

GridLite GL3

LED SITE + AREA LUMINAIRE

PROJECT

TYPE

SPECIFICATION

QUICK FACTS

CONSTRUCTION

- Die-cast, low-copper aluminum alloy housing for optimal thermal performance and exceptional corrosion resistance
- 100% recycled aluminum

FINISH

- TGIC polyester super-durable powder coating with superior gloss, color retention and weather resistance
- Standard finishes provided at 3 mil nominal thickness, salt-spray-tested to 3,000 hours as per ASTM B117
- For marine-grade finish, consult factory. Provided at 5 mil nominal thickness, salt-spray-tested to 4,000 hours as per ASTM B117

ELECTRICAL

- 120-277 V Standard; 277-480 V option available
- PF>0.9, THD<20%
- Parallel surge protection: enhanced 10kV standard, extreme 20kV optional (ANSI C136.2-2015)
- For series surge protection, consult factory
- Rated for operation -40°C to 40°C
- For 50°C option, consult factory

OPTICS + PERFORMANCE

- Up to 165 lumens per watt
- 12,000- to 41,000-lumen packages (82-342 W)
- 5 customized distributions available
 - Type II Roadway Medium (Coefficient of Utilization: 0.793)
 - Type III Roadway Medium (Coefficient of Utilization: 0.852)
 - Type IV Wide Short (Coefficient of Utilization: 0.840)
 - Type V Square Short
 - Type V Square Medium
- Multiple shielding options available

CONTROLS

- 0-10 V dimming standard
- DALI-2 dimming option available
- Receptacle options:
 - ANSI C136.41 3-pin
 - ANSI C136.41 7-pin (for DALI-2 or 0-10 V dimming)
 - Zhaga Book 18 (for next generation ambient light/motion sensing)
- Motion sensor option available – bi-level setting standard with low point of 50% and a 15-minute delay

MOUNTING

- Extended site arm offers universal mounting, allowing for retrofit without drilling into existing poles
- All mounting options allow for multiple fixture installations at 90°
- Wall-mount and round pole adapters available for extended site arm

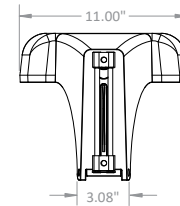
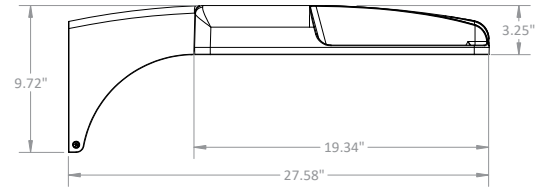
LISTINGS

- IDA Dark Sky Friendly ≤3000K, extended site arm or horizontal tenon
- IP66-rated optical and electrical chambers
- 3G Vibration-rated (ANSI C136.31)
- cULus Listed for wet locations (E487976)
- DLC + DLC Premium listings (Family code: JJJ0YL)
- Zhaga D4i listed
- ANSI C136.15 labeling available
- BAA Compliance available; †Consult factory to confirm specific fixture code is compliant if this is a requirement
- Designed and assembled in U.S.A.

WARRANTY

- 10-year warranty

DIMENSIONS



Extended Site Arm
EPA: 0.69 sq. ft.
WEIGHT: 22.28 lbs.



ORDERING INFORMATION

Example: GL3/20H/2RM/830/STD/10/1PS/30/SBZ/ES/HSS-PCL01

Fixture	Distribution	CRI + CCT	Voltage	Controls	Surge	Mounting	Options + Accessories	
GL3	2RM ¹ - Type II Roadway Medium 3RM ¹ - Type III Roadway Medium 4WS ¹⁶ - Type IV Wide Short 5QS ¹ - Type V Square Short TSQ ¹ - Type V Square Medium	750 - 70+ CRI, 5000K 740 ¹ - 70+ CRI, 4000K 730 ¹ - 70+ CRI, 3000K 727 - 70+ CRI, 2700K	STD ¹ - 120-277 V HVL ^{3,4} - 277-480 V	10 ^{1,3} - 0-10 V DA ⁴ - DALI-2	1PS ⁵ - 10kV/5kA, 120-277 V 2PS ⁵ - 20kV/10kA, 120-277 V 2PH ⁵ - 20kV/10kA, 277-480 V	ES ⁵ - Extended Site Arm HT - Horizontal Tenon KM - Knuckle Mount KMS - Knuckle Mount with 6' side entry pigtail ES-WM - Extended Site Arm with Wall-Mount ES-RP - Extended Site Arm with Round Pole	HSS ⁵⁶ - House Side Shield CSS ⁵ - Cul-de-sac Shield FSS ⁵ - Front Side Shield SS ⁵⁶ - Scoop Shield ALB - ANSI C136.15 Labeling MS - Motion Sensor (up to 20' height) MH - Motion Sensor (up to 40' height) ZT1 - 0-10 V Zhaga Ambient Light Control (ALC) ZT3 - 0-10 V Zhaga IR + ALC ZT4 - 0-10 V Zhaga Occupancy + IR + ALC SC - Shorting Cap PCL01 - 120-277 V Photocell, 6A0J, IP65; Blue PCL02 - 120-277 V Photocell, 1280J, IP66; Blue PCL03 - 347-480 V Photocell, 1280J, IP66; Yellow PCL04 - Midnight dimming, 347-480 V Photocell, 1020J, IP65; Brown	
Package	12L ¹ - 12,000 lm; 82 W 15L ¹ - 15,000 lm; 108 W 17L ¹ - 17,000 lm; 127 W 18H ¹ - 18,000 lm; 114 W 20H ¹ - 20,000 lm; 126 W 23H ¹ - 23,000 lm; 151 W 26H ¹ - 26,000 lm; 173 W 29H ¹ - 29,000 lm; 188 W 30H ¹ - 30,000 lm; 194 W 33H ¹ - 33,000 lm; 239 W 35H ¹ - 35,000 lm; 261 W 37H ¹ - 37,000 lm; 278 W 40H ¹ - 40,000 lm; 325 W	* 80+ and 90+ CRI, as well as additional color temperatures, are available upon request.				Photocell Receptacle 00 ¹ - none 30 - 3-pin 70 - 7-pin 0Z ³ - Zhaga 3Z ³ - 3-pin + Zhaga 7Z ³ - 7-pin + Zhaga	Finish SBZ ^{1,2} - Bronze (RAL8019) SWH ² - White (RAL9003) SGY ^{2*} - Grey (RAL7038) SBK ^{2*} - Black (RAL9017)	* Additional finish colors available upon request

* Consult factory for lead time and availability.

¹ Standard offering. Consult factory for lead time and availability for other options.

² Marine-grade finish options available. Consult factory.

³ High-voltage (HVL) plus 0-10 V (10) combination option unavailable with Zhaga photocell receptacles.

⁴ High-voltage (HVL) plus DALI-2 (DA) combination available only with 12L-17L and 18H-23H performance packages.

⁵ Flat-black, injection-molded plastic resin, tool-less, clip-on discrete shield.

⁵⁶ HSS not compatible with 4WS optics, instead use SS

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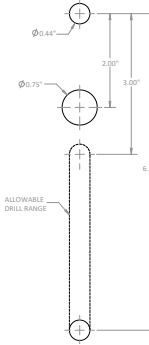
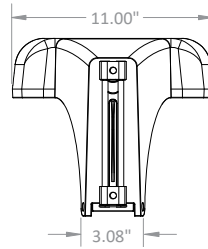
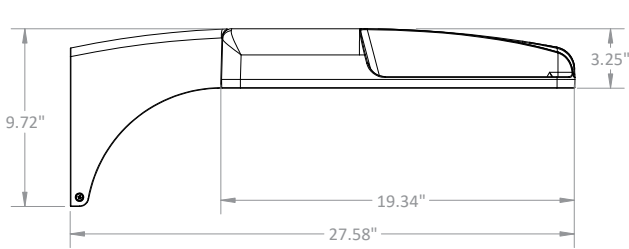
TYPE _____

SPECIFICATION _____

MOUNTING OPTIONS

EXTENDED SITE ARM (ES)

- Universal mount adapter
- Allows for retrofit without drilling into existing poles



EXTENDED SITE ARM WITH WALL MOUNT (ES-WM)

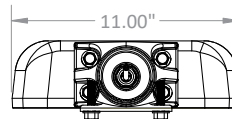
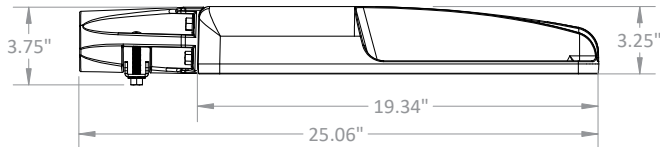


EXTENDED SITE ARM WITH ROUND POLE (ES-RP)



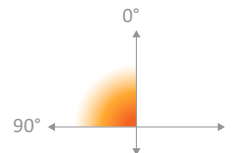
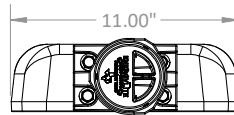
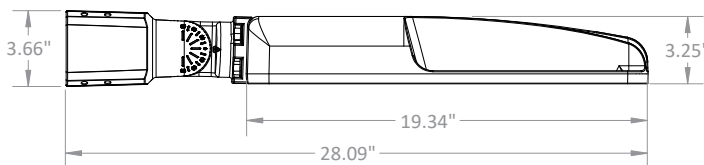
HORIZONTAL TENON (HT)

- Mounts to maximum 2 3/8\" O.D. tenon



KNUCKLE MOUNT (KM)

- Mounts to maximum 3\" O.D. tenon
- Adjustable at 7.5° increments
- Not recommended to angle luminaire past 0° (vertical); maintain downward angle



WEIGHT + EPA

Mounting Type	EPA	Weight		
		12L to 23H	26H to 30H	33H to 41H
Extended Site Arm	0.69 sq. ft.	22.28 lbs.	23.31 lbs.	25.28 lbs.
Extended Site Arm with Wall Mount Adapter	n/a	22.28 lbs.	23.31 lbs.	25.28 lbs.
Extended Site Arm with Round Pole Adapter	0.73 sq. ft.	22.84 lbs.	23.87 lbs.	25.84 lbs.
Horizontal Tenon	0.54 sq. ft.	20.42 lbs.	21.45 lbs.	23.42 lbs.
Knuckle Mount	0.61 sq. ft.	20.42 lbs.	21.45 lbs.	23.42 lbs.

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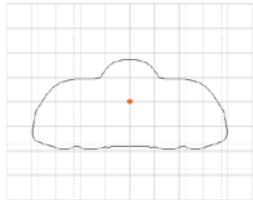
POLE CONFIGURATION EPAs

• Data below includes luminaire and integrated mounting option. Additional tenons, arms and brackets are not included.

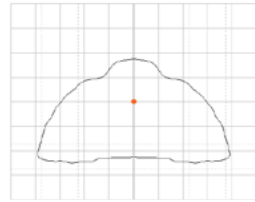
Mounting Type	Tilt	Single	2 at 90°	2 at 180°	2 at 120°	3 at 90°	3 at 120°	4 at 90°	2 Side-by-Side
Extended Site Arm	n/a	0.69 sq. ft.	1.10 sq. ft.	1.38 sq. ft.	1.46 sq. ft.	1.79 sq. ft.	1.87 sq. ft.	1.79 sq. ft.	0.82 sq. ft.
Extended Site Arm with Round Pole Adapter	n/a	0.73 sq. ft.	1.14 sq. ft.	1.46 sq. ft.	1.50 sq. ft.	1.87 sq. ft.	1.91 sq. ft.	1.87 sq. ft.	0.82 sq. ft.
Horizontal Tenon	n/a	0.54 sq. ft.	0.78 sq. ft.	1.08 sq. ft.	1.02 sq. ft.	1.32 sq. ft.	1.26 sq. ft.	1.32 sq. ft.	0.54 sq. ft.
Knuckle Mount	90° (horizontal)	0.61 sq. ft.	0.95 sq. ft.	1.22 sq. ft.	1.14 sq. ft.	1.56 sq. ft.	1.48 sq. ft.	1.56 sq. ft.	0.68 sq. ft.
	60°	0.61 sq. ft.	1.46 sq. ft.	1.22 sq. ft.	1.68 sq. ft.	2.07 sq. ft.	2.53 sq. ft.	2.07 sq. ft.	1.70 sq. ft.
	45°	0.61 sq. ft.	1.72 sq. ft.	1.22 sq. ft.	1.94 sq. ft.	2.33 sq. ft.	3.05 sq. ft.	2.33 sq. ft.	2.22 sq. ft.
	30°	0.61 sq. ft.	1.91 sq. ft.	1.22 sq. ft.	2.14 sq. ft.	2.52 sq. ft.	3.44 sq. ft.	2.52 sq. ft.	2.60 sq. ft.
	0° (vertical)	0.61 sq. ft.	2.11 sq. ft.	1.22 sq. ft.	2.66 sq. ft.	2.72 sq. ft.	4.16 sq. ft.	2.72 sq. ft.	3.00 sq. ft.

PHOTOMETRIC DISTRIBUTION

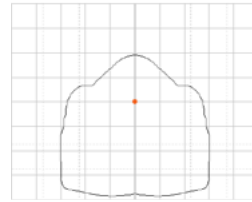
TYPE II ROADWAY MEDIUM



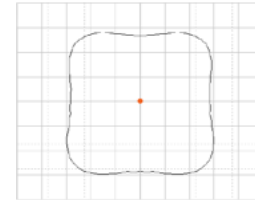
TYPE III ROADWAY MEDIUM



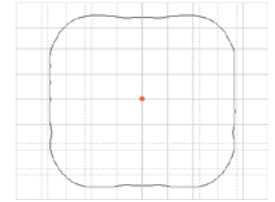
TYPE IV WIDE SHORT



TYPE V SQUARE SHORT



TYPE V SQUARE MEDIUM



SHIELD ACCESSORY DETAILS

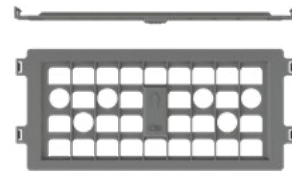
HOUSE SIDE SHIELD

- Flat-black, injection-molded plastic resin
- Tool-less, clip-on discrete shield



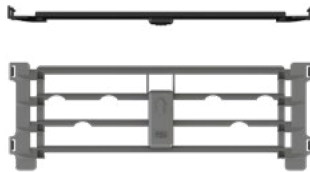
CUL-DE-SAC SHIELD

- Flat-black, injection-molded plastic resin
- Tool-less, clip-on discrete shield



FRONT SIDE SHIELD

- Flat-black, injection-molded plastic resin
- Tool-less, clip-on discrete shield



SCOOP SHIELD

- Flat-black, injection-molded plastic resin
- Tool-less, clip-on discrete shield



- House side, cul-de-sac, and front side shields



- Scoop shields



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PERFORMANCE DATA

Performance Package	Drive Current	Color Temperature (CCT)	Input Power (Watts)	TYPE II ROADWAY MED AT 70 CRI			TYPE III ROADWAY MED AT 70 CRI			TYPE IV WIDE SHORT AT 70 CRI			TYPE V SQUARE SHORT AT 70 CRI			TYPE V SQUARE MED AT 70 CRI		
				Lumens	Efficacy (lm/W)	BUG Rating	Lumens	Efficacy (lm/W)	BUG Rating	Lumens	Efficacy (lm/W)	BUG Rating	Lumens	Efficacy (lm/W)	BUG Rating	Lumens	Efficacy (lm/W)	BUG Rating
				12L	630mA	5000K 4000K 3000K	82.3	12,451 12,207 11,840	151 148 144	2 0 2 2 0 2 2 0 2	12,415 12,172 11,807	151 148 143	2 0 2 2 0 2 2 0 2	11,813 11,581 11,234	144 141 137	2 0 2 2 0 2 2 0 2	12,541 12,295 11,926	152 149 145
15L	826mA	5000K 4000K 3000K	108.2	15,621 15,315 14,856	144 142 137	2 0 2 2 0 2 2 0 2	15,577 15,271 14,813	144 141 137	2 0 2 2 0 2 2 0 2	14,821 14,530 14,094	137 134 130	2 0 3 2 0 3 2 0 3	15,735 15,426 14,963	145 143 138	4 0 2 4 0 2 4 0 2	14,492 14,208 13,781	134 131 127	4 0 3 4 0 3 4 0 3
17L	966mA	5000K 4000K 3000K	126.9	17,688 17,341 16,821	139 137 133	2 0 2 3 0 2 3 0 2	17,638 17,292 16,773	139 136 132	2 0 2 2 0 2 2 0 2	16,782 16,453 15,959	132 130 126	2 0 3 2 0 3 2 0 3	17,816 17,467 16,943	140 138 134	4 0 2 4 0 2 4 0 2	16,409 16,087 15,605	129 127 123	4 0 3 4 0 3 4 0 3
18H	448mA	5000K 4000K 3000K	114.3	18,410 18,049 17,508	161 158 153	3 0 2 3 0 2 3 0 2	18,358 17,998 17,458	161 157 153	2 0 2 2 0 2 2 0 2	17,467 17,124 16,610	153 150 145	2 0 3 2 0 3 2 0 3	18,544 18,180 17,635	162 159 154	4 0 2 4 0 2 4 0 2	17,079 16,744 16,242	149 146 142	4 0 3 4 0 3 4 0 3
20H	487mA	5000K 4000K 3000K	125.5	20,468 20,067 19,465	163 160 155	3 0 2 3 0 2 3 0 2	20,410 20,010 19,409	163 159 155	2 0 3 2 0 3 2 0 3	19,419 19,038 18,467	155 152 147	3 0 3 3 0 3 2 0 3	20,616 20,212 19,606	164 161 156	4 0 2 4 0 2 4 0 2	18,988 18,615 18,057	151 148 144	4 0 3 4 0 3 4 0 3
23H	588mA	5000K 4000K 3000K	151.4	23,878 23,409 22,707	158 155 150	3 0 3 3 0 3 3 0 3	23,810 23,343 22,643	157 154 150	3 0 3 3 0 3 2 0 3	22,654 22,210 21,543	150 147 142	3 0 4 3 0 4 3 0 4	24,051 23,579 22,872	159 156 151	4 0 3 4 0 3 4 0 3	22,151 21,717 21,065	146 143 139	5 0 4 5 0 4 5 0 4
26H	681mA	5000K 4000K 3000K	173.3	26,962 26,434 25,641	156 153 148	3 0 3 3 0 3 3 0 3	26,885 26,358 25,568	155 152 148	3 0 3 3 0 3 3 0 3	25,580 25,079 24,326	148 145 140	3 0 4 3 0 4 3 0 4	27,158 26,625 25,826	157 154 149	5 0 3 5 0 3 5 0 3	25,012 24,522 23,786	144 141 137	5 0 4 5 0 4 5 0 4
29H	737mA	5000K 4000K 3000K	188.0	28,850 28,284 27,436	153 150 146	3 0 3 3 0 3 3 0 3	28,768 28,204 27,358	153 150 146	3 0 3 3 0 3 3 0 3	27,371 26,834 26,029	146 143 138	3 0 4 3 0 4 3 0 4	29,059 28,489 27,634	155 152 147	5 0 3 5 0 3 5 0 3	26,763 26,239 25,452	142 140 135	5 0 4 5 0 4 5 0 4
30H	759mA	5000K 4000K 3000K	193.5	29,458 28,881 28,014	152 149 145	3 0 3 3 0 3 3 0 3	29,375 28,799 27,935	152 149 144	3 0 4 3 0 3 3 0 3	27,949 27,401 26,578	144 142 137	3 0 4 3 0 4 3 0 4	29,672 29,090 28,217	153 150 146	5 0 3 5 0 3 5 0 3	27,328 26,792 25,988	141 138 134	5 0 4 5 0 4 5 0 4
33H	922mA	5000K 4000K 3000K	238.9	33,257 32,605 31,627	139 136 132	3 0 4 3 0 3 3 0 3	33,162 32,512 31,537	139 136 132	3 0 4 3 0 4 3 0 4	31,552 30,934 30,006	132 129 126	3 0 4 3 0 4 3 0 4	33,498 32,841 31,856	140 137 133	5 0 3 5 0 3 5 0 3	30,852 30,247 29,340	129 127 123	5 0 5 5 0 5 5 0 5
35H	1006mA	5000K 4000K 3000K	261.0	35,450 34,755 33,713	136 133 129	3 0 4 3 0 4 3 0 4	35,349 34,656 33,617	135 133 129	3 0 4 3 0 4 3 0 4	33,633 32,974 31,985	129 126 123	3 0 5 3 0 5 3 0 4	35,707 35,007 33,957	137 134 130	5 0 4 5 0 4 5 0 4	32,887 32,242 31,275	126 124 120	5 0 5 5 0 5 5 0 5
37H	1071mA	5000K 4000K 3000K	278.2	37,784 37,043 35,931	136 133 129	3 0 4 3 0 4 3 0 4	37,676 36,937 35,829	135 133 129	3 0 4 3 0 4 3 0 4	35,847 35,144 34,090	129 126 123	3 0 5 3 0 5 3 0 5	38,057 37,311 36,192	137 134 130	5 0 4 5 0 4 5 0 4	35,051 34,364 33,333	126 124 120	5 0 5 5 0 5 5 0 5
40H	1240mA	5000K 4000K 3000K	325.0	40,640 39,843 38,648	125 123 119	4 0 4 4 0 4 3 0 4	40,525 39,730 38,538	125 122 119	3 0 4 3 0 4 3 0 4	38,557 37,801 36,667	119 116 113	3 0 5 3 0 5 3 0 5	40,935 40,132 38,928	126 123 120	5 0 4 5 0 4 5 0 4	37,701 36,962 35,853	116 114 110	5 0 5 5 0 5 5 0 5

LUMEN AMBIENT TEMPERATURE (LAT) MULTIPLIERS

Ambient Temperature		Lumen Multiplier
Celsius	Fahrenheit	
0°C	32°F	1.02
10°C	50°F	1.01
25°C	77°F	1.00
40°C	104°F	0.99
50°C	122°F	0.97

TM-21 LUMEN MAINTENANCE PROJECTION

- Calculated by utilizing the LED manufacturer's LM80 test data in conjunction with third-party-verified in situ LED drive current and LED temperature data. Use data below to determine light-loss factors.

Performance Package	50,000 Hrs	60,000 Hrs	100,000 Hrs
≤ 35H	99.67%	99.49%	98.77%
37H	98.95%	98.62%	97.30%
40H	96.41%	95.66%	92.72%

ELECTRICAL LOAD

Performance Package	Input Power	Current (Amps) per Input Voltage					
		120 VAC	208 VAC	240 VAC	277 VAC	347 VAC	480 VAC
12L	82.3 W	0.70	0.40	0.34	0.30	0.24	0.17
15L	108.2 W	0.92	0.52	0.45	0.39	0.31	0.23
17L	126.9 W	1.08	0.61	0.53	0.46	0.37	0.26
18H	114.3 W	0.98	0.55	0.48	0.41	0.33	0.24
20H	125.5 W	1.07	0.60	0.52	0.45	0.36	0.26
23H	151.4 W	1.29	0.73	0.63	0.55	0.44	0.32
26H	173.3 W	1.48	0.83	0.72	0.63	0.50	0.36
29H	188.0 W	1.60	0.90	0.78	0.68	0.54	0.39
30H	193.5 W	1.65	0.93	0.81	0.70	0.56	0.40
33H	238.9 W	2.04	1.15	1.00	0.86	0.69	0.50
35H	261.0 W	2.23	1.25	1.09	0.94	0.75	0.54
37H	278.2 W	2.37	1.34	1.16	1.00	0.80	0.58
40H	325.0 W	2.77	1.56	1.35	1.17	0.94	0.68

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CONTROLS

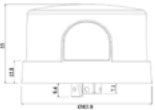
0-10 V ZHAGA OPTIONS

- ZT1: Ambient Light Control
- ZT3: IR + Ambient Light Control
- ZT4: Occupancy + IR + Ambient Light Control



PHOTOCELL OPTIONS

- PCL01: 120-277 V Photocell (640J, IP65); Blue
- PCL02: 120-277 V Photocell (1280J, IP66); Blue
- PCL03: 347-480 V Photocell (1280J, IP66); Yellow
- PCL04: Midnight Dimming, 347-480 V Photocell (1280J, IP65); Brown

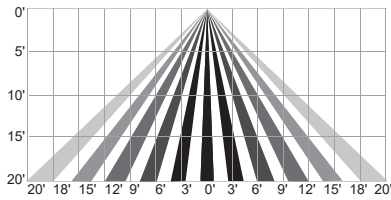
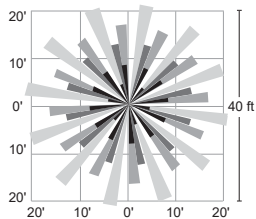


MOTION SENSOR DETAILS

- Motion sensor option available – bi-level setting standard with low point of 50% and a 15-minute delay

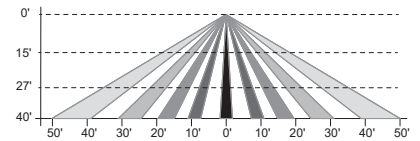
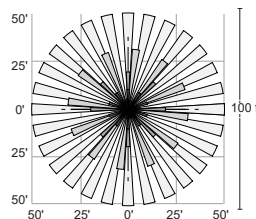
MOTION SENSOR COVERAGE (MS)

(for up to 20' height)



MOTION SENSOR COVERAGE (MH)

(for up to 40' height)



GridLite GL3

LED SITE + AREA LUMINAIRE

POLE INFORMATION

• Solais Lighting Group offers a full line of aluminum and steel poles, brackets and accessories for your installation. For more information, consult factory.

SQUARE STRAIGHT

- 8- to 39-ft. height options



ROUND STRAIGHT

- 8- to 35-ft. height options



SQUARE TAPERED

- 20- to 50-ft. height options



ROUND TAPERED

- 8- to 39-ft. height options
- 45- to 70-ft. telescoping height options



HINGED TAPERED

- 20- to 39-ft. height options

