ENERGYLITE

SPECIFICATION CODE

PROJECT

TYPE

MEMO

ORDERING CODE BREAKDOWN

BL3

LED BROADLITE (GEN 2) FLOOD LIGHT FIXTURE

MAIN FEATURES

- Designed with a die-cast, aluminum alloy housing for optimal thermal performance and exceptional corrosion resistance
- Delivering up to 164 lumens per watt
- 12,000-43,000 lumen packages (84-353W)
- All mounting options allow for multiple fixtures 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.!**

Knuckle Mount

EPA: 0.47 sq. ft.

WEIGHT: 21.38 - 24.38 lbs.

/ / / / / / / / / / +

FIXTURE	LUMENS	BEAM SPREAD	CRI	CCT	VOLTAGE	CONTROLS	SURGE	PHOTOCELL RECEPTACLE	FINISH	MOUNTING	FIXTURE OPTIONS	FIELD OPTIONS
BL3	12L : 12,000 lm; 84W	N66 : NEMA 6x6	7 : 70 CRI	30 : 3000K	STD : 120-277V	10 : 0-10V	1PS:10kV 5kA, 120-277V	00 : None	SBZ : Bronze (RAL8019)	KM : 3" OD Knuckle Mount	ZT1 : 0-10V Z Ambient Light Control	PCL-01 : 120-277V Photocell
	15L : 15,000 lm; 108W	N75 : NEMA 7x5	8 : 80 CRI	40 : 4000K	HVL : 277-480V	DA : DALI-2 D4i	2PS:*20kV 10kA, 120-277V	70 : 7-pin	SGY : Gray (RAL7038)	TM : Trunion Mount	ZT3 : 0-10V Z IR + Ambient Light Control	PCL-02 : 120-277V Photocell
	18L : 18,000 lm; 138W			50 : 5000K			2PH:*20kV 10kA, 277-480V	0Z : Z receptacle	SWH : White (RAL9003)		ZT4 : 0-10V Z Occupancy + IR + Ambient Light Control	PCL-03 : 347-480V Photocell
	19H : 19,000 lm; 121W								SBK : Black (RAL9017)		ZT5 : 0-10V Z Casambi Bluetooth Mesh Node	PCL-04 : 347-480V Photocell (Midnight Dim)
	22H : 22,000 lm; 145W								*MBZ : Marine Bronze		SOL28 HSS : House-side Shield	PCL-05 : 120-277V Photocell (Midnight Dim)
	25H : 25,000 lm; 166W								*MGY : Marine Grey		SOL28 FSS : Front-side Shield	ENL-SC1 : Shorting Cap
	30H : 30,000 lm; 209W								*MWH : Marine White		SOL28 CSS : Cul-de-Sac Shield	
	33H : 33,000 lm; 239W								*MBK : Marine Black		SOL28 SS : Scoop Shield	
	37H : 37,000 lm; 273W											
	40H : 40,000 lm; 320W											
	43H : 43,000 lm; 353W											

Notes: Consult factory to verify BAA/BABA compliant products.
*Consult factory for lead time and availability.
Additional CRIs and/or CCTs available upon request

HVL + DALI-2 combination only available with 12L-18L and 17H-22H performance packages.
Sheilds are flat-black, injection molded plastic resin, tool-less, clip-on discrete shield.

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LED BROADLITE (GEN 2) FLOOD 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
- Knuckle mount is a 3" O.D. offering 7.5° tilt increments
- Trunion mount offers 15° tilt increments
- All mounting options allow for multiple fixture installations at 90°

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

ELECTRICAL
- 120-277 V 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

OPTICS + PERFORMANCE
- Up to 164 lumens per watt
- 12,000-43,000 lumen packages (84-353W)
- 5 customized distributions available
  - Type III Roadway Medium
  - NEMA 6x6
- Multiple shielding options available

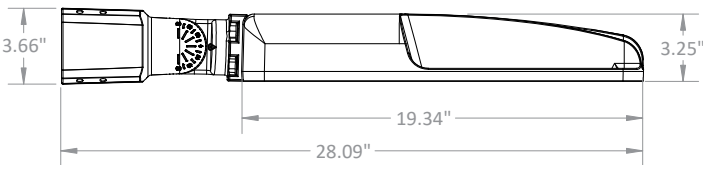
CONTROLS
- 0-10 V dimming standard; DALI-2 option available
- Receptacle options:
  - ANSI C136.41 3-pin
  - ANSI C136.41 7-pin (for DALI-2 or 0-10 V dimming)
  - Zhaga Book 18 (for next generation ambient light/motion sensing)

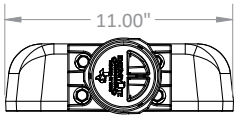
LISTINGS
- IP66-rated optical and electrical chambers
- 3G Vibration-rated (ANSI C136.31)
- cULus Listed for wet locations
- Zhaga D4i listed
- ANSI C136.15 labeling available
- BAA/BABA Compliance available; *Consult factory to confirm specific fixture code is compliant if this is a requirement*
- **Designed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

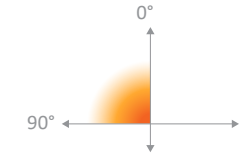
WARRANTY
- 5-year warranty

(KM) Knuckle

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

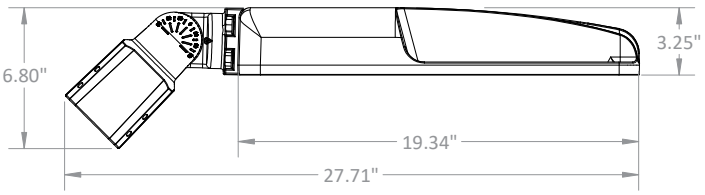


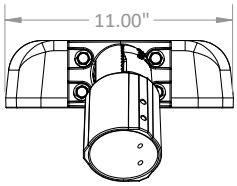


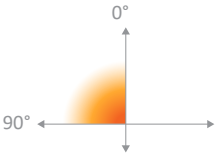


(KMS) KNUCKLE MOUNT SIDE ENTRY

- 6' side entry pigtail
- Pre-set to 45° tilt
- Adjustable at 7.5° increments
- Mounts to maximum 3" O.D. tenon

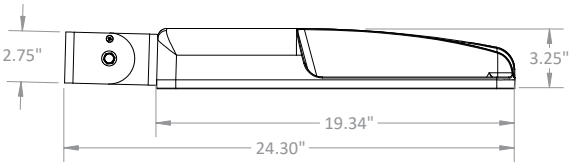


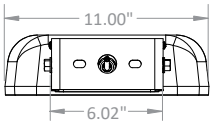


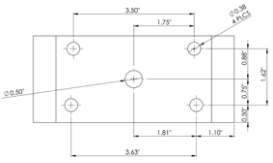


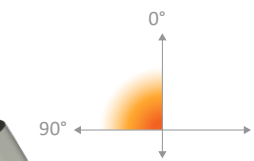
(TM) Trunnion

- Adjustable at 15° increments
- Not recommended to angle luminaire past 0° (vertical); maintain downward angle









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ENERGYLITE

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PROJECT

TYPE

BL3

LED BROADLITE (GEN 2) FLOOD LIGHT FIXTURE

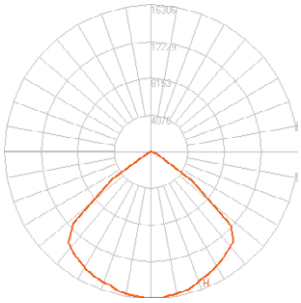
POLE CONFIGURATION EPAs

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

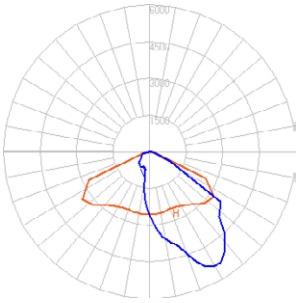
Mounting Type	Tilt	Single	2 at 90°	2 at 180°	3 at 90°	4 at 90°	2 Side-by-side
Knuckle Mount (KM) + Knuckle Mount Side Entry (KMS)	90° (horizontal)	0.73 sq. ft.	1.14 sq. ft.	1.46 sq. ft.	1.87 sq. ft.	1.87 sq. ft.	0.82 sq. ft.
	60°	0.73 sq. ft.	1.75 sq. ft.	1.46 sq. ft.	2.48 sq. ft.	2.48 sq. ft.	2.04 sq. ft.
	45°	0.73 sq. ft.	2.06 sq. ft.	1.46 sq. ft.	2.80 sq. ft.	2.80 sq. ft.	2.66 sq. ft.
	30°	0.73 sq. ft.	2.29 sq. ft.	1.46 sq. ft.	3.02 sq. ft.	3.02 sq. ft.	3.12 sq. ft.
	0° (vertical)	0.73 sq. ft.	2.53 sq. ft.	1.46 sq. ft.	3.26 sq. ft.	3.26 sq. ft.	3.60 sq. ft.
Trunnion Mount (TM)	90° (horizontal)	0.61 sq. ft.	0.91 sq. ft.	1.22 sq. ft.	1.52 sq. ft.	1.52 sq. ft.	0.60 sq. ft.
	60°	0.61 sq. ft.	1.52 sq. ft.	1.22 sq. ft.	2.14 sq. ft.	2.14 sq. ft.	1.82 sq. ft.
	45°	0.61 sq. ft.	1.81 sq. ft.	1.22 sq. ft.	2.42 sq. ft.	2.42 sq. ft.	2.40 sq. ft.
	30°	0.61 sq. ft.	2.02 sq. ft.	1.22 sq. ft.	2.63 sq. ft.	2.63 sq. ft.	2.81 sq. ft.
	0° (vertical)	0.61 sq. ft.	2.18 sq. ft.	1.22 sq. ft.	2.80 sq. ft.	2.80 sq. ft.	3.14 sq. ft.

PHOTOMETRIC DISTRIBUTION

NEMA 6x6 (N66)



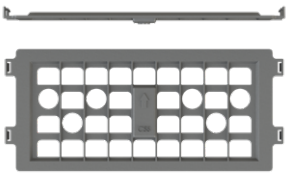
Type NEMA 7x5 (N75)



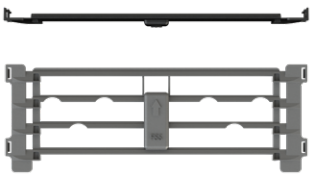
SHIELD ACCESSORY DETAILS

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)

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LED BROADLITE (GEN 2) FLOOD LIGHT FIXTURE

PERFORMANCE DATA

Performance Package	Drive | Current	Color Temperature (CCT)	Input Power (Watts)	TYPENEMA 7x5 AT 70 CRI		TYPE NEMA 6x6 AT 70 CRI	
				Lumens	Efficacy (lm/W)	Lumens	Efficacy (lm/W)
12L	630mA	5000K	83.8	12,331	147	12,832	153
		4000K		12,089	144	12,580	150
		3000K		11,727	140	12,203	146
15L	826mA	5000K	110.6	15,501	140	16,130	146
		4000K		15,197	137	15,814	143
		3000K		14,741	133	15,340	139
18L	1022mA	5000K	138.1	18,376	133	19,122	138
		4000K		18,016	130	18,747	136
		3000K		17,475	127	18,185	132
17H	413mA	5000K	107.4	17,250	161	17,950	167
		4000K		16,912	157	17,598	164
		3000K		16,404	153	17,070	159
19H	462mA	5000K	120.5	19,038	158	19,810	164
		4000K		18,665	155	19,422	161
		3000K		18,105	150	18,839	156
22H	553mA	5000K	145.3	22,230	153	23,133	159
		4000K		21,795	150	22,679	156
		3000K		21,141	145	21,999	151
25H	637mA	5000K	166.0	25,268	152	26,294	158
		4000K		24,773	149	25,778	155
		3000K		24,029	145	25,005	151
30H	761mA	5000K	208.6	30,221	145	31,448	151
		4000K		29,629	142	30,831	148
		3000K		28,740	138	29,906	143
33H	904mA	5000K	238.5	32,441	136	33,758	142
		4000K		31,805	133	33,096	139
		3000K		30,851	129	32,103	135
37H	1024mA	5000K	272.9	36,841	135	38,336	140
		4000K		36,118	132	37,584	138
		3000K		35,035	128	36,456	134
40H	1192mA	5000K	320.2	40,125	125	41,754	130
		4000K		39,339	123	40,935	128
		3000K		38,158	119	39,707	124
43H	1305mA	5000K	352.7	42,035	119	43,741	124
		4000K		41,211	117	42,883	122
		3000K		39,974	113	41,597	118

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
12L-37H	99.67%	99.49%	98.77%
40H	98.95%	98.62%	97.30%
43H	96.41%	95.66%	92.72%

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

ELECTRICAL LOAD

Performance Package	Input Power	Current (Amps) per Input Voltage					
		120 Vac	208 Vac	240 Vac	277 Vac	347 Vac	480 Vac
12L	83.8W	0.70	0.39	0.34	0.30	0.24	0.17
15L	110.6W	0.92	0.52	0.45	0.39	0.31	0.23
18L	138.1W	1.15	0.65	0.56	0.49	0.39	0.28
17H	107.4W	0.90	0.51	0.44	0.38	0.30	0.22
19H	120.5W	1.00	0.57	0.49	0.43	0.34	0.25
22H	145.3W	1.21	0.68	0.59	0.51	0.41	0.30
25H	166.0W	1.38	0.78	0.68	0.59	0.47	0.34
30H	208.6W	1.74	0.98	0.85	0.74	0.59	0.43
33H	238.5W	1.99	1.12	0.97	0.84	0.67	0.49
37H	272.9W	2.27	1.29	1.11	0.97	0.77	0.56
40H	320.2W	2.67	1.51	1.31	1.13	0.90	0.65
43H	352.7W	2.94	1.66	1.44	1.25	1.00	0.72

WEIGHTS

Mounting Type	Weight		
	12L to 22H	25H- to 30H	33H to 43H
Knuckle Mount (KM)	20.42 lbs.	21.45 lbs.	23.42 lbs.
Trunion Mount (TM	21.38 lbs.	22.41 lbs.	24.38 lbs.

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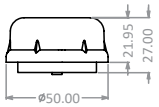
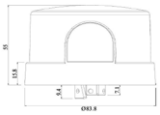
LED BROADLITE (GEN 2) FLOOD LIGHT FIXTURE

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



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
- 8-39 ft. height options

ROUND STRAIGHT
- 8-35 ft. height options

ROUND TAPERED
- 8-39 ft. height options
- 45-70 ft. telescoping height options

SQUARE TAPERED
- 20-50 ft. height options

HINGED TAPERED
- 20-39 ft. height options

SOLAIS®

8655 Corporate Drive
Frisco, TX 75033

469.294.1516
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BroadLite
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