

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

**ALF Large 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

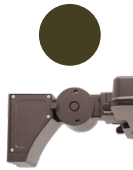
|                                                                                                                                           |                                                                       |                                                                                                                                                                                                                     |                                                                                                                |                                                                                                                                               |                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>Housing</b><br>One-piece, die-cast aluminum housing sealed against moisture and environmental contaminants - features PIN receptacle.  | <b>Mounting</b><br>Square/Round Pole and Slipfitter Mounting options. | <b>Lumen Output</b><br><b>Medium Area Light</b><br>Field selectable:<br>10,000 - 23,000 Lm.<br><b>Large Area Light</b><br>Field selectable:<br>LS450 model: 20,000 - 45,000 Lm.<br>LS600 model: 47,000 - 60,500 Lm. | <b>Electrical</b><br>Standard 120-277 VAC<br>HVV Option 347-480 VAC<br>0-10 V dimming driver.                  | <b>Warranty</b><br>5-year limited warranty. Comprehensive warranty terms can be located on <a href="http://www.slgus.com">www.slgus.com</a> . | <b>Certifications</b><br>UL Listed for wet locations. FCC compliant. Design Lights Consortium® (DLC) 5.1 Premium qualified product. |
| <b>Ambient Temperature</b><br>Suitable for use in -40° C to 45° C (-40° F to 113° F).<br>LS600 Model: -40° C to 40° C (-40° F to 104° F). | <b>Efficacy</b><br>Up to 162 lumens per watt.                         | <b>CCT and CRI</b><br>Field selectable: 3000K, 4000K, and 5000K - 70 CRI                                                                                                                                            | <b>Optics</b><br>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 LS600     | 100%             | 400 W   | III        | 70  | N/A       |          | 60,500 Lm | 151 Lm/W | 60,000 Lm | 150 Lm/W |
|               | 80%              | 360 W   | III        | 70  |           |          | 56,000 Lm | 156 Lm/W | 55,000 Lm | 153 Lm/W |
|               | 60%              | 320 W   | III        | 70  |           |          | 51,000 Lm | 159 Lm/W | 50,000 Lm | 156 Lm/W |
|               | 40%              | 300 W   | III        | 70  |           |          | 47,000 Lm | 162 Lm/W | 46,000 Lm | 159 Lm/W |

## CATALOGUE

### DARK BRONZE 120-277V



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 |
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| 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 |
| ALF LS600 T3 G1 FSK PSC ASR | T3    | Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap     | Selectable 47,000 - 60,500 Lm | Selectable 300 - 400W | Selectable 4000K - 5000K | 120-277V  | Included Adjustable Pole Mount |
| ALF LS600 T4 G1 FSK PSC ASR | T4    | Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap     | Selectable 47,000 - 60,500 Lm | Selectable 300 - 400W | Selectable 4000K - 5000K | 120-277V  | Included Adjustable Pole Mount |
| ALF LS600 T5 G1 FSK PSC ASR | T5    | Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap     | Selectable 47,000 - 60,500 Lm | Selectable 300 - 400W | Selectable 4000K - 5000K | 120-277V  | Included Adjustable Pole 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      |
| ALF LS600 T3 G1 FSK PSC SFD | T3    | Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap     | Selectable 47,000 - 60,500 Lm | Selectable 300 - 400W | Selectable 4000K - 5000K | 120-277V  | Included Slipfitter Mount      |
| ALF LS600 T4 G1 FSK PSC SFD | T4    | Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap     | Selectable 47,000 - 60,500 Lm | Selectable 300 - 400W | Selectable 4000K - 5000K | 120-277V  | Included Slipfitter Mount      |
| ALF LS600 T5 G1 FSK PSC SFD | T5    | Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap     | Selectable 47,000 - 60,500 Lm | Selectable 300 - 400W | Selectable 4000K - 5000K | 120-277V  | Included Slipfitter Mount      |



Slipfitter mount

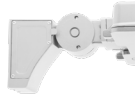
### DARK BRONZE HVU 347-480V

| 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 LS600 T3 G1 HVU FSK | T3    | Area Light - 4 Level Wattage Adjustable, Gen1, High Voltage | Selectable 47,000 - 60,500 Lm | Selectable 300 - 400W | Selectable 4000K - 5000K | 347 - 480V | NOT INCLUDED |

# ALF G1



## WHITE 120-277V



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 LS600 T3 G1 FSK PSC ASR W | T3    | Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap, White | Selectable 47,000 - 60,500 Lm | Selectable 300 - 400W | Selectable 4000K - 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 120-277V

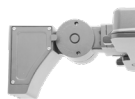


Adjustable Pole mount

| 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 |
| ALF LS600 T3 G1 FSK PSC ASR B | T3    | Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap, Black | Selectable 47,000 - 60,500 Lm | Selectable 300 - 400W | Selectable 4000K - 5000K | 120-277V | Included Adjustable Pole Mount |



## SILVER GREY 120-277V



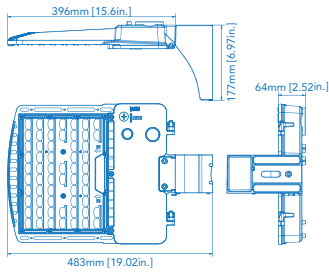
Adjustable Pole mount

| 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 LS600 T3 G1 FSK PSC ASR SG | T3    | Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap, Silver Grey | Selectable 47,000 - 60,500 Lm | Selectable 300 - 400W | Selectable 4000K - 5000K | 120-277V | Included Adjustable Pole Mount |

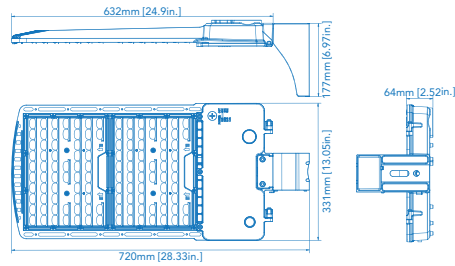
Type II and additional options available upon special request.

## ALF DIMENSIONS

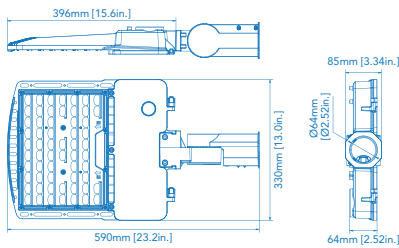
### ALF LS230 W/ Adjustable Pole Mount



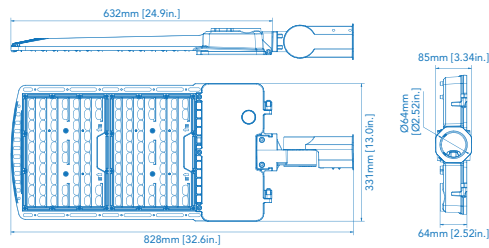
### ALF LS450/LS600 W/ Adjustable Pole Mount



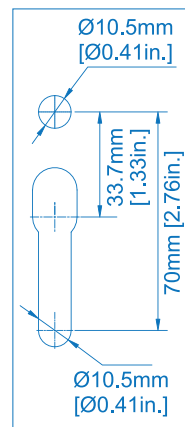
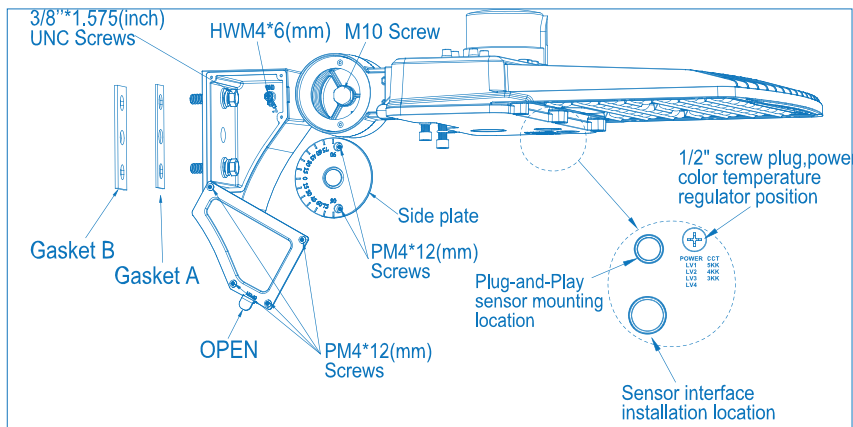
### ALF LS230 W/ Adjustable Slipfitter Mount



### ALF LS450/LS600 W/ Adjustable Slipfitter Mount



## MOUNTING DIMENSIONS

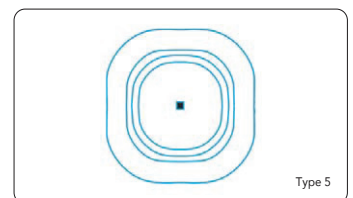
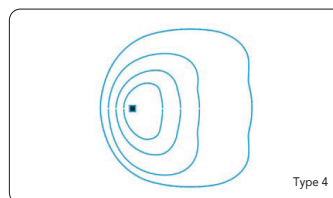
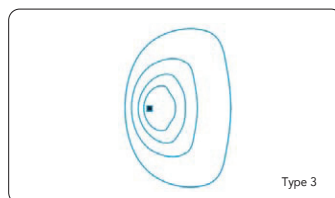
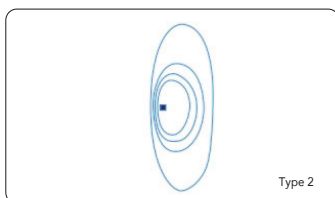


**ASR**  
Adjustable  
Square and  
Round Pole  
Mount



**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 |
| ALF LS600 | Low           | 300 W   | 2.5         | 1.4  | 1.25 | 1.1  | ALF LS600 HVU | 0.86        | 0.63 |
|           | Med           | 320 W   | 2.7         | 1.5  | 1.3  | 1.2  |               | 0.92        | 0.67 |
|           | High          | 360 W   | 3           | 1.7  | 1.5  | 1.3  |               | 1           | 0.75 |
|           | Max           | 400 W   | 3.3         | 1.9  | 1.7  | 1.4  |               | 1.2         | 0.83 |

## EPA OF AREA LIGHT

| ITEM        |  |  |  |  |  |  |  |
|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 140W        | 0.3632                                                                              | 0.6849                                                                              | 0.8861                                                                              | 0.7264                                                                              | 1.0481                                                                                | 1.2078                                                                                | 1.0481                                                                                |
| 300W / 400W | 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 |
| ALF LS600 T3 | 400W         | 120-277V / 347-480V | III        | 5 | 0 | 5 |



## ACCESSORIES



### PSC

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



### PC-2

Twist-lock Photocell (480V)



OSLG sync

### MSB-DCE-06-W

Plug-in Controller/Sensor

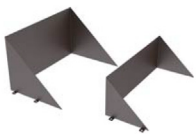


OSLG sync

### FCB-DCE-02-W

Plug-in Node

## GLARE SHIELDS



### ALF-EGS

External Glare Shields

| Catalog Number | Compatible Model | Finish      |
|----------------|------------------|-------------|
| ALF-M-EGS      | ALF LS230        | Dark Bronze |
| ALF-M-EGS-W    | ALF LS230        | White       |
| ALF-M-EGS-B    | ALF LS230        | Black       |
| ALF-M-EGS-SG   | ALF LS230        | Silver Grey |

| Catalog Number | Compatible Model  | Finish      |
|----------------|-------------------|-------------|
| ALF-L-EGS      | ALF LS450 / LS800 | Dark Bronze |
| ALF-L-EGS-W    | ALF LS450 / LS800 | White       |
| ALF-L-EGS-B    | ALF LS450 / LS800 | Black       |
| ALF-L-EGS-SG   | ALF LS450 / LS800 | Silver Grey |



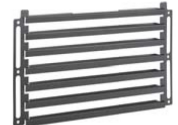
### ALF-HGS

Housing Side  
Glare Shields

| Catalog Number | Compatible Model | Finish      |
|----------------|------------------|-------------|
| ALF-M-HGS      | ALF LS230        | Dark Bronze |
| ALF-M-HGS-W    | ALF LS230        | White       |
| ALF-M-HGS-B    | ALF LS230        | Black       |
| ALF-M-HGS-SG   | ALF LS230        | Silver Grey |

| Catalog Number | Compatible Model  | Finish      |
|----------------|-------------------|-------------|
| ALF-L-HGS      | ALF LS450 / LS800 | Dark Bronze |
| ALF-L-HGS-W    | ALF LS450 / LS800 | White       |
| ALF-L-HGS-B    | ALF LS450 / LS800 | Black       |
| ALF-L-HGS-SG   | ALF LS450 / LS800 | Silver Grey |



### ALF-BLS

Back light control

| Catalog Number | Compatible Model  |
|----------------|-------------------|
| ALF-M-BLS      | ALF LS230         |
| ALF-L-BLS      | ALF LS450 / LS800 |

## 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            |              |
| ALF LS600      | 14.57"W x 32.28"L x 4.33"H | -                     | 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 |

### 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 |