GE Lighting

Tetra® MAX

LED Lighting System

Our **brightest** solution for **medium** channel letters





Tetra® MAX

Maximized Output. Minimized Expense.

Created specifically for medium channel letters the **Tetra MAX** LED system is **28**% brighter than our previous product, delivers incredibly uniform light, installs easily and operates efficiently. Working closely with sign builders and owners, we've refined our design to improve performance while reducing the amount of product required, further reducing installation and material costs. **28**% **Brighter!**

Powerful OptiLens[™]



Tetra MAX features **OptiLens™** a patented technology that captures otherwise wasted light and redirects it towards the illuminated surface with remarkable uniformity. It optimizes each LED—which enables wider stroke spacing—reducing the amount of material needed per sign while helping protect the LED against moisture, humidity, damage and corrosion.

6% Greater loading is a competitive advantage

Our system can now operate 64 feet of product per 60W power supply (up from 60 feet in our previous design) for even greater material and installation labor savings.





Use one row, not two. Tetra MAX stretches stroke spacing to an impressive 9 inches in a 4-inch depth channel while maintaining impressive light uniformity on the sign face. It protects your customers' brand image while reducing product costs and saving you installation time.



Tetra® MAX High Output

30% Brighter!

When extreme brightness is desired, **Tetra MAX High Output** delivers with White and Red options. This super bright system is now 30% brighter than our previous product.

Total GE Reliability

To ensure every **Tetra MAX** installation will operate brilliantly for years, we perform the most extensive, stringent testing in the industry. Rather than rely solely on test data from LED suppliers, we test the LED, sub-system and complete system at our in-house and independent laboratories around the world. Validation of our designs, components, products and processes include high-temperature, high-humidity and accelerated life testing.

Components

SKU	Description	Package Quantity
GEMX71-2	Tetra MAX 7100K	100 ft (30.48 m)/box (200 modules)
GEMX50-2	Tetra MAX 5000K	100 ft (30.48 m)/box (200 modules)
GEMX41-2	Tetra MAX 4100K	100 ft (30.48 m)/box (200 modules)
GEMX32-2	Tetra MAX 3200K	100 ft (30.48 m)/box (200 modules)
GEMXH71-2	Tetra MAX High Output 7100K	100 ft (30.48 m)/box (200 modules)
GEMXH50-2	Tetra MAX High Output 5000K	100 ft (30.48 m)/box (200 modules)
GEMXH41-2	Tetra MAX High Output 4100K	100 ft (30.48 m)/box (200 modules)
GEMXH32-2	Tetra MAX High Output 3200K	100 ft (30.48 m)/box (200 modules)
GEMXHRD-1	Tetra MAX High Output Red	100 ft (30.48 m)/box (200 modules)
GEMXRD-1	Tetra MAX Red	100 ft (30.48 m)/box (200 modules)
GEMXGL-1	Tetra MAX Green	100 ft (30.48 m)/box (200 modules)
GEMXBL-1	Tetra MAX Blue	100 ft (30.48 m)/box (200 modules)
GEMXPO-1	Tetra MAX Orange	100 ft (30.48 m)/box (200 modules)
GEMXRC-1	Tetra MAX Red-Orange	100 ft (30.48 m)/box (200 modules)
GEMXYG-1	Tetra MAX Amber	100 ft (30.48 m)/box (200 modules)
9409	18 AWG Supply Wire (0.82 mm²)	500 ft /spool (152.4 m)
191600041	22-14 AWG Twist-On Wire Connectors (0.33 - 2.08 mm ²)	500/ PK
192160004	18-14 AWG In-line Connectors (IDC) (0.82-2.08 mm²)	500/ PK

Technical Specific	cations	Typical	Typical	Energy	Energy		
Color	Wavelength	Brightness (lumens/module)	Brightness (lumens/ft.)	Consumption (Strip/Module)	Consumption (System/Modul		Viewing Angle
Tetra MAX White	7100K, 5000K	52	105	0.46	0.54	64ft (128 modules)	150
Tetra MAX Warm White	4100K, 3200K	47, 43	95, 86	0.46	0.54	64ft (128 modules)	150
Tetra MAX High Output White	7100K, 5000K	<mark>82</mark>	<mark>165</mark>	0.72	0.85	40ft (80 modules)	<mark>150</mark>
Tetra MAX High Output Warm White	4100K, 3200K	75,68	150, 136	0.72	0.85	40ft (80 modules)	150
Tetra MAX High Output Red	625nm	16	31	0.41	0.49	71ft (142 modules)	150
Tetra MAX Red	625nm	14	27	0.48	0.59	60ft (120 modules)	150
Tetra MAX Blue	467nm	10	20	0.48	0.59	60ft (120 modules)	150
Tetra MAX Green	530nm	30	60	0.48	0.59	60ft (120 modules)	150
Tetra MAX Orange	606nm	13	25	0.36	0.44	80ft (160 modules)	150
Tetra MAX Red-Orange	618nm	12	23	0.29	0.36	100ft (200 modules)	150
Tetra MAX Amber	589nm	16	21	0.54	0.66	53ft (106 modules)	150

Specification Item	Specification
LEDs/Module	MAX & MAX HO White: 3 MAX HO Red: 4
Modules/ft.	2
Cutting Resolution	Cut on wire between every module
Power Supply	GEPS12-20 Input: 90-264VAC; Output: 12VDC

GEPS12-20 Input: 90-264VAC; Output: 12VDC GEPS12-60U-NA Input: 108-305VAC; Output: 12VDC GEPS12-60U-GL Input: 108-305VAC; Output: 12VDC GEPS12W-60 Input: 90-264VAC; Output: 12VDC

dei 312 000 de input. 100 303 v.Ac, Output. 12 v.Dc							
GEPS12W-60 Input: 90-264VAC; Output: 12VDC GEPS12D-60U Input: 90-305VAC; Output: 12VDC							
							60W,80W, 100W,180W
20 ft. (6.1 m)	120 ft. (36.6 m)	18AWG/0.82mm ² supply wire - 9409					
25 ft. (7.6 m)		16AWG/1.31mm ² supply wire					
35 ft. (10.6 m)		14AWG/2.08mm² supply wire					
40 ft. (12.1 m)		12AWG/3.31mm ² supply wire					
Wiring to be installed in accordance with Article 725 of the National Electric code (NEC).							
-40 °C to +60 °C							
Max White & Max HO Whit	te .0.31" x 2.56" x 0.55"	Max HO Red 0.24" x 3.06" x 0.55"					
For best results, recomme	nded sign depth is	For best results, recommended sign depth is					
4 inches (102mm) or great	er	4 inches (102mm) or greater					
GE offers a limited system	warranty of up to five	(5) years					
UL Recognized #E219167, UL Classified #E229508, CSA Approved #216319, CE, C-tick, RoHS,							
	GEPS12W-60 Input: 90-26 GEPS12D-60U Input: 90-30 60W,80W, 100W,180W 20 ft. (6.1 m) 25 ft. (7.6 m) 35 ft. (10.6 m) 40 ft. (12.1 m) Wiring to be installed in accordanc -40 °C to +60 °C Max White & Max HO Whit For best results, recomme 4 inches (102mm) or great GE offers a limited system	GEPS12W-60 Input: 90-264VAC; Output: 12VDC GEPS12D-60U Input: 90-305VAC; Output: 12VDC 60W,80W, 100W,180W 20 ft. (6.1 m) 25 ft. (7.6 m) 35 ft. (10.6 m) 40 ft. (12.1 m) Wiring to be installed in accordance with Article 725 of the Natio -40 °C to +60 °C Max White & Max HO White .0.31" x 2.56" x 0.55" For best results, recommended sign depth is 4 inches (102mm) or greater GE offers a limited system warranty of up to five					





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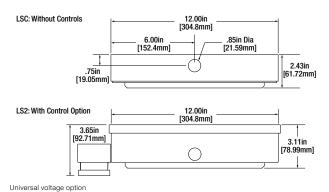
PermaLED® Outdoor Luminaires

Low Profile Canopy Luminaire





Dimensions



Product Features

PermaLED Low Profile LED Canopy luminaires are environmentally preferable, LED alternatives to traditional high-intensity discharge luminaires with up to 250W HID leading to energy savings of up to 74% compared to HID. The nominal 2.4" height of these extremely durable luminaires is less obtrusive making them ideal for entryways, parking garages and stairwells. The luminaires provide up to 10kV surge protection for effective suppression of most transient AC line surges. Luminaires are ETL listed in the United States and Canada, and backed by a 5 year warranty.

Specifications

Weight: LSC: 8 lbs./LS2: 9.6 lbs./LS2 with controls: 10.6lbs/347V: 11lbs.

Construction: One-piece cast, low copper (<0.4%CU) aluminum alloy. TGIC thermoset polyester powder coat paint finish, 2.5-mil nominal thickness; standard colors are bronze, silver and white.

LED System: LED system with a life rating at 100,000 hours at L_{93} . Luminaire efficacy up to 117.

Electrical: Offered in 25, 40, 55 and 72 watts, the luminaire is designed to operate through the 120-277 or 347 Vac universal voltage range and includes lightning surge protection in each unit, which is effective at suppressing most transient surges on the AC line. The 0-10V driver is control ready. The fixture power factor is \geq 90% and THD is \leq 20%. The THD for 25W, 347V is less than or equal to 25%.

Color Characteristics: CRI >70; CCT of 4000K and 5000K.

Optics: Light distribution is Type V for garage application or canopy applications with a single-piece, UV stabilized clear polycarbonate refractor lens.

Installation: Fixture mounts to recessed outlet box. Pendant mount option available (accessories not included).

Operating Temperature: -20°C to +45°C

Listings: LSC - IP 65 Rated optical chamber; LS2 - IP66 Rated; UL1310; FCC Part 15 for Class A for conducted and radiated emissions; DLC qualified; RoHS Compliant and ETL listed according to UL1598 for wet locations for the US and Canada; and tested in accordance with IEEE C62.41-2002 Category C low (10kV/5kA).

Warranty: Standard OSRAM 5-year luminaire warranty (LED152).

Note: Specifications subject to change without notice. IES files available upon request.







Ordering Guide

Item Number:

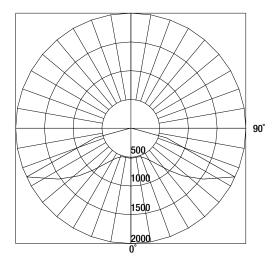
							Optional Controls		Optional
XXX	L	XX	7	XX	XX	XXX	(only available in LS2)	XX	Accessories
Product Name	Lamp Type	Wattage	CRI	Color Temp	Photometric	Voltage	DX/OSP=(0-10V dimmable)	Finish/ Color	=No Accessories
LSC=	LED	25	7=70+	40=4000K	T5=Garage	UNV=120-277V	Integral Occ Sensor/Photocell	BZ=Bronze	Bird Guard (BG-BZ)
Low Profile Canopy		40		50=5000K	Type V Optics	347=347V	DX/IWC=(0-10V dimmable)	WH=White	Bird Guard (BG-WH)
LS2=		55			C5=Canopy	(only available	Internal Wireless Control	SV=Silver	Bird Guard (BG-SV)
Low Profile Canopy		72			Type V Optics	in LS2)	=No Integrated Control		FSIR Remote Control
(IP66 housing)					D5=Canopy				for Sensors
Note Assessed as a constant	a di a sana santahi.				Type V Drop Lens				

OSRAM OSRAM

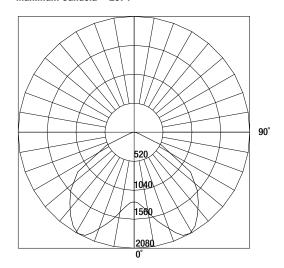
Note: Accessories purchased separately

Photometric Data

Low Profile Canopy; 55W, 4000K, Garage Optic Maximum Candela = 1995



Low Profile Canopy; 55W, 4000K, Canopy Optic Maximum Candela = 2074



Lumen Maintenance Factor

		Operatii	L ₇₀ Calculated Hours		
40°C	25,000	50,000	75,000	100,000	
PermaLED® Low Profile Canopy	0.95	0.95	0.94	0.93	1,080,644

Note: Projected LED Lumen Maintenance

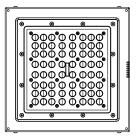
Data references the extrapolated performance projections for the PermaLED Low Profile Canopy in a 40°C ambient, based on 10,080 hours of LED testing (tested per 80-08 and projected per IESNATM-21-11).

For complete photometric reports or to download IES files, visit www.osramamericas.com

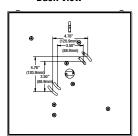
LSC: Without controls

Additional Diagrams/Mounting Details/Performance Comparisons

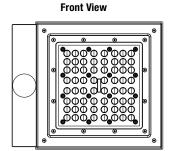
Front View



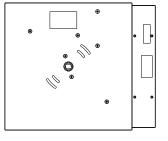
Back View



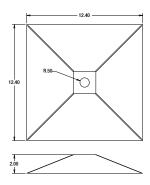
LS2: With control option



Back View



Accessory: Bird Guard





CL Series Canopy Bird Guard 1.5mm Powder Coated Aluminum Sheet Metal

Item Number	Ordering Abbreviation	Finish Color
72672	LSX-BG-WH Bird Guard	White
72673	LSX-BG-SV Bird Guard	Silver
72674	LSX-BG-BZ Bird Guard	Bronze
72909	FSIR-100 Remote Control for Sensor	_

	ormat	

Item Whit	Nun e	nber Silver	Bronze	Ordering Abbreviation	Wattage (W)	CRI	ССТ	Distribution	Lumens	(LPW)	BUG	Input Voltage
Gara	ge Op	71942	et Rated Housi 71944	LSC-L-40-740-T5-UNV-XX	40	70+	4000K	Type V	4300	108	B2-U0-G1	120-277
_		71940	71942	LSC-L-40-750-T5-UNV-XX	40	70+	5000K	Type V	4600	115	B2-U0-G1	120-277
7193	9	71943	71947	LSC-L-55-740-T5-UNV-XX	55	70+	4000K	Type V	5400	98	B3-U0-G1	120-277
			71945	LSC-L-55-750-T5-UNV-XX	55	70+	5000K	Type V	6100	111	B3-U0-G1	120-277
Gara(73087	Housing 73089	LS2-L-25-740-T5-UNV-XX	25	70+	4000K	Tuno V	2300	92	B2-U0-G1	120-277
7308		73086	73088	LS2-L-25-740-15-UNV-XX	25	70+	5000K	Type V Type V	2600	104	B2-U0-G1	120-277
7277		72779	72783	LS2-L-40-740-T5-UNV-XX	40	70+	4000K	Type V	4300	108	B2-U0-G1	120-277
7277		72777	72781	LS2-L-40-750-T5-UNV-XX	40	70+	5000K	Type V	4600	115	B2-U0-G1	120-277
7277		72780	72784	LS2-L-55-740-T5-UNV-XX	55	70+	4000K	Type V	5400	98	B3-U0-G1	120-277
7277		72778	72782	LS2-L-55-750-T5-UNV-XX	55	70+	5000K	Type V	6100	111	B3-U0-G1	120-277
7309 7309		73093 73092	73095 73094	LS2-L-72-740-T5-UNV-XX LS2-L-72-750-T5-UNV-XX	72 72	70+ 70+	4000K 5000K	Type V Type V	7400 8300	103 115	B3-U0-G1 B3-U0-G2	120-277 120-277
7309		73385	73387	LS2-L-75-750-15-0NV-XX	25	70+	4000K	Type V	2350	94	B1-U0-G0	347
7338		73384	73386	LS2-L-25-750-T5-347-XX	25	70+	5000K	Type V	2600	104	B1-U0-G0	347
7279		72803	72807	LS2-L-40-740-T5-347-XX	40	70+	4000K	Type V	4300	108	B2-U0-G1	347
7279		72801	72805	LS2-L-40-750-T5-347-XX	40	70+	5000K	Type V	4600	115	B2-U0-G1	347
7280		72804	72808	LS2-L-55-740-T5-347-XX	55	70+	4000K	Type V	5400	98	B3-U0-G1	347
7279 7338		72802 73391	72806 73393	LS2-L-55-750-T5-347-XX LS2-L-72-740-T5-347-XX	55 72	70+ 70+	5000K 4000K	Type V	6100 8400	111 117	B3-U0-G1 B3-U0-G1	347 347
7338		73390	73393	LS2-L-72-740-13-347-XX	72	70+	5000K	Type V Type V	8400	117	B3-U0-G1	347
Gara	ae Or	otic - IP66	Housing with	Occupancy Sensor	12	701	000010	туро у	0400	117	D0 00 01	0+1
7264		72647	72651	LS2-L-40-740-T5-UNV-DX-OSP-XX	40	70+	4000K	Type V	4300	108	B2-U0-G1	120-277
7264		72645	72649	LS2-L-40-750-T5-UNV-DX-OSP-XX	40	70+	5000K	Type V	4600	115	B2-U0-G1	120-277
7264		72648	72652	LS2-L-55-740-T5-UNV-DX-OSP-XX	55	70+	4000K	Type V	5400	98	B3-U0-G1	120-277
7264 7282		72646 72832	72650 72836	LS2-L-55-750-T5-UNV-DX-OSP-XX LS2-L-40-740-T5-347-DX-OSP-XX	55 40	70+ 70+	5000K 4000K	Type V	6100 4300	111	B3-U0-G1 B2-U0-G1	120-277 347
7282		72830	72834	LS2-L-40-740-15-347-DX-0SP-XX	40	70+	5000K	Type V Type V	4600	115	B2-U0-G1	347
7282		72833	72837	LS2-L-55-740-T5-347-DX-0SP-XX	55	70+	4000K	Type V	5400	98	B3-U0-G1	347
7282		72831	72835	LS2-L-55-750-T5-347-DX-0SP-XX	55	70+	5000K	Type V	6100	111	B3-U0-G1	347
				Wireless Control								
7274		72749	72753	LS2-L-40-740-T5-UNV-DX-IWC-XX	40	70+	4000K	Type V	4300	108	B2-U0-G1	120-277
7274 7274		72747 72750	72751 72754	LS2-L-40-750-T5-UNV-DX-IWC-XX LS2-L-55-740-T5-UNV-DX-IWC-XX	40 55	70+ 70+	5000K 4000K	Type V	4600 5400	115 98	B2-U0-G1 B3-U0-G1	120-277 120-277
7274		72748	72752	LS2-L-55-740-15-UNV-DX-IWC-XX	55	70+	5000K	Type V Type V	6100	111	B3-U0-G1	120-277
7284		72844	72849	LS2-L-40-740-T5-347-DX-IWC-XX	40	70+	4000K	Type V	4300	108	B2-U0-G1	347
7283		72842	72847	LS2-L-40-750-T5-347-DX-IWC-XX	40	70+	5000K	Type V	4600	115	B2-U0-G1	347
7284		72845	72850	LS2-L-55-740-T5-347-DX-IWC-XX	55	70+	4000K	Type V	5400	98	B3-U0-G1	347
7283		72843	72848	LS2-L-55-750-T5-347-DX-IWC-XX	55	70+	5000K	Type V	6100	111	B3-U0-G1	347
7258			et Rated Hous 72591	LSC-L-40-740-C5-UNV-XX	40	70+	4000K	Tuno V	4300	108	B2-U0-G1	120-277
7258		72587 —	72589	LSC-L-40-750-C5-UNV-XX	40	70+	5000K	Type V Type V	4500	113	B2-U0-G1	120-277
		72586	72590	LSC-L-55-750-C5-UNV-XX	55	70+	5000K	Type V	6100	111	B2-U0-G1	120-277
Cano	ру Ој	ptic - IP66						71				
7307		73075	73077	LS2-L-25-740-C5-UNV-XX	25	70+	4000K	Type V	2350	94	B1-U0-G0	120-277
7307		73074	73076	LS2-L-25-750-C5-UNV-XX	25	70+	5000K	Type V	2600	104	B1-U0-G0	120-277
7286 7286		72869 72867	72873 72871	LS2-L-40-740-C5-UNV-XX LS2-L-40-750-C5-UNV-XX	40 40	70+ 70+	4000K 5000K	Type V Type V	4300 4500	108 113	B2-U0-G1 B2-U0-G1	120-277 120-277
7286		72870	72874	LS2-L-55-740-C5-UNV-XX	55	70+	4000K	Type V	5400	98	B3-U0-G1	120-277
7286		72868	72872	LS2-L-55-750-C5-UNV-XX	55	70+	5000K	Type V	6100	111	B2-U0-G1	120-277
7307	8	73080	73082	LS2-L-72-750-C5-UNV-XX	72	70+	5000K	Type V	8400	117	B3-U0-G1	120-277
7340		73409	73411	LS2-L-25-740-C5-347-XX	25	70+	4000K	Type V	2350	94	B1-U0-G0	347
7340		73408	73410	LS2-L-25-750-C5-347-XX LS2-L-40-740-C5-347-XX	25	70+	5000K	Type V	2600	104	B1-U0-G0	347
7538 7538		75391 75389	75395 75393	LS2-L-40-740-C5-347-XX LS2-L-40-750-C5-347-XX	40 40	70+ 70+	4000K 5000K	Type V Type V	4300 4500	108 113	B2-U0-G1 B2-U0-G1	347 347
7538		75392	75396	LS2-L-55-740-C5-347-XX	55	70+	4000K	Type V	5400	98	B3-U0-G1	347
7538		75390	75394	LS2-L-55-750-C5-347-XX	55	70+	5000K	Type V	6100	111	B2-U0-G1	347
7341		73415	73417	LS2-L-72-740-C5-347-XX	72	70+	4000K	Type V	8400	117	B3-U0-G1	347
7341		73414	73416	LS2-L-72-750-C5-347-XX	72	70+	5000K	Type V	8400	117	B3-U0-G1	347
_		\longrightarrow		Occupancy Sensor	40	70 -	40001/	Tune V	1200	100	D0 110 04	100 077
$\frac{7278}{7278}$		72 7 91 72789	72795 72793	LS2-L-40-740-C5-UNV-DX-0SP-XX LS2-L-40-750-C5-UNV-DX-0SP-XX	40 40	70+ 70+	4000K 5000K	Type V Type V	4300 4500	108 113	B2-U0-G1 B2-U0-G1	120-277 120-277
$\frac{7278}{7278}$		72792	72796	LS2-L-55-740-C5-UNV-DX-OSP-XX	55	70+	4000K	Type V	5400	98	B3-U0-G1	120-277
7278		72790	72794	LS2-L-55-750-C5-UNV-DX-OSP-XX	55	70+	5000K	Type V	6100	111	B2-U0-G1	120-277
7285	3	72857	72861	LS2-L-40-740-C5-347-DX-0SP-XX	40	70+	4000K	Type V	4300	108	B2-U0-G1	347
7285		72855	72859	LS2-L-40-750-C5-347-DX-0SP-XX	40	70+	5000K	Type V	4500	113	B2-U0-G1	347
7285		72858	72862	LS2-L-55-740-C5-347-DX-OSP-XX	55	70+	4000K	Type V	5400	98	B3-U0-G1	347
7285	2	72856	72860	LS2-L-55-750-C5-347-DX-0SP-XX	55	70+	5000K	Type V	6100	111	B2-U0-G1	347

Ordering Information

White Silver Bronze Ordering Abbreviation (W) CRI CCT Distribution Lumens (LPW) BUG Canopy Optic - IP66 Housing with Wireless Control 72816 72820 72824 LS2-L-40-740-C5-UNV-DX-IWC-XX 40 70+ 4000K Type V 4300 108 B2-U0-G1 72814 72818 72822 LS2-L-40-750-C5-UNV-DX-IWC-XX 40 70+ 5000K Type V 4500 113 B2-U0-G1 72817 72821 72825 LS2-L-55-750-C5-UNV-DX-IWC-XX 55 70+ 4000K Type V 5400 98 B3-U0-G1 72815 72819 72823 LS2-L-55-750-C5-UNV-DX-IWC-XX 55 70+ 5000K Type V 6100 111 B2-U0-G1 72878 72882 72886 LS2-L-40-740-C5-347-DX-IWC-XX 40 70+ 5000K Type V 4300 108 B2-U0-G1 72876 72880 72884 LS2-L-40-750-C5-347-DX-IWC-XX 40 70+ 5000K Type V 450	V-14
72816 72820 72824 LS2-L-40-740-C5-UNV-DX-IWC-XX 40 70+ 4000K Type V 4300 108 B2-U0-G1 72814 72818 72822 LS2-L-40-750-C5-UNV-DX-IWC-XX 40 70+ 5000K Type V 4500 113 B2-U0-G1 72817 72821 72825 LS2-L-55-740-C5-UNV-DX-IWC-XX 55 70+ 4000K Type V 5400 98 B3-U0-G1 72815 72819 72823 LS2-L-55-750-C5-UNV-DX-IWC-XX 55 70+ 5000K Type V 6100 111 B2-U0-G1 72878 72882 72886 LS2-L-40-740-C5-347-DX-IWC-XX 40 70+ 4000K Type V 4300 108 B2-U0-G1 72876 72880 72884 LS2-L-40-750-C5-347-DX-IWC-XX 40 70+ 5000K Type V 4500 113 B2-U0-G1 72879 72883 72887 LS2-L-55-740-C5-347-DX-IWC-XX 55 70+ 4000K Type V 5400 98 B3-U0-G1	Voltage
72814 72818 72822 LS2-L-40-750-C5-UNV-DX-IWC-XX 40 70+ 5000K Type V 4500 113 B2-U0-G1 72817 72821 72825 LS2-L-55-740-C5-UNV-DX-IWC-XX 55 70+ 4000K Type V 5400 98 B3-U0-G1 72815 72819 72823 LS2-L-55-750-C5-UNV-DX-IWC-XX 55 70+ 5000K Type V 6100 111 B2-U0-G1 72878 72882 72886 LS2-L-40-740-C5-347-DX-IWC-XX 40 70+ 4000K Type V 4300 108 B2-U0-G1 72876 72880 72884 LS2-L-40-750-C5-347-DX-IWC-XX 40 70+ 5000K Type V 4500 113 B2-U0-G1 72879 72883 72887 LS2-L-55-740-C5-347-DX-IWC-XX 55 70+ 4000K Type V 5400 98 B3-U0-G1 72877 72881 72885 LS2-L-55-750-C5-347-DX-IWC-XX 55 70+ 5000K Type V 6100 111 B2-U0-G1 </th <th></th>	
72817 72821 72825 LS2-L-55-740-C5-UNV-DX-IWC-XX 55 70+ 4000K Type V 5400 98 B3-U0-G1 72815 72819 72823 LS2-L-55-750-C5-UNV-DX-IWC-XX 55 70+ 5000K Type V 6100 111 B2-U0-G1 72878 72882 72886 LS2-L-40-740-C5-347-DX-IWC-XX 40 70+ 4000K Type V 4300 108 B2-U0-G1 72876 72880 72884 LS2-L-40-750-C5-347-DX-IWC-XX 40 70+ 5000K Type V 4500 113 B2-U0-G1 72879 72883 72887 LS2-L-55-740-C5-347-DX-IWC-XX 55 70+ 4000K Type V 5400 98 B3-U0-G1 72877 72881 72885 LS2-L-55-750-C5-347-DX-IWC-XX 55 70+ 5000K Type V 6100 111 B2-U0-G1	120-277
72815 72819 72823 LS2-L-55-750-C5-UNV-DX-IWC-XX 55 70+ 5000K Type V 6100 111 B2-U0-G1 72878 72882 72886 LS2-L-40-740-C5-347-DX-IWC-XX 40 70+ 4000K Type V 4300 108 B2-U0-G1 72876 72880 72884 LS2-L-40-750-C5-347-DX-IWC-XX 40 70+ 5000K Type V 4500 113 B2-U0-G1 72879 72883 72887 LS2-L-55-740-C5-347-DX-IWC-XX 55 70+ 4000K Type V 5400 98 B3-U0-G1 72877 72881 72885 LS2-L-55-750-C5-347-DX-IWC-XX 55 70+ 5000K Type V 6100 111 B2-U0-G1	120-277
72878 72882 72886 LS2-L-40-740-C5-347-DX-IWC-XX 40 70+ 4000K Type V 4300 108 B2-U0-G1 72876 72880 72884 LS2-L-40-750-C5-347-DX-IWC-XX 40 70+ 5000K Type V 4500 113 B2-U0-G1 72879 72883 72887 LS2-L-55-740-C5-347-DX-IWC-XX 55 70+ 4000K Type V 5400 98 B3-U0-G1 72877 72881 72885 LS2-L-55-750-C5-347-DX-IWC-XX 55 70+ 5000K Type V 6100 111 B2-U0-G1	120-277
72876 72880 72884 LS2-L-40-750-C5-347-DX-IWC-XX 40 70+ 5000K Type V 4500 113 B2-U0-G1 72879 72883 72887 LS2-L-55-740-C5-347-DX-IWC-XX 55 70+ 4000K Type V 5400 98 B3-U0-G1 72877 72881 72885 LS2-L-55-750-C5-347-DX-IWC-XX 55 70+ 5000K Type V 6100 111 B2-U0-G1	120-277
72879 72883 72887 LS2-L-55-740-C5-347-DX-IWC-XX 55 70+ 4000K Type V 5400 98 B3-U0-G1 72877 72881 72885 LS2-L-55-750-C5-347-DX-IWC-XX 55 70+ 5000K Type V 6100 111 B2-U0-G1	347
72877 72881 72885 LS2-L-55-750-C5-347-DX-IWC-XX 55 70+ 5000K Type V 6100 111 B2-U0-G1	347
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0 0 11 111 B 1 1 1 1 1 1 1 1 1 1 1 1 1 1	347
Canopy Optic with Drop Lens - IP66 Housing	
73588 73590 73592 LS2-L-25-740-D5-UNV-XX 25 70+ 4000K Type V - Drop Lens 1950 86 B1-U2-G1	120-277
73587 73589 73591 LS2-L-25-750-D5-UNV-XX 25 70+ 5000K Type V - Drop Lens 2400 102 B1-U2-G1	120-277
73627 73375 73629 LS2-L-40-740-D5-UNV-XX 40 70+ 4000K Type V - Drop Lens 3700 88 B2-U2-G1	120-277
73626 73373 73628 LS2-L-40-750-D5-UNV-XX 40 70+ 5000K Type V - Drop Lens 4200 98 B2-U2-G1	120-277
73635 73376 73637 LS2-L-55-740-D5-UNV-XX 55 70+ 4000K Type V - Drop Lens 4700 86 B2-U2-G1	120-277
73634 73374 73636 LS2-L-55-750-D5-UNV-XX 55 70+ 5000K Type V - Drop Lens 5300 94 B2-U2-G1	120-277
73615 73617 73619 LS2-L-72-740-D5-UNV-XX 72 70+ 4000K Type V - Drop Lens 6600 90 B2-U3-G2	120-277
73614 73616 73618 LS2-L-72-750-D5-UNV-XX 72 70+ 5000K Type V - Drop Lens 7000 94 B2-U3-G2	120-277
Canopy Optic with Drop Lens - IP66 Housing with Occupancy Sensor	
73594 73596 73598 LS2-L-25-740-D5-UNV-DX-OSP-XX 25 70+ 4000K Type V - Drop Lens 1950 78 B1-U2-G1	120-277
73593 73595 73597 LS2-L-25-750-D5-UNV-DX-OSP-XX 25 70+ 5000K Type V - Drop Lens 2400 96 B1-U2-G1	120-277
73631 73377 73633 LS2-L-40-740-D5-UNV-DX-OSP-XX 40 70+ 4000K Type V - Drop Lens 3700 93 B2-U2-G1	120-277
73630 73379 73632 LS2-L-40-750-D5-UNV-DX-OSP-XX 40 70+ 5000K Type V - Drop Lens 4200 105 B2-U2-G1	120-277
73639 73378 73641 LS2-L-55-740-D5-UNV-DX-OSP-XX 55 70+ 4000K Type V - Drop Lens 4700 85 B2-U2-G1	120-277
73638 73381 73640 LS2-L-55-750-D5-UNV-DX-OSP-XX 55 70+ 5000K Type V - Drop Lens 5300 96 B2-U2-G1	120-277
73621 73623 73625 LS2-L-72-740-D5-UNV-DX-OSP-XX 72 70+ 4000K Type V - Drop Lens 6600 92 B2-U3-G2	120-277
73620 73622 73624 LS2-L-72-750-D5-UNV-DX-OSP-XX 72 70+ 5000K Type V - Drop Lens 7000 97 B2-U3-G2	120-277

OSRAM

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Phone 1-800-LIGHTBULB (1-800-544-4828)

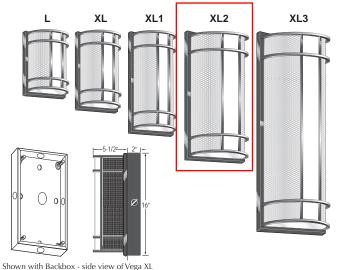
www.osram-americas.com

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Specifications subject to change without notice.



Vega GALILEO SIGNATURE SERIES

ROUND DIFFUSER with PERFEX, NO SHIELD Wall Mount Indoor/Outdoor Sconce; CFL, HID, LED



We reserve the right to revise the design or components of any product without notice.

CATALOG #	TYPE
PROJECT/LOCATION	
APPROVED BY	

SPECIFICATIONS



- BALLAST For Compact Fluorescent Electronic Cold Weather HPF is Standard. For HID HPF is Standard. For MH Pulse Start is Standard
- 16 Ga. aluminum (AL) BACKPLATE –
- BACKBOX 16 Ga. aluminum (AL) with wire access on four sides and back through 7/8" dia.
 KO flattened water tight (Optional for surface conduit entry or standard with emergency battery, H.I.D. and some fluorescent models)
- CAGE Modular design using 3/8" or 1/2" Square extruded aluminum bars (SQB) permanently secured by hidden means to the frame. Standard configurations shown. Custom spacing is available.
- DIFFUSER White translucent, fully enclosed non-yellowing 100% virgin acrylic, .125 Thick (1/8").
 Optional Clear (CTB) top and/or bottom CTB is Standard with Uplight or /and Downlight;
 Opaque (OQTB) top and/or bottom; or Open (ONTB) top and/or bottom Dry Location Only.
- FINISH Corrosion and Weather resistant pre-treated extremely durable oven baked polyester powder finish
- . GASKETING High temp, non-aging black epdm and/or neoprene rubber around the entire
- lens perimeter & rear wire entrance hole to protect against dust, moisture & outside contaminants

 FASTENERS Stainless steel tamperproof screws (2) to secure lens in place

 MOUNTING Use (4) 5/16" dia. holes for 1/4" diameter bolts for outdoor or indoor (no center
- access hole for J-box mount). Must derate lamping for horizontal.

 UL/ULC Listed to U.S. and Canadian safety standard. Suitable for wet locations.
- BUDGE Listed to Co.S. and Canadian anety standard search section of the PERFEX Perforated Aluminum Panel Insert with 1/16" diameter holes (23% open). Specify Finis
 WALL WASH CTB is Standard with Uplight or/and Downlight. For wall wash patterns specify: Uplight, Downlight or both: MHU (Uplight) or MHD (Downlight) or MHUD (Up and Downlight) LEDU (Uplight) or LEDU (Up and Downlight) or LEDU (Up and Downlight) Perforated Aluminum Panel Insert with 1/16" diameter holes (23% open). Specify Finish.

	LAMP TYPE/QTY/WATTAGE Visit www.eclipselightinginc.com for available IES files									
Fixture Size		M	L	XL	XL1	XL2	XL3			
Dimensions - W x H x D		8¼" x 11½" x 4"	8¼" x 13¼" x 4"	8¼" x 16" x 5½"	9¼" x 21" x 5½"	12¼" x 26¼" x 7¼"	14" x 41" x 8½"			
Compact Fluorescent Twin Tube	TT (2G11)	N/A	(2)18w	(2)18w; (1 or 2 ²)24/27w	(2)18/24w	(2)36/39/40/55w	(2-3)36w (2 or 3²)39/40/50/55w; (1)80w			
Compact Fluorescent Double Twin Tube	(G24Q)	(1 or 2)13w; (1)18w	(2)13w; (1 or 2 ²)26w	(2)13/18/26w	(2)13/26w (3)13w²⁹	(3 or 4 ²)26w	(3 or 4)26w			
Compact Fluorescent Triple Twin Tube	(GX24Q)	N/A	(1 or 2[©])26w; (1)32/ 42[©] w	(2)26/ 32[©] w; (1)42w	(2)32w; (2)42w	(3)26/32/42w; (1-2)57/70w	(4)26/ 32[®] w; (3)32/ 42[®] w; (2)57/70w			
Linear Fluorescent	T5/T5-HO	IN/A	N/A	N/A	N/A	(1 or 2)14/24w	(1 or 2)21/39w			
Linear Fluorescent	T8	N/A	N/A	N/A	N/A	(1, 2 or 3)17w	(1, 2 or 3)25w			
Pulse Start Metal Halide: ED17	МН	N/A	(1)50w ^❷	(1)50/70w ²	(1)50; (1)70/100w²	(1)50/70/100w; (2)50/ 70²⁰ w	(2)50/ 70²⁰w ; (1)100w			
PAR Metal Halide ⁴⁸ Uplight/Downlight	PARMHU PARMHD	N/A	N/A	N/A	N/A	PAR20-39w; PAR30-39w	par30–39w; par38–70w			
Light Emitting Diode	LED	10w	10w	15w	15/30w	40/60w	60w			
Light Emitting Diode Uplight/Downlight	LEDU LEDD	N/A	5w/5w	5w/5w	5w or 10w	5w or 10w or 25w	5w or 10w or 25w			

ORDERING GUIDE:







Color Temp

Voltage: Primary/Emergency

Finish

Options

- Consult Factory for lamp sources, including LED, color temp, wattages or voltages not shown.
- 2 Backbox (BB) Required (where text bold and note#2 shown)
- 3 Consult Factory for additional Emergency Battery options not shown 6 Consult Factory: May Require Lower Wattage or Backbox
- 3 2EB or 2EBU required

NOTES:

- Max mounting height of fixture is 10' (10 feet)
- Clear Top and Bottom (CTB) is Standard with Uplight and/or Downlight (PAR Metal Halide, LEDU/LEDD)
- Consult Factory for other Voltage
- 3 Battery Available as Integral or Remote - Specify REL for Remote option (ie. EL1 = Integral; REL1 = Remote)
- Motion Sensor available as: Single circuit-all on, all off (MSI = Integral, MSE = External) or Dual circuit, half on half off (MSI2 = Integral; MSE2 = External)
- 5 Due to form and fit, final selection of the Battery Pack under discretion

SERIES

VA = Vega Series

SIZE

L = Large 13-1/4"

XI = 16''

- XL1 = 21''
- XL2 = 26''
- XL3 = 41'

LAMP TYPE/LAMP QUANTITY/WATTAGE Refer to Chart Abov

COLOR TEMP (IND & LED ONLY)

- **3K** = 3000K range **4K** = 4000K range
- 5K = 5000K range

VOLTAGE

- 120 = 120 Volts EB 277 = 277 Volts EB 347 = 347 Volts EB
- 2EB = Two Electronic Ballasts
- EBMH = Electronic Ballast for Metal Halide
- **EBU** = High Temp Universal Volt (120-277V) Programmable Start Electronic Ballast for CFL (L-XL3 Only)

STANDARD PAINTED FINISH

- **BK** = Black Finish **BZ** = Bronze Finish Standard
- PNA = Painted Natural Aluminum SGR = Silver Gray
- WH = White Finish

CUSTOM ORDER PAINTED FINISH

- CC = Custom Color (Provide Specs) CH = Corvel Chrome
- HBA = Hand Brushed Aluminum w/ Clear Coat

EMERGENCY BATTERY OPTIONS 205

No onsite Emergency Power (AC or DC) is provided Specify Fixture Voltage: 120V or 277V Power Feed

A = 120V: B = 277V

Fluorescent Emergency Battery

- ELT® = Integral: T8; 1 Lamp 600 Lms
 ELT® = Integral: (1-2) T8/DTT/TT; 1400 Lms)
 (Not available in M & L—Remote Only)
- EL31 = Integral: (1) T8/T8HO/T5/T5HO; 700 Lms
- EL32 = Integral: (1) T8/T8HO/T5/T5HO; 1325 Lms EL52 = Integral: Cold Weather (Bodine)
- DTT/TTT; 1-2 Lamp; up to 1250 Lms **EL49** = Integral: Cold Weather (1-2) T8; 1200 Lms **REL2** = Remote: (1-2) DTT/TTT; (1-2) T8; 650 Lm
- REL35 = Remote: Cold Weather, (1) TT/DTT/TTT; 1250 Lms

- LED Emergency Battery

 EL61 = Integral: LED 12W, ±720 Lms (by lota)

 EL63 = Integral: LED 23W, ±1290 Lms (Bodine) EL67 = Integral, Cold Weather: LED 23W,
- approx. 1290 Lms (lota) EL82 = Integral: LED 4W (Fulham)
- -Factory Recommended
- Integral: LED 20W (Fulham) —Factory Recommended
- = Integral: LED 16W (Fulham) -Factory Recommended

LED EMERGENCY CIRCUIT®

Onsite Generator Power (AC) or Battery Power (DC) is provided via separate circuit to the fixture

EC1A = (1) 5W LED for Line Voltage (120VAC) EC2A = (1) 5W LED for Line Voltage (277VAC)

EC3A = (2) 5W LED for Line Voltage (120VAC)

EC4A = (2) 5W LED for Line Voltage (277VAC)

EC1D = (1) 5W LED for Low Voltage (12VDC) EC2D = (1) 5W LED for Low Voltage (24VDC)

EC3D = (2) 5W LED for Low Voltage (12VDC) EC4D = (2) 5W LED for Low Voltage (24VDC)

OPTIONS

9002 = Tamperproof Screwdriver 9206 = Photocell 120V 2

9221 = Photocell 277V 2 ATBS = Aluminum Top & Bottom Shield (No Light)

BB = Backbox (2" depth), Included where lamping shown with **note#2**

BL = Dual Circuit for Bi-Level Light (High/Low)
CM = Ceiling Mount
CR = Custom Requirements

CTB = Clear Top & Bottom (Std with Up/Downlight)
D1 = Linear Fluorescent Dimming Ballast D3 = Compact Fluorescent Dimming Ballast D7 = 0-10V low-voltage dimming (100-30%)

Standard, Consult Factory for Other)

FUS = Single Fusing DFUS = Double Fusing

GTD = Generator Transfer Device (Bodine)

GV = Gravura Custom Engraving (Consult Factory) **HM** = Horizontal Mount **⑤**

MSE; MSE2 = Motion Sensor External 29 for LED Specify Finish: White (WH) or Bronze (BZ)

MSI; MSI2 = Motion Sensor Integral (MSI) for LED

OQTB = Opaque Top & Bottom (reduces light transmission)

ONTB = Open Top & Bottom (indoor only)



LED XGBM LED Area Lighting

Energy-efficiency and high performance in a conventionally styled LED Area Light









- Exceptional high-brightness LEDs result in both higher light levels and significant energy savings; with cool white and neutral white LED color temperatures

XGBM LW replaces up to 400 watt, XGBM SS replaces up to 750 watt, XGBM HO replaces up to 1000 watt

- Super High Efficiency Up to 120 lumens per watt (LPW)
- IP67 Rated Field-rotatable Optical Assembly Sealed optical unit can be
 easily field rotated enabling generous flexibility in distribution patterns without
 removing the fixture.
- Top Access Housing Tethered top-access cover provides easy installation
- Minimum 60,000 100,000 hours expected life
- Sophisticated controls such as dimming, bi-level switching and LSI wireless controls and information systems translate to tremendous energy savings
- Optional Color Decals Color coordinate the fixture to the site design scheme by adding color decals.
- Maintenance-free
- 5 year warranty





Designed to Perform - Built to Last

Designed and built around LSI's own Crossover LED lighting technology and SmartTec intelligence platforms, our LED solutions are second to none. This ensures optimum fixture performance, energy efficiency, delivered lumens per watt, longevity and an impressive ROI.

REVOLUTIONARY THERMAL MANAGEMENT SYSTEM

LSI's unique patented heat-sink design is integrated into the external surfaces of the luminaire, in place of fins found frequently in traditional fixtures, to effectively dissipate heat and ensure a cool-running fixture. Suitable for high ambient temperatures (50°C).

INNOVATIVE DRIVER DESIGN

Unique high-power driver, 90+% efficient, ensures the highest attainable levels of energy efficiency and surge protection. Available Low Watt, Super Saver and High Output.

EXCEPTIONAL OPTICAL DESIGN

Tremendous lighting performance specifically designed for area lighting and automotive dealership applications. Available with Type 3, 5, FT and FTA distributions with field rotatable optics.





Available for New Construction & Retrofit Projects



Choose from LSI's Wide Offering of Poles for a Complete Fixture Assembly Steel or aluminum poles are available with round, round tapered or square shafts.

Each pole is finished with a baked-on polyester-powder finishing giving the pole an exceptionally attractive appearance. The process electrostatically applies and thermally fuses a polyester powder to the pole. This unique protection process provides an extremely smooth and uniform finish to withstand extreme weather changes without cracking or peeling.

Steel poles are finished with LSI's patented DuraGrip® finish process and carry a five-year limited warranty. When LSI's DuraGrip Plus finish is used a seven-year warranty applies.

Ordering your LED fixtures and poles from LSI guarantees a continuous color match for the assemblies.



LED AREA LIGHTS - (XGBM)



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.

LIG	LIGHT OUTPUT - XGBM							
	Lumens (Nominal) Type 3 Type 5 Type FT Type FTA							
hite	LW	14080	13840	15020	16560	(Nominal) 140		
Cool White	SS	20180	18040	20700	23030	187		
ပိ	НО	26750	25460	29070	31810	300		
hite	LW	11450	11290	12220	13470	136		
a W	SS	16390	15170	17230	18750	188		
Neutral White	НО	22240	20550	23510	25410	288		

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 3G requirements.



US patent D574994 & 7,828,456 and MX patent 29631 and US & Int'l. patents pending

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

OCCUPANCY SENSING (IMS) – Optional integral passive infrared motion sensor activates switching of luminaire light levels. High level light is activated and increased to full bright in 1-2 seconds upon detection of motion. Low light level (30% maximum drive current) is activated when target zone is absent of motion activity for ~2 minutes and ramps down (10-15 seconds) to low level to allow eyes time to adjust. Sensor is located on the front of optical assembly and rotates with the optic. Sensor optic has a detection cone of approximately 45°. Examples of detection – occurs 30' out from a 30' mounting height pole; occurs 20' out from a 20' mounting height pole.

ENERGY SAVING CONTROL OPTIONS — DIM — 0-10 volt dimming enabled with controls by others. BLS — Bi-level switching responds to external line voltage signal from separate 120-277V controller or sensor (by others), with low light level decreased to 30% maximum drive current.

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) or Neutral White (4000K) color temperature, 70 CRI.

DISTRIBUTION/PERFORMANCE - Types 3, 5, FT and FTA available - field rotatable reflectors.

HOUSING - Square, die-formed aluminum. Fully enclosed weather-tight housing contains factory prewired drivers and field connections.

TOP-ACCESS COVER - Gasketed, tethered top-access cover provides ease of installation and allows for easy driver access. Four captive stainless-steel fasteners secure the top-access cover to the housing.

OPTICAL UNIT - Clear tempered optical grade flat glass lens sealed to aluminum housing creates an IP67 rated, sealed optical unit (includes pressure stabilizing breather). Optical unit can be easily field rotated in 900 increments. Directional arrow on optics allows alignment without the unit being energized.

MOUNTING - 2-1/2" x 5-3/8" x 12" extruded aluminum arm mounting bracket shipped standard. Use with 5" traditional drilling pattern. Round Pole Plate (RPP2) required for mounting to 3"–5" round poles. (See Accessory Ordering Information chart.)

ELECTRICAL - Two-stage surge protection (including separate surge protection built into electronic driver) meets IEEE C62.41.2-2002, Location Category C. Available with universal voltage power supply 120-277VAC (UE - 50/60Hz input), and 347-480VAC.

DRIVERS - Available in Low Watt (LW), Super Saver (SS) and High Output (HO) drive currents (Drive currents are factory programmed). Components are fully encased in potting material for moisture resistance. Driver complies with FCC 47 CFR part 15 RFI/EMI standard.

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.

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

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) - Fixture - 44.5 lbs (20 kg) Arm - 5 lbs. (2kg) arm

LISTING - UL listed to U.S. and Canadian 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.



Project Name	Fixture Type
Catalog #	

LSI INDUSTRIES INC.

LED AREA LIGHTS - (XGBM)



LUMINAIRE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: XGBM 5 LED HO CW UE WHT PCM

Prefix	Distribution	Light Source	Drive Current	Color Temperature	Input Voltage	Finish	Optional Controls	Optional Sensor/Options
XGBM¹ - LED Greenbriar	FT - Forward Throw FTA - Forward Throw Automotive 3 - Type III 5 - Type V	LED	LW - Low Watt SS - Super Saver HO - High Output	CW - Cool White (5000K) NW - Neutral White (4000K)	UE - Universal Voltage (120-277) 347-480	BLK - Black BRZ - Bronze GPT - Graphite MSV - Metallic Silver PLP - Platinum Plus SVG - Satin Verde Green WHT - White Optional 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	Wireless Control System ^{2,3} (blank) - None PCM - Platinum Control System PCMH - Host/Satellite Platinum Control System GCM - Gold Control System GCMH - Host/Satellite Gold Control System DIM - 0-10 volt dimming (required for satellite fixtures) Stand-Alone Control (blank) - None DIM - 0-10 volt dimming ⁴ (from external signal) BLS - Bi-level Switching ⁵ (from external signal - required 120-277V controls system voltage)	Sensor IMS - Integral Motion Sensor ⁶ PCI120 - 120V Button-Type Photocell PCI208 - 208V Button-Type Photocell PCI240 - 240V Button-Type Photocell PCI277 - 277V Button-Type Photocell PCI347 - 347V Button-Type Photocell Options BBK - 8" Bracket (S and D180 only) TB - Terminal Block

LUMINAIRE EPA CHART ² - XGBM							
	8" Bracket	12" Bracket					
Single	2.3	2.4					
■ ■ D180°	4.7	4.8					
D90°		4.7					
■ T90°	12" Bracket	7.2					
▼ TN120°	Required	7.3					
■ Q90°		8.8					

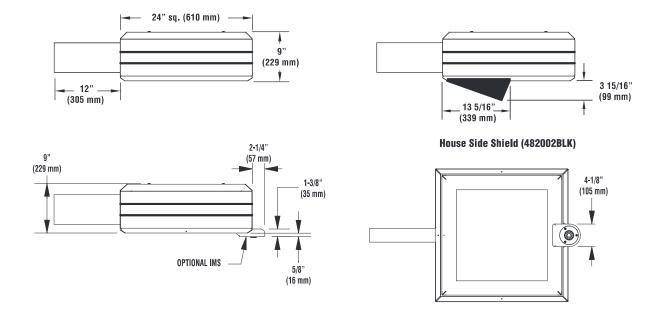
Note: House Side Shield adds to fixture EPA. Consult Factory.

1	ACCESSORY ORDERING INFORMAT	TION ²	(Accessorie	es are field installed)	
l	Description		Order Number	Description	Order Number
l	XGBM-HSS House Side Shield (Black only)		482002 BLK ⁷	DFK208, 240 Double Fusing (208V, 240V)	DFK208,240 ⁸
l	RPP2 - Round Pole Plate		162914BLK	DFK480 Double Fusing (480V)	DFK480 ⁸
l	BKS-BO-WM-*-CLR - Wall Mount Plate		123111CLR	FK347 Single Fusing (347V)	FK3478
l	BKA-BO-RA-8-CLR - Radius Arm		169010CLR	PMOS120 - 120V Pole-Mount Occupancy Sensor	518030CLR9
l	BKU-BO-S-19-CLR - Upsweep Bracket for rour	nd or square poles	144191CLR	PMOS208/240 - 208, 240V Pole-Mount Occupancy Sensor	534239CLR9
l	FK120 Single Fusing (120V)		FK120 ⁸	PMOS277 - 277V Pole-Mount Occupancy Sensor	518029CLR9
1	FK277 Single Fusing (277V)		FK2778	PMOS480 - 480V Pole-Mount Occupancy Sensor	534240CLR9

FOOTNOTES:

- 1- Use with 5" traditional drilling pattern.
- 2- For wireless controls information and accessories, see Controls section.
- 3- Requires a SiteManager and override switch. Not compatible with BLS or IMS option.
- 4- Not compatible with IMS or BLS option.
- 5- Not compatible with wireless controls system, DIM or IMS option.
- 6- Not compatible with wireless controls system, DIM or BLS option.
- 7- House Side Shields add to fixture EPA. Consult factory.
- 8- Fusing must be located in the hand hole of pole.
- 9- To be used with any of the PCM/GCM wireless controls systems in the fixture. Consult factory.

DIMENSIONS



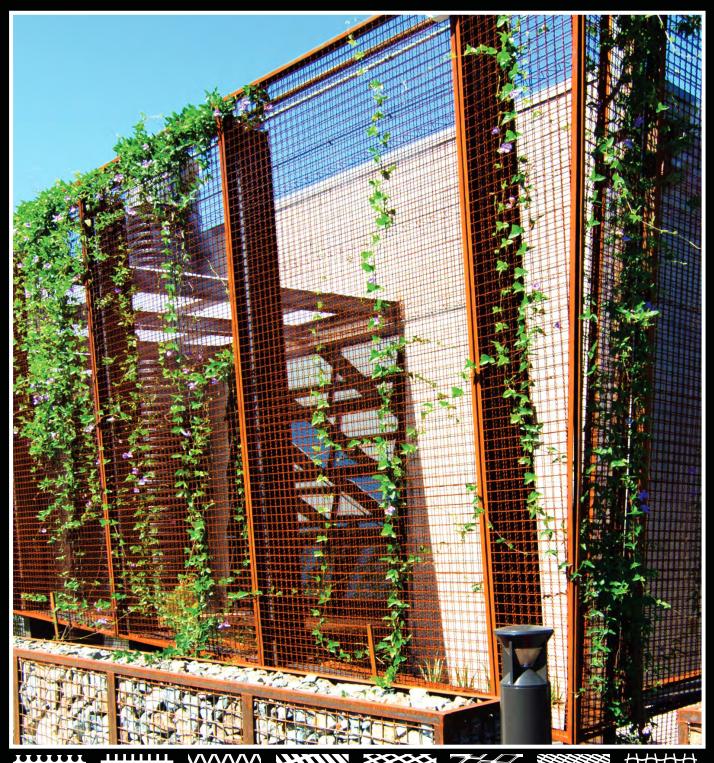


Project Name _____ Fixture Type ______

Catalog #_____

M c N I C H O L S EC O - M E S H ® M O D U L A R S Y S T E M S







The Hole Story

Bob McNichols, Founder (1922 - 1981)

McNICHOLS CO.

has grown from a small family business to an industry leader, while the spirit of Founder Bob McNichols lives on.

During his service in World War II, Bob made a solemn vow that if he came out of the war alive, he would

put God first and make Him his partner.

The bombardier of a Boeing B-17 Flying Fortress, Bob was the only member of the plane's nine-man crew to survive an attack by Nazi fighters on October 6, 1944. He spent months in a German prisoner-of-war camp before he and fellow POWs were liberated on May 1, 1945. Bob returned to America and united with his wife, Phyllis, and his six-month-old daughter, Barbara.

Bob began **McNICHOLS** with Phyllis on May 1, 1952.

He trademarked "The Hole Story" as a tribute to the perforated and expanded metal products he carried. The slogan's debut in the **McNICHOLS**® Master Catalog in 1975 initiated a legacy of "Hole" references, such as "Hole Products" and "The Hole Team."

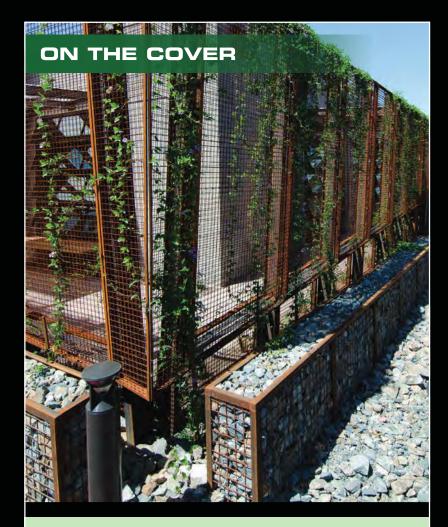
The company suffered the unexpected loss of Bob in 1981. By this time, **McNICHOLS** had built a national base of customers and relocated its headquarters to Tampa, FL, from Cleveland, OH.

Bob's son, Gene, took over leadership and opened a new chapter of "The Hole Story."

In 1990, Gene made "Service, Quality and Performance" McNICHOLS' official mission. The words embody the spirit of the organization. They represent the highest level of customer service, quality worthy of the International Organization for Standardization's 9001:2008 Certification, and performance that surpasses customer expectations.

McNichols will celebrate its 63rd anniversary this year. Led by Scott McNichols, President, members of the family's third generation are ready to advance the legacy of their father and grandfather.

Service, Quality and Performance... that's The Hole Story®!



CUSTOMER VISION:

DPR Construction intended to convert an old retail space into a modern, sustainable hub for their Phoenix location. DPR chose to find ways to work within the building's shell and conserve energy in the extreme desert climate.

HOLE SOLUTION:

McNICHOLS ECO-MESH_® is a signature element of DPR's energy-efficient Phoenix office. Surrounding the building on two sides, ECO-MESH_® panels ward off the sun and reduce solar heat gain inside. The panels facilitate upward-climbing plants, which provide an additional cooling layer. Durable ECO-MESH_®

will withstand elements over many years as the plants continue to grow. In front of the panels are **ECO-ROCK**_{TM}

boxes containing decorative rock.
The building has earned LEED
Platinum Certification, Energy
Star Certification and Net Zero
Energy Building Certification.



McNICHOLS ECO-MESH_® is a custom modular framework grid typically wall mounted to exterior structures creating aesthetic living green facades. Modular grids are commonly used for screen walls, canopies, arbors, partitions and column covers for exterior and interior applications.

These high quality eco-panels are constructed to accommodate a growing space for various plants and vines. The woven wire mesh flexes to allow for increasing vine load as plants grow, while providing years of beauty and low maintenance.









ECO-MESH® QUALITY ADVANTAGES

- Woven wire no welds to break
- Galvannealed frame and wire superior corrosion resistance over G90 coated metals
- .135" wire diameter standard much thicker than .080" found in competitive products
- LEED opportunities 95% recycled metal, no VOC concerns in field, SRI Index-rated coatings and more
- Fully custom panel sizes up to 8' wide and 30' long
- Top-quality super durable powder coating 3,000 hour salt spray rating, high UV resistance, available in 13 stock colors
- Install-ready product complete with drawings,
 Galvannealed mounting clips and powder coated hardware

McNICHOLS CASE STUDY

CHIHULY GARDEN AND GLASS, SEATTLE, WASHINGTON







CUSTOMER VISION:

Seattle planners and designers were asked to convert an amusement park under Seattle's Space Needle into the Chihuly Garden and Glass exhibition.

Their challenge was to showcase the works of renowned artist Dale Chihuly in an environment that would transform the building into an exhibition hall and the asphalt surface into a garden for displaying Chihuly's most popular work and architectural installations. Blending the building's exterior with the outdoor garden was a critical part of the task. Because the east exterior wall would face the garden and Glasshouse, which is the exhibition's centerpiece, it was clear

that the building needed a significant element of green.

HOLE SOLUTION:

With LEED certification in mind, the design and construction team from the Seattle area - comprised of Owens Richards Architects, Seattle; AHBL, Seattle; Schuchart Corp., Seattle; and Cobra Building Envelope Contractors, Spokane, WA - took a unique approach that, in addition to its aesthetic appeal, would reduce heat gain and lower the carbon dioxide impact.

In concert with planning the green roof, a living wall was added on the east and west sides of the hall using **McNICHOLS ECO-MESH**_®, with the largest installation on the east

(garden) side. Incorporating **ECO-MESH**_® with the green roof influenced the project's energy efficiency and helped the project achieve a LEED Silver rating through the U.S. Green Building Council.

The **ECO-MESH**_® system specified in the Chihuly Garden and Glass exhibition project consists of 95 panels that average 4' by 12' in size. The units are made of two layers of 12-gauge crimped woven wire mesh in a 10-gauge frame.

Today, **ECO-MESH**_® co-exists with the exhibition hall's green roof, achieving the type of living envelope envisioned by the design team.

McNICHOLS is honored to be part of this Hole Solution!

FREESTANDING SYSTEMS











McNICHOLS CASE STUDY

STREETSCAPE RENOVATION, TAMPA, FLORIDA







CUSTOMER VISION:

For many cities the beautification of downtown pedestrian areas is both an aesthetic decision as well an economical one. The City of Tampa, Florida, saw McNICHOLS
ECO-MESH® as an answer for both.

HOLE SOLUTION:

In an attempt to create a pedestrian-friendly street with a focus on incorporating public art, approximately \$1.2 million was invested in a downtown Tampa corridor spanning three city blocks.

Susan Gott, commissioned by the City of Tampa, working with Graham-Booth Landscape Architecture, designed and created glass art as part of the streetscape renovation. Her artwork consists of multiple panels of cast glass tiles incorporated into vertical panels with a series of **ECO-MESH**® panels. The large-scale cast glass panels (8-1/2 foot tall) line the street as part of the Promenade of the Arts, offering glimpses of the city's narrative embedded in glass.

McNICHOLS is pleased to be part of this innovative Hole Solution!

PRODUCT OPTIONS

Panel height: 2' to 25' (30' Custom)

Panel width: 2' to 8'

Wire: .135"

Weave: Woven Intercrimp .120 and .135 standard, other

weaves and diameters available **Bridge wire**: .105 standard

Mesh openings: 1" x 1" to 3" x 3" (2" & 3" is standard)

Frame depth: 2" or 3", 16 gauge standard

Material: Galvannealed, steel, aluminum or stainless steel **Finishes**: Mill, sandblasted, eco-friendly powder coatings in

13 standard colors below

Planter boxes (custom): Galvannealed 3/16" gauge standard

(Custom brackets available)

Texture Black Color In Stock and Ready to Ship!



Galvannealed .135 Wire

2" x 2" Mesh Texture Black

Color

4'x8' Panel

Item: 34EMTB2348

ECO-FRIENDLY POWDER COATING COLORS **Red Brick Red Orange** Moss Green **Reed Green Forest Green Texture** Texture Black Aged Copper Jet Black **Light Gray** Gray McNICHOLS offers eco-friendly powder coating for **ECO-MESH**® and ECO-ROCK™ in 13 standard colors. Due to the printing process, color swatches may vary from actual colors. Please inquire about our custom colors and our paint matching capabilities! Tan

ECOMO COLUMNS









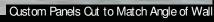




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ECONTES CUSTOM FABRICATION















McNICHOLS ECO-ROCK, creates decorative boundaries with an eco-friendly twist. The gabion-style wire work containers hold natural rock, recycled concrete, glass and other materials. In indoor and outdoor settings ECO-ROCK, containers add a sustainable design element.

Whether it's an outdoor partition or a vertical entryway, we can craft a custom gabion-style design to meet your needs.



PRODUCT OPTIONS

Panel size: 4"-12" thickness; 3' to 8' height maximum, 3' to 5' width **Wire diameter**: .148 (9 gauge),

.192 (6 gauge)

Bulge wire diameter: .105 (12 gauge)

to .148 (9 gauge) **Bulge wire spacing**: 12" **Wire centers**: 2" x 2", 3" x 3"

Weave: Intercrimp

Material: Plain steel, Galvannealed, 304 Stainless Steel - mill finish Finish: Mill, bare (sandblasted to be weathered), powder coated (see page

6 for available colors)

















APPLICATIONS

M c N I C H O L S E C O - M E S H ® provides structural support that is superior to other systems. ECO-MESH @ offers architects, designers, contractors and property owners many aesthetic, sustainable and functional green-build opportunities.









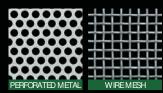




Headquarters based in Tampa, Fla., M c N I C H O L S C O . provides perforated metal, expanded metal, wire mesh and designer metals, as well as grating and flooring products. M c N IC H O L S serves builders, fabricators, architects and other customers through a network of service centers across 18 U.S. cities. Oustomers choose M c N I C H O L S for our vast supply of Hole Products, as well as our high quality standards, fast shipping and superior customer service.

Locations:

Atlanta - Baltimore - Boston - Charlotte - Chicago - Cincinnati - Cleveland - Dallas - Denver - Houston Kansas City - Los Angeles - Minneapolis - NY/ NJ Area - Phoenix - San Francisco - Seattle - Tampa















InnieltoSeveTM

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Please note that product photographs are not actual size. Application photos reflected are typical of Hole Products in use that can be supplied or have been supplied by M c N I C H O L S C O . Some illustrations may depict uses designed, manufactured, fabricated or installed by others. M c N I C H O L S is ISO 9001:2008 Certified.