



GeoPak Series

Outdoor Geometric LED Wallpack

FEATURES

Application

The GeoPak™ Series is an LED outdoor architectural wallpack with superior lumen output that offers “Normally On” AC operation in addition to emergency lighting for the required 90 minute path of egress. The sconce is for mounting over entrance/exit ways and perimeter walkways and is available in three geometric shapes: Radius, Trapezoid and Quartersphere. The GeoPak wallpacks require 120 or 277 VAC input at 60Hz and includes a long-life Lithium Iron Phosphate battery with an optional battery heater for cold temperature application. The sconce includes 12 LEDs creating 3050 lumens in AC mode and drops to 4 LEDs in emergency mode with 658 lumens. Each of the 4 LEDs in emergency are designed to function separately in the unlikely event of LED malfunction. Spectron® self-testing/self-diagnostic electronics are included standard.

Construction

GeoPak Series housing is made from die-cast aluminum and available in four finishes; Dark Bronze, Platinum Silver, White and Black. The sconce has a hinged back-plate for ease of installation and maintenance. The LED bezel and trim-plate are made of stainless steel. Includes an integrated Push-to-Test and LED status indicator.

Installation

Universal spider plate for mounting to standard 3½” and 4” square electrical boxes. All AC connections are made from pig-tail connections at the rear of the unit. Optional back-box accessory available for surface conduit application. See BB-GEO below.

Illumination

The GeoPak Series provides illumination at mounting heights from 8'-12' AFF. Normally On operation utilizes 12 high powered LEDs at 4000K for a total of 3115 lumens. Emergency operation is reduced to 4 LEDs designed to function separately in the event of a power failure. The fixture is full cut-off and Dark Sky compliant.

Compliances

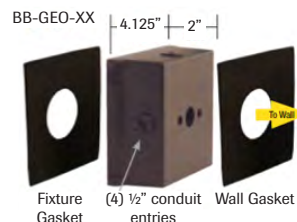
Wet Location Listed to UL924
NFPA 101, NFPA 70
IDA Compliant at 3000K only
CEC T20 Compliant

Catalog Number	
Comments	Type



ACCESSORIES

BB-GEO-BL	Back box with (4) ½” threaded conduit holes, Black
BB-GEO-DB	Back box with (4) ½” threaded conduit holes, Dark Bronze
BB-GEO-PS	Back box with (4) ½” threaded conduit holes, Silver
BB-GEO-WH	Back box with (4) ½” threaded conduit holes, White



Warranty

5 Year Full Warranty

ORDERING GUIDE

Series		CCT		Voltage		Finish		Options	
RD1	Radius	3K	3000K	U	120/277 VAC	DB	Dark Bronze	E	Emergency with Battery
TRP1	Trapezoid	4K	4000K ²			PS	Platinum Silver	EH	Emergency with Battery and Heater (-30°C to 40°C)
QSP1	Quarter-sphere					WH	White		
						BL	Black		

¹ Stocked models have a CCT of 4000K

² Does not qualify for IDA

³ Order AC only models through [Hubbell Outdoor](#)



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SPECIFICATIONS

Electronics

The GeoPak has two modes of operation:

Normal mode: In normal mode, power is supplied from 120V or 277VAC source and may be switched on/off allowing the unit to behave like a typical luminaire. In this mode, all 12 high-power LEDs are utilized. The AC LED driver module includes connections for dimming the driver.

Emergency mode: Upon failure of normal utility power, the number of LEDs driven is reduced to 4, and power is supplied from the integral battery for a minimum of 90 minutes.

Number of Lamps: 12 High Output LEDs

LED Lamp-life:

PROJECTED LUMEN MAINTENANCE

OPERATING HOURS

Ambient Temp.	0	25,000	50,000	TM-21-11 ¹ 60,000	100,000	L70 (hours)
25°C/77°F	1.00	0.98	0.95	0.94	0.90	>337,000
40°C/104°F	0.99	0.98	0.96	0.95	0.91	>346,000

Lamp Configuration: 12 individually driven LEDs provide illumination. In the event of any LED failure, the remaining LEDs will continue to function.

Total LED Lamp Watts (AC): 25

Lumens Per Watt: 111lpw at 4000CCT, 104lpw at 3000CCT

Lamp Color: Neutral White, 4000K Standard, 3000K Optional

Color Rendering Index (CRI): 70

Normal Mode Lumens: 3050 lumens at 4000CCT, 2850 lumens at 3000CCT

Emergency Mode: 658 lumens at 4000CCT, 591 lumens at 3000CCT

Input: 120/277VAC, 60 Hz.

Functional Circuitry: Transient surge protection device on AC input. Upon failure of the normal utility power, an LED driver is automatically activated to power the emergency LEDs. Upon resumption of normal utility power, the LED driver is turned off, and the battery is recharged through a micro-controller based 3-stage charger. The battery is a maintenance-free, environmentally friendly Lithium Iron Phosphate (LiFePO₄) type. A low voltage battery disconnect (LVD) feature protects the battery from severe damage during prolonged power failures. Manual testing is available at any time using the push-to-test button. The optional heater features a heating wrap and thermostat to maintain optimal battery temperature during charge or discharge. The GeoPak includes the following features:

- Battery re-charge within 24 hours
- AC Lock-out circuit
- Self-diagnostics monitors LED status, emergency LED driver circuit, battery capacity and charger function and displays any fault detection by means of a flashing code
- Self-Test feature automatically runs a 1 minute test once a month and an alternating 30 or 60 minute test once every 6 months. Multi-color LED indicator provides visible fault detection and charging status
- User initiated 1 or 90-minute system test feature
- Automatic unit transfer in brown-out conditions (below 80% of nominal AC input voltage)

INPUT POWER CONSUMPTION

	Input Voltage	Amps.	Max. Watts
GeoPak	120	0.23	27.5
	277	0.11	27.7
GeoPak with heater	120	0.42	50.2
	277	0.20	50.7

Operating Temperature:

Wet Location Listed: 0° to 40°C

Heater Option Models: -30° to 40°C

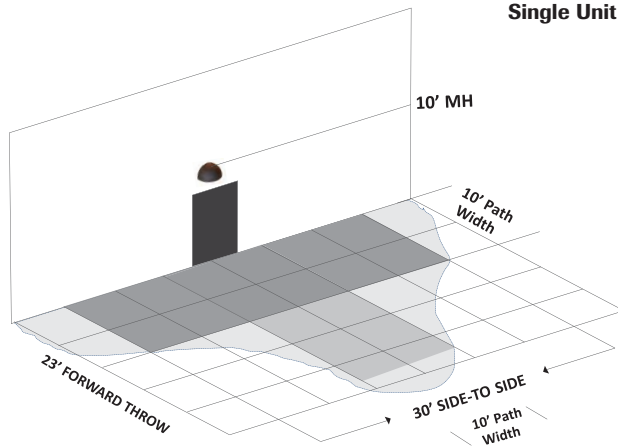


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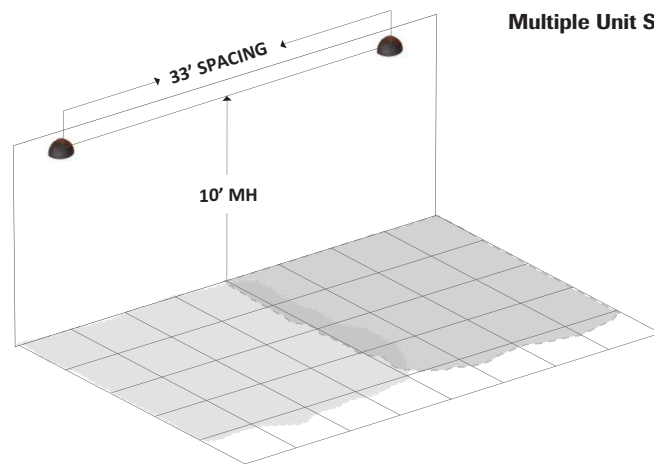
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APPLICATION INFORMATION

Emergency Photometric Performance



Single Unit Coverage - Emergency



Multiple Unit Spacing - Emergency

Emergency Mode	
Spacing, 6' Path	
MH	Spacing
8'	26'
10'	33'
12'	28'
Side to Side Single Unit Coverage, 10' Path	
MH	Coverage
8'	24'
10'	30'
12'	34'
Forward Throw Single Unit Coverage, 10' Path	
MH	Spacing
8'	20'
10'	23'
12'	27'

Meets Life Safety Code minimum illuminance of 0.1 fc and average illuminance of 1.0 fc. Assumes open space with no obstructions, wall mounting height shown in above table and reflectances of 0/30/10.

Photometrics available for download at www.dual-lite.com

DIMENSIONS

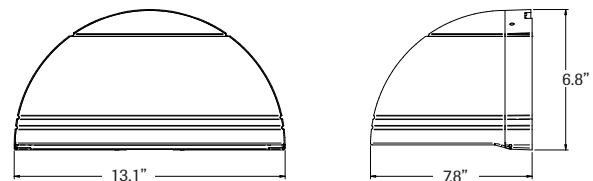
Weight:

TRP1- 11.5 lbs

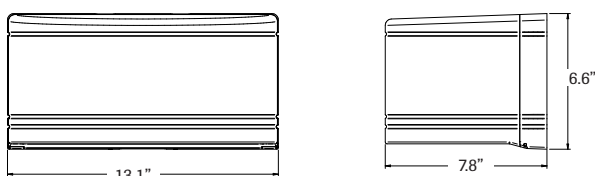
QSP1- 10.5 lbs

RDI1- 11.5 lbs

Quartersphere



Radius



Trapezoid

