10%	**C** Cable	**W** White (See color chart for other colors)	**H** High Gloss
	H High Output	For all options, see next page	**S** Swivel Stem		**SG** Semi-Gloss
	C Custom Output (see addendum page)		**SEQ** CA Earthquake Stems/Fittings	**CCM** Custom Color Match	

Cross Section (nom) 2"x 4"

Distribution Direct

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

Length Option
N Nominal
S Specific

SF Surface Ceiling
WSP Wall Spacer, ½"

For wood finishes, see addendum page

GB24D2 — 1SL358 — UNIV — ZTV10 — 4'N — C24" — ASLMD — WSG —

Model 2ⁿᵈ Gen

Series **B**eam

CRI**
8 for 80+
9 for 90+

Lamp LED

Voltage 120V, 277V, UNIV

LED Arrays in X-Sec 1

Suspension Length
Distance to top of fixture. If not suspended, leave blank.

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.

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

Shielding
ASLMD Acrylic Satin Lens, Medium Diffuse
ASLHD Acrylic Satin Lens, Heavy Diffuse

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

248 East Arrow Highway, San Dimas, CA 91773 Tel 909.599.9669 | 800.356.3275
Fax 909.599.5288 E-mail: info@gammalux.com
Gammalux products comply with ARRA Buy American requirements

1

PROUD MEMBER OF IALD LIRC · MADE IN U.S.A · cULus

GAMMALUX®
Lighting Systems
"Your design intent"

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: 527.4 LPF				MEDIUM DIFFUSE LENS (ASLMD)		DELIVERS: 703.2 LPF			
HEAVY DIFFUSE LENS (ASLHD)		DELIVERS: 400.8 LPF				HEAVY DIFFUSE LENS (ASLHD)		DELIVERS: 534.4 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.	8.1	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: ARRA, RoHS, REACH and Prop 65 compliant. Extruded aluminum body 2.125" wide x 4" 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 for approval prior to production. Fixtures built to less than 4' may require master/satellite 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. 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**). 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.

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 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.

High Gloss Finish

Semi Gloss Finish

White (WH) Red (RH) Yellow (YH) White (WSG) Silver (SSG) Gray (GYSG) Off White (OWSG)

Green (GH) Blue (BH) Black (BKH) Light Gray (LGYSG) Bronze (BZSG) Satin Aluminum (SAPSG)

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

248 East Arrow Highway, San Dimas, CA 91773 Tel 909.599.9669 | 800.356.3275
Fax 909.599.5288 E-mail: info@gammalux.com
Gammalux products comply with ARRA Buy American requirements

3

GAMMALUX
Lighting Systems
"Your design intent"

Photometric Reports for
STANDARD OUTPUT FIXTURES

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

IESNA:	LM-63-2002
ISSUEDATE:	8/15/2018
TEST:	12451600.02 MOD TO SO, 57452
TESTLAB:	UL VERIFICATION SVCS, INC.
MANUFAC:	GAMMALUX LTG SYS
LUMCAT:	GB24D21SL358ASLMD
LAMPS:	144 WHITE LEDs
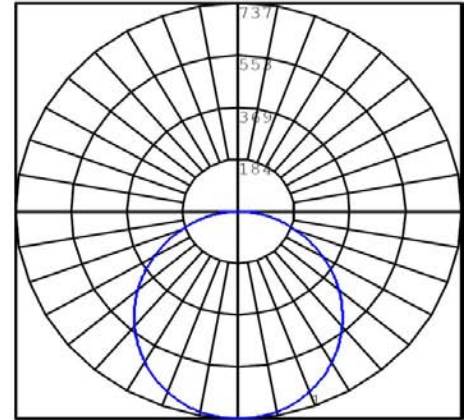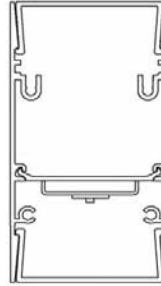
EFFICACY (TOTAL):	94.2 LPW
DISTRIBUTION % UP:	0% (0 LPF)
DISTRIBUTION % DN:	100% (527.4 LPF)
CIE CLASSIFICATION:	DIRECT

LUMINOUS OPENING:	RECTANGULAR
WIDTH:	2 in.
LENGTH:	48.5 in.
INPUT WATTS:	22.4 per 4'

Acrylic Satin Lens,
Medium Diffuse
(ASLMD)

IES DOWNLOAD   REVIT DOWNLOAD

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

IESNA:	LM-63-2002
ISSUEDATE:	8/15/2018
TEST:	12451600.04 MOD TO SO, HD, 57452
TESTLAB:	UL VERIFICATION SVCS, INC.
MANUFAC:	GAMMALUX LTG SYS
LUMCAT:	GB24D21SL358ASLHD
LAMPS:	144 WHITE LEDs
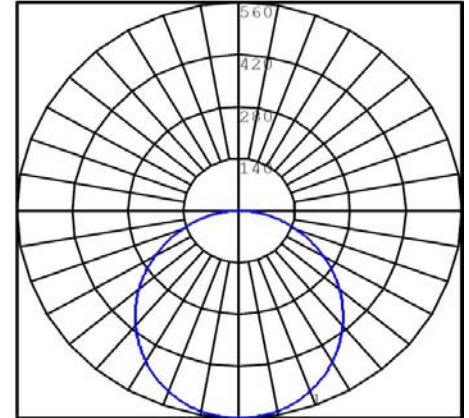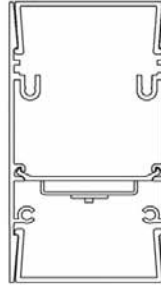
EFFICACY (TOTAL):	71.5 LPW
DISTRIBUTION % UP:	0% (0 LPF)
DISTRIBUTION % DN:	100% (400.9 LPF)
CIE CLASSIFICATION:	DIRECT

LUMINOUS OPENING:	RECTANGULAR
WIDTH:	2 in.
LENGTH:	48.5 in.
INPUT WATTS:	22.4 per 4'

Acrylic Satin Lens,
Medium Diffuse
(ASLHD)

IES DOWNLOAD   REVIT DOWNLOAD

cULus   PROUD MEMBER OF   IALDLIRC   MADE IN U.S.A

248 East Arrow Highway, San Dimas, CA 91773 Tel 909.599.9669 | 800.356.3275
Fax 909.599.5288 E-mail: info@gammalux.com
Gammalux products comply with ARRA Buy American requirements

4

GAMMALUX®
Lighting Systems
"Your design intent"

Photometric Reports for
HIGH OUTPUT FIXTURES

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

IESNA:	LM-63-2002
ISSUEDATE:	8/15/2018
TEST:	12451600.02, 57452
TESTLAB:	UL VERIFICATION SVCS, INC.
MANUFAC:	GAMMALUX LTG SYS
LUMCAT:	GB24D21HL358ASLMD
LAMPS:	144 WHITE LEDs
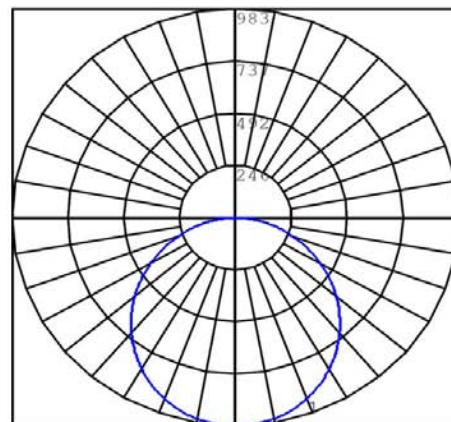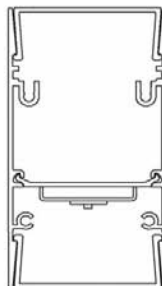
EFFICACY (TOTAL):	91.4 LPW
DISTRIBUTION % UP:	0% (0 LPF)
DISTRIBUTION % DN:	100% (703.2 LPF)
CIE CLASSIFICATION:	DIRECT

LUMINOUS OPENING:	RECTANGULAR
WIDTH:	2 in.
LENGTH:	48.5 in.

INPUT WATTS:	30.76 per 4'

Acrylic Satin Lens,
Medium Diffuse
(ASLMD)

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

IESNA:	LM-63-2002
ISSUEDATE:	8/15/2018
TEST:	12451600.04 MOD TO HD, 57452
TESTLAB:	UL VERIFICATION SVCS, INC.
MANUFAC:	GAMMALUX LTG SYS
LUMCAT:	GB24D2HSL358ASLHD
LAMPS:	144 WHITE LEDs
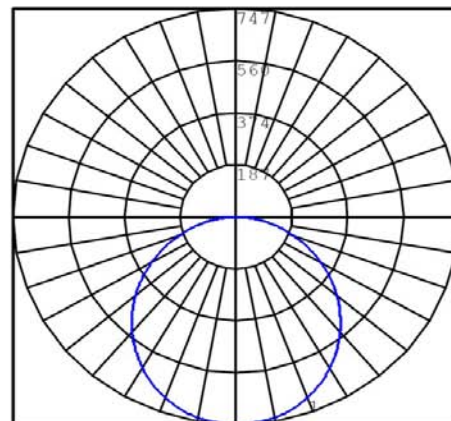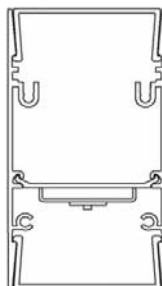
EFFICACY (TOTAL):	69.5 LPW
DISTRIBUTION % UP:	0% (0 LPF)
DISTRIBUTION % DN:	100% (534.4 LPF)
CIE CLASSIFICATION:	DIRECT

LUMINOUS OPENING:	RECTANGULAR
WIDTH:	2 in.
LENGTH:	48.5 in.

INPUT WATTS:	22.4 per 4'

Acrylic Satin Lens,
Medium Diffuse
(ASLHD)

248 East Arrow Highway, San Dimas, CA 91773 Tel 909.599.9669 | 800.356.3275
Fax 909.599.5288 E-mail: info@gammalux.com
Gammalux products comply with ARRA Buy American requirements

5

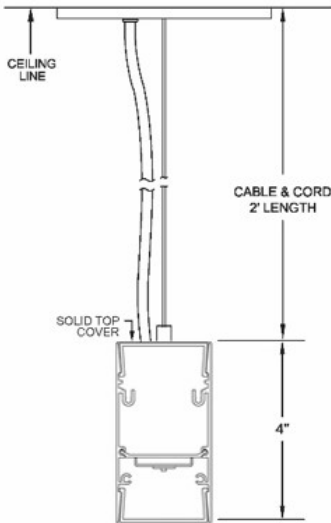cULus PROUD MEMBER OF IALDLIRC MADE IN U.S.A

Mounting Details

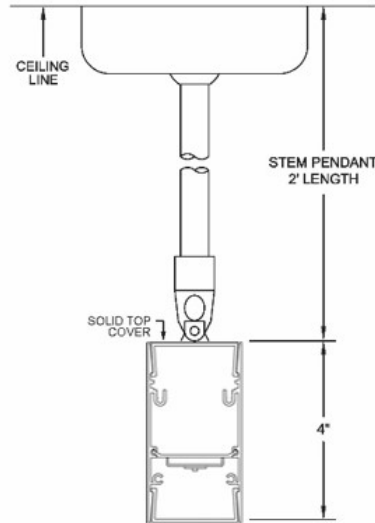**Factory Drawings:** Fully dimensioned factory drawings will be provided upon receipt of purchase order.

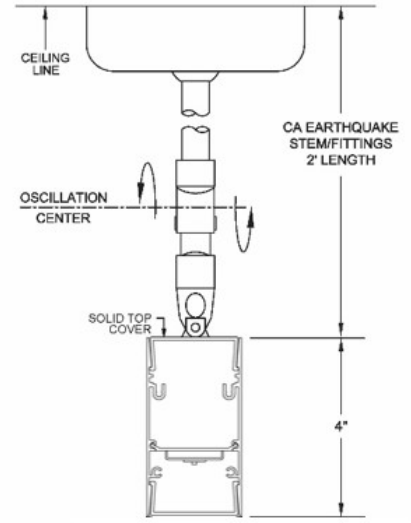**Cable Mount:**
Specify **C** code in catalog #
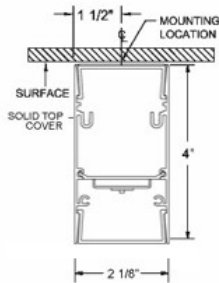
Swivel Stem Mount:
Specify **S** code in catalog #

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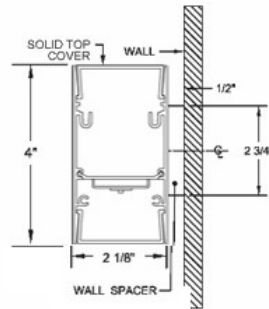Specify **SEQ** code in catalog #

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

Wall Spacer Mount:
Specify **WSP** code in catalog #

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

GAMMALUX®
Lighting Systems
"Your design intent"

G-Beam Series GB24D2-LED-LENS
General Illumination - Suspended or Surface Mount
Direct Distribution

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.

248 East Arrow Highway, San Dimas, CA 91773 Tel 909.599.9669 | 800.356.3275
Fax 909.599.5288 E-mail: info@gammalux.com
Gammalux products comply with ARRA Buy American requirements

7

GAMMALUX®
Lighting Systems
"Your design intent"

G-Beam Series GB24D2-LED-LENS
General Illumination - Suspended or Surface Mount
Direct Distribution

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.
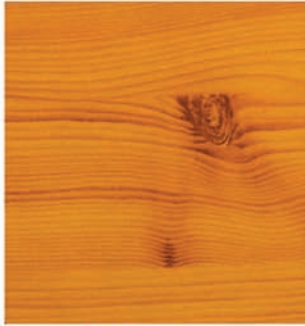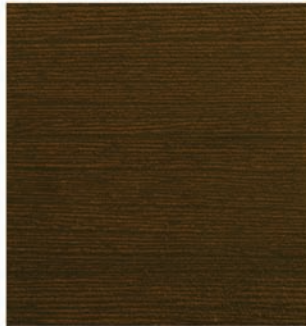

FINISH CODE: KPI
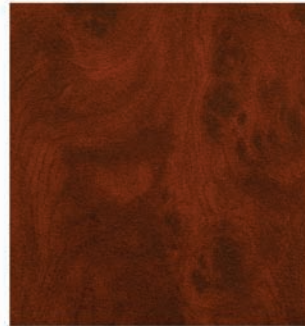

FINISH CODE: MED

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.

248 East Arrow Highway, San Dimas, CA 91773 Tel 909.599.9669 | 800.356.3275
Fax 909.599.5288 E-mail: info@gammalux.com
Gammalux products comply with ARRA Buy American requirements

8