


SMALL SIZE:
100W

MEDIUM SIZE:
150W / 180W

LARGE SIZE:
250W / 300W

Product Overview

GKOALG5 Area Lights are the cost-effective area lighting solution for mounting heights ranging from 26' to 50', featuring a low-profile, compact housing in an attractive design. An optional twist-lock photocell or multi-level motion sensor is available for additional energy savings, and an optional backlight glare shield minimizes light spillover.



Key Features

CONSTRUCTION:

- Rugged single-piece, die-cast aluminum housing with integral heat sink fins.
- Housing has direct contact with the driver to help maintain low temperature and long lifespan.
- 1.5G vibration rated for areas with traffic, meeting ANSI standards C136.31.
- Housing is completely sealed against moisture and environmental contaminants.

OPTICS:

- Type III, IV, V light distribution available.
- Light engines are available in standard 4000K and 5000K configurations.
- A wide range of lumen options available from 13,900 to 42,000 Lumens, replaces up to 1,000W metal halide.
- Impact and UV-resistant polycarbonate lens is precisely designed to give a specific light distribution, maximizing efficiency and application spacing.
- Optional backlight glare shield is available for minimizing lighting spillover in order to comply with local ordinances.

ELECTRICAL:

- Universal 120-277V or 347-480V input voltage.
- 0-10V dimming driver(s) as default.
- THD: ≤20%, Power Factor: ≥90%.

CONTROLS:

- Optional multi-level motion sensor (not compatible with twist-lock photocell).
- Optional twist-lock photocell (not compatible with multi-level motion sensor).
- Optional motion sensor remote control.

INSTALLATION:

- Suitable for mounting heights ranging from 26'-50' in area lighting applications.
- Round and square pole, slipfitter, wall, and yoke mount are available.
- Designed to be suitable for installation by only one person.

WARRANTY:

- 5 Year Limited Warranty.

LISTINGS:

- DesignLights Consortium® (DLC) Premium qualified.
- UL listed for wet locations.
- Rated for ambient operating temperature -40°F to 104°F (-40°C to 40°C).

Performance Data

Lumen Output

Wattage	Voltage	Distribution Type	4000K(70CRI)		5000K(70CRI)	
			Lumens	Efficacy	Lumens	Efficacy
100W	120-277V / 347-480V	3	14100lm	141lm/W	14100lm	141lm/W
		4	14000lm	140lm/W	13900lm	139lm/W
		5	14200lm	142lm/W	14200lm	142lm/W
150W	120-277V / 347-480V	3	21000lm	140lm/W	21000lm	140lm/W
		4	20500lm	137lm/W	20500lm	137lm/W
		5	21000lm	140lm/W	21000lm	140lm/W
180W	120-277V / 347-480V	3	25000lm	139lm/W	25000lm	139lm/W
		4	25000lm	139lm/W	25000lm	139lm/W
		5	26000lm	144lm/W	26000lm	144lm/W
250W	120-277V / 347-480V	3	35000lm	140lm/W	35000lm	140lm/W
		4	35000lm	140lm/W	35000lm	140lm/W
		5	36000lm	144lm/W	35000lm	140lm/W
300W	120-277V / 347-480V	3	42000lm	140lm/W	42000lm	140lm/W
		4	41000lm	137lm/W	41000lm	137lm/W
		5	42000lm	140lm/W	42000lm	140lm/W

BUG Rating

Wattage	Voltage	Distribution Type	B	U	G
100W	120-277V / 347-480V	3	2	0	2
		4	3	0	3
		5	4	0	2
150W	120-277V / 347-480V	3	3	0	3
		4	3	0	3
		5	4	0	2
180W	120-277V / 347-480V	3	3	0	3
		4	3	0	3
		5	4	0	2
250W	120-277V / 347-480V	3	4	0	4
		4	4	0	4
		5	5	0	3
300W	120-277V / 347-480V	3	4	0	4
		4	4	0	5
		5	5	0	3

Electrical Data

Number of Drivers	Driver Current (mA)	Nominal Power (W)	Input Voltage (V)	Current (Amps)
1	850	100	120	0.83
		100	208	0.48
		100	240	0.42
		100	277	0.36
		100	347	0.29
		100	480	0.21
1	1200	150	120	1.25
		150	208	0.72
		150	240	0.63
		150	277	0.54
		150	347	0.43
		150	480	0.31
1	960	180	120	1.50
		180	208	0.87
		180	240	0.75
		180	277	0.65
		180	347	0.52
		180	480	0.38

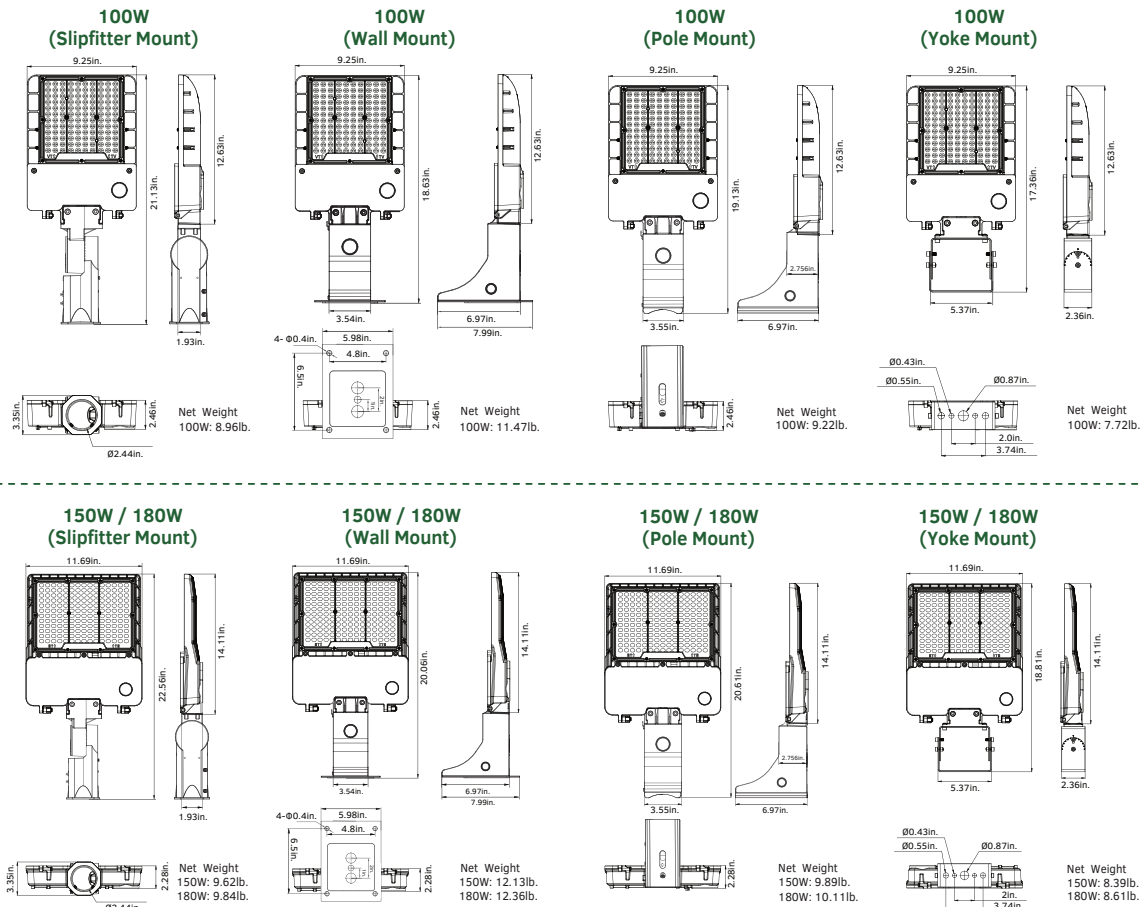
Electrical Data

Number of Drivers	Driver Current (mA)	Nominal Power (W)	Input Voltage (V)	Current (Amps)
1	1200	250	120	2.08
		250	208	1.20
		250	240	1.04
		250	277	0.90
		250	347	0.72
		250	480	0.52
1	1500	300	120	2.50
		300	208	1.44
		300	240	1.25
		300	277	1.08
		300	347	0.86
		300	480	0.63

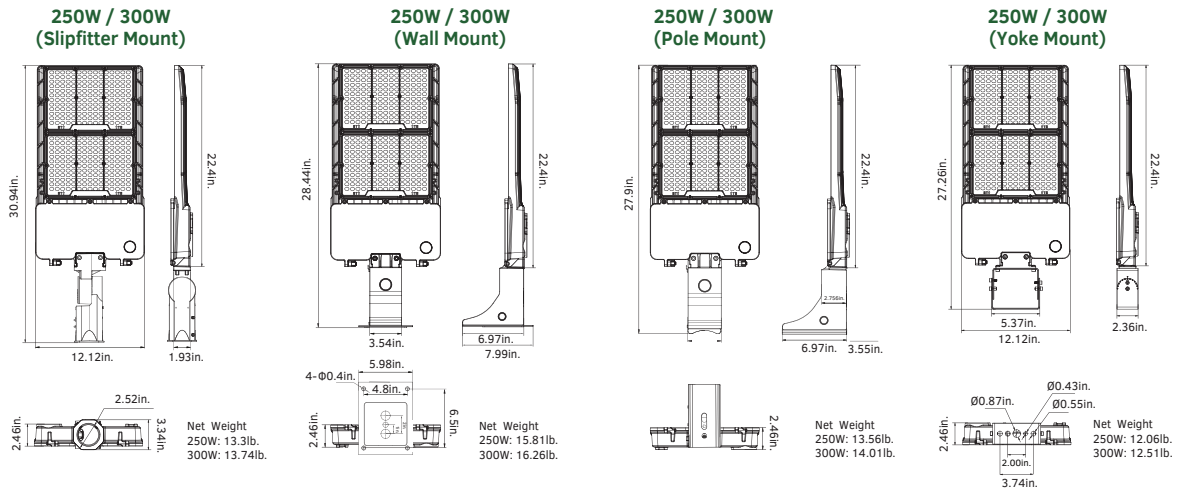
EPA of Series GKOALG5 Area Light

	1	2 @ 90°	2 @ 120°	2 @ 180°	3 @ 90°	3 @ 120°	4 @ 90°
100W	0.2751	0.5267	0.7321	0.6164	0.9577	0.9837	0.9577
150W / 180W	0.3111	0.6343	0.6464	0.6222	0.9335	0.9696	0.9335
250W / 300W	0.4097	0.7227	0.9919	0.8856	1.1986	1.3049	1.1986

Dimensions & Weight



Dimensions & Weight



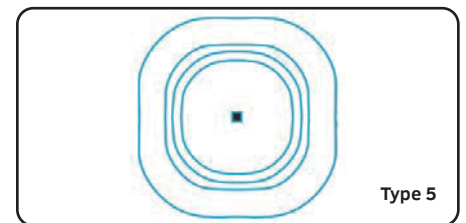
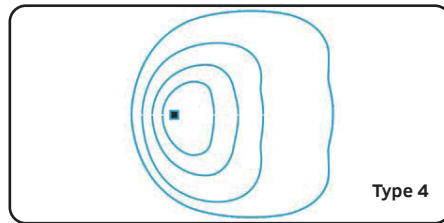
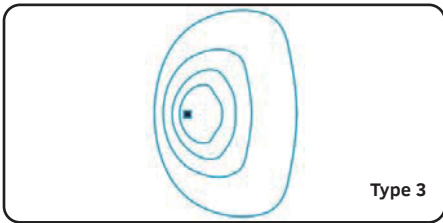
Lighting Distribution

GKOLED offers a complete set of optical systems to meet every site lighting requirement. These systems provide remarkable flexibility in precisely matching light distribution patterns to specific site requirements.

Type 3 optics produce an asymmetrical pattern that directs the majority of the light forward and equally on both sides of the luminaire. In a back-to-back configuration, it creates a rectangular pattern which can extend pole spacings.

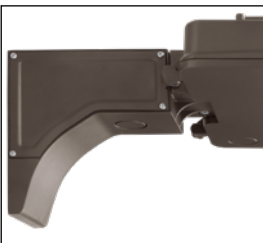
Type 4 is suitable for applications where light is primarily required forward with minimal backlight. Typical installations include perimeter poles.

Type 5 optics produce a symmetrical square distribution pattern that distributes light equally on all sides of the luminaire. Type 5 luminaires are universal for most area lighting applications.



Mounting Information

Mounting Options



Pole Mount (4" and 5" Square and Round Poles)

Standard versatile mounting arm is simple to install and can be used with existing poles for retrofit installations.



Slipfitter Mount

An optional cast aluminum mast arm adaptor secures fixture head to nominal 2" (2-3/8" O.D. pipe size) horizontal steel tenon arm.



Wall Mount

Wall Mount is easy to install for direct wall mounting with 1/2" conduit wiring or standard J-Box mounting.



Yoke Mount

Die-cast aluminum yoke is easily adapted to many surfaces and adjusted to a range of fixture aiming angles.

Mounting Accessories

ROUND POLE CONNECTING PLATE • For square mount to be fixed to a round pole

The diagrams illustrate the installation of the Round Pole Connecting Plate. The first diagram shows the plate being attached to a round pole (5" O.D.) to support a luminaire. The second diagram shows the plate being attached to a square pole to support a luminaire. The third diagram is a drilling template with the following dimensions: 1-1/4" (32mm) for the top hole, 1" (25mm) for the middle hole, 1-1/4" (32mm) for the bottom hole, and 3-7/16" (86mm) for the overall height. The template also indicates 9/16" DIA. HOLE and 9/16" HOLE for the mounting holes.

Accessories



MULTI-LEVEL MOTION SENSOR
Optional multi-level motion sensor detects occupancy in an area for additional energy savings.



MOTION SENSOR REMOTE CONTROL
Optional remote control programs the motion sensor with advanced lighting control options.



TWIST LOCK PHOTOCELL
Optional twist-lock photocell adds dusk to dawn function for additional energy savings.

Glare Shields

An optional backlight control provides reduced light spillover and increased visual comfort without compromising performance.



Ordering Information

Area Light Series GKOALG5								Example: GKOALG5100W27V50KDP0SQT3S		
Fixture Type	Wattage	Voltage	CCT	Finish	Photocell (Optional)	Sensor (Optional)	Mounting	Photometry	Surge Protection	
GKOALG5	100W 150W 180W 250W 300W	27V 120-277V 48V 347-480V	40K 4000K 50K 5000K	D Dark Bronze B Black W White SG Silver Gray	PO With Photocell Blank Without Photocell	M With Sensor Blank Without Sensor	SQ Square Pole Mount SP Slipfitter Mount WM Wall Mount YK Yoke Mount	T3 Type III Photometry T4 Type IV Photometry T5 Type V Photometry	S External Surge Protection Blank Included Surge Protection	

Note: External surge protection is added to all 100W models. All other wattages feature included surge protection by default.



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