ENERGYLITE

SPECIFICATION CODE

PROJECT TYPE

MEMO

ORDERING CODE BREAKDOWN

GL2

LED GRIDLITE (GEN 2) SITE LIGHT FIXTURE

MAIN FEATURES

- Designed with a die-cast, 100% recycled aluminum alloy housing for optimal thermal performance and exceptional corrosion resistance
- Delivering up to 151 lumens per watt
- 18,000- to 30,000 lumen packages (131-238W)
- Extended site arm offers universal mounting, allowing for retrofit without drilling into existing poles
- All mounting allows for multiple installations at 90°
- TGIC polyester super durable powder coating with superior gloss, color retention, and weather resistance
- 0-10V dimming standard; DALI-2 dimming option available
- BAA/BABA Compliance available; *Consult factory to confirm specific fixture code is compliant if this is a requirement*
- **Designed and assembled in U.S.A.!**

Extended Site Arm
EPA: 0.69 sq. ft.
WEIGHT: 21.45 - 23.87 lbs.

/ / / / / / / / / / +

FIXTURE	LUMENS	BEAM SPREAD	CRI	CCT[6]	VOLTAGE	CONTROLS	SURGE	PHOTOCELL RECEPTACLE	FINISH	MOUNTING	FIXTURE OPTIONS	FIELD OPTIONS
GL2	18H:18,000 lm; 131W	2RM : Type II Roadway Medium	7 : 70 CRI	30 : 3000K	STD : 120-277V	10[5] : 0-10V	1PS : 10kV 5kA, 120-277V	00 : None	SBZ : Bronze (RAL8019)	FA[3] : Fixed Arm	ZT1[5] : 0-10V Z Ambient Light Control	PCL-01 : 120-277V Photocell
	20H:20,000 lm; 150W	3RM : Type III Roadway Medium		40 : 4000K	HVL : 277-480V	DA : DALI-2 D4i	2PS : *20kV 10kA, 120-277V	70 : 7-pin	SGY : Gray (RAL7038)	ES[7] : Extended Site Arm	ZT3[5] : 0-10V Z IR + Ambient Light Control	PCL-02 : 120-277V Photocell
	23H:23,000 lm; 180W	3AM : Type III Area Medium		50 : 5000K			2PH : *20kV 10kA, 277-480V	0Z[5] : Z receptacle	SWH : White (RAL9003)	HT : Horizontal Tenon	ZT4[5] : 0-10V Z Occupancy + IR + Ambient Light Control	PCL-03 : 347-480V Photocell
	26H:26.000 lm; 212W	4WS[12] : Type IV Wide Short							SBK : Black (RAL9017)	KM : 3" OD Knuckle Mount	ZT5[5] : 0-10V Z Casambi Bluetooth Mesh Node	PCL-04 : 347-480V Photocell (Midnight Dim)
	28H:29,000 lm; 238W	5QS : Type V Square Short								WP[4] : Wall Pack	HSS[1] : House-side Shield	PCL-05 : 120-277V Photocell (Midnight Dim)
		5QM : Type V Square Medium									FSS : Front-side Shield	ENL-SC1 : Shorting Cap
											CSS : Cul-de-Sac Shield	SMCB[4] : Wall Pack Surface Mount Conduit Box
											SS[12] : Scoop Shield	ERP[7] : Extended Site Arm Round Pole Adapter
											CC : Coastal Construction	FRP[3] : Fixed Arm Round Pole Adapter

Notes: Consult factory to verify BAA compliant products
[1]HSS not compatible with 4WS optics, instead use SS.
[2]SS for use with 4WS optic only
[3]FRP round pole adapter for use with Fixed Arm (FA)
[4]SMBC for use with Wall Pack (WP)

*Consult factory for lead time and availability
[5]ZT1 - ZT5 options only available with 0-10V controls (10) and Z receptacle (0Z)
[6]80 or 90 CRI, + additional CCTs available upon request
[7]ERP round pole adapter for use with Extended Site Arm (ES)

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LED GRIDLITE (GEN 2) SITE LIGHT FIXTURE

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

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

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

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

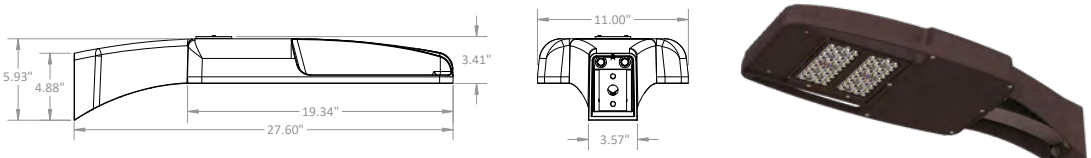
OPTICS + PERFORMANCE
- Up to 151 lumens per watt
- 18,000- to 30,000 lumen packages (131-238W)
- 5 customized distributions available
  - Type II Roadway Medium (Coefficient of Utilization: 0.793)
  - Type III Roadway Medium (Coefficient of Utilization: 0.852)
  - Type IV Wide Short (Coefficient of Utilization: 0.840)
  - Type V Square Short
  - Type V Square Medium
- Multiple shielding options available

CONTROLS
- 0-10 V dimming standard; DALI-2 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)

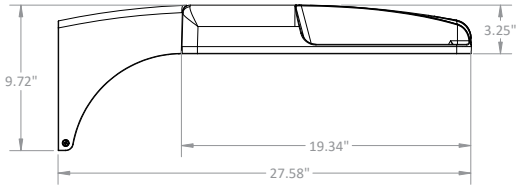
LISTINGS
- IP66-rated optical and electrical chambers
- 3G Vibration-rated (ANSI C136.31)
- cULus Listed for wet locations
- IDA Dark Sky listed with ≤3000K (Site Arm, Horizontal Tenon)
- Zhaga D4i listed
- ANSI C136.15 labeling available
- BAA/BABA Compliance available; *Consult factory to confirm specific fixture code is compliant if this is a requirement*
- **Designed and assembled in U.S.A.**

WARRANTY
- 5-year warranty

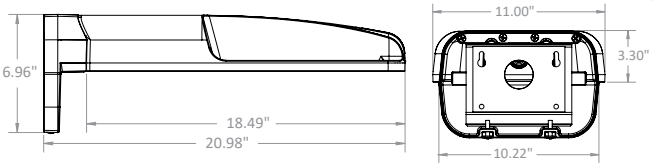
FIXED ARM (FA)



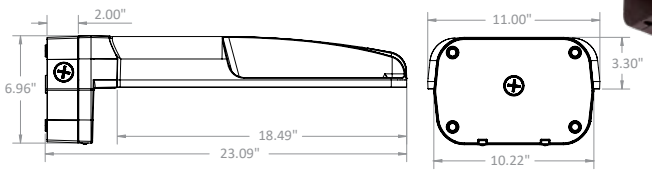
EXTENDED SITE ARM (ES)
- Universal mount adapter
- Allows for retrofit without drilling into existing poles



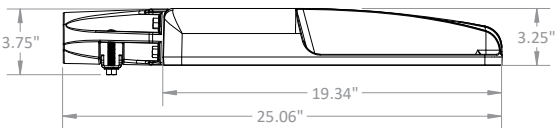
WALL PACK (WP)

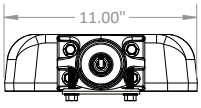


WALL PACK WITH SURFACE MOUNT CONDUIT BOX (WP-SMBC)
- Field installed option

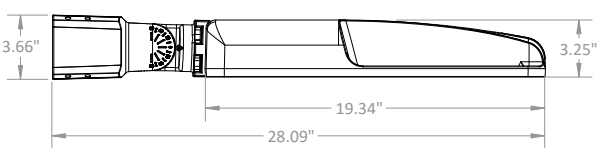


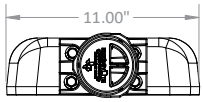
HORIZONTAL TENON (HT)
- Mounts to maximum 2⅜" O.D. tenon

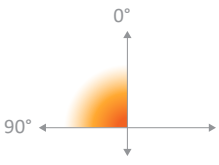




KNUCKLE MOUNT (KM)
- Mounts to maximum 3" O.D. tenon
- Adjustable at 7.5° increments
- Not recommended to angle luminaire past 0° (vertical); maintain downward angle







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LED GRIDLITE (GEN 2) SITE LIGHT FIXTURE

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
18H to 23H	99.67%	99.49%	98.77%
26H	98.95%	98.62%	97.30%
28H	95.73%	94.83%	91.34%

ELECTRICAL LOAD

Performance Package	Input Power	Current (Amps) per Input Voltage					
		120 Vac	208 Vac	240 Vac	277 Vac	347 Vac	480 Vac
18H	131.4 W	1.10	0.63	0.55	0.47	0.38	0.27
20H	149.6 W	1.25	0.72	0.62	0.54	0.43	0.31
23H	180.3 W	1.50	0.87	0.75	0.65	0.52	0.38
26H	212.4 W	1.77	0.83	0.72	0.63	0.50	0.36
28H	238.1 W	1.98	1.14	0.99	0.86	0.69	0.50

WEIGHTS + EPA INFORMATION

Mounting Type	Weight	
	18H to 20H	23H to 28H
Fixed Arm (FA)	22.77 lbs.	23.34 lbs.
Extended Site Arm (ES)	22.19 lbs.	22.76 lbs.
Extended Site Arm with Round Pole Adapter (ES-RP)	22.75 lbs.	23.32 lbs.
Horizontal Tenon (HT)	20.50 lbs.	21.07 lbs.
Knuckle Mount (KM)	21.55 lbs.	22.12 lbs.
Wall Pack (WP)	21.02 lbs.	21.59 lbs.
Wall Pack with Surface Mount Conduit Box (WP-SMBC)	23.23 lbs.	23.80 lbs.

- 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
Fixed Arm (FA)	n/a	0.74 sq. ft.	1.13 sq. ft.	1.49 sq. ft.	1.51 sq. ft.	1.87 sq. ft.	1.90 sq. ft.	1.87 sq. ft.	0.77 sq. ft.
Extended Site Arm (ES)	n/a	0.83 sq. ft.	1.32 sq. ft.	1.66 sq. ft.	1.75 sq. ft.	2.15 sq. ft.	2.24 sq. ft.	2.15 sq. ft.	0.98 sq. ft.
Extended Site Arm (ES) with Round Pole Adapter (ERP)	n/a	0.88 sq. ft.	1.37 sq. ft.	1.75 sq. ft.	1.80 sq. ft.	2.24 sq. ft.	2.29 sq. ft.	2.24 sq. ft.	0.98 sq. ft.
Horizontal Tenon (HT)	n/a	0.65 sq. ft.	0.94 sq. ft.	1.30 sq. ft.	1.22 sq. ft.	1.58 sq. ft.	1.51 sq. ft.	1.58 sq. ft.	0.65 sq. ft.
Knuckle Mount (KM) *(7.5° incements)*	90° (horizontal)	0.73 sq. ft.	1.14 sq. ft.	1.46 sq. ft.	1.37 sq. ft.	1.87 sq. ft.	1.78 sq. ft.	1.87 sq. ft.	0.82 sq. ft.
	60°	0.73 sq. ft.	1.75 sq. ft.	1.46 sq. ft.	2.02 sq. ft.	2.48 sq. ft.	3.04 sq. ft.	2.48 sq. ft.	2.04 sq. ft.
	45°	0.73 sq. ft.	2.06 sq. ft.	1.46 sq. ft.	2.33 sq. ft.	2.80 sq. ft.	3.66 sq. ft.	2.80 sq. ft.	2.66 sq. ft.
	30°	0.73 sq. ft.	2.29 sq. ft.	1.46 sq. ft.	2.57 sq. ft.	3.02 sq. ft.	4.13 sq. ft.	3.02 sq. ft.	3.12 sq. ft.
	0° (vertical)	0.73 sq. ft.	2.53 sq. ft.	1.46 sq. ft.	3.19 sq. ft.	3.26 sq. ft.	4.99 sq. ft.	3.26 sq. ft.	3.60 sq. ft.

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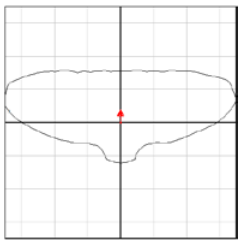
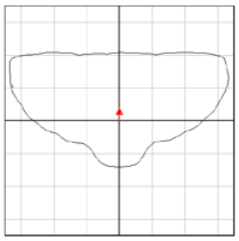
LED GRIDLITE (GEN 2) SITE LIGHT FIXTURE

PHOTOMETRIC DISTRIBUTION

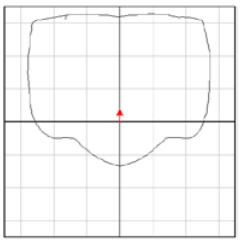
TYPE II ROADWAY MEDIUM (2RM)



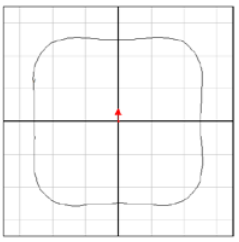
TYPE III ROADWAY MEDIUM (3RM)



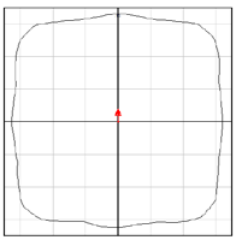
TYPE IV WIDE SHORT (4WS)



TYPE V SQUARE SHORT (5QS)

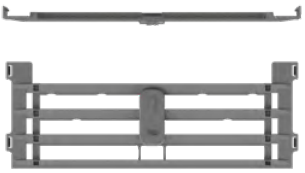


TYPE V SQUARE MEDIUM (5QM)

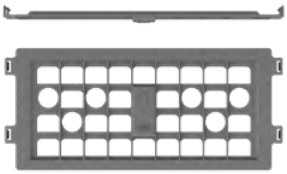


SHIELD ACCESSORY DETAILS

HOUSE SIDE SHIELD (HSS)
- Flat-black, injection molded plastic resin
- Tool-less, clip-on discrete shield
- Blocks light behind the fixture



CUL-DE-SAC SHIELD (CSS)
- Flat-black, injection molded plastic resin
- Tool-less, clip-on discrete shield
- Blocks light to left and right of the fixture



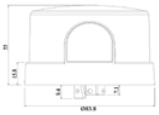
FRONT SIDE SHIELD (FSS)
- Flat-black, injection molded plastic resin
- Tool-less, clip-on discrete shield
- Blocks light in front of the fixture.

SCOOP SHIELD (SS)
- Flat-black, injection-molded plastic resin
- Tool-less, clip-on discrete shield
- Blocks light behind the fixture (4WS only)

CONTROLS

0-10 V ZHAGA OPTIONS
- ZT1: Ambient Light Control
- ZT3: IR + Ambient Light Control
- ZT4: Occupancy + IR + Ambient Light Control
- ZT5: 0-10V Zhaga Casambi BLE + ALC

PHOTOCELL OPTIONS
- PCL01: 120-277V Photocell (640J, IP65); Blue
- PCL02: 120-277V Photocell (1280J, IP66); Blue
- PCL03: 347-480V Photocell (1280J, IP66); Yellow
- PCL04: 50% Midnight Dimming, 347-480V Photocell (1280J, IP65); Brown
- PCL05: 50% Midnight Dimming, 120-277V Photocell (1280J, IP65); Brown



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LED GRIDLITE (GEN 2) SITE LIGHT FIXTURE

Performance Package	Wattage Label	Drive Current	Color Temp. (CCT)	Input Power (Watts)	TYPE II ROADWAY MED (2RM) AT 70 CRI			TYPE III ROADWAY MED (3RM) AT 70 CRI			TYPE III AREA MED (3AM) AT 70 CRI			TYPE IV WIDE SHORT (4WS) AT 70 CRI			TYPE V SQUARE SHORT (5QS) AT 70 CRI			TYPE V SQUARE MED (5QM) 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	Lumens	Efficacy (lm/W)	BUG Rating
18H	120	776mA	5000K	131.4	19,657	150	3 0 3	19,838	151	2 0 2	19,019	145	2 0 3	18,826	143	2 0 3	19,851	151	4 0 2	18,860	144	4 0 2
			4000K		19,392	148	3 0 3	19,570	149	2 0 2	18,763	143	2 0 3	18,572	141	2 0 3	19,584	149	4 0 2	18,606	142	4 0 2
			3000K		17,855	136	3 0 3	18,019	137	2 0 2	17,275	131	2 0 2	17,100	130	2 0 3	18,031	137	4 0 2	17,131	130	4 0 2
20H	140	854mA	5000K	149.6	21,761	145	3 0 3	21,962	147	2 0 3	21,055	141	3 0 3	20,841	139	3 0 3	21,976	147	4 0 2	20,879	140	5 0 3
			4000K		21,468	144	3 0 3	21,666	145	2 0 3	20,772	139	3 0 3	20,561	137	2 0 3	21,680	145	4 0 2	20,598	138	4 0 3
			3000K		19,767	132	3 0 3	19,948	133	2 0 2	19,125	128	2 0 3	18,931	127	2 0 3	19,962	133	4 0 2	18,965	127	4 0 2
23H	120	1022mA	5000K	180.3	25,007	139	3 0 3	25,237	140	3 0 3	24,196	134	3 0 3	23,950	133	3 0 4	25,254	140	4 0 2	23,994	133	5 0 3
			4000K		24,671	137	3 0 3	24,898	138	3 0 3	23,870	132	3 0 3	23,628	131	3 0 3	24,914	138	4 0 2	23,670	131	5 0 3
			3000K		22,715	126	3 0 3	22,924	127	3 0 3	21,978	122	3 0 3	21,755	121	3 0 3	22,939	127	4 0 2	21,794	121	5 0 3
26H	140	1189mA	5000K	212.4	27,957	132	3 0 3	28,214	133	3 0 3	27,049	127	3 0 4	26,775	126	3 0 4	28,233	133	4 0 2	26,823	126	5 0 3
			4000K		27,580	130	3 0 3	27,834	131	3 0 3	26,685	126	3 0 4	26,414	124	3 0 4	27,853	131	4 0 2	26,462	125	5 0 3
			3000K		25,394	120	3 0 3	25,628	121	3 0 3	24,570	116	3 0 3	24,320	115	3 0 4	25,645	121	4 0 2	24,364	115	5 0 3
28H	160	1323mA	5000K	238.1	29,930	126	3 0 3	30,205	127	3 0 3	28,958	122	3 0 4	28,664	120	3 0 4	30,225	127	5 0 3	28,716	121	5 0 3
			4000K		29,527	124	3 0 3	29,798	125	3 0 3	28,568	120	3 0 4	28,278	119	3 0 4	29,818	125	5 0 3	28,329	119	5 0 3
			3000K		27,186	114	3 0 3	27,436	115	3 0 3	26,304	110	3 0 4	26,037	109	3 0 4	27,455	115	4 0 2	26,084	110	5 0 3

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PROJECT _____ TYPE _____

GL2

LED GRIDLITE (GEN 2) SITE LIGHT FIXTURE

POLE INFORMATION

▪ Solais 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

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