

GEOPAK Series 2

SIZE 2 - TRP2/QSP2/RD12

FEATURES

- Mid sized architectural wallpacks in three stylish shapes
- Capable of replacing up to 400w HID luminaires
- Type 2, 3, 4F and 4W distributions for a wide variety of applications
- Integral battery backup options
- Control capabilities offer additional energy savings options
- Zero uplight distributions



SPECIFICATIONS

CONSTRUCTION

- Die-cast aluminum housing and door
- Seven powder coat standard finishes, plus custom color options
- Meets ASTM B117 with 1,000 hours of salt spray exposure

OPTICS

- LEDs deliver up to 15,000 lumens
- Up to 155 lumens per watt (LPW)
- Different lenses offer a variety of distribution patterns - Type 2, 3, 4F & 4W
- CCT: 3000K, 4000K, and 5000K
- CRI: 70 and 80

INSTALLATION

- Quick-mount adapter with gasket seal provides easy installation to wall or to recessed junction box (4" square junction box). Fixture attaches by two Allen-head hidden fasteners for tamper resistance
- Back box accessory available for surface conduit application

ELECTRICAL

- Optional Dual Drivers & Dual Power Feed
- 120-277, 347 and 480 voltage, 50/60Hz
- Power factor > 90%
- THD (Total Harmonic Distortion) <20%

ELECTRICAL (CONTINUED)

- Ambient operating temperature -40°C to 40°C
- Optional: 20kA surge protection device (series); Automatically takes fixture off-line when device is consumed
- Integral Battery Backup provides emergency lighting with 13W of power for the required 90 minutes for path of egress
- Independent dedicated driver and LED array for battery/emergency mode operation

CONTROLS

- Drivers are 0-10V dimming standard
- Universal button photocontrol for dusk to dawn energy savings
- Photocell and occupancy sensor options available for complete on/off and dimming control
- Dual Driver option provides 2 drivers within luminaire but only one set of leads exiting the luminaire, where Dual Power Feed provides two drivers which can be wired independently as two sets of leads are extended from the luminaire. Both options can not be included in one same fixture.

CERTIFICATIONS

- IP65 rated housing
- Zero uplight (U0), dark sky, neighbor friendly
- Drivers IP66 and RoHS compliant
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See Buy American Solutions.

WARRANTY

- 5 year limited warranty

KEY DATA	
Lumen Range	3,500-15,000
Wattage Range	24-126
Efficacy Range (LPW)	95-154
Weights lbs. (kg)	16-18 (7.3-8.2)



DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

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Example: TRP2-36L-25-3K7-2-UNV-DBT

ORDERING GUIDE

CATALOG #

ORDERING INFORMATION

Series	# LEDs - Wattage	CCT/CRI	Distribution	Voltage
TRP2 Trapezoid	36L-25 4,200 Lumens (Strike)	27K8 2700K, 70 CRI	2 TYPE 2	UNV 120-277V
RD12 Radius	36L-39 5,700 Lumens (Strike)	3K7 3000K, 70 CRI	3 TYPE 3	120 120V
QSP2 Quartersphere	36L-55 7,700 Lumens (Strike)	3K8 3000K, 80 CRI	4W TYPE 4W	208 208V
	36L-85 10,300 Lumens (Strike)	4K7 4000K, 70 CRI	4F TYPE 4 Forward	240 240V
	36L-105 12,300 Lumens (Strike)	4K8 4000K, 80 CRI		277 277V
	36L-120 13,100 Lumens (Strike)	5K7 5000K, 70 CRI		347 347V
	160L-25 3,600 Lumens (Micro Strike)	5K8 5000K, 80 CRI		480 480V
	160L-35 5,500 Lumens (Micro Strike)			
	160L-50 7,700 Lumens (Micro Strike)			
	160L-75 9,700 Lumens (Micro Strike)			
	160L-100 12,000 Lumens (Micro Strike)			
	160L-115 14,600 Lumens (Micro Strike)			

Color	Control Options	Options
BLT Black Matte Textured	PC Button Photocontrol	SF ¹ Single fuse & fuse holder
BLS Black Gloss Smooth	NXW NX Wireless Radio (No Sensor)	DF ¹ Double fuse & fuse holder
DBT Dark Bronze Matte Textured	NXWS NX Wireless Sensor w/BT	E ^{2,3,4} Battery pack (0°C)
DBS Dark Bronze Gloss Smooth	BTSO Bluetooth Sensor OMNI	EH ^{2,3,4} Battery pack (-20°C) with heater
GTT Graphite Matte Textured	CD Customer Dimming	2DR ⁵ Dual Drivers
LGS Light Grey Gloss Smooth	Mount Height	2PF ^{2,5} Dual power feeds
PSS Platinum Silver Smooth	-12F Up to 12ft mount height	SP Surge Protector
WHT White Matte Textured		
WHS White Gloss Smooth		
VGT Verde Green Textured		
Color Option		
CC Custom Color		

- Notes:
- 1 Must specify voltage
 - 2 Battery option not compatible with 2 power feeds
 - 3 E and EH options available for 160L-25, 160L-35, 160L-50, 36L-25, 36L-39, and 36L-55
 - 4 E and EH available for UNV, 120, 208, 240, 277V
 - 5 Option only available with 36L-85, 36L-105, 36L-120, 160L-75, 160L-100, and 160L-115.

ACCESSORIES (ORDERED SEPARATELY)

Catalog Number	Description
<input type="checkbox"/> WP-BB-DBT	Backbox with four 1/2" threaded conduit holes painted Dark Bronze Texture

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PERFORMANCE DATA (MICRO STRIKE)

Description	Nominal Wattage	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
160L	25	24.4	2	3734	153	1	0	1	3663	150	1	0	1	3557	146	1	0	1
			3	3744	154	1	0	1	3672	151	1	0	1	3565	146	1	0	1
			4F	3721	153	1	0	1	3651	150	1	0	1	3544	145	1	0	1
			4W	3704	152	1	0	1	3633	149	1	0	1	3528	145	1	0	1
	35	37.7	2	5602	149	1	0	2	5495	146	1	0	2	5335	142	1	0	2
			3	5616	149	1	0	2	5509	146	1	0	2	5348	142	1	0	2
			4F	5582	148	1	0	2	5476	145	1	0	2	5316	141	1	0	2
			4W	5556	147	2	0	2	5450	145	1	0	2	5291	140	1	0	2
	50	56.2	2	7880	140	1	0	2	7730	138	1	0	2	7504	134	1	0	2
			3	7899	141	1	0	2	7749	138	1	0	2	7523	134	1	0	2
			4F	7852	140	1	0	2	7703	137	1	0	2	7478	133	1	0	2
			4W	7815	139	1	0	2	7666	136	1	0	2	7443	132	1	0	2
	75	71.9	2	9971	139	2	0	2	9781	136	2	0	2	9496	132	1	0	2
			3	9996	139	2	0	2	9805	136	2	0	2	9520	132	1	0	2
			4F	9936	138	1	0	2	9747	136	2	0	2	9463	132	1	0	2
			4W	9890	138	1	0	2	9701	135	2	0	2	9419	131	1	0	2
	100	95.7	2	12361	129	2	0	2	12126	127	2	0	2	11772	123	2	0	2
			3	12392	129	2	0	2	12156	127	2	0	2	11802	123	2	0	2
			4F	12318	129	2	0	2	12083	126	2	0	2	11731	123	2	0	2
			4W	12260	128	2	0	2	12027	126	2	0	2	11676	122	2	0	2
	115	116.6	2	14990	129	2	0	2	14705	126	2	0	2	14277	122	2	0	2
			3	15088	129	3	0	2	14801	127	3	0	3	14370	123	3	0	3
			4F	14970	128	2	0	3	14685	126	2	0	3	14257	122	2	0	2
			4W	14981	128	2	0	3	14695	126	3	0	3	14267	122	2	0	3

MULTIPLIER (MICRO STRIKE)

Micro Strike Lumen Multiplier			
CCT	70CRI	80CRI	90CRI
2700K	-	0.869	-
3000K	0.945	0.832	0.626
3500K	-	0.900	-
4000K	1.027	0.951	0.718
5000K	1.000	0.937	0.791
Monochromatic Amber Multiplier			
Amber	0.719		



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PERFORMANCE DATA (STRIKE)

Description	Nominal Wattage	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
36L	25	32.1	2	4131	130	1	0	1	4208	132	1	0	1	3861	121	1	0	1
			3	4150	130	1	0	2	4227	132	1	0	2	3878	121	1	0	1
			4F	4163	130	1	0	1	4241	132	1	0	1	3891	122	1	0	1
			4W	4156	130	1	0	2	4233	132	1	0	2	3884	121	1	0	2
	39	45.1	2	5618	125	1	0	1	5723	127	1	0	1	5251	116	1	0	1
			3	5644	125	1	0	2	5749	127	1	0	2	5274	117	1	0	2
			4F	5662	126	1	0	2	5768	128	1	0	2	5291	117	1	0	2
			4W	5652	125	1	0	2	5757	128	1	0	2	5282	117	1	0	2
	55	63.1	2	7458	118	1	0	2	7659	121	1	0	2	6970	110	1	0	2
			3	7552	120	1	0	2	7694	122	1	0	2	7058	112	1	0	2
			4F	7577	120	1	0	2	7718	122	1	0	2	7081	112	1	0	2
			4W	7564	120	1	0	3	7705	122	1	0	3	7069	112	1	0	3
	85	88.0	2	10121	115	2	0	2	10311	117	2	0	2	9459	107	2	0	2
			3	10167	116	1	0	3	10357	118	1	0	3	9502	108	1	0	3
			4F	10200	116	1	0	2	10390	118	1	0	2	9532	108	1	0	2
			4W	10182	116	1	0	3	10372	118	1	0	3	9516	108	1	0	3
	105	111.7	2	12022	108	2	0	2	12247	110	2	0	2	11235	101	2	0	2
			3	12075	108	2	0	3	12301	110	2	0	3	11285	101	2	0	3
			4F	12115	108	1	0	3	12341	110	1	0	3	11322	101	1	0	2
			4W	12093	108	2	0	3	12319	110	2	0	3	11302	101	1	0	3
	120	126.2	2	12889	102	2	0	2	13130	104	2	0	2	12046	95	2	0	2
			3	12947	103	2	0	3	13189	105	2	0	3	12100	96	2	0	3
			4F	12989	103	1	0	3	13232	105	1	0	3	12139	96	1	0	3
			4W	12966	103	2	0	3	13208	105	2	0	3	12118	96	1	0	3

MULTIPLIER (STRIKE)

Strike Lumen Multiplier			
CCT	70CRI	80CRI	90CRI
2700K	0.900	0.810	0.62
3000K	0.933	0.853	0.659
3500K	0.959	0.894	0.711
4000K	1.000	0.900	0.732
5000K	1.000	0.900	0.732
Monochromatic Amber Multiplier			
Amber	0.255		



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PROJECTED LUMEN MAINTENANCE

Ambient Temperature	OPERATING HOURS					
	0	25,000	TM-21-t1 36,000	50,000	100,000	L70 (Hours)
25°C / 77°F	1.00	0.97	0.96	0.95	0.91	408,000
40°C / 104°F	0.99	0.96	0.95	0.94	0.89	356,000

For Microstrike LEDs

LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

Ambient Temperature	Lumen Multiplier	
0°C	32°F	1.03
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98
50°C	122°F	0.97

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

ELECTRICAL DATA

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
160L	25	120	0.20	24.4
		208	0.12	
		240	0.10	
		277	0.09	
		347	0.07	
		480	0.05	
	35	120	0.31	37.7
		208	0.18	
		240	0.16	
		277	0.14	
		347	0.11	
		480	0.08	
	50	120	0.47	56.2
		208	0.27	
		240	0.23	
		277	0.20	
		347	0.16	
		480	0.12	
	75	120	0.60	72.0
		208	0.35	
		240	0.30	
		277	0.26	
		347	0.21	
		480	0.15	
100	120	0.80	95.7	
	208	0.46		
	240	0.40		
	277	0.35		
	347	0.28		
	480	0.20		
115	120	0.97	116.6	
	208	0.56		
	240	0.49		
	277	0.42		
	347	0.34		
	480	0.24		

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
36L	25	120	0.27	32.1
		208	0.15	
		240	0.13	
		277	0.12	
		347	0.09	
		480	0.07	
	39	120	0.38	45.1
		208	0.22	
		240	0.19	
		277	0.16	
		347	0.13	
		480	0.09	
	55	120	0.53	63.1
		208	0.30	
		240	0.26	
		277	0.23	
		347	0.18	
		480	0.13	
	85	120	0.73	88.0
		208	0.42	
		240	0.37	
		277	0.32	
		347	0.25	
		480	0.18	
105	120	0.93	111.7	
	208	0.54		
	240	0.47		
	277	0.40		
	347	0.32		
	480	0.23		
120	120	1.05	126.2	
	208	0.61		
	240	0.53		
	277	0.46		
	347	0.36		
	480	0.26		

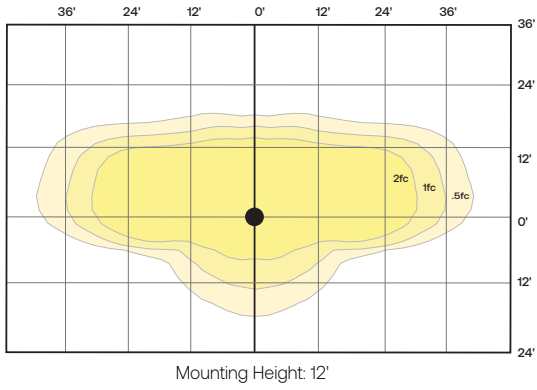
GEOPAK Series 2

SIZE 2 - TRP2/QSP2/RDI2

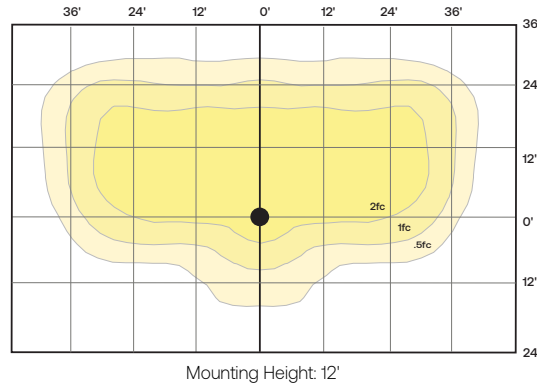
PHOTOMETRY

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

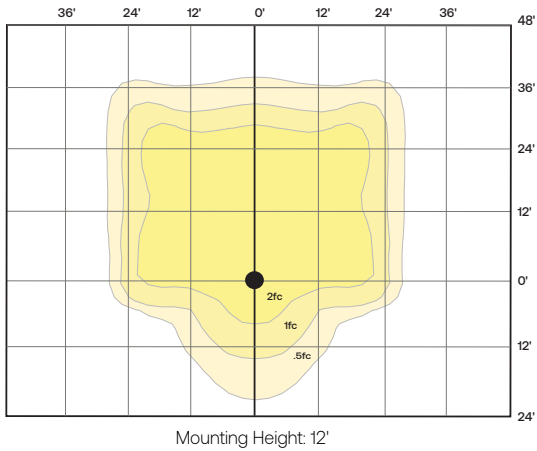
TRP2-50W-4K7-T2



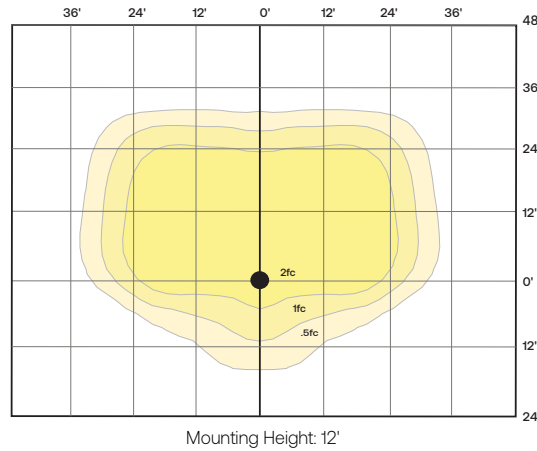
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TRP2-50W-4K7-T4F



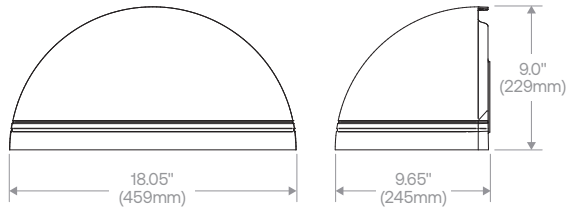
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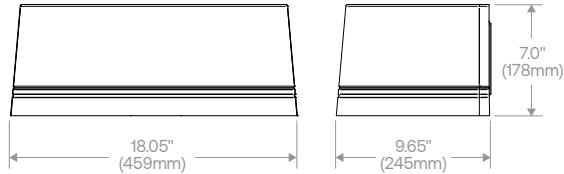
GEOPAK Series 2

SIZE 2 - TRP2/QSP2/RDI2

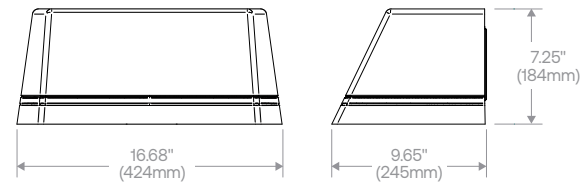
DIMENSIONS



QSP2
Weight:
15 lbs (6.8 kg)



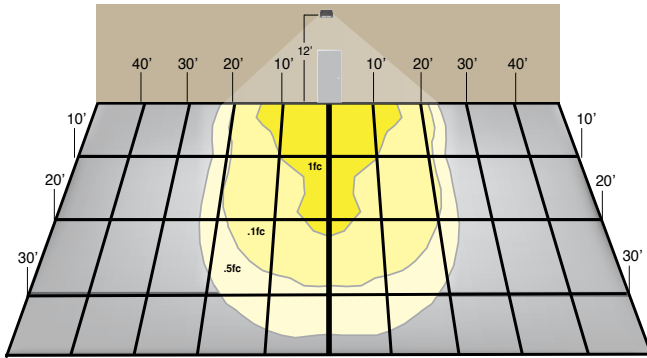
RDI2
Weight:
16 lbs (7.3 kg)



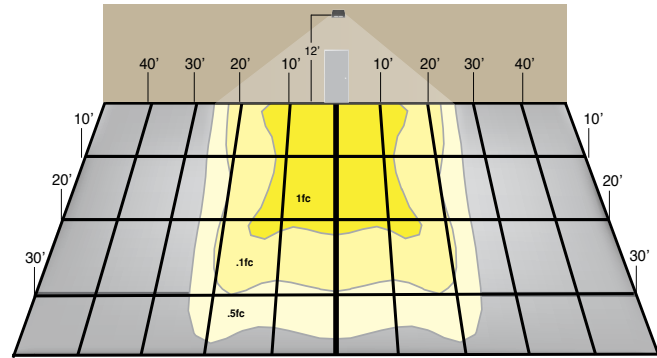
TRP2
Weight:
16 lbs (7.3 kg)

ADDITIONAL INFORMATION

PHOTOMETRICS - BATTERY BACK UP



36L - 12' Mounting Height



160L - 12' Mounting Height

Provides Life Safety Code average illuminance of 1.0 fc. Assumes open space with no obstructions and mounting height of 12'.

Diagrams for illustration purposes only, please consult factory for application layout.

CONTROL OPTIONS



Programmable occupancy sensor offers greater control and energy savings with adjustable delay and dimming levels (Factory default is 10%)