

# ALF G1

## LED Area Light Selectable **CONTRACTOR XP**

Due to continuous product improvements, specification and/or equipment updates may change without notice.



(Images are shown for illustration purposes only)

**ALF LS230 Medium Selectable Area Light**  
 (Pictured with Adjustable Pole Mount)

**ALF LS450 Large Selectable Area Light**  
 (Pictured with Adjustable Pole Mount)

The ALF G1 Selectable Area Light - Flex Series ships in one package featuring mount, photocell, and shorting cap. The new flex series area light features 4 switch selectable lumen outputs and 3 switch selectable CCT outputs, offering a 12-in-1 solution. Built-in 1/8" jack receptacle makes for easy controls options for optimizing your energy savings.

### SPECIFICATIONS

#### Housing

One-piece, die-cast aluminum housing sealed against moisture and environmental contaminants - features PIN receptacle.

#### Mounting

Square/Round Pole and Slipfitter Mounting options.

#### Lumen Output

**Medium Area Light**  
 Field selectable:  
 10,000 - 23,000 Lm.  
**Large Area Light**  
 Field selectable:  
 20,000 - 45,000 Lm.

#### Warranty

5-year limited warranty. Comprehensive warranty terms can be located on [www.slgus.com](http://www.slgus.com).

#### Certifications

UL Listed for wet locations. FCC compliant. Design Lights Consortium® (DLC) 5.1 Premium qualified product.

#### Efficacy

Up to 157 lumens per watt.

#### Ambient Temperature

Suitable for use in -40° C to 40° C (-40° F to 104° F).

#### CCT and CRI

Field selectable: 3000K, 4000K, and 5000K - 70 CRI

#### Electrical

Standard 120-277 VAC  
 HVU Option 347-480 VAC  
 0-10 V dimming driver.

#### Optics

Available in IES Type II, III, IV, and V distributions. Can conform to dark sky requirements.

### PERFORMANCE

Series Number	Power Percentage	Wattage	DIST. TYPE	CRI	3000K		4000K		5000K	
					LUMENS	LPW	LUMENS	LPW	LUMENS	LPW
ALF LS230	100%	140 W	III	70	19,200 Lm	143 Lm/W	23,000 Lm	164 Lm/W	21,000 Lm	150 Lm/W
	80%	120 W	III	70	18,000 Lm	150 Lm/W	20,000 Lm	167 Lm/W	18,500 Lm	154 Lm/W
	60%	90 W	III	70	14,000 Lm	156 Lm/W	15,500 Lm	172 Lm/W	14,500 Lm	161 Lm/W
	40%	60 W	III	70	9,700 Lm	162 Lm/W	10,600 Lm	177 Lm/W	10,000 Lm	167 Lm/W
ALF LS450	100%	300 W	III	70	41,000 Lm	137 Lm/W	45,000 Lm	150 Lm/W	42,000 Lm	140 Lm/W
	80%	240 W	III	70	35,000 Lm	146 Lm/W	38,500 Lm	160 Lm/W	36,000 Lm	150 Lm/W
	60%	180 W	III	70	28,000 Lm	156 Lm/W	30,000 Lm	167 Lm/W	28,500 Lm	158 Lm/W
	40%	120 W	III	70	19,200 Lm	160 Lm/W	21,500 Lm	179 Lm/W	20,000 Lm	167 Lm/W

# ALF G1



## CATALOGUE



### DARK BRONZE



Adjustable Pole mount

Catalog Number	Dist.	Description	Lumens	Watts	CCT	Voltage	Mount
ALF LS450 T3 G1 FSK PSC ASR	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 20,000 - 45,000 Lm	Selectable 120 - 300W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS230 T4 G1 FSK PSC ASR	T4	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 10,000 - 23,000 Lm	Selectable 60 - 140W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS230 T5 G1 FSK PSC ASR	T5	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 10,000 - 23,000 Lm	Selectable 60 - 140W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS450 T4 G1 FSK PSC ASR	T4	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 20,000 - 45,000 Lm	Selectable 120 - 300W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS450 T5 G1 FSK PSC ASR	T5	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 20,000 - 45,000 Lm	Selectable 120 - 300W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount



Slipfitter mount

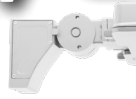
Catalog Number	Dist.	Description	Lumens	Watts	CCT	Voltage	Mount
ALF LS230 T3 G1 FSK PSC SFD	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 10,000 - 23,000 Lm	Selectable 60 - 140W	Selectable 3000K - 5000K	120V-277V	Included Slipfitter Mount
ALF LS450 T3 G1 FSK PSC SFD	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 20,000 - 45,000 Lm	Selectable 120 - 300W	Selectable 3000K - 5000K	120-277V	Included Slipfitter Mount
ALF LS230 T4 G1 FSK PSC SFD	T4	Area Light - 4 Level Wattage Adjustable, T4, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 10,000 - 23,000 Lm	Selectable 60 - 140W	Selectable 3000K - 5000K	120-277V	Included Slipfitter Mount
ALF LS230 T5 G1 FSK PSC SFD	T5	Area Light - 4 Level Wattage Adjustable, T5, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 10,000 - 23,000 Lm	Selectable 60 - 140W	Selectable 3000K - 5000K	120-277V	Included Slipfitter Mount
ALF LS450 T4 G1 FSK PSC SFD	T4	Area Light - 4 Level Wattage Adjustable, T4, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 20,000 - 45,000 Lm	Selectable 120 - 300W	Selectable 3000K - 5000K	120-277V	Included Slipfitter Mount
ALF LS450 T5 G1 FSK PSC SFD	T5	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 20,000 - 45,000 Lm	Selectable 120 - 300W	Selectable 3000K - 5000K	120-277V	Included Slipfitter Mount

Catalog Number	Dist.	Description	Lumens	Watts	CCT	Voltage	Mount
ALF LS230 T3 G1 HVU FSK	T3	Area Light - 4 Level Wattage Adjustable, Gen1, High Voltage	Selectable 10,000 - 23,000 Lm	Selectable 60 - 140W	Selectable 3000K - 5000K	347 - 480V	NOT INCLUDED
ALF LS450 T3 G1 HVU FSK	T3	Area Light - 4 Level Wattage Adjustable, Gen1, High Voltage	Selectable 20,000 - 45,000 Lm	Selectable 120 - 300W	Selectable 3000K - 5000K	347 - 480V	NOT INCLUDED

# ALF G1



## WHITE



Adjustable Pole mount



Slipfitter mount

Catalog Number	Dist.	Description	Lumens	Watts	CCT	Voltage	Mount
ALF LS230 T3 G1 FSK PSC ASR W	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap, White	Selectable 10,000 - 23,000 Lm	Selectable 60 - 140W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS450 T3 G1 FSK PSC ASR W	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap, White	Selectable 20,000 - 45,000 Lm	Selectable 120 - 300W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS230 T3 G1 FSK PSC SFD W	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap, White	Selectable 10,000 - 23,000 Lm	Selectable 60 - 140W	Selectable 3000K - 5000K	120-277V	Included Slipfitter Mount
ALF LS450 T3 G1 FSK PSC SFD W	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap, White	Selectable 20,000 - 45,000 Lm	Selectable 120 - 300W	Selectable 3000K - 5000K	120-277V	Included Slipfitter Mount



## BLACK

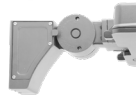


Adjustable Pole mount

Catalog Number	Dist.	Description	Lumens	Watts	CCT	Voltage	Mount
ALF LS230 T3 G1 FSK PSC ASR B	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap, Black	Selectable 10,000 - 23,000 Lm	Selectable 60 - 140W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS450 T3 G1 FSK PSC ASR B	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap, Black	Selectable 20,000 - 45,000 Lm	Selectable 120 - 300W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount



## SILVER GREY



Adjustable Pole mount

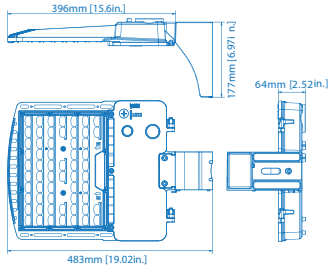
Catalog Number	Dist.	Description	Lumens	Watts	CCT	Voltage	Mount
ALF LS230 T3 G1 FSK PSC ASR SG	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap, Silver Grey	Selectable 10,000 - 23,000 Lm	Selectable 60 - 140W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS450 T3 G1 FSK PSC ASR SG	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap, Silver Grey	Selectable 20,000 - 45,000 Lm	Selectable 120 - 300W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount

# ALF G1

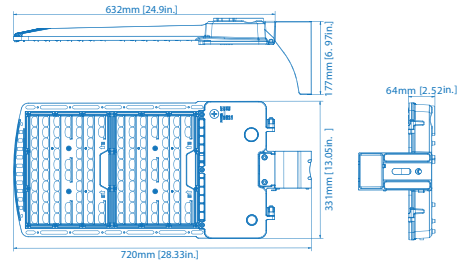


## ALF DIMENSIONS

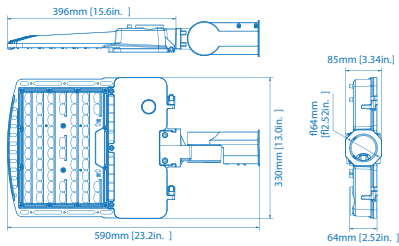
### ALF LS230 W/ Adjustable Pole Mount



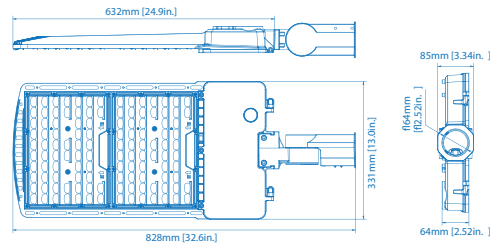
### ALF LS450 W/ Adjustable Pole Mount



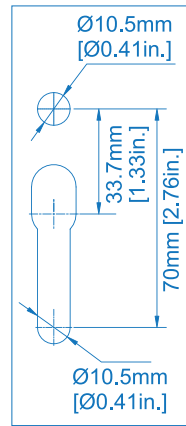
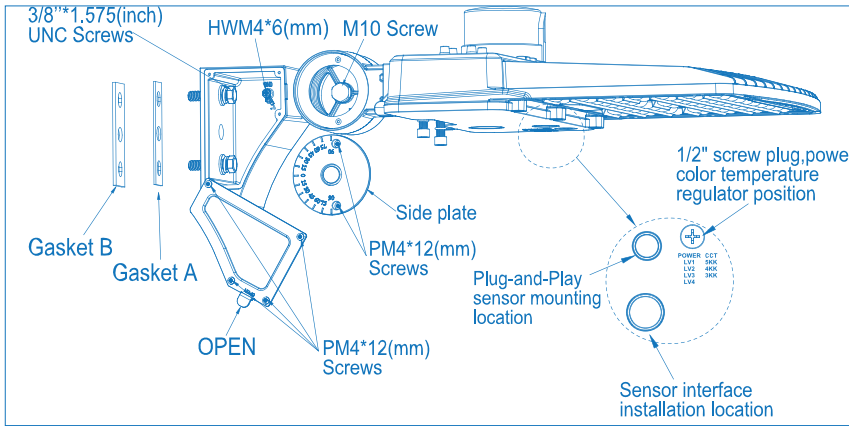
### ALF LS230 W/ Adjustable Slipfitter Mount



### ALF LS450 W/ Adjustable Slipfitter Mount



## MOUNTING DIMENSIONS

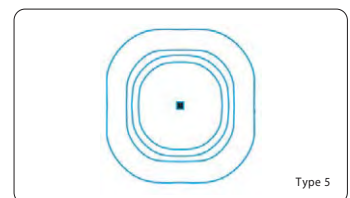
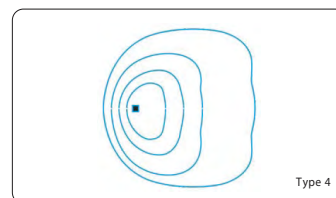
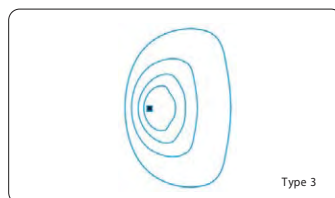
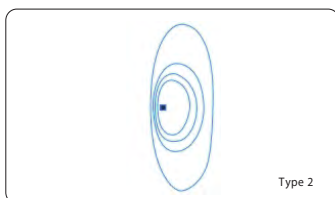


**ASR**  
Adjustable  
Square and  
Round Pole  
Mount



**SFD**  
Slipfitter  
Mount






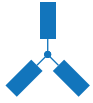

## PHOTOMETRIC



## ELECTRICAL LOAD

	Power Setting	Wattage	Current (A)					Current (A)	
			120V	208V	240V	277V		347V	480V
ALF LS230	Low	60 W	0.5	0.29	0.29	0.22	ALF LS230 HVU	0.17	0.13
	Med	85 W	0.71	0.41	0.41	0.31		0.24	0.18
	High	110 W	0.92	0.53	0.53	0.4		0.32	0.23
	Max	140 W	1.17	0.67	0.67	0.51		0.4	0.29
ALF LS450	Low	120 W	1	0.58	0.5	0.43	ALF LS450 HVU	0.35	0.25
	Med	180 W	1.5	0.87	0.75	0.65		0.52	0.38
	High	240 W	2	1.15	1	0.87		0.69	0.5
	Max	300 W	2.5	1.44	1.25	1.08		0.86	0.63

## EPA OF AREA LIGHT

ITEM							
140W	0.3632	0.6849	0.8861	0.7264	1.0481	1.2078	1.0481
300W	0.4758	0.8091	1.059	0.9516	1.2849	1.3923	1.2849

## BUG @5000K

MODEL #	SYSTEM WATTS	VOLTAGE	DIST. TYPE	B	U	G
ALF LS230 T3	140W	120-277V / 347-480V	III	3	0	3
ALF LS450 T3	300W	120-277V / 347-480V	III	4	0	4

## ACCESSORIES



**PSC**  
Twist-lock Photocell (120-277V)  
with shorting cap  
(ship with all 120-277V ALF models)



**PC-2**  
Twist-lock Photocell (480V)



**MSB-DCE-06-W**  
Plug-in Controller/Sensor



**FCB-DCE-02-W**  
Plug-in Node



## SHIPPING INFORMATION

Product number	Individual box size	Individual box weight	# per carton	# per pallet
ALF LS230	14.57"W x 22.05"L x 4.33"H	12.96 LBS	1	
ALF LS450	14.57"W x 32.28"L x 4.33"H	19.19 LBS	1	

## PROJECTED LUMINAIRE MAINTENANCE

### ALF LS230 G1 FSK (AT 140W)

LM-80 Testing Details	
Total number of units tested per case temp:	30
Number of failures:	0
Number of units measured:	30
Test duration (hours):	12,000
Tested drive current (mA):	120
Tested case temperature 1 (T <sub>c</sub> , °C):	85
Tested case temperature 2 (T <sub>c</sub> , °C):	105

Test Data for 85°C Case Temp	
Time (hours)	Lumen Maintenance (%)
0	100.00%
1,000	100.10%
2,000	99.87%
3,000	99.56%
4,000	99.14%
5,000	98.66%
6,000	98.24%
7,000	97.87%
8,000	97.54%
9,000	97.26%
10,000	96.93%
11,000	96.74%
12,000	96.58%

Test Data for 105°C Case Temp	
Time (hours)	Lumen Maintenance (%)
0	100.00%
1,000	99.68%
2,000	99.35%
3,000	98.90%
4,000	98.37%
5,000	97.81%
6,000	97.36%
7,000	96.94%
8,000	96.48%
9,000	96.01%
10,000	95.65%
11,000	95.10%
12,000	94.66%

Results	
Time (t) at which to estimate Lumen maintenance (hours):	50,000
Lumen maintenance at time (t) (%):	86.47%
Reported L70 (hours):	>72,000

## PROJECTED LUMINAIRE MAINTENANCE (CONTINUED)

### ALF LS450 G1 FSK (AT 300W)

LM-80 Testing Details	
Total number of units tested per case temp:	30
Number of failures:	0
Number of units measured:	30
Test duration (hours):	12,000
Tested drive current (mA):	120
Tested case temperature 1 (T <sub>c</sub> , °C):	85
Tested case temperature 2 (T <sub>c</sub> , °C):	105

Test Data for 85°C Case Temp	
Time (hours)	Lumen Maintenance (%)
0	100.00%
1,000	100.10%
2,000	99.87%
3,000	99.56%
4,000	99.14%
5,000	98.66%
6,000	98.24%
7,000	97.87%
8,000	97.54%
9,000	97.26%
10,000	96.93%
11,000	96.74%
12,000	96.58%

Test Data for 105°C Case Temp	
Time (hours)	Lumen Maintenance (%)
0	100.00%
1,000	99.68%
2,000	99.35%
3,000	98.90%
4,000	98.37%
5,000	97.81%
6,000	97.36%
7,000	96.94%
8,000	96.48%
9,000	96.01%
10,000	95.65%
11,000	95.10%
12,000	94.66%

Results	
Time (t) at which to estimate Lumen maintenance (hours):	50,000
Lumen maintenance at time (t) (%):	86.47%
Reported L70 (hours):	>72,000