

## LED SHOEBOX LIGHTS

### PRODUCT DESCRIPTION

Shoebox fixtures are traditional die-cast aluminum housings available in three sizes, Small, Medium and Large. These fixtures are retrofitted with high-output LED light engines designed, engineered and assembled in USA, available in a wide range of wattages and lumen output. Suitable for: Corporate Campuses, Parking Lots, Recreational Facilities and a variety of other outdoor lighting applications.



- •Energy efficient LED light engine offers high lumen output as well as high efficacy
- •IP65 Rated
- •Various optical type distributions available
- •Various mounting options available
- •5 Year Warranty

# PERFORMANCE RATINGS AND CERTIFICATIONS

Conforms to UL 1598, UL SUB 1598C, Certified to CSA C22.2 No. 250.0 and CSA C22.2#250.13

# ELECTRICAL RATINGS AND OPERATING CONDITIONS

Voltage: 120 - 277VAC, 50/60 Hz.; 480VAC

(optional)

**Dimming:** 0-10V dimming (N/A for 173W)

Power Factor: >0.9

Total Harmonic Distortion: < 20% Operating Environment: -40°C to 50°C

### **WARRANTY**

5 Year Standard Warranty Limited







SBM SHOEBOX MEDIUM



SBL SHOEBOX LARGE

### HOUSING SPECIFICATIONS

**Material / Finish:** Square box-style die-cast aluminum housing with hinged top frame and tempered glass lens, available in Bronze powder coat finish over chromate conversion coating.

Mounting options available: Slip-fitter, trunnion, arm mount, heavy-duty adjustable pole mount arm, wall mount bracket

**Dimensions (L x W x H):** 12.5" x 12.5" x 5.38" (SMALL); 16.63" x 16.63" x 7.00" (MEDIUM); 24.50" x 24.00" x 10.25" (LARGE)

Weight: 12.3 lbs. (SMALL), 17.6 lbs. (MEDIUM), 40.2 lbs. (LARGE)

### **PERFORMANCE SUMMARY**

Size Lumen Output (Wattage):

SMALL 4500 (35W), 8800 (69W), 13300 (104W)

MEDIUM 17800 (139W), 22144 (173W), 28200(221W) LARGE 34690 (271W), 44416 (347W), 53248 (416W)

Lumens per Watt: 128

**CRI-Minimum:** >70

**CCT:** 3000K ,4000K ,5000K

Wattage Range: 35W - 416W





Optical Distribution: 120° Beam Angle available in Type 5,Type

4 and Type 3 distribution patterns

Specifications are subject to change at any time without notice. All values are typical unless otherwise noted. Lumen values may vary by +/- 10%. Color temperatures may vary according to ANSIC78.377 . For more information and product support, contact GenPro Advanced Technologies at 800.465.1286 or email info@GenProTech.com

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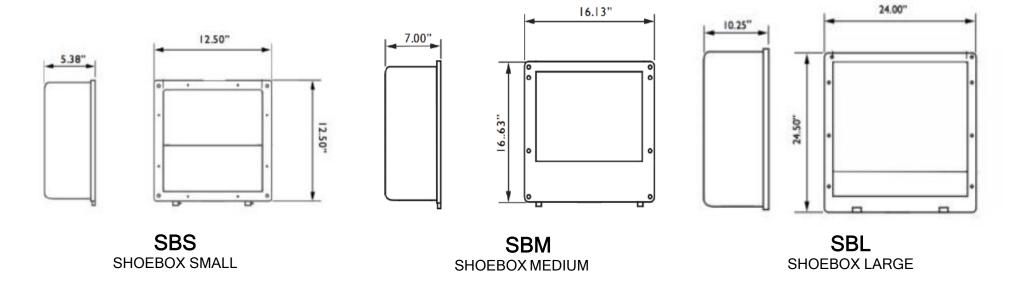
www.GenProTech.com

# **LED SHOEBOX LIGHTS**

## **ORDERING MATRIX**

Example: AM-SBS-H021-35W-50K-MT-EM-SF

Family	Product	Wattage	Color Temp	Voltage	Options	Mounting	Optical Distribution
	SBS	H021-35W H042-69W H063-104W	30K = 3000K 40K = 4000K 50K = 5000K CC-[specify CCT value in K] = Custom Color Temp (choose from 2700K-6500K)	MT = 120-277VAC HV= 277-480VAC	SRG1 = Surge Protection 120-277VAC SRG2 = Surge Protection 480VAC EM = Emergency Battery Backup PC = Photocell 120-277VAC 010V = 0-10V Dimming	SF = Slip Fitter TR = Trunnion Mount	T5 = Type 5 T4 = Type 4 T3 = Type 3
AM = Assembled in USA	SBM	H084-139W H105-173W R140-221W				AM6 = 6" Arm Mount  AM10 = 10" Arm Mount	
	SBL	H168-271W H210-347W H252 = 416W				PM: Heavy-Duty Adjustable Pole Mount Arm WB: Wall Mount Bracket	



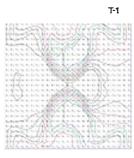
# **Distribution Types**

Distribution

Light Engine	Drive	ССТ	T1	T2	Т3	T4	т5
	В	5700	n/a	n/a	4,619	4,376	4,862
HEX-42	В	5700	9.530	7.585	9,238	8.752	9.724
HEX-63	В	5700	n/a	n/a	13,857	13,127	14.586

Distribution types may not be applicable to all fixture configurations

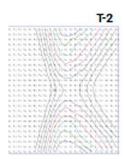
#### Type Distribution



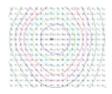




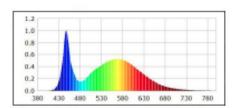
IES Type Distributions are generated in an open space Light Distribution images are mounted at 10 feet.

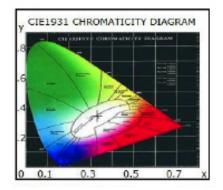


**T-5** 



# **Optics Specifications**





#### White LED Optics

High brightness, high efficiency LEDs. Standard color temperature is Cool White (5700K typical). Neutral White (4000K typical) and Warm White (3000K typical) also available. All with minimum 70 CRI. Tight bins (<+/-50 degK variability) also available - recommended for WW installations as the eye is sensitive to variations in this color range. 40deg and 80deg beam angle optional (n/a for RGBW).

### **RGBW Light Engine Optics**

RGBW light engine also available, compatible with DMX controller. RGBW colors, to allow changing from pure white light to any hue available. Multiple channels of LEDS produce a full spectrum of light anywhere from deepest red to farthest violet. CRI greater than 75 in the 2700K - 4000K range.

Single color light engines also available. Red=630 nanometers, Green=525 nanometers. Blue=475 nanometers.

#### Photometric Data for White LED Light Engine

Chromaticity coordinates: x=0.3305 y=0.3424 u(u')=0.2050 v=0.3186 v'=0.4779

CCT: Tc=5700K (duv=0.00156) Color Ratio: R=0.133 G=0.827 B=0.040

Peak Wavelength: 447.2nm Half Bandwidth: 19.1nm

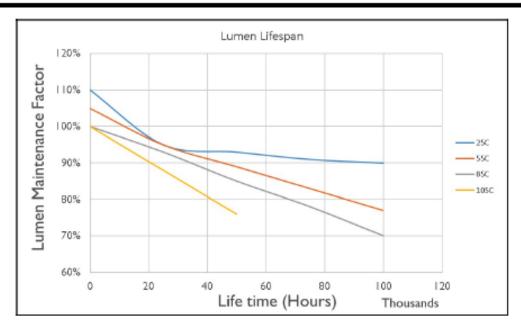
Dominant Wavelength: 535.2nm

Color Purity: 0.020
Color Render Index: Ra=75.0, avgR(1~14)=65.6, avgR(1~15)=65.9 R1=74, R2=76, R3=76, R4=81, R5=75, R6=66, R7=84, R8=67, R9=0, R10=41, R11=78, R12=40, R13=73, R14=86, R15=71

#### Photometric Data for RGBW LED Light Engine

Chromaticity coordinates: White x = 0.3405, y = 0.3459 Green x = 0.1687, y = 0.7296 Red x = 0.6968, y = 0.3024 Blue x = 0.1316, y = 0.0636

# **Lumen Performance**



Lumen Maintenance Factors (B Drive)						
TJ (Junction Temp)	INITIAL LMF	25K HR PROJECTED LMF	50K HR PROJECTED LMF	75K HR PROJECTED LMF	100K HR PROJECTED LMF	
25°C	1.10	0.95	0.93	0.91	0.90	
55°C	1.05	0.95	0.89	0.83	0.77	
85°C	1.00	0.93	0.85	0.78	0.70	
105°C	1.00	0.88	0.76	N/A	N/A	

Lumen Multiplier				
AMBIENT TEMPERATURE	LUMEN MULTIPLIER			
10°C	1.032			
15°C	1.021			
25°C	1.000			
40°C	0.968			
50°C	0.946			

Each temperature has an independent initial value. In accordance with IESNA TM021011, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip). In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip)