



## Product Overview

The GKOAL04 Area Light series is the compact, efficient, cost-effective approach to LED area lighting, providing excellent operating performance in a functional, low-profile design. It delivers uniform, energy conscious illumination to parking lots, streets, and commercial lighting applications.



## 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.
- 3G vibration rated per ANSI C136.31, low EPA.
- Housing is completely sealed against moisture and environmental contaminants.

### OPTICS:

- Type III and Type V light distribution available.
- Light engines are available in 4000K and 5000K configurations for specific wattages.
- A wide range of lumen options available from 13,800 to 35,250 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.

### ELECTRICAL:

- Universal 120-277V input voltage.
- 10KV surge protection.
- 1-10V dimming driver(s) as default.
- THD: ≤20%, Power Factor: ≥90%.

### INSTALLATION:

- Suitable for mounting heights ranging from 20'-50' in area lighting applications.
- Square pole, round pole, and slipfitter mounts are available.
- Designed to be suitable for installation by only one person.

### LIFESPAN:

- Estimated 100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.

### LISTINGS:

- DesignLights Consortium® (DLC) Premium qualified.
- UL listed for wet locations.
- Rated for ambient operating temperature -40°F to 113°F (-40°C to 45°C).

# Perfomance Data








## Lumen Output

System Watts	Voltage	Distribution Type	4000K(70CRI)		5000K(70CRI)	
			Lumens	Efficacy	Lumens	Efficacy
100W	120-277V	III	---	---	13800lm	138lm/W
	120-277V	V	---	---	13900lm	139lm/W
150W	120-277V	III	20500lm	137lm/W	20800lm	139lm/W
	120-277V	V	---	---	20800lm	139lm/W
250W	120-277V	III	---	---	34500lm	138lm/W
	120-277V	V	---	---	35250lm	141lm/W

## BUG Rating

System Watts	Voltage	Distribution Type	B	U	G
100W	120-277V	III	2	0	2
150W	120-277V	III	3	0	3
250W	120-277V	III	4	0	4

## EPA of Area Light

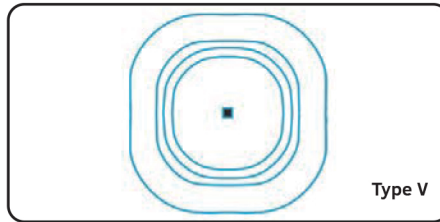
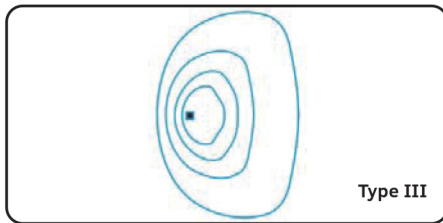
									
Wattage	Mount	Tilt	1	2 @90°	2 @120°	2 @180°	3 @90°	3 @120°	4 @90°
100W	Square/Round Pole Mount	-	0.3413	0.5929	0.7983	0.6826	1.0239	1.0499	1.0239
150W	Square/Round Pole Mount	-	0.423	0.735	0.873	0.846	1.158	1.185	1.158
250W	Square/Round Pole Mount	-	0.4759	0.7889	1.0581	0.9518	1.2648	1.3711	1.2648
100W	Slipfitter	0°	0.3371	0.5054	0.7535	0.6684	0.8417	0.8682	0.8447
150W	Slipfitter	0°	0.3752	0.5935	0.8537	0.749	0.9673	1.0157	0.9706
250W	Slipfitter	0°	0.4646	0.6829	0.9517	0.929	1.1454	1.1698	1.1474
100W	Slipfitter	10°	0.3373	0.5485	0.7878	0.6727	0.8821	0.9437	0.884
150W	Slipfitter	10°	0.3755	0.6566	0.936	0.75	1.004	1.1784	1.005
250W	Slipfitter	10°	0.4645	0.901	1.1857	0.926	1.3574	1.6154	1.3578
100W	Slipfitter	20°	0.3373	0.681	0.8864	0.6744	1.016	1.1909	1.0183
150W	Slipfitter	20°	0.3754	0.8906	1.108	0.7512	1.2644	1.617	1.2663
250W	Slipfitter	20°	0.4643	1.2283	1.4769	0.9248	1.6857	2.237	1.6882
100W	Slipfitter	30°	0.3371	0.8076	0.9924	0.6718	1.1418	1.4382	1.15
150W	Slipfitter	30°	0.3752	1.0869	1.2776	0.7476	1.4557	1.9863	1.4585
250W	Slipfitter	30°	0.464	1.535	1.7612	0.9258	1.9928	2.8232	1.9965
100W	Slipfitter	45°	0.3368	0.9559	1.1397	0.6723	1.2916	1.7549	1.2945
150W	Slipfitter	45°	0.3744	1.3331	1.5167	0.7496	1.7073	2.4677	1.711
250W	Slipfitter	45°	0.4642	1.9064	2.1356	0.9238	2.3613	3.5779	3.3653

# 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.

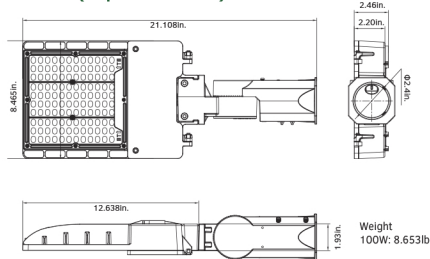
Type III optics produce an asymmetrical pattern that directs the majority of the light forward and equally on both sides of the luminaire. In a back-to-back configuration, it creates a rectangular pattern which can extend pole spacings.

Type V 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.

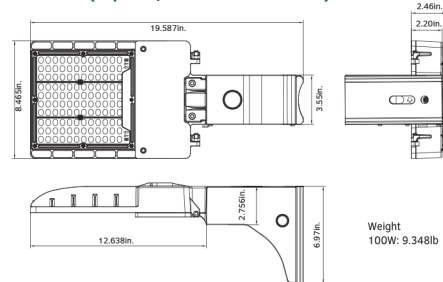


## Dimensions & Weight

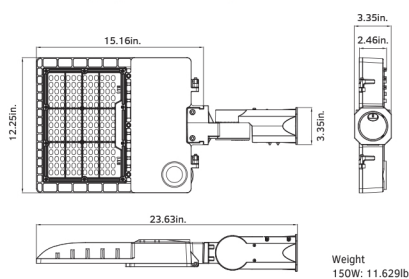
100W (Slipfitter Mount)



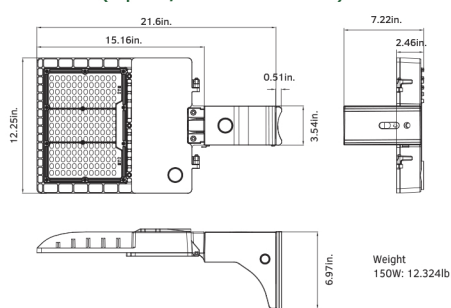
100W (Square/Round Pole Mount)



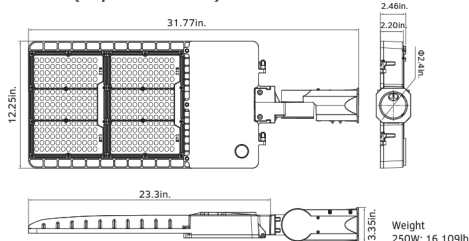
150W (Slipfitter Mount)



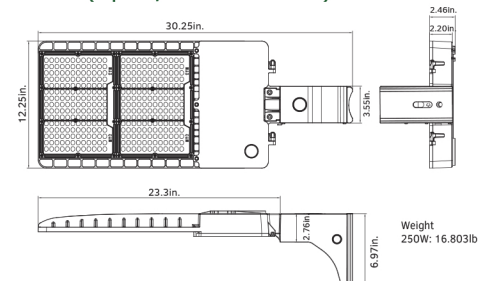
150W (Square/Round Pole Mount)



250W (Slipfitter Mount)

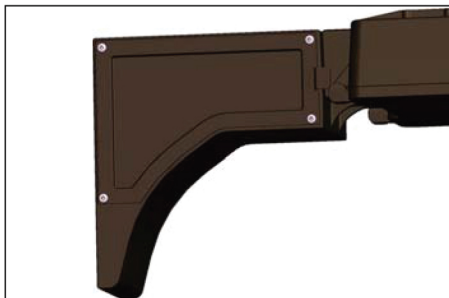


250W (Square/Round Pole Mount)

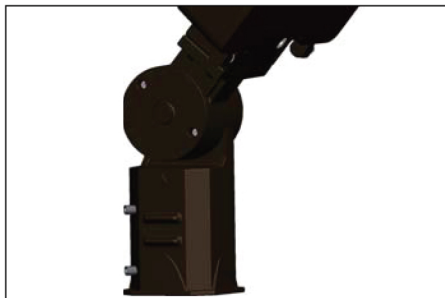


# Mounting Information

## 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.

## Mounting Accessories

Round Pole Connecting Plate
• For square mount to be fixed to a round pole

**Drilling Template**

1-1/4" (32mm)  
1" (25mm)  
1-1/4" (32mm)  
3-7/16" (86mm)

9/16" DIA. HOLE  
9/16" HOLE

## Ordering Information

Area Light Series GKOAL04						Example: GKOAL04100W27V50KDT3S-SQAL04DA	
Fixture Type	Wattage	Voltage	CCT	Finish	Photometry	Surge Protection	Mounting
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GKOAL04	100W	27V 120-277V	50K 5000K	D Dark Bronze	T3 Type III Photometry	S Surge Protection (100W Only)	-SQAL04DA Square/Round Pole Mount
	150W		40K 4000K		T5 Type V Photometry	Blank Built-In Surge Protection	-SPAL04DA Slipfitter Mount
	250W						

- Note: 1. Not all product variations listed on this page are DLC qualified. Visit [www.designlights.org/search](http://www.designlights.org/search) to confirm qualification.
2. 4000K is only available in 150W with Type III Photometry.
3. Slipfitter Mount is only available with Type III Photometry.
4. By default, all fixtures include surge protection.