

DATE: _____ LOCATION: _____
 TYPE: _____ PROJECT: _____
 CATALOG #: _____

GEOPAK Series 1

SIZE 1 - TRP1/QSP1/RDI1

FEATURES

- GeoPak Series consists of three compact Geometric wall-pack shapes in four popular finishes
- "Normally On" emergency luminaire for architectural applications
- 12 high-power LEDs create 3115 lumens in AC and 658 lumens in emergency mode
- Environmentally friendly, long-life Lithium Iron Phosphate battery
- Standard Temperature Range: 0°C to 40°C, Optional Heater: -30°C to 40°C
- Zero uplight distributions
- Wet Location Listed to UL924



*3000K and warmer CCTs only



RELATED PRODUCTS

- ⌘ [RDI2 GeoPak](#) ⌘ [TRP2 GeoPak](#) ⌘ [QSP2 GeoPak](#)

SPECIFICATIONS

CONSTRUCTION

- Housing is made from die-cast aluminum with a hinged back-plate for ease of installation and maintenance
- The LED bezel and trim-plate are made of stainless steel
- Five powder coat standard finishes, plus custom color options
- Wet Location Listed to UL924 and UL1598 Standard

OPTICS

- 12 high power LEDs delivering up to 3,000 lumens
- Up to 118 lumens per watt
- Type II, III and IV distributions for a wide variety of applications
- Zero uplight (UO), dark sky, neighbor friendly

INSTALLATION

- Universal plate for mounting to standard 3 1/2" and 4" square electrical boxes. All connections are made from connections at the rear of the unit
- Optional back-box accessory available for surface conduit application. See BB-Geo accessories

ELECTRICAL

- 120-277 operation, 50/60Hz
- 0-10V dimming driver standard
- 10kA surge protector
- Photocell and occupancy sensor options available for complete on/off and dimming control
- Intergral Battery Backup provides emergency lighting for the required 90 minute path of egress
- Includes a long-life Lithium Iron Phosphate battery with optional battery heater for cold temperature application
- Utilizes 4 LEDs in emergency mode with 657 lumens. Each of the 4 LEDs in emergency are designed to function independently in the unlikely event of a single LED malfunction
- Spectron® self-testing/self-diagnostic electronics are included standard
- Independent dedicated driver and LED array for battery/emergency mode operation

CERTIFICATIONS

- DesignLights Consortium® (DLC) qualified. Please refer to the DLC website for specific product qualifications at www.designlights.org
- Drivers IP66 and RoHS compliant
- UL 1598 listed for use in wet locations

WARRANTY

- 5 year limited warranty
- See [HLI Standard Warranty](#) for additional information

KEY DATA	
Lumen Range	1471-2942
Wattage Range	13.9-28.2
Efficacy Range (LPW)	95-118
Fixture Projected Life (Hours)	L70>345K
Weights lbs. (kg)	10.5-11.5 (4.8-5.2)

GEOPAK SERIES 1

SIZE 1 - TRP1/QSP1/RD11

ORDERING GUIDE

Example: TRP2-24L30-3K7-2-UNV-DB

CATALOG # _____

ORDERING INFORMATION

Series	# LEDs	Wattage	CCT/CRI	Distribution	Voltage
TRP1 Trapezoid	12L 12 LEDs	15 15 watts	3K7 3000K, 70 CRI	2 TYPE II	UNV 120-277V
RD11 Radius		20 20 watts	4K7 4000K, 70 CRI	3 TYPE III	1 120V
QSP1 Qtr-sphere		30 30 watts	5K7 5000K, 70 CRI	4 TYPE IV	2 208V
					3 240V
					4 277V

Color	Control Options Network	Options
BL Black textured	PC Button Photocontrol	F ⁴ Fusing (only available with STD fixture configuration, 120-277V only)
DB Dark bronze textured	SCP ^{2,3} Programmable occupancy sensor, factory default is 10% light output	E ¹ Battery pack (0°C)
GR Gray textured matte	Spec SCP/SCO & SWPM Mount Height	EH ¹ Battery pack (-30°C) with heater
PS Platinum silver smooth	-8F Up to 8ft mount height	
WH White textured	-20F Up to 20ft mount height	
CC Custom color		

- Notes:
- 1 Voltage specific (120 or 277V only)
 - 2 Must order minimum of one remote control to program dimming settings, 0-10V fully adjustable dimming with automatic daylight calibration and different time delay settings, 120-277V only
 - 3 PCU option not applicable, included in sensor
 - 4 Must specify input voltage (120, 208, 240 or 277)

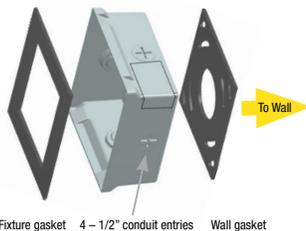
ACCESSORIES (ORDERED SEPARATELY)

Catalog Number	Description
<input type="checkbox"/> SCP-REMOTE*	Remote control for SCP option. Order at least one per
<input type="checkbox"/> BB-GEO-XX	Black box with 4-1/2" threaded conduit holes, specify finish by replacing "XX" with finish selection, eg. Dark Bronze "DB"

- Notes:
- * Must order minimum of one remote control to program dimming settings, 0-10V fully adjustable dimming with automatic daylight calibration and different time delay settings.



BB-GEO-XX – Mounted to luminaire



BB-GEO-XX

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PERFORMANCE DATA

Description	Drive Current	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
12	350mA	13.9	2	1635	118	1	1	1	1577	113	1	1	1	1497	108	1	1	1
			3	1613	116	1	0	1	1556	112	1	0	1	1477	106	1	0	1
			4	1607	116	0	0	1	1550	111	0	0	1	1471	106	0	0	1
	500mA	19.9	2	2268	114	1	1	1	2176	109	1	1	1	2077	104	1	1	1
			3	2245	113	1	0	1	2140	108	1	0	1	2049	103	1	0	1
			4	2229	112	0	0	1	2150	108	0	0	1	2041	103	0	0	1
	700mA	28.2	2	2942	104	1	1	1	2885	102	1	1	2	2721	96	1	1	1
			3	2912	103	1	0	1	2836	101	1	0	1	2685	95	1	0	1
			4	2892	103	1	0	1	2789	99	1	0	1	2674	95	1	0	1

ELECTRICAL DATA

INPUT POWER CONSUMPTION

Drive Current (mA)	Input Voltage (V)	System Power (W)	Current (Amps)
350mA	120	13.9	0.12
	277		0.05
500mA	120	19.9	0.17
	277		0.07
700mA	120	28.2	0.24
	277		0.10

Battery backup units consume additional power during charging (maximum 32.2 watts for E, 50.7 watts for EH)

INPUT POWER CONSUMPTION

Ambient Temperature	OPERATING HOURS					
	0	25,000	50,000	TM-21-11* L96 60,000	100,000	L70 (Hours)
25°C / 77°F	1.00	0.98	0.97	0.95	0.91	>345,000
40°C / 104°F	1.00	0.96	0.95	0.82	0.87	>268,000

LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

Ambient Temperature	Lumen Multiplier	
0° C	32° F	1.02
10° C	50° F	1.01
20° C	68° F	1.00
25° C	77° F	1.00
30° C	86° F	1.00
40° C	104° F	0.99
50° C	122° F	0.98

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

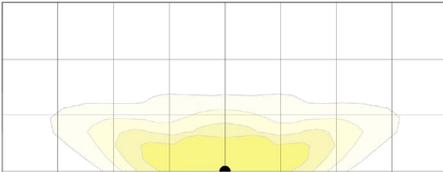
GEOPAK SERIES 1

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PHOTOMETRY

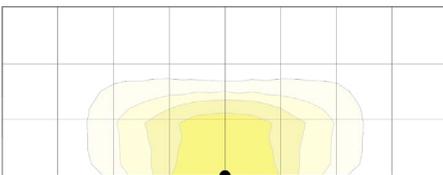
The following diagrams represent the general distribution options offered for this product. For detailed information on specific product configurations, see [website photometric test reports](#).

Type II



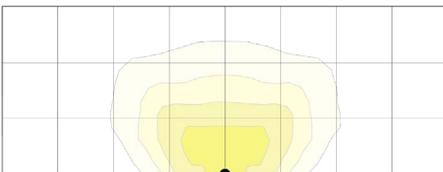
Mounting Height: 10'

Type III



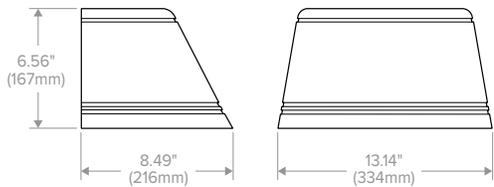
Mounting Height: 10'

Type IV (Forward throw)

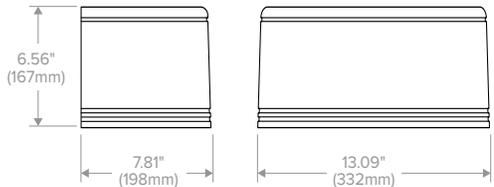


Mounting Height: 10'

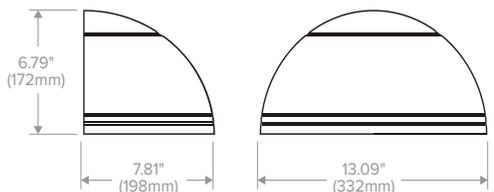
DIMENSIONS



Trapezoid
(TRP1)



Round
(RD1)



Quartersphere
(QSP1)

GEOPAK SERIES 1

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ADDITIONAL INFORMATION

GEOPAK - BATTERY BACK UP

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 Lithium Iron Phosphate (LiFePo) 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, LED driver circuit, battery capacity and charger function and displays any fault detection by means of a flashing code.

- Self-Test feature 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
- 15 minute re-transfer delay
- Automatic unit transfer in brown-out conditions (below 80% of nominal AC input voltage).
- Battery backup units consume 6 watts when charging a dead battery and 2 watts during maintenance charging. EH (units with a heater) consume up to an additional 8 watts when charging if the battery temp is lower than 10°C

EMERGENCY PHOTOMETRIC PERFORMANCE (1 FC AVERAGE .1 FC MINIMUM)

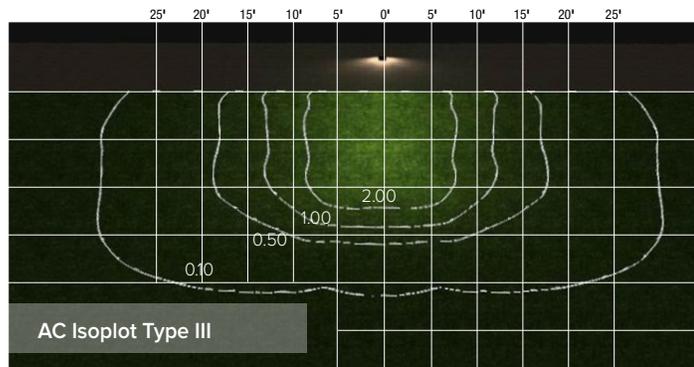
28' multi-unit spacing at 10' MH with 0/30/10 reflectances on a 6' path

26' x 10' single unit coverage at 10' MH with 0/30/10 reflectances

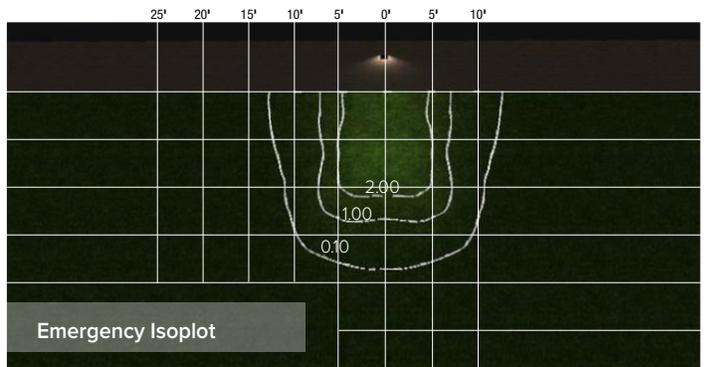
6' x 19' forward throw coverage at 10' MH with 0/30/10 reflectances



Normal Mode



Emergency Mode



Provides Life Safety Code average illuminance of 1.0 fc. Assumes open space with no obstructions. Diagrams for illustration purposes only, please consult factory for application layout.

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