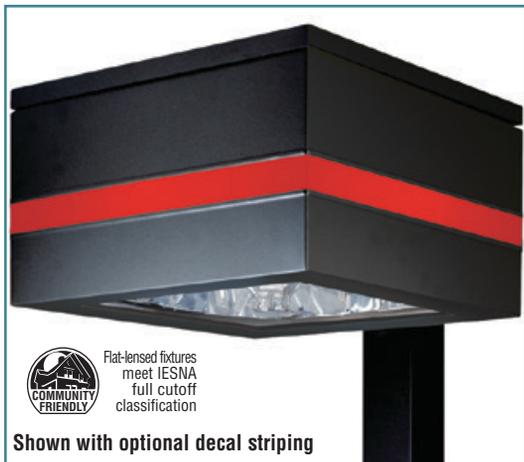
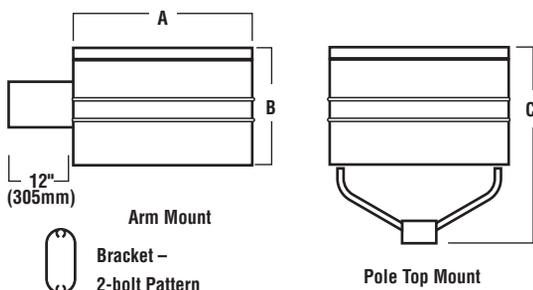


GREENBRIAR® - FLAT LENS (Various reflectors are protected by U.S. Patent No. 6,464,378.)



DIMENSIONS



	A	B	C
GFM Arm Mount	21-5/8"(549mm)	12-3/4"(324mm)	—
GFPM Pole Top	21-5/8"(549mm)	12-3/4"(324mm)	21-15/16"(557mm)
GFR Arm Mount	21-5/8"(549mm)	16-1/8"(410mm)	—
GFPR Pole Top	21-5/8"(549mm)	16-1/8"(410mm)	25"(635mm)

LUMINAIRE EPA CHART - Greenbriar Flat Lens		
	GFM 12" Bracket	GFR 12" Bracket
Single	3.2	3.8
D180°	6.3	7.6
D90°	5.7	7.6
T90°	8.8	11.4
TN120°	9.0	11.4
Q90°	11.3	15.2
Pole Top	3.2	4.0

Note: House Side Shield adds to fixture EPA. Consult factory.

SHIPPING WEIGHTS - Greenbriar Flat Lens				
Catalog Number	Est. Weight (kg/lbs.)	Length (mm/in.)	Width (mm/in.)	Height (mm/in.)
GFM	19/41	635/25	635/25	495/19.5
GFPM	24/53	730/28.75	724/28.5	635/25
GFR	26/57	724/28.5	711/28	648/25.5
GFPR	29/64	724/28.5	724/28.5	737/29

HOUSING - The aluminum housing is available in two sizes. Both housings are the same dimensions square, however, the GFR is deeper. Both are finished to produce a clean, sharp appearance, and designed to ensure weather-tight construction. Top-access covers provide ease of installation and servicing.

LENS/GASKET - The flat clear tempered glass lens is sealed to the housing with an EPDM gasket, preventing entry of moisture, dust and insects.

TOP COVER FASTENERS - The four captive stainless steel fasteners secure the top-access cover to the housing.

SOCKETS - Porcelain mogul-base sockets. All sockets are pulse-rated.

LIGHT SOURCES - Pulse-Start Metal Halide, Natural White Pulse-Start Metal Halide, Metal Halide Reduced Envelope, or High Pressure Sodium. Clear lamp is supplied as standard.

BALLASTS - Pulse-Start Metal Halide (200, 250, 320, 400, 750 and 1000 watt), 775 watt Natural White Pulse-Start Metal Halide, Metal Halide, and High Pressure Sodium fixtures feature a high-power factor type CWA ballast. The 575 watt Natural White Pulse-Start Metal Halide fixtures feature HX-HPF type ballasts. All ballasts are designed for -20° F operation.

REFLECTORS/DISTRIBUTION

PATTERNS - The series is available in a variety of reflector systems and distribution patterns, all with vertical oriented lamps: **GFR:** Type II (2), Type III (3), Perimeter Forward Throw (FP), Type V (5), Automotive Forward Throw (FA), as well as, ART (Advanced Reflector Technology) optical systems: Automotive Forward Throw (AFT), Automotive Interior (AI), and a high performance Type V (540) for 38' - 42' mounting heights.

GFM: Type II (2), Type III (3), Perimeter Forward Throw (FP), and Type V (5).

All reflectors are field-rotatable, enabling generous flexibility in distribution patterns without moving the fixture. Photometric data is tested in accordance with IESNA guidelines.

BRACKETS - Arm Mount: Use with 5" traditional drilling pattern. 2-1/2" x 5-3/8" x 12" extruded aluminum bracket is shipped standard. An 8" bracket is available for single or D180° configurations, but must be ordered from the Options column of the ordering chart. A Round Pole Plate (RPP2) is required for mounting to 3"-5" round poles. (See Accessory Ordering Information chart.)

Pole Top: The cast aluminum mounting hub conceals the wiring compartment and mounts directly to LSI's unique "pole-top mounting plate", via a high-strength grade five steel bolt with nylon insert and split lock washer for double locking. Support arms consist of four 11/16" O.D. aluminum rods and are pre-wired for ease of installation.

FINISHES - Each fixture is finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling, and is guaranteed for five full years. Standard colors include bronze, black, platinum plus, white, satin verde green, metallic silver, and graphite.

DECAL STRIPING - LSI offers optional color-coordinated decals in 9 standard colors to accent the fixture. Decal is guaranteed for five years against peeling, cracking, or fading.

PHOTOMETRICS - Please visit our web site at www.lsi-industries.com for detailed photometric data.

This product, or selected versions of this product, meet the standards listed below. Please consult factory for your specific requirements.



GREENBRIAR® - FLAT LENS

LUMINAIRE ORDERING INFORMATION



TYPICAL ORDER EXAMPLE: **GFR 5 1000 PSMV F MT PLP 8BK 20**

Luminaire Prefix	Distribution	Lamp Wattage	Light Source	Lens	Line Voltage	Luminaire Finish	Options
Medium Vertical Burn GFM - Arm Mount GFPM - Pole Top ¹	2 - Type II 3 - Type III FP - Perimeter Forward Throw 5 - Type V	200 250 320 400	PSMV - Pulse-Start Metal Halide 200, 250, 320 Watt PSMVR - Pulse-Start Metal Halide Reduced Envelope 400 Watt HPS - High Pressure Sodium 250, 400 Watt	F - Flat Clear Tempered Glass	480 MT - Multi Tap TT - Tri-Tap	BRZ - Bronze BLK - Black PLP - Platinum Plus WHT - White SVG - Satin Verde Green GPT - Graphite MSV - Metallic Silver	8BK - 8" Bracket ³ PCI120 - Button-Type Photoelectric Control ⁴ PCI208 - Button-Type Photoelectric Control ⁴ PCI240 - Button-Type Photoelectric Control ⁴ PCI277 - Button-Type Photoelectric Control ⁴ PCI347 - Button-Type Photoelectric Control ⁴ IL - Internal Louver ⁵ LL - Less Lamp
Reduced Vertical Burn GFR - Arm Mount GFPR - Pole Top ¹	2 - Type II 3 - Type III FP - Perimeter Forward Throw FA - Automotive Forward Throw 5 - Type V Advanced Reflector Technology Optical Systems: AFT - Automotive Forward Throw AI - Automotive Interior 540 - Type V (38"-42" Mtg. Ht.)	400 575 750 775 1000 575 750 775 1000	PSMV - Pulse-Start Metal Halide 400, 750, 1000 ² Watt NWPSMV - Pulse-Start Metal Halide Natural White 575, 775 Watt MHR - Metal Halide Reduced Envelope 1000 Watt PSMV - Pulse-Start Metal Halide 750, 1000 ² Watt NWPSMV - Pulse-Start Metal Halide Natural White 575, 775 Watt MHR - Metal Halide Reduced Envelope 1000 Watt	MT - Multi Tap consists of 120V, 208V, 240V and 277V and is prepared for highest voltage. Alternate voltages will require field adjustment. TT - Tri-Tap consists of 120V, 277V and 347V and is shipped standard for Canadian applications and is prepared for highest voltage. Alternate voltages will require field adjustment.	Consult Factory for International Voltages and Light Sources		Color Decals 45 - Light Gold 20 - Charcoal Metallic 55 - Black 94 - Blue Metallic 59 - Dark Green 51 - Dark Red 21 - Tomato Red 50 - White 700 - Aztec Silver Metallic

FOOTNOTES:

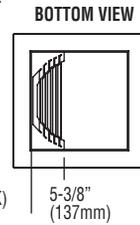
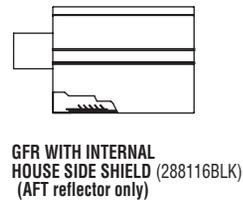
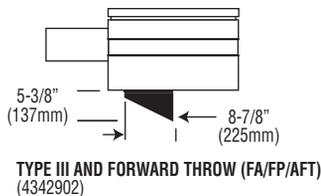
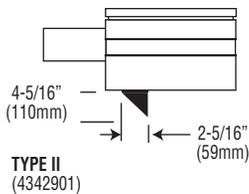
- When ordering pole top fixtures for tenon mounting, a pole top adaptor must be ordered.
- Tri-Tap not available in 1000 Watt PSMV. Voltage must be specified - 120V, 277V or 347V.
- An 8" bracket can only be ordered with single and D180° configurations.
- On GFR/GFPR photoelectric control can only be used with 400 Watt PSMV.
- Available with GFR AFT reflector only. Can be ordered as an accessory, use Order #288116BLK.

ACCESSORY ORDERING INFORMATION (Accessories are field installed)

Description	Order Number	Description	Order Number
FK120 - Single Fusing	FK120+	GFR/GFM 2 HSS - House Side Shield	4342901++
FK277 - Single Fusing	FK277+	GFPR/GFPM 2 HSS - House Side Shield	4342901++
DFK208, 240 - Double Fusing	DFK208, 240+	GFR/GFM 3 HSS - House Side Shield	4342902++
DFK480 - Double Fusing	DFK480+	GFPR/GFPM 3 HSS - House Side Shield	4342902++
FK347 - Single Fusing	FK347+	GFR/GFM FP HSS - House Side Shield	4342902++
RPP2 - Round Pole Plate	162914BLK++	GFPR/GFPM FP HSS - House Side Shield	4342902++
BKS-BO-WM-* - CLR Wall Mount Plate	123111CLR	GFR/GFPR FA/AFT HSS - House Side Shield	4342902++
		GFR/GFPR AFT IL - Internal Louver	288116BLK++

HOUSE SIDE SHIELD

+Fusing must be located in the hand-hole of the pole on GFR/GFPR Series - not in the fixture. ++ Black only.



LED AREA LIGHTS - LSI SLICE MEDIUM (XLCM)



US & Int'l. patents pending

SMARTTEC™ - LSI drivers feature integral sensor which reduces drive current, when ambient temperatures exceed rated temperature.

ENERGY SAVING CONTROL OPTION - DIM - 0-10 volt dimming enabled with controls by others. Available with High Output (HO) drive current only.

EXPECTED LIFE - Minimum 60,000 hours to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web site for specific guidance.

LEDS - Select high-brightness LEDs in Cool White (5000K nominal), or Neutral White (4000K nominal) color temperature, 70 CRI (nominal).

DISTRIBUTION/PERFORMANCE - Types FT, FT-L, FT-R and 5. FT-L and FT-R allow for D180 mounting configurations with factory set optics for applications such as automotive front row. Exceptional uniformity creates bright environment at lower light levels.

HOUSING - One-piece, die-formed aluminum housing contains factory prewired driver. Wiring access door (with safety lanyard) located underneath.

OPTICAL UNIT - Clear tempered flat glass lens permanently sealed to weather-tight aluminum optic frame creates an IP65 rated optical unit (includes pressure-stabilizing breather). Optic frame recessed into housing cavity and sealed to the housing with one-piece EPDM gasket.

MOUNTING - Tapered rear design allows fixtures to be mounted in 90° and 120° configurations without the need for extension arms. Use with 3" reduced drilling pattern. A round pole plate is required for mounting to round poles. Wall mount available by ordering wall mounting bracket (BKS-XBO-WM-* -CLR). See Accessory Ordering Information chart for all brackets.

ELECTRICAL - Two-stage surge protection (including separate surge protection built into electronic driver) meets Location Category C Low. Available with universal voltage power supply 120-277 VAC (50/60Hz input), and 347-480 VAC. Optional button-type photocells (PCI) are available in 120, 208, 240, 277 or 347 volt (supply voltage must be specified).

DRIVER - Available in SS (Super Saver) and HO (High Output) drive currents. Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can easily be accessed.

OPERATING TEMPERATURE - -40°C to +50°C (-40°F to +122°F)

FINISH - Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Available in black, bronze and white. Other standard LSI finishes available. Consult factory.

WARRANTY - LSI LED fixtures carry a limited 5-year warranty.

PHOTOMETRICS - Please visit our web site at www.lsi-industries.com for detailed photometric data.

SHIPPING WEIGHT (in carton) - One fixture: 25.25 lbs. (11.5 kg). Packed two per carton: 43.5 lbs. (19.7 kg).

LISTING - UL listed to U.S. and international safety standards. Suitable for wet locations. For a list of the specific products in this series that are DLC listed, please consult the LED Lighting section of our website or the Design Lights website at www.designlights.org.

DOE LIGHTING FACTS

Department of Energy has verified representative product test data and results in accordance with its Lighting Facts Program. Visit www.lightingfacts.com for specific catalog strings.

LIGHT OUTPUT - XLCM				
		Lumens (Nominal)		Watts (Nominal)
		Type FT	Type 5	
Cool White	SS	22800	22900	193
	HO	30900	31100	278
Neutral White	SS	18400	18500	193
	HO	24100	23900	278

LED Chips are frequently updated therefore values may increase.

This product, or selected versions of this product, meet the standards listed below. Please consult factory for your specific requirements.



Fixtures comply with ANSI C136.31-2010 American National Standard for Roadway Lighting Equipment - Luminaire Vibration 1.5G requirements.

LED AREA LIGHTS - LSI SLICE MEDIUM (XLCM)



LUMINAIRE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: **XLCM 5 LED SS CW UE BLK PCI120**

Prefix	Distribution	Light Source	Drive Current	Color Temperature	Input Voltage	Finish	Options
XLCM	5 - Type V FT - Forward Throw FT-L - Forward Optic Rotated for D180 Mount (Left Side) FT-R - Forward Optic Rotated for D180 Mount (Right Side)	LED	SS - Super Saver HO - High Output	CW - Cool White NW - Neutral White	UE - Universal Voltage (120-277V) 347-480 Universal Voltage (347-480V)	BLK - Black BRZ - Bronze WHT - White	DIM - 0-10V Dimming (from external signal) available with High Output (HO) drive current only Button Type Photocells PCI120 - 120V PCI208-277V - 208-277V PCI347 - 347V

LUMINAIRE EPA CHART - XLCM

	Single	0.5
	D180°	1.0
	D90°	0.8
	T90°	1.7
	TN120°	1.7
	Q90°	1.9

Note: House Side Shield adds to fixture EPA. Consult Factory.

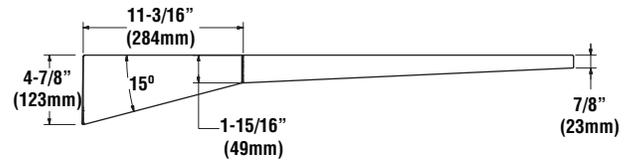
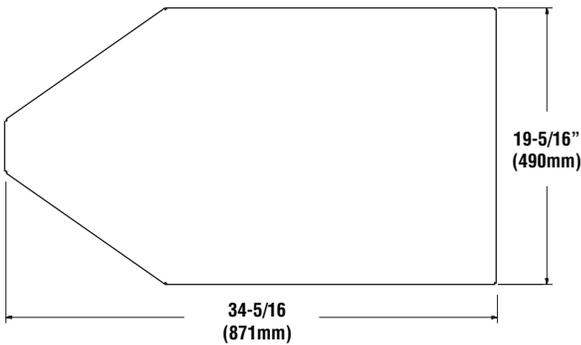
ACCESSORY ORDERING INFORMATION (Accessories are field installed)

Description	Order Number	Description	Order Number
BKS-XBO-WM-*CLR Wall Mount Bracket	382132CLR	DFK208, 240 Double Fusing (208V, 240V)	DFK208, 240 ²
XLCM-FT-HSS RM House Side Shield (Black only - rear mounted)	575448BLK ¹	DFK480 Double Fusing (480V)	DFK480 ²
X4RPP Round Pole Plate for 4" Poles	379967CLR	FK347 Single Fusing (347V)	FK347 ²
X5RPP Round Pole Plate for 5" Poles	379968CLR		
FK120 Single Fusing (120V)	FK120 ²		
FK277 Single Fusing (277V)	FK277 ²		

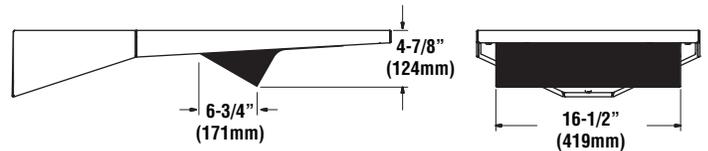
FOOTNOTES:

- 1 - House Side Shields add to fixture EPA. Consult factory.
- 2 - Fusing must be located in the hand hole of pole.

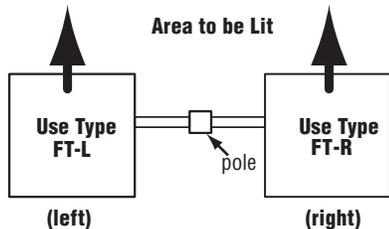
DIMENSIONS



HOUSE SIDE SHIELD



LEFT AND RIGHT VERSIONS OF TYPE FT REFLECTORS (TOP VIEW)



Note: Optics are not field-rotatable. For D180 Forward Throw installations specify left (FT-L) and/or right (FT-R) side mounting. Orientation is based on standing at the pole and looking out at the area to be lit.