ENERGYLITE

SPECIFICATION CODE

PROJECT TYPE

SPECIFIER MEMO

ORDERING CODE BREAKDOWN

GL4C

LED GRIDLITE SITE LIGHT FIXTURE

MAIN FEATURES

- A die-cast, aluminum alloy housing with Polyester super durable powder coating for optimal thermal performance, weather resistance, gloss/color retention, and exceptional corrosion resistance
- 40,000 to 55,000 lumen packages (300-440W)
- Delivering up to 139 lumens per watt
- Integral photocells, motions sensors, and Casambi wireless bluetooth integration
- 5 mounting options available; All mounting options allow for multiple fixture installations at 90°
- 120-277V with dim-to-off 0-10V dimming standard
- Multiple field-installed shielding options available

Extended Site Arm
EPA: 0.61 sq. ft.
WEIGHT: 34 lbs.

IP66 cULus RoHS COMPLIANT

/ / / / / / / / / / + +

FIXTURE	LUMENS	BEAM SPREAD	CRI	CCT	VOLTAGE	CONTROLS	SURGE	PHOTOCELL RECEPTACLE	FINISH	MOUNTING	FIXTURE OPTIONS	ADAPTER OPTIONS	FIELD OPTIONS
GL4C	40H : 40,000 lm; 300W	2RM : Type II Roadway Medium	7 : 70 CRI	30 : 3000K	STD : 120-277V	10 : 0-10V	1PS : 10kV 5kA, 120-277V	00 : None	SBZ : Bronze (RAL8019)	ES : Extended Site Arm	ZT1 : 0-10V Z Ambient Light Control	ERP : Extended Site Arm Round Pole Adapter	SOL28 HSS : House-side Shield
	42H : 42,000 lm; 330W	3RM : Type III Roadway Medium	8 : 80 CRI	40 : 4000K	HVL : 277-480V	DA : DALI-2	2PS : *20kV 10kA, 120-277V	70 : 7-pin	SGY : Gray (RAL7038)	KM : 3" OD Knuckle	ZT3 : 0-10V Z IR + Ambient Light Control		SOL28 FSS : Front-side Shield
	45H : 45,000 lm; 340W	4WS : Type IV Wide Short		50 : 5000K			2PH : *20kV 10kA, 277-480V	0Z : Z Receptacle	SWH : White (RAL9003)	HT : Horizontal Tenon	ZT4 : 0-10V Z Occupancy + IR + Ambient Light Control		SOL28 CSS : Cul-de-Sac Shield
	47H : 47,000 lm; 360W	5QS : Type V Square Short						7Z : 7-pin + Z	SBK : Black (RAL9017)		ZT5 : 0-10V Z Casambi Bluetooth Mesh Node		SOL28 SS : Scoop Shield
	50H : 50,000 lm; 390W	5QM : Type V Square Medium							*MBZ : Marine Bronze				PCL-01 : 120-277V Photocell
	52H : 52,000 lm; 410W								*MGY : Marine Grey				PCL-02 : 120-277V Photocell
	55H : 55,000 lm; 440W								*MWH : Marine White				PCL-03 : 347-480V Photocell
									*MBK : Marine Black				PCL-04 : 347-480V Photocell (Midnight Dim)
													PCL-05 : 120-277V Photocell (Midnight Dim)
													ENL-SC1 : Shorting Cap

Notes: * Special offering, consult factory for lead time and availability.
Sheilds are flat-black, injection molded plastic resin, tool-less, clip-on discrete shield.
HSS not compatible with 4WS optics, instead use SS.

*Consult factory to verify BAA/BABA compliant products.
ZT1 - ZT5 options onvly available with 10 : 0-10V Dimming
Additional CRIs and/or CCTs available upon request

All rights reserved
©Solais Lighting, LLC

ENERGYLITE

SPECIFICATION CODE

PROJECT

TYPE

GL4C

LED GRIDLITE 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

ELECTRICAL
- 120-277V Standard; 277-480V 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

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

OPTICS + PERFORMANCE
- Up to 139 lumens per watt
- **40**,000- to 55,000-lumen packages (300-440W)
- 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

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

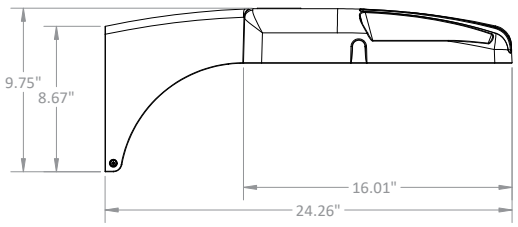
CONTROLS
- 0-10V dimming standard
- DALI-2 dimming option available
- Receptacle options:
  - ANSI C136.41 3-pin
  - ANSI C136.41 7-pin (for DALI-2 or 0-10V dimming)
  - Zhaga Book 18 (for next generation ambient light/motion sensing)

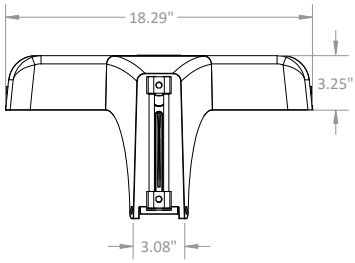
LISTINGS
- IP66-rated optical and electrical chambers
- 3G Vibration-rated (ANSI C136.31)
- cULus Listed for wet locations
- IDA Dark Sky listed with ≤3000K and Site Arm or Horizontal Tenon
- Zhaga D4i listed
- ANSI C136.15 labeling available

WARRANTY
- 5-year warranty

Extended Site Arm (ES)

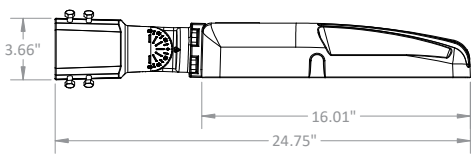
EPA	Weight
0.61 sq. ft.	33.99 lbs.

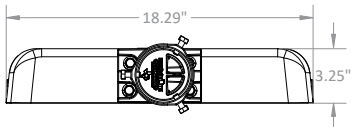




Knuckle (KM)

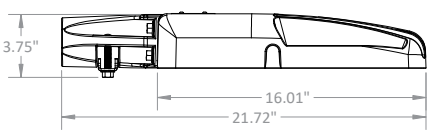
EPA	Weight
0.52 sq. ft.	32.43 lbs.

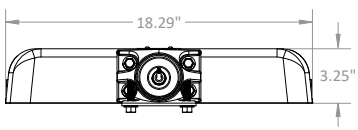




Horizontal Tenorn (HT)

EPA	Weight
0.45 sq. ft.	32.43 lbs.





SOLAIS®
8655 Corporate Drive
Frisco, TX 75033
469.294.1516
www.solais.com
All rights reserved
©Solais Lighting, LLC

ENERGYLITE

SPECIFICATION CODE

PROJECT

TYPE

GL4C

LED GRIDLITE SITE LIGHT FIXTURE

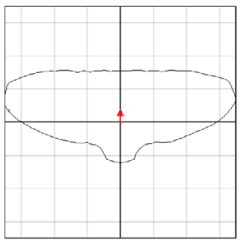
POLE CONFIGURATION EPAs

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

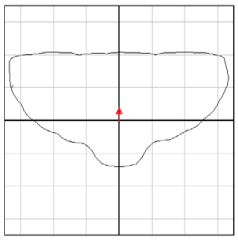
Mounting Type	Tilt	Single	2 at 90°	2 at 180°	2 at 120°	3 at 90°	3 at 120°	4 at 90°	2 Side-by-Side
Extended Site Arm (ES)	n/a	0.61 sq. ft.	1.19 sq. ft.	1.22 sq. ft.	1.44 sq. ft.	1.80 sq. ft.	2.02 sq. ft.	1.80 sq. ft.	1.15 sq. ft.
Extended Site Arm with Round Pole Adapter (ES-RP)	n/a	0.65 sq. ft.	1.23 sq. ft.	1.30 sq. ft.	1.48 sq. ft.	1.88 sq. ft.	2.06 sq. ft.	1.88 sq. ft.	1.15 sq. ft.
Horizontal Tenon (HT)	n/a	0.45 sq. ft.	0.86 sq. ft.	0.90 sq. ft.	0.99 sq. ft.	1.31 sq. ft.	1.40 sq. ft.	1.31 sq. ft.	0.81 sq. ft.
Knuckle Mount (KM)	90° (horizontal)	0.52 sq. ft.	1.02 sq. ft.	1.04 sq. ft.	1.12 sq. ft.	1.54 sq. ft.	1.62 sq. ft.	1.54 sq. ft.	1.01 sq. ft.
	60°	0.52 sq. ft.	1.76 sq. ft.	1.04 sq. ft.	1.93 sq. ft.	2.28 sq. ft.	3.17 sq. ft.	2.28 sq. ft.	2.48 sq. ft.
	45°	0.52 sq. ft.	2.14 sq. ft.	1.04 sq. ft.	2.30 sq. ft.	2.66 sq. ft.	3.92 sq. ft.	2.66 sq. ft.	3.24 sq. ft.
	30°	0.52 sq. ft.	2.43 sq. ft.	1.04 sq. ft.	2.57 sq. ft.	2.95 sq. ft.	4.48 sq. ft.	2.95 sq. ft.	3.82 sq. ft.
	0° (vertical)	0.52 sq. ft.	2.66 sq. ft.	1.04 sq. ft.	2.81 sq. ft.	3.18 sq. ft.	4.95 sq. ft.	3.18 sq. ft.	4.27 sq. ft.

PHOTOMETRIC DISTRIBUTION

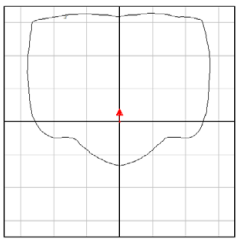
TYPE II ROADWAY MEDIUM (2RM)



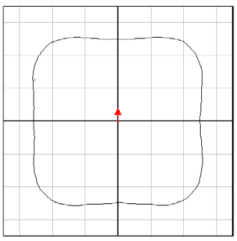
TYPE III ROADWAY MEDIUM (3RM)



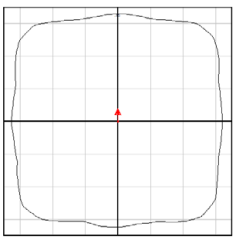
TYPE IV WIDE SHORT (4WS)



TYPE V SQUARE SHORT (5QS)



TYPE V SQUARE MEDIUM (5QM)

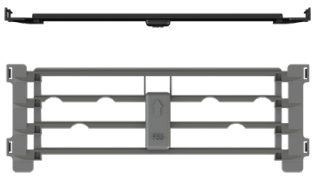


SHIELD ACCESSORY DETAILS

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)

All rights reserved
©Solais Lighting, LLC

ENERGYLITE

SPECIFICATION CODE

PROJECT

TYPE

GL4C

LED GRIDLITE SITE LIGHT FIXTURE

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
40H	427mA	5000K	301	38532	128	3 0 4	38489	128	3 0 3	37445	124	3 0 4	39459	131	5 0 3	37446	124	5 0 4
		4000K		39723	132	3 0 4	39680	132	3 0 3	38603	128	3 0 4	40679	135	5 0 3	38604	128	5 0 4
		3000K		40915	136	3 0 4	40870	136	3 0 3	39761	132	3 0 4	41899	139	5 0 3	39762	132	5 0 4
42H	461mA	5000K	325	40873	126	3 0 4	40829	126	3 0 3	39721	122	3 0 5	41857	129	5 0 4	39721	122	5 0 4
		4000K		42138	130	3 0 4	42091	130	3 0 3	40949	126	3 0 5	43151	133	5 0 4	40950	126	5 0 4
		3000K		43402	134	3 0 4	43354	133	3 0 3	42177	130	3 0 5	44446	137	5 0 4	42178	130	5 0 4
45H	477mA	5000K	340	42257	124	3 0 4	42210	124	3 0 4	41065	121	3 0 5	43273	127	5 0 4	41066	121	5 0 4
		4000K		43564	128	3 0 4	43516	128	3 0 4	42335	125	3 0 5	44612	131	5 0 4	42336	125	5 0 4
		3000K		44871	132	3 0 4	44821	132	3 0 4	43605	128	3 0 5	45950	135	5 0 4	43606	128	5 0 4
47H	511mA	5000K	362	44215	122	4 0 4	44167	122	3 0 4	42968	119	3 0 5	45279	125	5 0 4	42969	119	5 0 4
		4000K		45583	126	4 0 4	45533	126	3 0 4	44297	122	3 0 5	46679	129	5 0 4	44298	122	5 0 4
		3000K		46950	130	4 0 4	46899	130	3 0 4	45626	126	3 0 5	48080	133	5 0 4	45627	126	5 0 4
50H	544mA	5000K	391	46701	119	4 0 4	46649	119	3 0 4	45383	116	4 0 5	47824	122	5 0 4	45384	116	5 0 5
		4000K		48145	123	4 0 4	48092	123	3 0 4	46787	120	4 0 5	49303	126	5 0 4	46788	120	5 0 5
		3000K		49589	127	4 0 4	49535	127	3 0 4	48191	123	4 0 5	50782	130	5 0 4	48191	123	5 0 5
52H	570mA	5000K	411	48224	117	4 0 4	48171	117	3 0 4	46864	114	4 0 5	49384	120	5 0 4	46864	114	5 0 5
		4000K		49715	121	4 0 4	49661	121	3 0 4	48313	118	4 0 5	50911	124	5 0 4	48314	118	5 0 5
		3000K		51207	125	4 0 4	51151	124	3 0 4	49762	121	4 0 5	52439	128	5 0 4	49763	121	5 0 5
55H	611mA	5000K	442	51622	117	4 0 4	51565	117	3 0 4	50166	114	4 0 5	52864	120	5 0 4	50167	114	5 0 5
		4000K		53219	120	4 0 4	53160	120	3 0 4	51718	117	4 0 5	54499	123	5 0 4	51718	117	5 0 5
		3000K		54815	124	4 0 4	54755	124	3 0 4	53269	121	4 0 5	56134	127	5 0 4	53270	121	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
≤ 45H	99.67%	99.49%	98.77%
47H	98.95%	98.62%	97.30%
55H	96.41%	95.66%	92.72%

All rights reserved
©Solais Lighting, LLC

ENERGYLITE

SPECIFICATION CODE

PROJECT

TYPE

GL4C

LED GRIDLITE
SITE LIGHT FIXTURE

CONTROL OPTIONS

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

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

All rights reserved
©Solais Lighting, LLC