ENERGYLITE

SPECIFICATION CODE

PROJECT

TYPE

MEMO

ORDERING CODE BREAKDOWN

GL3

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 165 lumens per watt
- 12,000- to 40,000 lumen packages (82-325W)
- 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: 22.42-25.84 lbs.

/ / / / / / / / / / +

FIXTURE	LUMENS	BEAM SPREAD	CRI[6]	CCT	VOLTAGE	CONTROLS	SURGE	PHOTOCELL RECEPTACLE	FINISH	MOUNTING	FIXTURE OPTIONS	FIELD OPTIONS
GL3	12L:12,000 lm; 82W	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[8] : Fixed Arm	ZT1[5] : 0-10V Z Ambient Light Control	PCL-01 : 120-277V Photocell
	15L:15,000 lm; 108W	3RM : Type III Roadway Medium		40 : 4000K	HVL : 277-480V	DA : DALI-2 D4i	2PS : *20kV 10kA, 120-277V	70[3] : 7-pin	SGY : Gray (RAL7038)	ES[7] : Extended Site Arm	ZT3[5] : 0-10V Z IR + Ambient Light Control	PCL-02 : 120-277V Photocell
	17L:17,000 lm; 127W	3AM : Type III Area Medium		50 : 5000K			2PH : *20kV 10kA, 277-480V	0Z[35] : Z receptacle	SWH : White (RAL9003)	HT : Horizontal Tenon	ZT4[5] : 0-10V Z Occupancy + IR + Ambient Light Control	PCL-03 : 347-480V Photocell
	18H:18.000 lm; 114W	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)
	20H:20,000 lm; 126W	5QS : Type V Square Short								WP[4] : Wall Pack	HSS[1] : House-side Shield	PCL-05 : 120-277V Photocell (Midnight Dim)
	23H:23,000 lm; 151W	5QM : Type V Square Medium									FSS : Front-side Shield	ENL-SC1 : Shorting Cap
	26H:26,000 lm; 173W										CSS : Cul-de-Sac Shield	SMCB[4] : Wall Pack Surface Mount Conduit Box
	29H:29,000 lm; 188W										SS[12] : Scoop Shield	ERP[7] : Extended Site Arm Round Pole Adapter
	30H:30,000 lm; 194W										CC* : Coastal Construction	FRP[3] : Fixed Arm Round Pole Adapter
	33H:33,000 lm; 239W											
	35H:35,000 lm; 261W											
	37H:37,000 lm; 278W											
	40H:40,000 lm; 325W											

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

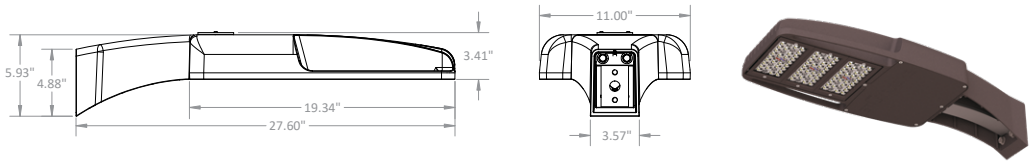
OPTICS + PERFORMANCE
- Up to 165 lumens per watt
- 12,000- to 40,000-lumen packages (82-325W)
- 5 customized distributions available
  - Type II Roadway Medium (Coefficient of Utilization: 0.793)
  - Type III Roadway Medium (Coefficient of Utilization: 0.852)
  - Type III Area Medium
  - Type IV Wide 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)

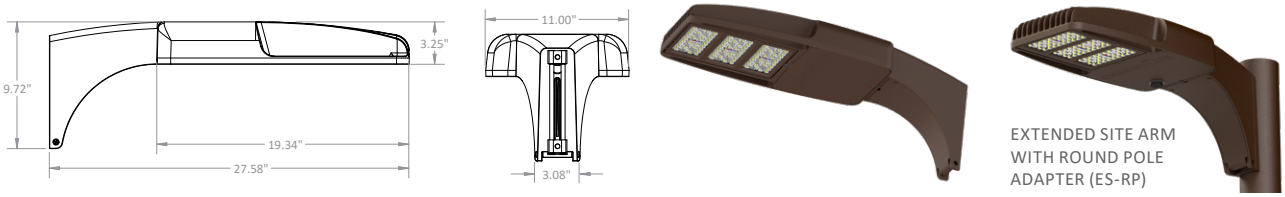
LISTINGS
- IP66-rated optical and electrical chambers
- 3G Vibration-rated (ANSI C136.31)
- cULus Listed for wet locations
- IDA Dark Sky listed with ≤3000K (Site Arm, Horizontal Tenon)
- Zhaga D4i listed
- ANSI C136.15 labeling available
- BAA/BABA Compliance available; *Consult factory to confirm specific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

WARRANTY
- 5-year warranty

FIXED ARM (FA)

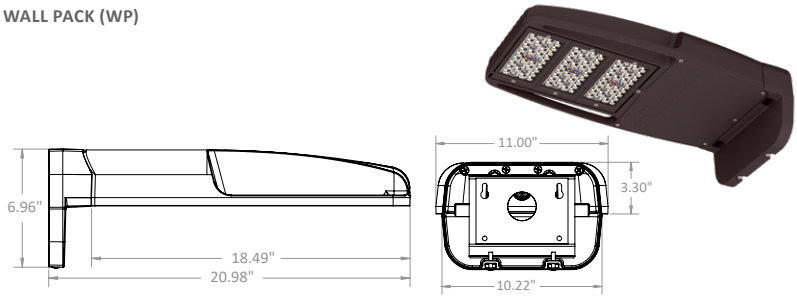


EXTENDED SITE ARM (ES)
- Universal mount adapter
- Allows for retrofit without drilling into existing poles

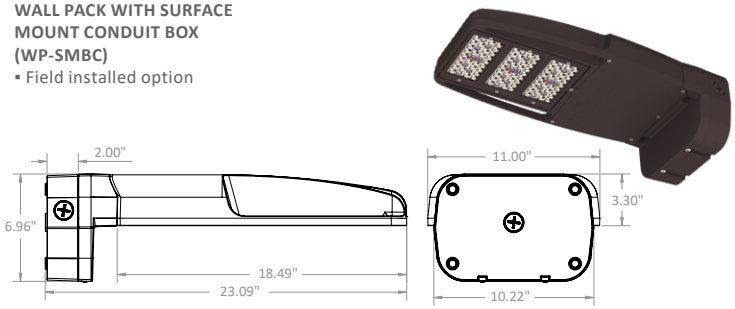


EXTENDED SITE ARM WITH ROUND POLE ADAPTER (ES-RP)

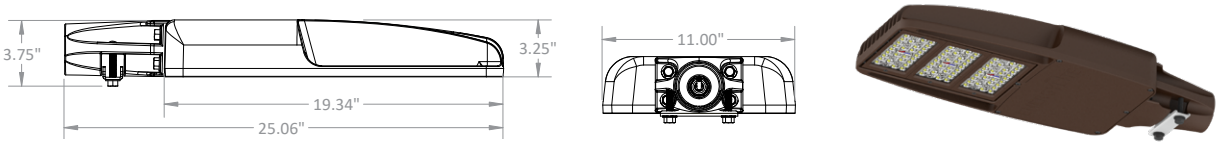
WALL PACK (WP)



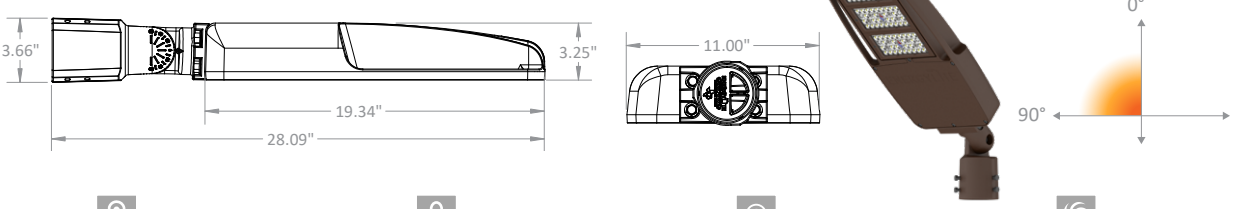
WALL PACK WITH SURFACE MOUNT CONDUIT BOX (WP-SMBC)
- Field installed option



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
≤ 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

WEIGHTS + EPA INFORMATION

Mounting Type	Weight		
	12L to 23H	26H to 30H	33H to 40H
Fixed Arm (FA)	22.96 lbs.	23.99 lbs.	25.96 lbs.
Extended Site Arm (ES)	22.28 lbs.	23.31 lbs.	25.28 lbs.
Extended Site Arm with Round Pole Adapter (ES-RP)	22.84 lbs.	23.87 lbs.	25.84 lbs.
Horizontal Tenon (HT)	20.42 lbs.	21.45 lbs.	23.42 lbs.
Knuckle Mount (KM)	20.42 lbs.	21.45 lbs.	23.42 lbs.
Wall Pack (WP)	21.20 lbs.	22.23 lbs.	24.20 lbs.
Wall Pack with Surface Mount Conduit Box (WP-SMBC)	23.42 lbs.	24.45 lbs.	26.42 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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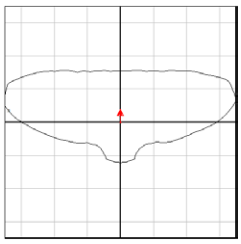
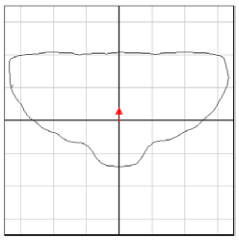
LED GRIDLITE (GEN 2) SITE LIGHT FIXTURE

PHOTOMETRIC DISTRIBUTION

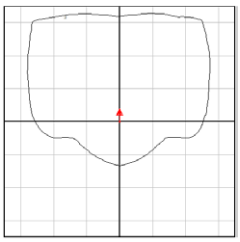
TYPE II ROADWAY MEDIUM (2RM)



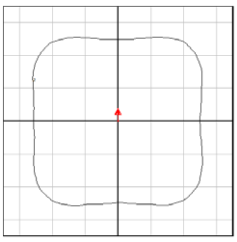
TYPE III ROADWAY MEDIUM (3RM)



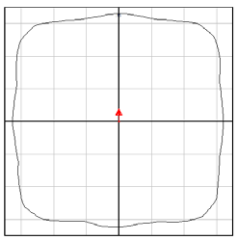
TYPE IV WIDE SHORT (4WS)



TYPE V SQUARE SHORT (5QS)



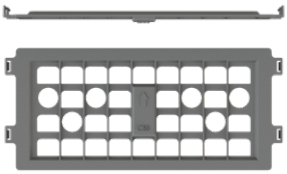
TYPE V SQUARE MEDIUM (5QM)



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

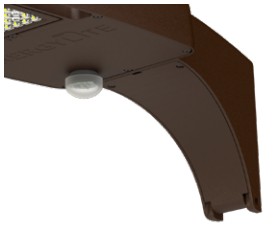


FRONT SIDE SHIELD (FSS)
- Flat-black, injection molded plastic resin
- Tool-less, clip-on discrete shield
- Blocks light in front of the fixture.

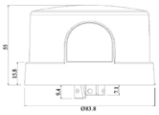
SCOOP SHIELD (SS)
- Flat-black, injection-molded plastic resin
- Tool-less, clip-on discrete shield
- Blocks light behind the fixture (4WS only)

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	Drive Current	Color Temperature (CCT)	Input Power (Watts)	TYPE II ROADWAY MED (2RM) AT 70 CRI			TYPE III ROADWAY MED (3RM) 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
12L	630mA	5000K	82.3	12,451	151	2 0 2	12,415	151	2 0 2	11,813	144	2 0 2	12,541	152	4 0 2	11,550	140	4 0 3
		4000K		12,207	148	2 0 2	12,172	148	2 0 2	11,581	141	2 0 2	12,295	149	4 0 2	11,324	138	4 0 3
		3000K		11,840	144	2 0 2	11,807	143	2 0 2	11,234	137	2 0 2	11,926	145	3 0 2	10,984	133	4 0 3
15L	826mA	5000K	108.2	15,621	144	2 0 2	15,577	144	2 0 2	14,821	137	2 0 3	15,735	145	4 0 2	14,492	134	4 0 3
		4000K		15,315	142	2 0 2	15,271	141	2 0 2	14,530	134	2 0 3	15,426	143	4 0 2	14,208	131	4 0 3
		3000K		14,856	137	2 0 2	14,813	137	2 0 2	14,094	130	2 0 3	14,963	138	4 0 2	13,781	127	4 0 3
17L	966mA	5000K	126.9	17,688	139	3 0 2	17,638	139	2 0 2	16,782	132	2 0 3	17,816	140	4 0 2	16,409	129	4 0 3
		4000K		17,341	137	3 0 2	17,292	136	2 0 2	16,453	130	2 0 3	17,467	138	4 0 2	16,087	127	4 0 3
		3000K		16,821	133	3 0 2	16,773	132	2 0 2	15,959	126	2 0 3	16,943	134	4 0 2	15,605	123	4 0 3
18H	448mA	5000K	114.3	18,410	161	3 0 2	18,358	161	2 0 2	17,467	153	2 0 3	18,544	162	4 0 2	17,079	149	4 0 3
		4000K		18,049	158	3 0 2	17,998	157	2 0 2	17,124	150	2 0 3	18,180	159	4 0 2	16,744	146	4 0 3
		3000K		17,508	153	3 0 2	17,458	153	2 0 2	16,610	145	2 0 3	17,635	154	4 0 2	16,242	142	4 0 3
20H	487mA	5000K	125.5	20,468	163	3 0 2	20,410	163	2 0 3	19,419	155	3 0 3	20,616	164	4 0 2	18,988	151	4 0 3
		4000K		20,067	160	3 0 2	20,010	159	2 0 3	19,038	152	3 0 3	20,212	161	4 0 2	18,615	148	4 0 3
		3000K		19,465	155	3 0 2	19,409	155	2 0 3	18,467	147	2 0 3	19,606	156	4 0 2	18,057	144	4 0 3
23H	588mA	5000K	151.4	23,878	158	3 0 3	23,810	157	3 0 3	22,654	150	3 0 4	24,051	159	4 0 3	22,151	146	5 0 4
		4000K		23,409	155	3 0 3	23,343	154	3 0 3	22,210	147	3 0 4	23,579	156	4 0 3	21,717	143	5 0 4
		3000K		22,707	150	3 0 3	22,643	150	2 0 3	21,543	142	3 0 4	22,872	151	4 0 3	21,065	139	5 0 4
26H	681mA	5000K	173.3	26,962	156	3 0 3	26,885	155	3 0 3	25,580	148	3 0 4	27,158	157	5 0 3	25,012	144	5 0 4
		4000K		26,434	153	3 0 3	26,358	152	3 0 3	25,079	145	3 0 4	26,625	154	5 0 3	24,522	141	5 0 4
		3000K		25,641	148	3 0 3	25,568	148	3 0 3	24,326	140	3 0 4	25,826	149	5 0 3	23,786	137	5 0 4
29H	737mA	5000K	188.0	28,850	153	3 0 3	28,768	153	3 0 3	27,371	146	3 0 4	29,059	155	5 0 3	26,763	142	5 0 4
		4000K		28,284	150	3 0 3	28,204	150	3 0 3	26,834	143	3 0 4	28,489	152	5 0 3	26,239	140	5 0 4
		3000K		27,436	146	3 0 3	27,358	146	3 0 3	26,029	138	3 0 4	27,634	147	5 0 3	25,452	135	5 0 4
30H	759mA	5000K	193.5	29,458	152	3 0 3	29,375	152	3 0 4	27,949	144	3 0 4	29,672	153	5 0 3	27,328	141	5 0 4
		4000K		28,881	149	3 0 3	28,799	149	3 0 3	27,401	142	3 0 4	29,090	150	5 0 3	26,792	138	5 0 4
		3000K		28,014	145	3 0 3	27,935	144	3 0 3	26,578	137	3 0 4	28,217	146	5 0 3	25,988	134	5 0 4
33H	922mA	5000K	238.9	33,257	139	3 0 4	33,162	139	3 0 4	31,552	132	3 0 4	33,498	140	5 0 3	30,852	129	5 0 5
		4000K		32,605	136	3 0 3	32,512	136	3 0 4	30,934	129	3 0 4	32,841	137	5 0 3	30,247	127	5 0 5
		3000K		31,627	132	3 0 3	31,537	132	3 0 4	30,006	126	3 0 4	31,856	133	5 0 3	29,340	123	5 0 5
35H	1006mA	5000K	261.0	35,450	136	3 0 4	35,349	135	3 0 4	33,633	129	3 0 5	35,707	137	5 0 4	32,887	126	5 0 5
		4000K		34,755	133	3 0 4	34,656	133	3 0 4	32,974	126	3 0 5	35,007	134	5 0 4	32,242	124	5 0 5
		3000K		33,713	129	3 0 4	33,617	129	3 0 4	31,985	123	3 0 4	33,957	130	5 0 4	31,275	120	5 0 5
37H	1071mA	5000K	278.2	37,784	136	3 0 4	37,676	135	3 0 4	35,847	129	3 0 5	38,057	137	5 0 4	35,051	126	5 0 5
		4000K		37,043	133	3 0 4	36,937	133	3 0 4	35,144	126	3 0 5	37,311	134	5 0 4	34,364	124	5 0 5
		3000K		35,931	129	3 0 4	35,829	129	3 0 4	34,090	123	3 0 5	36,192	130	5 0 4	33,333	120	5 0 5
40H	1240mA	5000K	325.0	40,640	125	4 0 4	40,525	125	3 0 4	38,557	119	3 0 5	40,935	126	5 0 4	37,701	116	5 0 5
		4000K		39,843	123	4 0 4	39,730	122	3 0 4	37,801	116	3 0 5	40,132	123	5 0 4	36,962	114	5 0 5
		3000K		38,648	119	3 0 4	38,538	119	3 0 4	36,667	113	3 0 5	38,928	120	5 0 4	35,853	110	5 0 5

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ENERGYLITE

SPECIFICATION CODE

PROJECT

TYPE

GL3

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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