

Airport**Lighting**Company



An ISO 9001:2015 Certified Company

Airfield Lighting Equipment

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An ISO 9001:2015 Certified Company

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Welcome



To Our Valued Customers:

For over 50 years, our primary goal has been to be one of the best providers of airfield lighting equipment in the industry.

Our success is verified by the thousands of loyal customers who rely on our products and services every day.

Thank you for your business,

John R. Ellerton

President

Our products include:

- Runway and Taxiway Lights
- Guidance Signs and Markers
- Transformers and Connectors
- PAPI and REILs
- Regulators
- Wind Cones and Beacons
- Radio Controllers and Interface Panels
- Switches, Fixtures and Accessories

Airport Lighting Company - Your first choice for airfield lighting equipment

- Exclusive IllumiShield® Customer Warranty ensures that you'll be 100% satisfied.
- Free, expert technical support from our highly experienced team.
- Access to professional product managers to assist you with planning.
- Huge inventory of lighting products and fast shipping to get you what you need on time and on schedule.



We Care About Our Customers

Airport Lighting Company stands behind every single product we sell. Our exclusive IllumiShield® Customer Warranty ensures you will be 100% satisfied.

If for any reason you're not happy, call us at (315) 682-6460 and we will resolve your problem the same day.

Products of Airport Lighting Company are guaranteed against mechanical, electrical and physical defects for one year from date of installation or two years from date of shipment, if they have been installed and used in accordance with factory



recommendations. New parts will be furnished in exchange for parts which have proved defective; shipping charges aren't covered by this warranty, nor are lamps or other consumables. Providing the new parts fulfills our obligation and liability, and we are not responsible for any damage beyond the price of our material. We assume no responsibility for the proper selection or installation of our products.

Products distributed by Airport Lighting Company that are manufactured by others are covered by the manufacturers' warranty.

We Value our Global Customers

At Airport Lighting Company, serving the needs of airfield lighting and navigational aids customers is our highest priority. We stand behind all the products we manufacture and offer our exclusive **IllumiShield Customer Warranty** on every product; in every order. Each product is subject to rigorous quality control inspections before shipment. It is this process and our customer service that distinguishes our company from our competitors worldwide.

This warranty guarantee is for Airport Lighting Company products and is in effect against mechanical, electrical or physical defects for one year from the date of installation or two years from the date of shipment from our plant. All LED products have a four-year warranty in accordance with US FAA requirements on the LED & LED Components. This guarantee applies to all products that were installed and used in accordance with factory, FAA and ICAO recommendations and have not been damaged due to negligence or force majeure. Please refer to our standard terms and conditions and return goods policy for further details.

Our Operational Guidelines

Airport Lighting Company is committed to global environmental sustainability and operates with conservation and preservation of natural resources as one of our primary guiding principles.

This guiding principle directs us in every facet of product development and product delivery. An example of is our product production and finishing process which eliminates the need for heavy metals and solvents. Further, our packaging is designed to produce a minimum of field waste and materials that might create hazards on airfields during construction are not used.

Quality and Testing

We serve a market where product performance is a safety issue on airfields. To meet those safety requirements and ensure the high quality and performance our products meet the standards set out by the FAA and ICAO and are ETL certified through third party testing. Before shipment, each product is put through a multi-step quality control process which includes hours of testing before any label of certification is placed on the product. This process will insure the installer and the end user of the highest level of product performance and a reduced concern of reliability.

We Welcome Your Inquiry

We are standing ready to meet your airfield lighting product requirements. Please contact us at (315) 682-6460 and you will be directed to the department that can address your needs. Or visit our website at **www.airportlightingcompany.com**



L-861 (L) LED Edge Light

An ISO 9001:2015 Certified Company

Compliances

Certified to FAA AC 150/5345-46 (Current Edition)
FAA Engineering Brief No. 67



Application

Runway Edge, Threshold/End, Non Precision Instrument Flight Rules, Displaced Threshold, Taxiway Edge, Apron Edge

Key Features

- The average LED life is 100,000 hours high intensity / 180,000 hours under typical operating conditions.
- Applicable for L-861T (L), L-861 (L) and L-861E (L) requirements
- Colored glass lens for easy day time recognition
- Double sealing system creates watertight head assembly
- Rugged solid state components
- Complies with intensity requirements on 3 or 5 step regulators
- Durable powder coat finish lasts longer
- Reduces power consumption
- Long life LEDs
- Cord set sealed to prevent insect entry
- Threaded 1.5" frangible coupling or optional 2" thread matches existing baseplates/stakes

General Catalog Numbers

ALC-861L-□□-□□-□

Lens Colors

BB=Blue
CC=Clear
CY=Clear/Yellow
GG=Green
GC=Green/Clear
GO=Green/Obscure
GY=Green/Yellow
RR=Red
RC=Red/Clear
RG=Red/Green
RY=Red/Yellow
YY=Yellow

Height

14=14"
20=20"
24=24"
30=30"
Other heights available

Options

2=Frangible coupling with 2" thread for 1" dia. column
5=Optional heater (6.6A only)
V=90-260 VAC *Not ETL certified

Example: ALC-861L-RG-24-5 is 24" high with a red/green lens and an optional heater



ALC-861L-RG-14



ALC-861L-BB-14



ALC-861L-CY-14



Specifications



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Head Assemblies

Includes housing, LED module, cord, and gasket

#861L-ZZ-XXLED

#861L-ZZ-XX-LW/LENS

#861L-ZZ-XX-V.....LED (Voltage)

ZZ = Fixture color

XX = Overall height of fixture -14", 20", 24" or 30" - other heights available

Connector Cords

#766L-XLED

X = Overall height of fixture -14", 20", 24" or 30" - other heights available

Lenses

#61L-XXLED

XX = Lens color

*Including ring

Columns

#61C-14 7" (14" overall height of fixture)

#61C-20 13" (20" overall height of fixture)

#61C-24 17" (24" overall height of fixture)

#61C-30 23" (30" overall height of fixture)

Other heights available

Other

#61-GSK..... Lens Gasket

#58Frangible Coupling

1.5" thread for 1" dia. column

#58-2Frangible Coupling

2" thread for 1" dia. column

Accessories

#34-16L-830-16 10/15W Transformer

#34-17L-830-17 20/25W Transformer

#34-1L-830-1 30/45W Transformer

#82-D4 ...L-823 Primary Connector Kit - #8 AWG

#82-S-D4.....L-823 Super Connector Kit

#71L-867B 12" baseplate 1.5" hub

#72 L-867B 12" baseplate 2" hub

#80 ..Heat shrink tubing - adhesive throughout

#81Heat shrink tubing - adhesive ends only

Volt / Amp Loads

Without Heater

| Color | VA Load* | Transformer Size |
|---------------|----------|------------------|
| Blue | 11.22 | 10/15W |
| Green/Obscure | 13.20 | 10/15W |
| Red/Green | 14.52 | 10/15W |
| Green/Yellow | 15.84 | 10/15W |
| Clear | 21.12 | 20/25W |
| Clear/Yellow | 21.12 | 20/25W |
| Green | 15.84 | 10/15W |
| Green/Clear | 15.84 | 10/15W |
| Red | 21.12 | 20/25W |
| Red/Clear | 21.12 | 20/25W |
| Red/Yellow | 21.12 | 20/25W |
| Yellow | 21.12 | 20/25W |

With Heater

| Color | VA Load* | Transformer Size |
|---------------|----------|------------------|
| Blue | 24.42 | 20/25W |
| Green/Obscure | 29.70 | 30/45W |
| Red/Green | 33.00 | 30/45W |
| Green/Yellow | 35.64 | 30/45W |
| Clear | 37.62 | 30/45W |
| Clear/Yellow | 37.62 | 30/45W |
| Green | 35.64 | 30/45W |
| Green/Clear | 35.64 | 30/45W |
| Red | 37.62 | 30/45W |
| Red/Clear | 37.62 | 30/45W |
| Red/Yellow | 37.62 | 30/45W |
| Yellow | 37.62 | 30/45W |

*VA loads are applicable for certified lights





Replacement Light Engine, Lens, and Driver Board Part Numbers

| Type | Color | Light Engine | Driver Board |
|-------|-----------------|--------------|-----------------|
| L861 | Clear | 861LEDMOD-CC | 61PCB-PWR-HC |
| L861 | Clear / Yellow | 861LEDMOD-CC | 61PCB-PWR-HC |
| L861 | Clear / Red | 861LEDMOD-CC | 61PCB-PWR-HC |
| L861 | Yellow | 861LEDMOD-CC | 61PCB-PWR-HC |
| L861 | Yellow / Red | 861LEDMOD-CC | 61PCB-PWR-HC |
| L861 | Green | 861LEDMOD-GG | 61PCB-PWR-LC-GG |
| L861 | Green / Clear | 861LEDMOD-GC | 61PCB-PWR-LC-GC |
| L861 | Green / Yellow | 861LEDMOD-GY | 61PCB-PWR-LC-GY |
| L861 | Red | 861LEDMOD-CC | 61PCB-PWR-HC |
| L861E | Red / Green | 861LEDMOD-RG | 61PCB-PWR-LC-RG |
| L861E | Green / Obscure | 861LEDMOD-GO | 61PCB-PWR-LC-GO |
| L861T | Blue | 861LEDMOD-BB | 61PCB-PWR-LC |





L-861 Medium Intensity Light

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Compliances

Certified to FAA AC 150/5345-46 (Current Edition)



Application

Runway Edge, Threshold/End, Non Precision Instrument Flight Rules, Displaced Threshold, Taxiway Edge, Apron Edge

Key Features

- ETL Certification ensures performance
- Available with choice of lamps - incandescent or quartz - 30W or 45W
- One piece housing for easy leveling
- Durable powder coat finish lasts longer
- Threaded 1.5" frangible coupling or optional 2" matches existing baseplates/stakes
- Actual average lamp life far exceeds 1000 hour rated life for fewer lamp changes
- Easy lamp changes with weatherproof clamp and gasket system
- Also available in 120V for economical initial installation
- Available in increased heights for Inclement weather visibility

General Catalog Numbers

216-□□-□-□□-□□-□

Wattage

30=30W
40=40W 120V
45=45W

Lamp Type

I=Incandescent
Q=Quartz
V=Voltage*

*Not ETL Certified

Colors

C=Clear
Y=Yellow
R=Red
G=Green
B=Blue
O=Opaque

Overall Height

14=14"
20=20"
24=24"
30=30"
Other heights available

Option

2=Frangible coupling with 2" thread for 1" dia. column



Example: 216-30-I-CY-24 is a 216 fixture with 30 Watt incandescent lamp, clear/yellow lens and 24" overall height



Specifications



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Head Assemblies

Includes housing, socket, cord, gasket and lens clamp.

#216-X..... Incandescent

#216Q-X..... Quartz

X = Overall height of fixture - 14", 20", 24" or 30" - other heights available

Lamp Sockets

#73-P..... Incandescent

#73-Q..... Quartz

Connector Cords

#766-X..... Incandescent

#766Q-X..... Quartz

X = Overall height of fixture - 14", 20", 24" or 30" - other heights available

Lenses

#50..... Green

#51..... Blue

#52..... Red

#54..... Yellow

#249..... Clear

#250..... Clear/Green

#251..... Clear/Red

#252..... Green/Opaque

#253..... Green/Yellow

#254..... Red/Yellow

#255..... Clear/Yellow

#256..... Red/Green

Columns

#77..... 6" (14" overall height of fixture)

#78..... 12" (20" overall height of fixture)

#78-16..... 16" (24" overall height of fixture)

#79..... 22" (30" overall height of fixture)

Other heights available.

Lamps

#100..... 30W Incandescent

#101..... 45W Incandescent

#100Q..... 30W Quartz

#101Q..... 45W Quartz

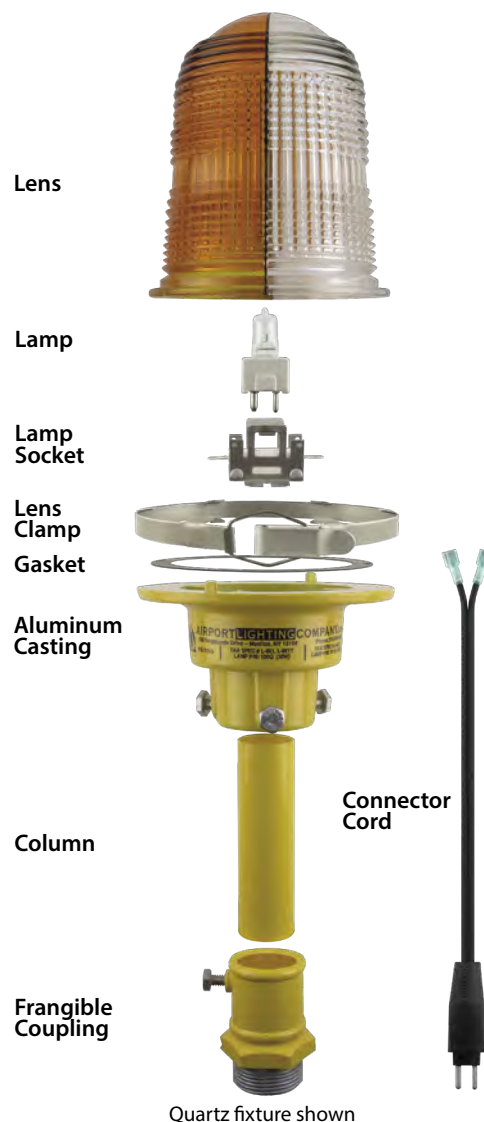
Accessories

#34-1..... L-830-1 30/45W Transformer

#82-D4..... L-823 Primary Connector Kit - #8 AWG

#71..... L-867B 12" diameter light base

#72..... L-867B 12" diameter base plate



Other

#61..... Lens Clamp

#62..... Lens Gasket

#58..... Frangible Coupling

1.5" thread for 1" dia. column

#58-2..... Frangible Coupling

2" thread for 1" dia. column



L-862 High Intensity Quartz Light



An ISO 9001:2015 Certified Company

Compliances

Certified to FAA AC 150/5345-46 (Current Edition)



Applications

Runway Edge, Threshold, Displaced Threshold, Threshold/End, Displaced Threshold Precision IFR Runways

Key Features

- ETL Certification ensures performance
- Easy lamp changes through thumbscrew system - no clamp band or inner/outer lens removal
- Durable powder coat finish lasts longer
- Threaded 1.5" frangible coupling or optional 2" matches existing baseplates/stakes
- Actual average lamp life far exceeds 1000 hour rated life for fewer lamp changes
- Available in increased heights for inclement weather visibility

Toe direction must be specified. Looking at the fixture from the runway center line the color on the left is listed first, followed by the color on the right.

General Catalog Numbers

213Q-□-□□□-□□-□□-□

Column Diameter

1=1"
2=2"

Wattage

150=150W
200=200W

Colors

C=Clear
Y=Yellow
R=Red
G=Green
B=Blue
O=Opaque

Overall Height

14=14"
20=20"
24=24"
30=30"
Other heights available

Option

2=Frangible coupling with 2" thread for 1" dia. column



Example: 213Q-1-200-RG-24 is a 213Q fixture with 1" column, 200W lamp, red/green and 24" overall height



Specifications



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Head Assemblies

Includes housing, socket, cord, gasket and lens clamp.

#213Q-X Quartz

#213Q-X-2 Quartz

X = Overall height of fixture -14", 20", 24" or 30" - other heights available. 1 inch column or 2 inch column.

Lamp Socket

#73Q Quartz

Outer Lenses

#248Q Clear

#248Q-CO Clear/Opaque*

#248Q-OC Opaque/Clear*

#256Q-GR Green/Red*

#256Q-RG Red/Green*

#52Q Red

#252Q-GO Green/Opaque*

#252Q-OG Opaque/Green*

* Toe direction must be specified. Looking at the fixture from the runway center line the color on the left is listed first, followed by the color on the right.

180° Inner Lenses

#57Q-B Blue

#57Q-C Clear

#57Q-G Green

#57Q-R Red

#57Q-Y Yellow

Lamps

#103 120W Quartz

#104 150W Quartz

#105 200W Quartz

Connector Cords

#766QS-X Quartz

X = Overall height of fixture -14", 20", 24" or 30" - other heights available

Columns

#77 6" (14" overall height of fixture)

#78 12" (20" overall height of fixture)

#78-16 16" (24" overall height of fixture)

#79 22" (30" overall height of fixture)

Other heights available

Other

#60Q Lens Clamp

#63Q Lens Gasket

#73Q Lamp Socket

Accessories

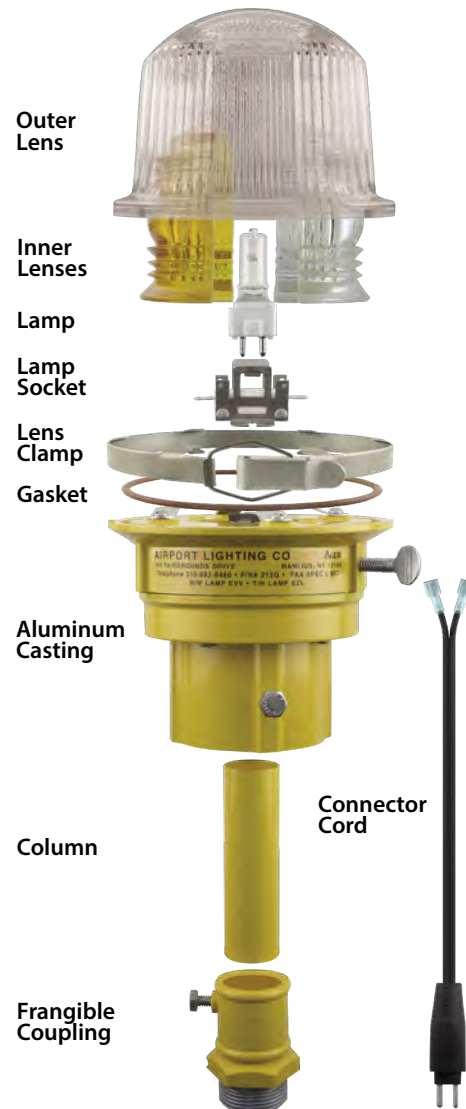
#34-18 L-830-18 150W Transformer

#34-6 L-830-6 200W Transformer

#82-D4 L-823 Primary Connector Kit - #8 AWG

#71 L-867B 12" diameter light base

#72 L-867B 12" diameter base plate



Other (con't)

#58 Frangible Coupling

1.5" Thread

#58-2 Frangible Coupling

2" Thread 1" EMT

#59-E Frangible Coupling

2" Thread 2" EMT



L-862 (L) High Intensity LED Light



An ISO 9001:2015 Certified Company

Compliances

Certified to FAA AC 150/5345-46 (Current Edition) and Engineering Brief No. 67



Applications

Runway Edge, Threshold, Displaced Threshold, Threshold/End, Displaced Threshold Precision IFR Runways

Key Features

- LEDs with expected life in excess of 56,000 hours.
- Light clarity ensured for years with glass lens.
- Dimmable to FAA intensity curve from 2.8 amp to 6.6 amps.
- Bidirectional fixtures use 65W, unidirectional fixtures use 45W
- Plug and Know circuit design. Dynamic controller senses the attached light engines, allowing for greater service flexibility.
- Daytime recognition provided on lens retainers.
- Leveling surface and sighting cross on cap eliminates the need for an aiming device.
- Fixture surface area designed to meet LED thermal requirements.



General Catalog Numbers

EHL-□□-□□

| Side A | Side B | Mounting Height |
|-------------|-------------|-----------------|
| W = White | W = White | 14 = 14" |
| Y = Yellow | Y = Yellow | 20 = 20" |
| R = Red | R = Red | 24 = 24" |
| G = Green | G = Green | 30 = 30" |
| O = Obscure | O = Obscure | |

Example: EHL-RG-24 is 24" high with Red on Side A and Green on Side B.

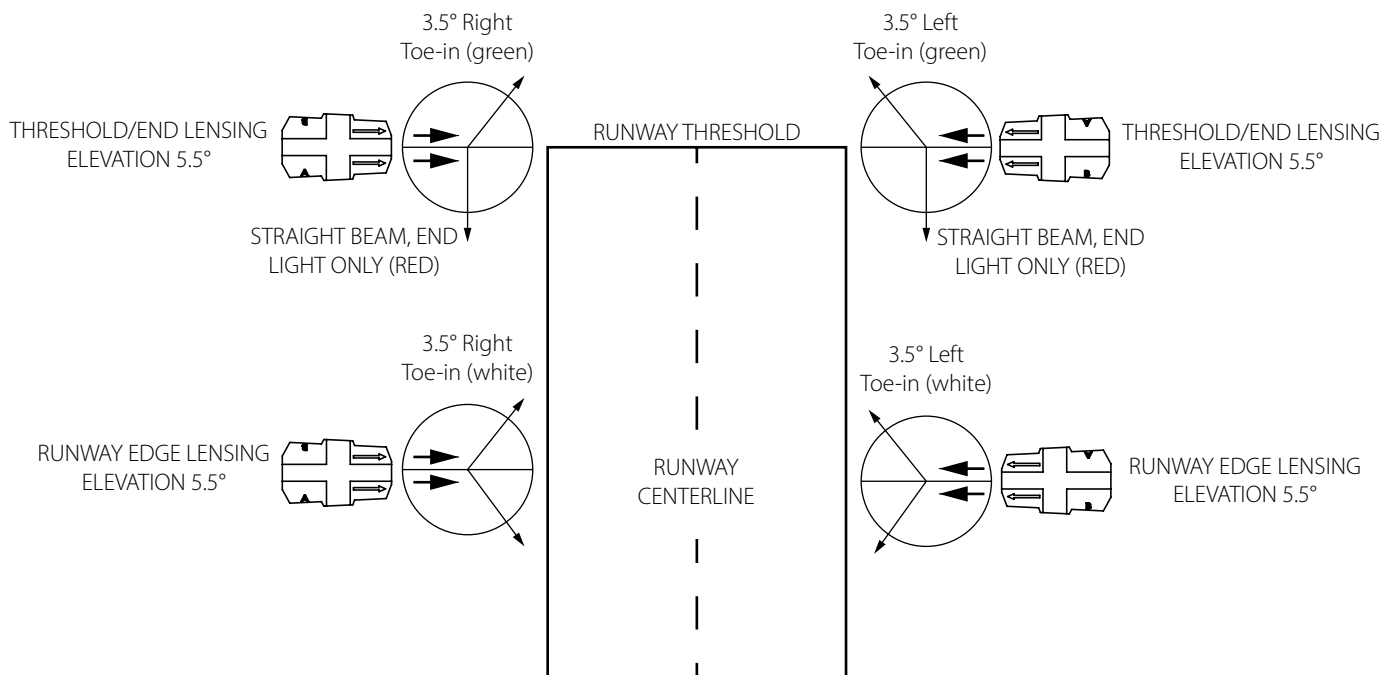


Dimensions & Weight

Height, head assembly: 6.8 inches
Height, w/ slip fitter: 8.9 inches
Width: 5.5 inches
Length: 5.2 inches
Weight: 7.2 pounds

The L862 fixtures ship in a single box (9 1/8 x 5 3/4 x 7) or in a case of 18 (18 x 17 x 16).

View runway edge lights from runway centerline perpendicular to fixture when determining color in conjunction with right-hand and left-hand fixtures. The first color will be on the left toe-in side if the light fixture.



L-804 LED Runway Guard Light



An ISO 9001:2015 Certified Company

Compliance

Certified to FAA AC 150/5345-46 (Current Edition),
Engineering Brief No. 67



Application

Helps increase visibility at the hold position, especially during inclement weather

Key Features

- ETL Certified ensures performance
- Uses two 21 W LED optical assemblies
- Average LED life of 50,000 hours
- Energy efficient LED lighting reduces circuit load
- Operates on FAA constant current regulators, either 3 or 5 step. 120V and 240V systems also available.
- Adjustable light beam elevation with positive locking in one-degree increments
- Minimum average intensity exceeds 3000 candelas
- Alternately flashes 45-50 times per minute
- Easy to maintain - no special tools required
- High-strength, powder coated frame and aluminum housing with stainless steel hardware
- Independent black signal head visors provide protection during inclement weather conditions and enhanced contrast during daylight operations
- 2-inch frangible column and tether with positive lock canting
- Supplied with tether and anti-rotation locking plate
- 300 MPH jet blast resistant
- Base unit supplied with a dry contact output for monitoring



Guard Light base plate
ordered separately

General Catalog Numbers

RGL- ☐ - ☐ - S - ☐

C=Mode 1 - 6.6A
V1=Mode 2 - 120VAC
V2=Mode 2 - 240VAC

Standard Height
U=Unmonitored
M=Monitored

Options
1 - On/Off Switch



L-804 LED Runway Guard Light



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Power Consumption

Mode 1 (on Ferro Resonant Regulator)

| Input | Power Factor | VA |
|-------|--------------|----|
| 6.6 | .9 | 64 |
| 5.2 | .9 | 33 |
| 4.1 | .9 | 21 |
| 3.4 | .9 | 16 |
| 2.8 | .9 | 13 |

Mode 1 (on SCR Regulator)

| Input | VA |
|-------|----|
| 6.6 | 59 |
| 5.2 | 40 |
| 4.1 | 23 |
| 3.4 | 18 |
| 2.8 | 20 |

Mode 2 (at 240V, 60Hz)

| Light Output | Watts |
|----------------|-------|
| Full Intensity | 37 |
| Low Intensity | 15 |

Replacement Parts

| Part # | Description | Compatible |
|--------|---------------------------------|------------|
| RGL-2 | Front Panel with Visors | Mode 1 & 2 |
| RGL-6 | 12" Base Plate for L-867B | Mode 1 & 2 |
| RGL-8 | Lens | Mode 1 & 2 |
| RGL-18 | LED Light Engine | Mode 1 & 2 |
| RGL-19 | Control Board | Mode 1 & 2 |
| RGL-20 | Power Supply, Voltage | Mode 2 |
| RGL-21 | Power Supply, Constant Current | Mode 1 |
| RGL-23 | Series Surge Arrestor | Mode 2 |
| RGL-25 | On/Off Switch, Constant Current | Mode 1 |
| RGL-26 | On/Off Switch, Voltage | Mode 2 |
| RGL-38 | Spanner Wrench | Mode 1 & 2 |
| RGL-41 | Photodiode Assembly | Mode 2 |
| RGL-50 | Frangible Colimn | Mode 1 & 2 |
| 34-4 | 100 Watt Isolation Transformer | Mode 1 |



L-893 (L) RCM-D Runway Closure Marker



An ISO 9001:2015 Certified Company

Compliance

Compliant with Standards:

FAA: AC 150/5345-55 (Current Edition); FAA: AC 150/5370-2 (Current Edition)

NTSB Safety Recommendation A-03-05



Application

This Hali-Brite RCM-D Runway Closure Marker is an effective method to warn pilots of closed runways and taxiways

Key Features

- Easily set up by one person in 2-3 minutes, without tools
- 3 year/3000 hour engine warranty
- Four folding arms open to 14 foot length
- 20 LED lamps deliver over 70,000 candelas at beam center
- Visible 10-25 miles from runway under VFR
- Selectable brightness levels to suit environmental conditions
- Photocell dimming for night operation
- Four rear-mounted lamps allow visual monitoring from rear side
- Powered by a three-cylinder, liquid cooled Mitsubishi diesel engine and Marathon brushless generator
- Operates 140 hours between fuel fills
- Highway towable with a standard 2" hitch coupler
- 2200 pound, DOT compliant trailer
- 4 swivel leveling jacks
- Adjustable light beam angle
- Optional rear hitch, allows tandem towing of 2 units
- Optional cover



L-893 (L) RCM-D Runway Closure Marker



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Set Up Procedure



1. Level as necessary using 4 leveling jacks



3. Tilt the light to the upright position



2. Extend the 4 light assembly arms



4. Start the generator and activate the lights

Trailer Specifications

- 2200 pound axle
- 2" ball or optional pintle hitch, safety chains
- Four 2000 lb. leveling jacks. Side jacks are on extendable 38" outriggers
- DOT-compliant tail and marker lights
- Tires - ST175/80 D13, highway-rated
- All steel tubing construction
- Width: 67 inches
- Length: 105 inches
- Height: 64 inches
- Total wet weight 1600 lbs.

Part Numbers

- | | |
|-------------------|-------------------------------|
| • RCM-DIESEL | Runway Closure Marker, Diesel |
| • RCM-COVER | RCM Cover |
| • RCM-REAR HITCH | RCM-D Rear Hitch Option |
| • M-OILDRAIN | Oil Drain Valve Kit |
| • M-SK171 | SK1171 Extended Service Kit |
| • RCM-ARM | CM Arm Assembly |
| • RCM-LED UPGRADE | RCM LED |

Light Assembly Specifications

- Arm length 14 feet when operating
- Hinged to generator housing, swings upright for use, swings to horizontal position when stowed
- Assembly arms fold to a 5'x5' square for transport and storage
- Arms constructed of 4"x4" extruded aluminum, with yellow epoxy powder-coat paint
- Twenty LED lamps mounted in front, plus 4 monitor lamps in rear, 24 total
- LED lamp, 20 degree beam width, rated life 50,000 hours typical
- Lamps flash 2.5 seconds on, 2.5 seconds off
- Solid-state flasher, no mechanical contacts
- Photocell automatically reduces intensity at night
- 2 year warranty on light assembly, 4 years on lamps
- Maximum Power: 630 watts, 643VA at 120VAC

Engine & Generator Specifications

- Engine: Mitsubishi L3E Diesel, 12.7 hp, 3-cylinder, liquid-cooled, 4-stroke, 1800 RPM, electric start
- Engine Warranty: 2 years/2000 hours on entire engine, 3 years/3000 hours on major components
- Glow plugs and elapsed hour meter
- Low oil/high temperature auto-shutdown
- Generator: Marathon Electric, 6.0 kW, 120 VAC, 4-pole, brushless
- Fuel tank capacity 57 gal., consumption 0.4 gph, 140 hour runtime

Weights & Dimensions

L-893 (L) RCM-D Runway Closure Marker

| Dimensions | Weight |
|------------------|-----------------------|
| 114" x 65" x 68" | 1450 lbs (palletized) |



L-853 Airport Reflective Edge Markers

An ISO 9001:2015 Certified Company

Compliances

Certified to FAA AC 150/5345-39 (Current Edition)



Application

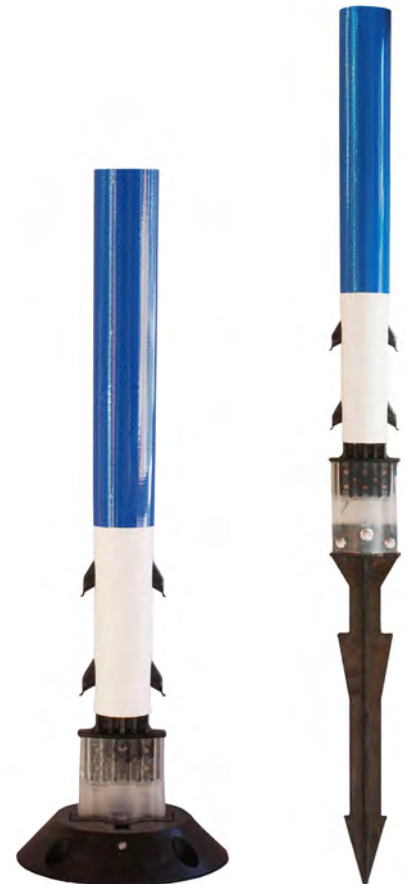
Retroreflective airport markers are used to mark airport taxiways, runway edges, ends and thresholds.

Key Features

- Self-erecting when struck by a vehicle
- Resistant to ultraviolet light, ozone, and hydrocarbons
- Polypropylene post remains dimensionally stable from -4° F (brittleness point) to 329° F (melting point)
- Ground driven posts are capable of being mowed over by a standard DOT flail or sickle mower (special attachment required).
- Manufactured in the USA by Flexstake

Specifications

- Height: 14", 19", 24", 30", 36"
- Anchor: Soil Anchor
- Weight: 2.5 lbs (approximate)
- Post colors: White, blue or yellow (custom colors available)
- Reflective colors: 14" wrap for top of post available in blue, white, red or green reflective sheeting (custom colors available)



General Catalog Numbers

| A | | - | | - | | - | |
|--|---------|---|------------------|---|--------------------|---|--|
| 65=Soil Anchor Type 75=Surface Mount Type | | | | | | | |
| | Height | | Reflective Color | | Post Color | | |
| | OW=14" | | B=Blue | | W=White (Standard) | | |
| | 1=19" | | W=White | | B=Blue | | |
| | 2=24" | | R=Red | | Y=Yellow | | |
| | 2.5=30" | | G=Green | | | | |
| | 3=36" | | Y=Yellow | | | | |

Example: A65-OW-B-B is an L-853 Soil Anchor Type 14" OAH Blue with Blue Post



L-880/L-881 Precision Approach Path Indicator Lighting (PAPI)



An ISO 9001:2015 Certified Company

Compliances

Certified to FAA AC 150/5345-28 (Current Edition)



Intertek

Application

This system enhances safety by providing visual approach slope guidance to assist the pilot of an aircraft in flying a stabilized approach.

Key Features

- Reliable photometric performance
- Stable housing results in fewer shut-downs for realignment, reducing maintenance and increasing airfield utilization
- LED indicator identifies tilt switch circuit fault
- Quartz halogen average rated lamp life is 1000 hours
- No optical bench or special tools required for servicing
- Intuitive design of digital aiming/tilt sensor simplifies setting elevation angles
- Interlock feature allows PAPI operation only in conjunction with runway lights (optional)
- Service indicator provides external signal of lamp out (optional)



General Catalog Numbers

□□□-□-2-□

FAA Type
880=4 light units
881=2 light units

FAA Style
V=Voltage
C=Current 6.6A
FAA Class
Down to -55°C

Options

- 1=Runway Interlock (voltage only)
- 2=External Service Indicator
- 3=Baffle*
- 4=4-leg light units**

* Baffles are field adjustable to modify the horizontal light distribution

** Standard system has 3 legs per light unit

Replacement Parts

| Part # | Description | PAPI Model |
|---------|--------------------------------|--------------|
| 59-E | Frangible Coupling | Styles A & B |
| 106 | PAPI Lamp 105W | Styles A & B |
| 88-4V75 | VPAPI Printed Circuit Board | Style A |
| 88-3C31 | CPAPI Printed Circuit Board | Style B |
| 88-7A00 | Aiming Device with Case | Styles A & B |
| 88-6A40 | Digital Aiming/Tilt Sensor | Styles A & B |
| 88-6A50 | Digital Tilt Sensor Retro Kit* | Styles A & B |

Note: Current Driven Model (Style B) uses 300W Transformer

*Replaces either 88-6V02 or 88-6C01 tilt switches



L-849 (L) Runway End Identification Light LED REIL – SAL 1030



An ISO 9001:2015 Certified Company

Compliances

Certified to FAA AC 150/5345-51 (Current Edition)
FAA Engineering Brief No. 67 (Current Edition)



As Manufactured by:



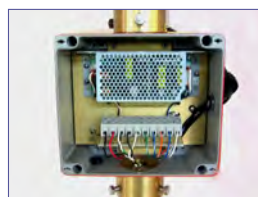
Certified strobe
systems since 2003.

Application

LED REIL provides a visual indication to pilots of the runway threshold during an approach.

Key Features

- Superior quality and unmatched technical support
- Low Power Draw - entire system draws less than 40 Watts
- Nominal intensity - 22,000 effective candelas
- Beam Coverage - 10° vertically, 30° horizontally
- Flash rate: two flashes per second
- Separation: Control unit can be mounted in excess of 500 feet from flash head
- Remote Control: Four-position selector switch or Series Lighting Circuit current sensing
- Meets photometric beam requirements for MALSR, SSALR, and ALSF-I / II
- Voltage-powered
 - 120 VAC, 50 Hz or 60 Hz
 - 230 VAC, 50Hz
 - 240 VAC, 50Hz or 60 Hz
- Current-powered
 - 2.8 to 6.6 amperes
 - No power adapter required
 - True RMS current sensing
 - Operates from (2) L-830-4s



General Catalog Numbers

All units have co-mounted flash heads unless specified with Option 6

SAL 1030 - □□-□-□

Type
V 1 = 120VAC
V 2 = 240V, 60Hz
V 3 = 230V, 50Hz
I = 6.6A

Styles

- A - Uni-directional, high intensity, one brightness step
- C - Uni-directional, low intensity, one brightness step
- E - Uni-directional, three brightness steps

Options

- 1 - Elapsed Time Meter
- 2 - Current sense module (voltage units only)
- 4 - Flash Monitoring
- 6 - Separate Mount Flash Head (Specify Quantity)

Standard Options Available

- 50 or 60 Hz
- Flash monitoring
- Elapsed time meter
- Internal heater kit
- Error code LED display





Replacement Parts

| Description | Part Number |
|----------------------------|-------------|
| Printed Circuit Board, LSM | 344-30105 |
| Printed Circuit Board, CSM | 255-20086 |
| Flash Head | 344-40520 |
| Diode Bridge | 44-00174 |
| Fuse | 55-00267 |
| Gas Discharge Tube | 44-00177 |
| 24 Vdc Power Supply | 44-00175 |
| 50 Vdc Power Supply | 44-00176 |
| Interlock Switch | 55-00201 |

Recommended Installation Control Cable:

12 Gauge Twisted Pair, shielded with the shielding tied on only one end.

Applications

| | |
|----------------|---|
| REILS | Runway end identifier light system |
| MALSR | Medium intensity approach lighting systems with runway alignment indicator lights |
| ALSF-I | Approach Lighting System with Sequenced Flashing Lights (Cat. 1 runways) |
| ALSF-II | Approach Lighting System with Sequenced Flashing Lights (Cat. 2 runways) |
| SSALR | Simplified Short Approach Lighting System with Runway Alignment Indicator Lights |

Physical Specifications

Head and Power Supply: 24.75"H x 14.25"W x 5.58"D

Weight (Head & Power Supply): 32lbs.

Master Control Unit: 6.5"H x 13.5"W x 12"D

Weight (MCU): 10.5lbs.

System Ship Weight: 74.5lbs

Photometrics Data

| Model | Style | Type | FPM | Effective Intensity | | |
|----------|-------|----------|-----|---------------------|------|-----|
| | | | | High | Med | Low |
| SAL 1030 | A | L-849V,I | 120 | 15,000 | - | - |
| SAL 1030 | C | L-849V,I | 120 | - | - | 700 |
| SAL 1030 | E | L-849V,I | 120 | 15,000 | 1500 | 300 |



L-849 REIL Runway End Identification Lights



An ISO 9001:2015 Certified Company

Compliances

Certified to FAA AC 150/5345-51 (Current Edition)

Applications

- REILS** Runway end identifier light system
- MALSR** Medium intensity approach lighting systems with runway alignment indicator lights
- ALSF-I** Approach Lighting System with Sequenced Flashing Lights (Cat. 1 runways)
- ALSF-II** Approach Lighting System with Sequenced Flashing Lights (Cat. 2 runways)
- SSALR** Simplified Short Approach Lighting System with Runway Alignment Indicator Lights

Key Features

- Low annual energy costs
- Five year flash lamp life expectancy
- High, medium and low intensity
- Master / Drone system operation
- Universal, field-programmable timing board
- Field programmable sequence timing
- Meets photometric beam requirements for MALSR, SSALR, and ALSF-I / II

General Catalog Numbers

All units have co-mounted flash heads unless specified with Option 6

L849 - ☐ ☐ - ☐ - ☐

Type
V 1 = 120VAC
V 2 = 240V, 60Hz*
V 3 = 230V 50Hz*
I = 6.6A *FAA Compliant

Styles

- A - Uni-directional, high intensity, one brightness step
- B - Omni-directional, high intensity, one brightness step
- C - Uni-directional, low intensity, one brightness step
- D - Omni-directional, low intensity, one brightness step
- E - Uni-directional, three brightness steps
- F - Omni-directional, three brightness steps

Options

- 1 - Elapsed time meter
- 2 - Current sense module (voltage units only)
- 3 - Baffles
- 4 - Flash monitoring
- 5 - Master control in separate cabinet
- 6 - Separate mount flash head (specify quantity)
- 7 - Red filters (omni only)
- 8 - Light shields (specify degrees coverage)



Intertek

As Manufactured by:



Certified strobe systems since 2003.



Uni Co-mounted



Omni Co-mounted

Standard Options Available

Co-mounted or Separate mounted flashhead
Uni-directional or Omni-directional
50 or 60 Hz
Flash monitoring
Elapsed time meter
External master controller



Photometric Data

| P/N | FPM | Effective Intensity | | |
|------------|-----|---------------------|------|-----|
| | | High | Med | Low |
| L-849-I-A | 120 | 15000 | - | - |
| L-849-VX-A | 120 | 15000 | - | - |
| L-849-I-B | 60 | 5000 | - | - |
| L-849-VX-B | 60 | 5000 | - | - |
| L-849-I-E | 120 | 15000 | 1500 | 300 |
| L-849-VX-E | 120 | 15000 | 1500 | 300 |
| L-849-I-E | 60 | 5000 | 1500 | 300 |
| L-849-VX-E | 60 | 5000 | 1500 | 300 |

Physical Specifications

| | |
|----------------------------|-------------------------------------|
| Uni Flashhead | 11.5H x 8.5W x 7D (292 x 216 x 178) |
| Weight | 4.5 lbs. (2 kg) |
| Omni Flashhead | 15H x 13.5 Dia. (381 x 343) |
| Weight | 8.4 lbs. (3.8 kg) |
| Master Power Supply | 8H x 16W x 14D (203 x 406 x 356) |
| Weight | 51 lbs. (23.2 kg) |
| Drone Power Supply | 8H x 16W x 14D (203 x 406 x 356) |
| Weight | 47 lbs. (21.3 kg) |
| Uni Co-Mounted | 19.5H x 16W x 14D (495 x 406 x 356) |
| (FHUD-109 & PSUV-101) | |
| Weight | 56.5 lbs. (25.7 kg) |
| Omni Co-mount | 23H x 16W x 14D (584 x 406 x 356) |
| Weight | 59.4 lbs. (27kg) |

Equipment Data

| | |
|------------------------|-----------------------------------|
| Control | Remote, local, or automatic |
| Current (rms Amps) | 2.8 to 6.6 |
| Power (Watts) | 150 Average; 290 Peak |
| Flash Rate | 60/120 fpm |
| Uni Nominal Intensity | High: 15000, medium 1500, low 300 |
| Omni Nominal Intensity | High: 5000, medium 1500, low 300 |
| Uni Beam Spread | 30° horizontal 10° vertical |
| Omni Beam Spread | 360° horizontal 8° vertical |

Spare Components

| Description | Part Number |
|-------------------------------------|-------------|
| Timing & Control Board | 255-20079 |
| HV Rectifier Board for Voltage Unit | 255-20081 |
| HV Rectifier Board for Current Unit | 255-20082 |
| Current Sensing Board | 255-20086 |
| Trigger Transformer | 55-00027 |
| Uni Flash Tube (Par 56) | 55-00145 |
| Omni Flash Tube | 55-00360 |



Uni Flashhead



Omni Flashhead



Power Supply Models (L-849 Styles A and E)

255-20001/2 (Voltage-powered)

255-20003/4 (Current-driven)

**Note above power supplies can be used in sequential flashing configurations (MALSR, ALSF-I/II, SSALR)*

Power Supply Models (L-849 Styles B and F)

255-20005/6 (Voltage-powered)

255-20007/8 (Current-powered)

Specifications

Current-Powered

2.8 to 6.6 amperes

Operates directly from (2) L-830-10s

No power adapter required

True RMS current sensing

Current sensing set-up required at the Master Unit Only

Voltage-Powered

120 VAC, 60 Hz | 240 V, 60 Hz | 230 V, 50 Hz

Optional Current-Sensing Module for intensity control

L-859 Omni-Directional Lighting System (ODALS)



An ISO 9001:2015 Certified Company

Compliances

Certified to FAA AC 150/5345-51 (Current Edition)



As Manufactured by:



Certified strobe systems since 2003.

Application

The primary application of a REIL system is to positively identify the end or the threshold of a visual or instrument non-precision runway. A REIL system consists of two synchronized flashing lights. One flasher unit is located at each side of the runway threshold.

Key Features

- Lower cost of ownership
- Five year flash lamp life expectancy
- High, medium and low intensity
- Master / Drone system operation
- Robust master control signal
- Field programmable sequence timing
- Common timing board used in Master and Drone units

General Catalog Numbers

All units have co-mounted flash heads unless specified with Option 6

L859-□□ - F - □

| | Type |
|---|-----------------|
| V | 1 = 120Vac |
| V | 2 = 240V, 60Hz* |
| V | 3 = 230V 50 Hz* |
| I | = 6.6A |
| | *FAA Compliant |

Options

F - Omni, three brightness steps

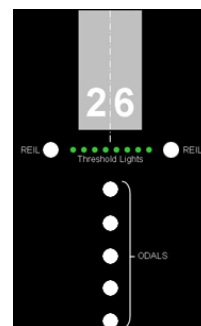
Options

- 1 - Elapsed time meter
- 2 - Current sense module (voltage units only)
- 3 - Baffles
- 4 - Flash monitoring
- 5 - Master control in separate cabinet
- 6 - Separate mount flash head (specify quantity)
- 7 - Red filters
- 8 - Light shields (specify degrees coverage)

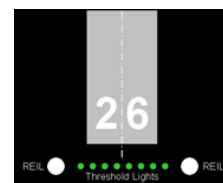


Co-Mounted Unit

Applications



Omni-directional approach light system (ODALS)



Runway end identifier light system (REILs)



Photometric Data

| Type | FPM | Effective Intensity | | |
|------------|-----|---------------------|------|-----|
| | | High | Med | Low |
| L-859-I-F | 60 | 5000 | 1500 | 300 |
| L-859-VX-F | 60 | 5000 | 1500 | 300 |



Flashhead



Co-Mounted Unit

Physical Specifications

| | |
|---------------------|-----------------------------------|
| Omni Flashhead | 15H x 13.5 Dia. (381 x 343) |
| Weight | 8.4 lbs. (3.8 kg) |
| Master Power Supply | 8H x 16W x 14D (203 x 406 x 356) |
| Weight | 51 lbs. (23.2 kg) |
| Drone Power Supply | 8H x 16W x 14D (203 x 406 x 356) |
| Weight | 47 lbs. (21.3 kg) |
| Omni Co-mount | 23H x 16W x 14D (584 x 406 x 356) |
| Weight | 59.4 lbs. (27kg) |



Power Supply Models (Style F)
255-20005/6 (Voltage-powered)
255-20007/8 (Current-powered)

Equipment Data

| | |
|--------------------|---|
| Control | Remote, local, or automatic |
| Current (rms Amps) | 2.8 to 6.6 5.2 Amps min. required for High intensity |
| Power (Watts) | 150 Average; 290 Peak |
| Flash Rate | 60 p/m |
| Nominal Intensity | High: 5000 Med: 1500 Low: 300 |
| Beam Spread | 360° Horizontal, 8° Vertical |

Specifications

Current-Powered

- 2.8 to 6.6 amperes
- Operates directly from an L-830-10 isolation transformer
- No power adapter required
- True RMS current sensing
- Current sensing set-up required at the Master Unit Only

Voltage-Powered

- 120 VAC, 60 Hz | 240 V, 60 Hz | 230 V, 50 Hz
- Optional Current-Sensing Module for intensity control

Spare Components

| Description | Part Number |
|-------------------------------------|-------------|
| Timing & Control Board | 255-20079 |
| HV Rectifier Board for Voltage Unit | 255-20081 |
| HV Rectifier Board for Current Unit | 255-20082 |
| Current Sensing Board | 255-20086 |
| Trigger Transformer | 55-00027 |
| Omni Flash Tube | 55-00360 |

Standard Options Available

- Co-mounted or Separate mounted flashhead
- 50 or 60 Hz
- Flash monitoring
- Elapsed time meter
- External master controller

L-810 Low Intensity Obstruction Light



An ISO 9001:2015 Certified Company

Compliances

FAA AC150/5345-43G for L-810 Steady-burning
Red Obstruction Light
FAA Engineering Brief No. 67D

Application

For marking top of obstacles that do not exceed 150 feet (45 metres) in height

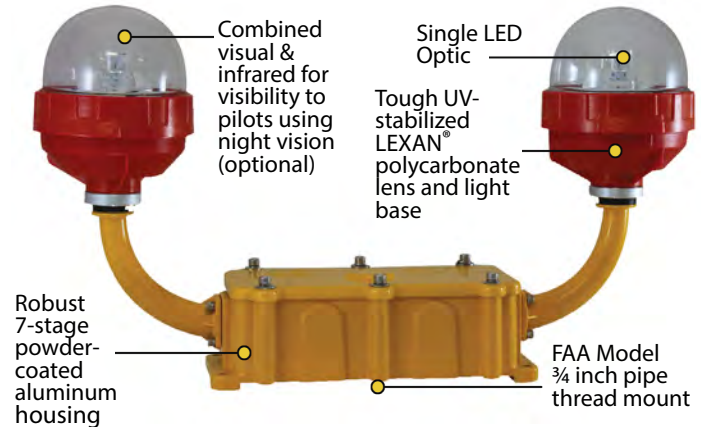
Key Features

- Available in universal DC: will accept between 12-48VDC
- Available in universal AC: will accept between 110-240VAC 50/60Hz
- User-adjustable operation mode to toggle between dusk-till-dawn & 24hr operation
- Dual light fixture enables simultaneous twin operation or redundant failsafe
- Alarm contact for remote monitoring
- Light sensor for day/night operation
- Optional RS422/485 communications port available
- Optional combined visual/IR for pilots using NVG

This dual light fixture is a steady burning, low intensity LED obstruction light that complies with FAA L-810 requirements. It can be used to mark obstacles up to 150 feet above ground which pose a danger to aircraft at night, such as telecommunication towers, wind turbines, buildings and other tall structures.

Both lights can be set to steady-burning or as a main light with a standby light. If the main light fails, the standby will automatically switch on to ensure the obstacle is always clearly marked.

An advanced optic uses a single LED for minimal power consumption. The corrosion resistant, polycarbonate lens is specifically designed for use with LEDs to maximize light intensity and uniformity. Integrated sensors in the light are able to detect when the ambient light threshold drops sufficiently and the light will begin operation automatically.



The light fixture incorporates internal diagnostic checking and an alarm contact for remote monitoring. Typically the alarm relay is energised in normal operation and is released if there is an LED or power fault.

All obstruction lights also have an adjustable operation mode setting to allow the user to easily toggle between dusk-till-dawn and 24 hour operation modes.

The obstruction light is also available with combined visual and infrared (IR) for visibility to pilots using night vision.

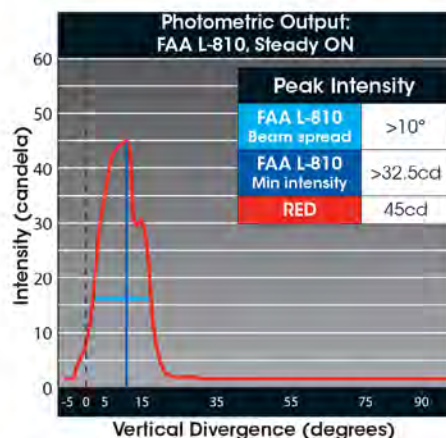
Optional GSM Monitoring

The Avlite dual obstruction light (VDC model) is available with GSM Cell-Phone Monitoring, to enable remote monitoring of light status. The system can also be configured to send out SMS text messages or e-mail alerts should alarm conditions be triggered, such as low voltage or light failure.



| SPECIFICATIONS** | FAA L-810 LIOL Dual Fixture | |
|-----------------------------------|---|--|
| | 12-48 VDC | 110-240 VAC |
| Light Characteristics | | |
| Light Source | As tested: FAA: AV-OL-FL810-12-R LED | As tested: FAA: AV-OL-FL810-UM-R LED |
| Available colors | Red as standard. Other colors available on request, including IR | Red as standard. Other colors available on request, including IR |
| Peak Intensity (cd)† | Complies with FAA L-810 obstruction lights | Complies with FAA L-810 obstruction lights |
| Horizontal Output (degrees) | 360 | 360 |
| Vertical Divergence (degrees) | as per FAA L-810 obstruction light specification | as per FAA L-810 obstruction light specification |
| Reflector Type | Single LED Optic | Single LED Optic |
| Intensity Adjustments | 32.5cd | 32.5cd |
| Operation Mode Adjustment | User-adjustable between dusk-till-dawn & 24 hour operation | User-adjustable between dusk-till-dawn & 24 hour operation |
| LED Life Expectancy (hours) | >100,000 | >100,000 |
| Electrical Characteristics | | |
| Failover Configuration @ 12V: | | |
| Current Draw (mA)‡ | FAA L-810 @ 32.5cd Steady-on with relay energised; I _{max} = 120 | n/a |
| Power (W)‡ | FAA L-810 @ 32.5cd Steady-on with relay energised & IR: P _{max} = 1.44 | FAA L-810 @ 32.5cd Steady-on with relay energised; P _{max} = 3 S _{max} = 12VA |
| Dual Lit Configuration @ 12V: | | |
| Current Draw (mA)‡ | FAA L-810 @ 32.5cd Steady-on with relay energised; I _{max} = 240 | |
| Power (W)‡ | FAA L-810 @ 32.5cd Steady-on with relay energised & IR: P _{max} = 2.88 | FAA L-810 @ 32.5cd Steady-on with relay energised; P _{max} = 6 S _{max} = 24VA |
| Circuit Protection | Integrated | Integrated |
| Operating Voltage | 12 - 48 VDC | 110 - 240 VAC 50/60Hz |
| Temperature Range | -40 to 80°C | -40 to 80°C |
| Physical Characteristics | | |
| Body Material | 7-stage powder-coated aluminium | 7-stage powder-coated aluminium |
| Lens Material | LEXAN® Polycarbonate - UV stabilized | LEXAN® Polycarbonate - UV stabilized |
| Lens Diameter (mm/inches) | 100 / 3 7/8 | 100 / 3 7/8 |
| Lens Design | Single LED Optic | Single LED Optic |
| Mounting | FAA Model: 1/2 inch pipe thread | FAA Model: 1/2 inch pipe thread |
| Height (mm/inches) | FAA Model: 272 / 10 3/4 | FAA Model: 272 / 10 3/4 |
| Width (mm/inches) | 481 / 19 | 481 / 19 |
| Mass (kg/lbs) | 2.3 / 5 | 2.3 / 5 |
| Product Life Expectancy | Up to 12 years | Up to 12 years |
| Environmental Factors | | |
| Humidity | 0 to 100%, MIL-STD-810F | 0 to 100%, MIL-STD-810F |
| Iceing | 22kg per square inch | 22kg per square inch |
| Wind Speed | Up to 240kph | Up to 240kph |
| Certifications | | |
| CE | EN61000-6-3:2007 EN61000-6-1:2007 | EN61000-6-3:2007 EN61000-6-1:2007 |
| Quality Assurance | ISO9001:2008 | ISO9001:2008 |
| FAA | L-810 Steady-burning Red Obstruction Light | L-810 Steady-burning Red Obstruction Light |
| Waterproof | IP67 | IP67 |
| Intellectual Property | | |
| Trademarks | AVLITE® is a registered trademark of Avlite Systems | AVLITE® is a registered trademark of Avlite Systems |
| Warranty* | | |
| Options Available | | |
| | 4 year warranty | 4 year warranty |
| | • Variety of solar/battery configurations | • Variety of solar/battery configurations |
| | • GSM Cell-Phone Monitoring | • Dual visual/IR output |
| | • IR LED | • IR LED |
| | • RS422/485 communications port | |

- * Specifications subject to change or variation without notice
 • Subject to standard terms and conditions
 † Intensity setting subject to solar availability
 ‡ When used in redundant failsafe mode

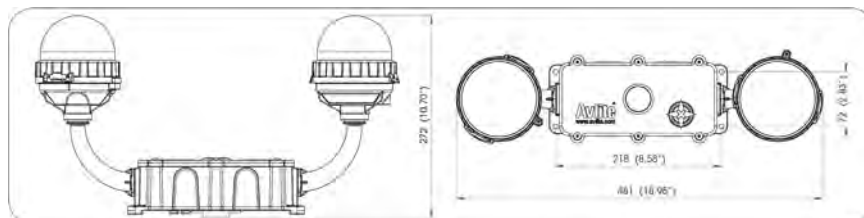


| HOW TO ORDER | |
|---|---|
| FAA Compliant Dual Light Fixture | |
| Product No.: | AV-OL-FL810-[]-[]-[]-[]-[] |
| Model: | 12 = 12-48 VDC UM = 110-240 VAC |
| Color: | R = Red IR = Infrared RIR = Combined Red/IR |
| Dual Fixture: | [D] = Dual light fixture |
| Monitoring & Control: | GSM = GSM (VDC model only) [blank] = No GSM |
| RS Communications Port: | RS = RS communications port (VDC model only) [blank] = No RS communications port |
| Note: Please contact your Avlite representative for optional power supply solutions | |

i FAA Monitoring Requirement

The FAA states that 'conspicuity is achieved only when all recommended lights are working' and 'any outage should be corrected as soon as possible'. The operational status of all lights should be confirmed at least once every 24 hours. If a structure is not easily inspected by visual observation, an automatic monitoring system should be used.

Avlite has a selection of automatic monitoring systems available for use with their obstruction light range to comply with FAA requirements.



L-810 Obstruction Light



An ISO 9001:2015 Certified Company

Compliances

Certified to FAA AC150/5345-43F for L-810 Steady-burning Red Obstruction Light
FAA Engineering Brief No. 67D



Intertek

Application

For marking top of obstacles that do not exceed 150 feet (45 metres) in height

Key Features

- Available in universal DC: will accept between 12-48VDC
- Available in universal AC: will accept between 110-240VAC
- Alarm contact for remote monitoring
- Light sensor for day/night operation
- LED technology reduces maintenance time and costs
- Easily retrofits with existing installations
- Optional solar powered configurations available
- Optional combined visual/IR for pilots using NVG
- Optional RS422/485 communications port for monitoring DC version

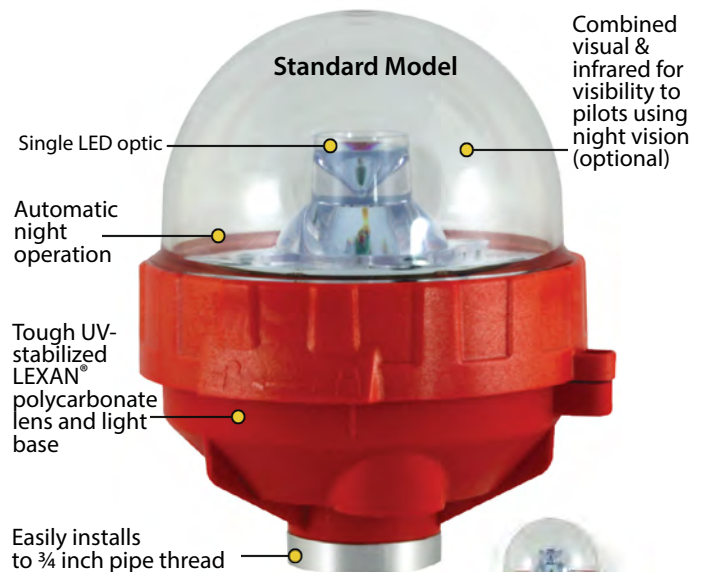
This Avlite light fixture is a steady burning, low intensity LED obstruction light designed to comply with FAA L-810 requirements. The model can be used for marking obstacles which pose a threat to aircraft, such as telecommunication towers, wind turbines, buildings and other tall structures.

Avlite's LED obstruction lights offer an ultra bright, energy efficient and cost effective lighting solution. The light fixture is available in two configurations, universal DC (12-48VDC) or universal AC (110-240VAC).

The advanced light optic uses a single LED for minimal power consumption. The corrosion resistant, polycarbonate lens is specifically designed for use with LEDs to maximize light intensity and uniformity.

The light fixture incorporates internal diagnostic checking and an alarm contact for remote monitoring. The alarm relay is energized in normal operation and is released if there is an LED or power fault.

The unit is available with either a 3/4 inch or 1 inch thread type - making it simple to retrofit with existing installations.



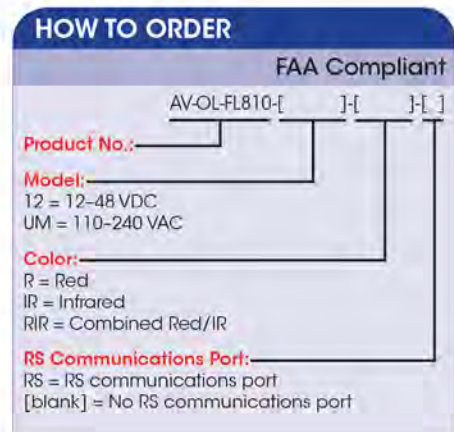
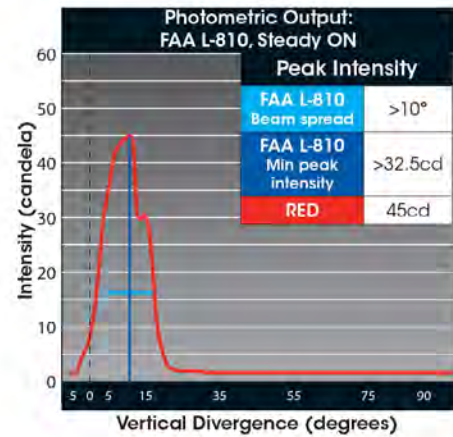
The obstruction light is also available with combined visual and infrared (IR) for visibility to pilots using night vision.

Optional GSM Monitoring

The Avlite single obstruction light is available with GSM Cell-Phone Monitoring, enabling operators to remotely monitor the status of their installation. The system can also be configured to send out SMS text messages or e-mail alerts to designated operators should alarm conditions be triggered, such as low voltage or light failure.



| SPECIFICATIONS * * FAA L-810 LIOL Single Fixture | | |
|--|---|--|
| | 12-48 VDC | 110-240 VAC |
| Light Characteristics | | |
| Light Source | As tested: FAA: AV-OL-FL810-12-R LED | As tested: FAA: AV-OL-FL810-UM-R LED |
| Available colors | Red as standard. Other colors available on request, including IR | Red as standard. Other colors available on request, including IR |
| Peak Intensity (cd)† | Complies with FAA L-810 obstruction lights | Complies with FAA L-810 obstruction lights |
| Horizontal Output (degrees) | 360 | 360 |
| Vertical Divergence (degrees) | As per FAA L-810 obstruction light specification | As per FAA L-810 obstruction light specification |
| Reflector Type | Single LED Optic | Single LED Optic |
| Intensity Adjustments | 32.5cd | 32.5cd |
| Operation Mode Adjustment | User-adjustable between dusk-til-ill-down & 24 hour operation | User-adjustable between dusk-til-ill-down & 24 hour operation |
| LED Life Expectancy (hours) | >100,000 | >100,000 |
| Electrical Characteristics | | |
| Operating Voltage | 12 - 48 VDC | 110 - 240 VAC |
| Current Draw (mA) | @ 12V: FAA L-810 @ 32.5cd Steady-on with relay energised: I _{max} = 120 | n/a |
| Power (W) | FAA L-810 @ 32.5cd Steady-on with relay energised & IR: P _{max} = 1.44 | FAA L-810 @ 32.5cd Steady-on with relay energised: P _{max} = 3 S _{max} = 12VA |
| Circuit Protection | Integrated | Integrated |
| Temperature Range | -40 to 80°C | -40 to 80°C |
| Physical Characteristics | | |
| Body Material | LEXAN® Polycarbonate - UV stabilized | LEXAN® Polycarbonate - UV stabilized |
| Lens Material | LEXAN® Polycarbonate - UV stabilized | LEXAN® Polycarbonate - UV stabilized |
| Lens Diameter (mm/inches) | 100 / 3 7/8 | 100 / 3 7/8 |
| Lens Design | Single LED Optic | Single LED Optic |
| Mounting | Standard Model: 3/4 inch pipe thread | Standard Model: 3/4 inch pipe thread |
| Height (mm/inches) | Standard Model: 137 / 5 1/2 | Standard Model: 137 / 5 1/2 |
| Width (mm/inches) | 121 / 4 3/4 | 121 / 4 3/4 |
| Mass (kg/lbs) | 0.4 / 7/8 | 0.4 / 7/8 |
| Product Life Expectancy | Up to 12 years | Up to 12 years |
| Environmental Factors | | |
| Humidity | 0 to 100%, MIL-STD-810F | 0 to 100%, MIL-STD-810F |
| Icing | 22kg per square inch | 22kg per square inch |
| Wind Speed | Up to 240kph | Up to 240kph |
| Certifications | | |
| CE | EN61000-6-3:2007 EN61000-6-1:2007 | EN61000-6-3:2007 EN61000-6-1:2007 |
| Quality Assurance | ISO9001:2008 | ISO9001:2008 |
| FAA | L-810 Steady-burning Red Obstruction Light (Qualified by Intertek) | L-810 Steady-burning Red Obstruction Light (Qualified by Intertek) |
| Waterproof | IP67 | IP67 |
| Intellectual Property | | |
| Trademarks | AVLITE® is a registered trademark of Avlite Systems | AVLITE® is a registered trademark of Avlite Systems |
| Warranty * Options Available | | |
| | 3 year warranty | 3 year warranty |
| | • Variety of solar/battery configurations | • Dual visual/IR output |
| | • Dual visual/IR output | • IR LED |
| | • IR LED | • Threaded adaptor to fit one (1) inch pipe |
| | • RS422/485 communications port | |
| | • Threaded adaptor to fit one (1) inch pipe | |

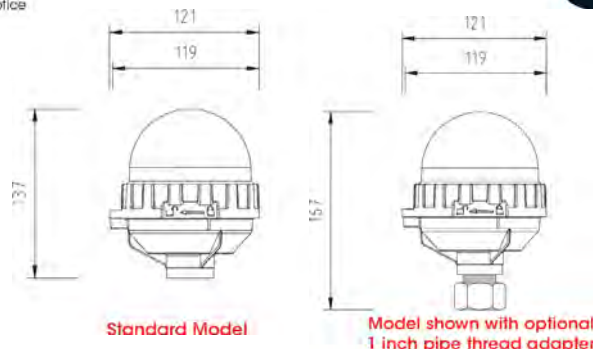


i FAA Monitoring Requirement

The FAA states that 'conspicuity is achieved only when all recommended lights are working' and 'any outage should be corrected as soon as possible'. The operational status of all lights should be confirmed at least once every 24 hours. If a structure is not easily inspected by visual observation, an automatic monitoring system should be used.

Avlite has a selection of automatic monitoring systems available for use with their obstruction light range to comply with FAA requirements.

* Specifications subject to change or variation without notice
* Subject to standard terms and conditions
† Intensity setting subject to solar availability



L-810 RTO Series LED Obstruction Lights



An ISO 9001:2015 Certified Company

Compliances

Certified to FAA AC 150/5345-43 (Current Edition)
 Canadian Aviation Regulation CAR 621.9 (Transport Canada)
 ICAO (Annex 14 - Fourth Edition, July 2004)
 Low intensity Type A (10 cd)
 Low intensity Type B (32 cd)



Application

For marking top of obstacles that do not exceed
 150 feet (45 metres) in height

Key Features

- Unique optical design (patent pending manufactured by Dialight)
- Uses 95% less energy and lasts longer than incandescent
- Cast aluminum base & housing with aviation red UV resistant polycarbonate dome
- Available as a single, dual or retro-fit unit
- Weather/corrosion resistant lamp assembly and housing withstands shock and vibration
- Self-contained wiring compartment eliminates additional boxes
- Can be operated steady or flashed
- 5 year warranty
- IP66 / NEMA 4X



Specifications

Supply Voltage : 100-240V, 50-60 Hz, grounding terminals provided. Other power inputs available.

Power Factor : >0.9

Nominal Input Power : 6.5W (FAA version)

8.6W (Transport Canada)

Operating / Storage Temperature : -40° to +55°C

Threaded 1" and 3/4" bottom hub for mounting

Ordering Information

| Part Number | Description | Voltage | Color | Certification |
|--------------|------------------------------|--------------|-------|------------------|
| RTO-1R07-001 | Obstruction fixture, single | 120 - 240VAC | Red | FAA |
| RTO-1R07-002 | Obstruction fixture, double | 120 - 240VAC | Red | FAA |
| RTO-1R07-004 | Retro-fit OB fixture, single | 120 - 240VAC | Red | FAA |
| RTO-6R07-001 | Obstruction fixture, single | 120 - 240VAC | Red | Transport Canada |
| RTO-6R07-002 | Obstruction fixture, double | 120 - 240VAC | Red | Transport Canada |
| RTO-6R07-004 | Retro-fit OB fixture, single | 120 - 240VAC | Red | Transport Canada |

Other input power
 available



L-801 HBM 150/2 Airport Rotating Beacon



An ISO 9001:2015 Certified Company

Compliances

Certified to FAA: L-801 AC 150/5345-12 (Current Edition) / ICAO: Annex 14, para 5.3.3



Application

This Hali-Brite beacon is designed for night operation as an identification and location marker for airports

Key Features

- Patented belt-drive system eliminates the lubrication required by conventional gear-drive beacons (U.S. Pat. 5,339,224)
- Patented liquid-filled lamp connector, eliminating the slip rings and brushes found on conventional beacons (U.S. Pat. 5,816,678)
- Two 13,000 lumen, 150 watt pulse-start metal-halide lamps
- 10,000 hour typical lamp life (2-3 years)
- One clear lens, one aviation green lens
- No maintenance except lamp replacement
- All moving parts are permanently lubricated
- Impedance-protected motor eliminates burnouts
- Lamps preset 5° above horizontal, adjustable
- 12 RPM rotation, 24 flashes/minute
- Weatherproof steel cabinet, powder coated international orange
- Class I temperature range: -30 to +55 °C (-22 to +131 °F)
- Class II temperature range: -55 to +55 °C (-67 to +131 °F)
- Tested to wind velocities of 100 mph
- Optional photocell and/or tell-tale relay
- Mountable on a Hali-Brite Tipdown Pole
- Power Consumption: 395W Class I, 795W Class II
- Manufactured in the USA



Beacon Tipdown Pole



Specifications



An ISO 9001:2015 Certified Company

Ordering Information

| Part Number | Description |
|-------------|------------------------------|
| L801A1116 | 120 VAC, 60 Hz, Class I |
| L801A1125 | 220-240 VAC, 50 Hz, Class I |
| L801A1126 | 220-240 VAC, 60 Hz, Class I |
| L801A1216 | 120 VAC, 60 Hz, Class II |
| L801A1225 | 220-240 VAC, 50 Hz, Class II |
| L801A1226 | 220-240 VAC, 60 Hz, Class II |

NOTE: 220-240 VAC must be single wire with neutral

Options

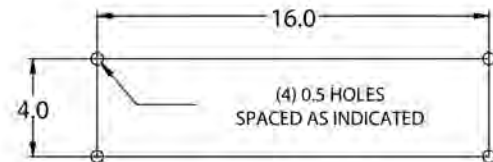
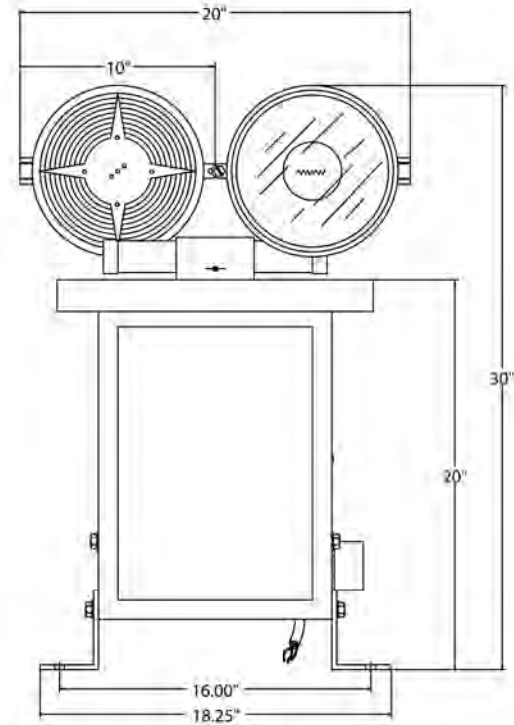
| Part Number | Description |
|-----------------------|------------------------------|
| L-801/802 T/T HBM 120 | Tell-tale Relay, 120 VAC |
| L-801/802 T/T HBM 240 | Tell-tale Relay, 220-240 VAC |
| 4200-0000 | Tower Mounting Kit |
| L801-/L802 HBM SS | Stainless Steel Option |

Replacement Parts

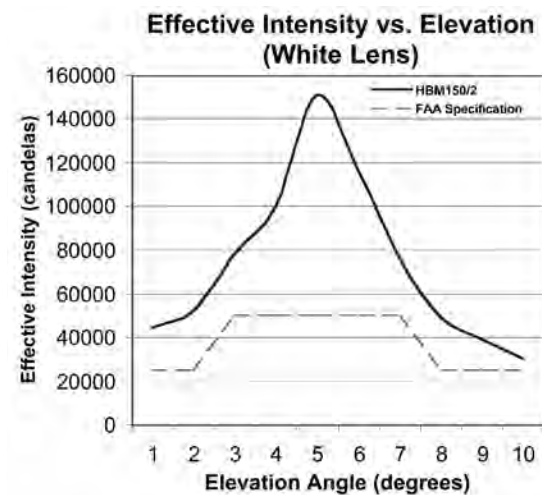
| Part Number | Description |
|-------------|----------------------------|
| 0200-0024 | Ballast Assy 50 Hz |
| 0200-0023 | Ballast Assy 60 Hz |
| 0600-0003 | Belt |
| 2300-0002 | Motor Fuse, 1/2 amp |
| 2300-0010 | Lamp Fuse, 6.25 amp |
| 3400-0125B | Lamp, 150 watt pulse-start |
| 2800-0006 | Lens, Clear |
| 2800-0043 | Lens, Green |
| 2800-0025 | Lens, Amber |
| 1500-0011 | Lens Clip |

Shipping Information

Unpacked Weight: 75 pounds
 USA Shipping Weight: 110 pounds
 USA Shipping Volume: 48" x 25" x 25"
 International Shipping Weight: 110 pounds
 International Shipping Volume: 40" x 25" x 25"



Mounting Bolt Pattern



L-802A HBM 400PS

Airport Rotating Beacon



An ISO 9001:2015 Certified Company

Compliances

Certified to FAA: L-802A AC 150/5345-12 (Current Edition)
ICAO: Annex 14, para 5.3.3



Applications

This Hali-Brite beacon is designed for night operation as an identification and location marker for airports

Key Features

- Patented belt-drive system eliminates the lubrication maintenance required by conventional gear-drive beacons (U.S. Pat. 5,339,224)
- Patented liquid-filled lamp connector, eliminating the slip rings and brushes found on conventional beacons (U.S. Pat. 5,816,678)
- Two 40,000 lumen, 400 watt pulse-start metal-halide lamps
- Pulse-start lamps are fully bright in 3-5 minutes
- 15,000 hour typical lamp life (2-3 years)
- One clear lens, one aviation green lens
- No maintenance except lamp replacement
- All moving parts are permanently lubricated
- Thermally-protected motor eliminates burnouts
- Lamps preset 5° above horizontal, adjustable
- 12 RPM rotation, 24 flashes/minute
- Weatherproof steel cabinet, powder coated international orange
- Class I temperature range: -30 to +55 °C (-22 to +131 °F)
- Class II temperature range: -55 to +55 °C (-67 to +131 °F)
- Tested to wind velocities of 100 mph
- Optional photocell and/or tell-tale relay
- Mountable on a Hali-Brite Tipdown Pole
- Power Consumption: 965W Class I, 1365W Class II
- Military version available
- Manufactured in the USA



Beacon Tipdown Pole



Specifications



An ISO 9001:2015 Certified Company

Ordering Information

| Part Number | Description |
|-------------|------------------------------|
| L-802A6116 | 120 VAC, 60 Hz, Class I |
| L-802A6125 | 220-240 VAC, 50 Hz, Class I |
| L-802A6126 | 220-240 VAC, 60 Hz, Class I |
| L-802A6216 | 120 VAC, 60 Hz, Class II |
| L-802A6225 | 220-240 VAC, 50 Hz, Class II |
| L-802A6226 | 220-240 VAC, 60 Hz, Class II |

NOTE: 220-240 VAC must be single wire with neutral

Options

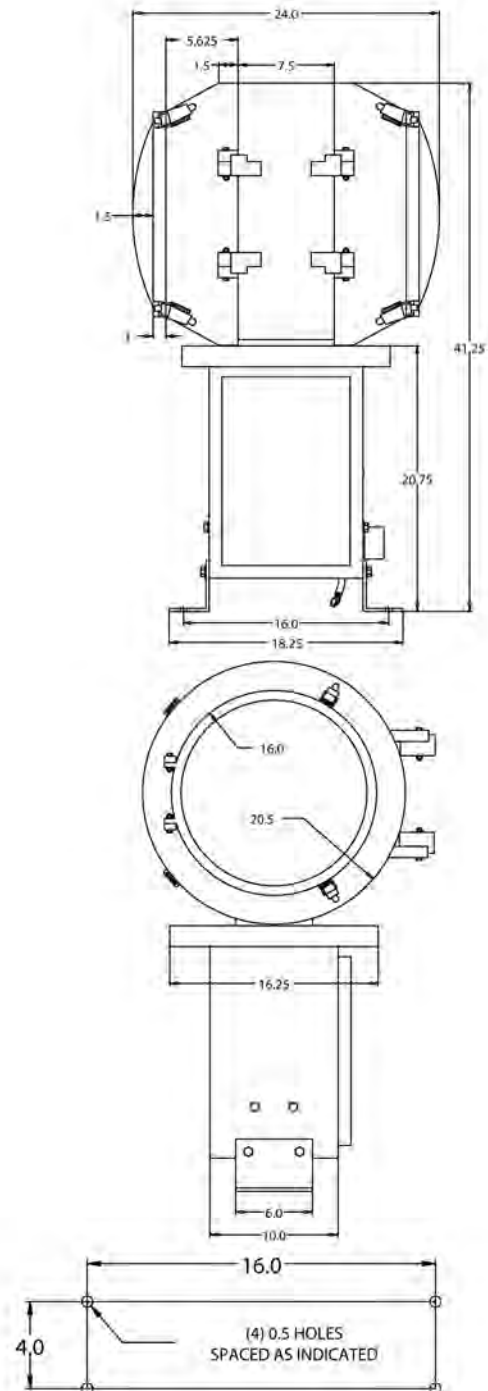
| Part Number | Description |
|-----------------------|------------------------------|
| L-801/802 T/T HBM 120 | Tell-tale Relay, 120 VAC |
| L-801/802 T/T HBM 240 | Tell-tale Relay, 220-240 VAC |
| 4200-0000 | Tower Mounting Kit |

Replacement Parts

| Part Number | Description |
|------------------|---------------------|
| 0200-0021 | Ballast, 60 Hz |
| 0200-0022 | Ballast, 50 Hz |
| 0600-0003 | Belt |
| 2300-0003 | Lamp Fuse, 10 amp |
| 2300-0002 | Motor Fuse, 1/2 amp |
| 3400-0400/H75/PS | Lamp, 400 watt |
| 2800-0035 | Lens, Clear |
| 2800-0044 | Lens, Green |
| 0100-3825 | Lens Clip |

Shipping Information

Unpacked Weight: 150 pounds
 USA Shipping Weight: 250 pounds
 USA Shipping Volume: 48"x42"x32"
 International Shipping
 Weight: 200 pounds
 International Shipping
 Volume: 48"x40"x32"



Mounting Bolt Pattern



L-801H and L-802H HBM 150/3 Heliport Rotating Beacons



An ISO 9001:2015 Certified Company

Compliances

Certified to FAA: L-801H AC 150/5345-12 (Current Edition)

FAA: L-802H AC 150/5345-12 (Current Edition) / ICAO: Annex 14, para 5.3.3



Intertek

Applications

These Hali-Brite beacons are designed for night operation as identification and location markers for heliports

Key Features

- Patented belt-drive system eliminates the lubrication maintenance required by conventional gear-drive beacons (U.S. Pat. 5,339,224)
- Patented liquid-filled lamp connector, eliminating the slip rings and brushes found on conventional beacons (U.S. Pat. 5,816,678)
- Three 14,000 lumen, 150 watt metal-halide lamps
- 12,000 hour typical lamp life (3 years)
- One clear, one aviation green, and one yellow lens
- Available in Hospital Heliport version (not FAA certifiable)
- No maintenance except lamp replacement
- All moving parts are permanently lubricated
- Impedance-protected motor eliminates burnouts
- Lamps preset 5° above horizontal, adjustable
- 12 RPM rotation, 36 flashes/minute
- Weatherproof steel cabinet, powder coated international orange
- Optional stainless steel cabinet & bearings for highly corrosive environments
- Class I temperature range: -30 to +55 °C (-22 to +131 °F)
- Class II temperature range: -55 to +55 °C (-67 to +131 °F)
- Tested to wind velocities of 100 mph
- Optional photocell and/or tell-tale relay
- Mountable on a Hali-Brite Tipdown Pole
- Military version available
- Power Consumption: 595W Class I, 995W Class II
- Manufactured in the USA



Beacon Tipdown Pole



Specifications



An ISO 9001:2015 Certified Company

Ordering Information

| Part Number | Description |
|-------------|---|
| L801H7116 | 120 VAC, 60 Hz, Class I |
| L801H7116M | 120 VAC, 60 Hz, Class I, Military Heliport |
| L801H7125 | 220-240 VAC, 50 Hz, Class I |
| L801H7125H | 220-240 VAC, 50 Hz, Class I, Hospital Heliport |
| L801H7126 | 220-240 VAC, 60 Hz, Class I |
| L801H7126H | 220-240 VAC, 60 Hz, Class I, Hospital Heliport |
| L801H7216 | 120 VAC, 60 Hz, Class II |
| L801H7216H | 120 VAC, 60 Hz, Class II, Hospital Heliport |
| L801H7225 | 220-240 VAC, 50 Hz, Class II |
| L801H7225H | 220-240 VAC, 50 Hz, Class II, Hospital Heliport |
| L801H7226 | 220-240 VAC, 60 Hz, Class II |
| L801H7226H | 220-240 VAC, 60 Hz, Class II, Hospital Heliport |

NOTE: 220-240 VAC products are single phase only

Options

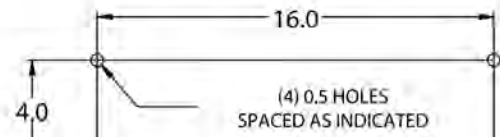
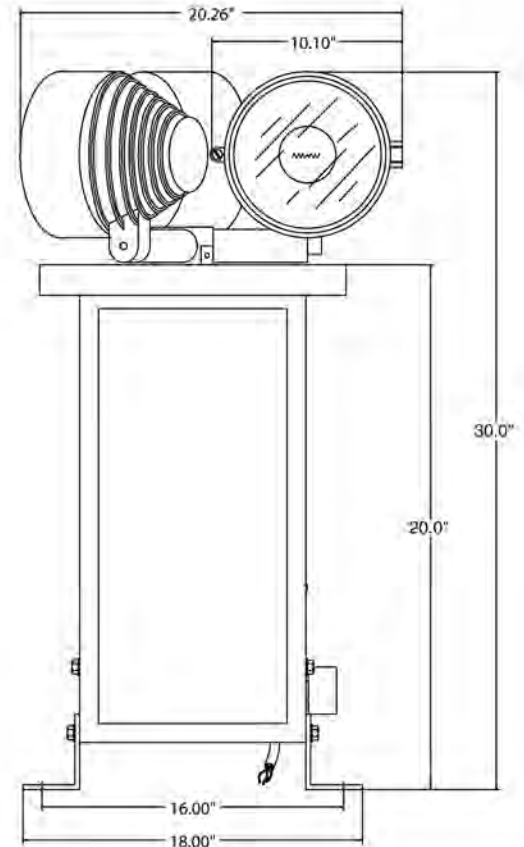
| Part Number | Description |
|-----------------------|------------------------------|
| L-801/802 T/T HBM 120 | Tell-tale Relay, 120 VAC |
| L-801/802 T/T HBM 240 | Tell-tale Relay, 220-240 VAC |
| 4200-0000 | Tower Mounting Kit |
| L801/L802 HBM SS | Stainless Steel Option |

Replacement Parts

| Part Number | Description |
|-------------|----------------------------|
| 0200-0007 | Ballast, 120/240 VAC, 60Hz |
| 0600-0003 | Belt |
| 2300-0002 | Motor Fuse, 1/2 amp |
| 2300-0012 | Lamp Fuse, 8 amp |
| 3400-0125B | Lamp, 150 watt |
| 2800-0006 | Lens, Clear |
| 2800-0043 | Lens, Green |
| 2800-0025 | Lens, Amber |
| 2800-0010 | Lens, Red |
| 2800-0026 | Lens, Split Beam |
| 1500-0011 | Lens Clip |

Shipping Information

Unpacked Weight: 96 pounds
 USA Shipping Weight: 124 pounds
 USA Shipping Volume: 48"x28"x25"
 International Shipping
 Weight: 124 pounds
 International Shipping
 Volume: 48"x28"x25"



Mounting Bolt Pattern



L-806 Wind Cone



An ISO 9001:2015 Certified Company

Compliances

Certified to FAA: L-806 AC 150/5345-27 (Current Edition) ETL Certified

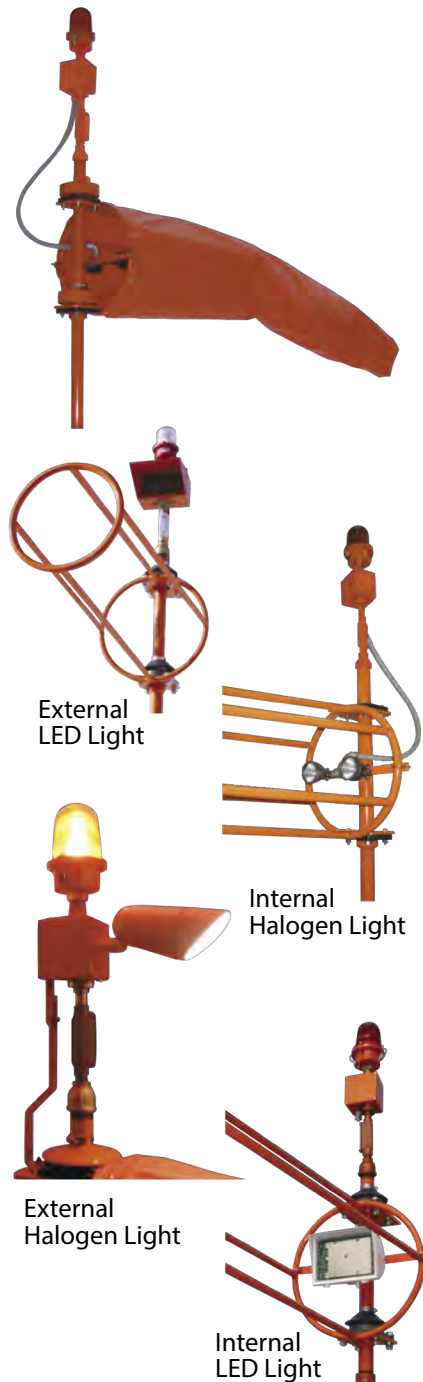


Application

These Hali-Brite wind cones provide visual indication of wind direction and velocity at a location on an airfield. They are used on smaller airfields, heliports and as supplemental wind indicators near runway touchdown areas on large airfields.

Key Features

- Available externally lighted, internally lighted, or unlighted
- LED or halogen lamps
- The LED models feature:
 - 50,000 to 100,000 hour lamp life, virtually maintenance free
 - Multiple lamp circuits, for improved reliability
 - 80-90% less power consumption than halogen lamps
 - A long-life LED obstruction light
- Integral power adapter on externally-lighted, series-circuit LED models
- Incandescent L-810 obstruction light included on halogen lighted models
- Size 1 (18" diameter x 8' long) wind sock
- 1.9" diameter steel pole, with frangible coupling at base
- One piece welded aluminum basket with pre-installed bearings
- Raincaps protect the bearings from weather
- May be mounted directly to an L-867 light base, 2 inch NPT base plate (sold separately)
- The nylon sock is treated for rot, mildew, and water repellency
- Powder coat painted international orange



Specifications



An ISO 9001:2015 Certified Company

Selection Chart

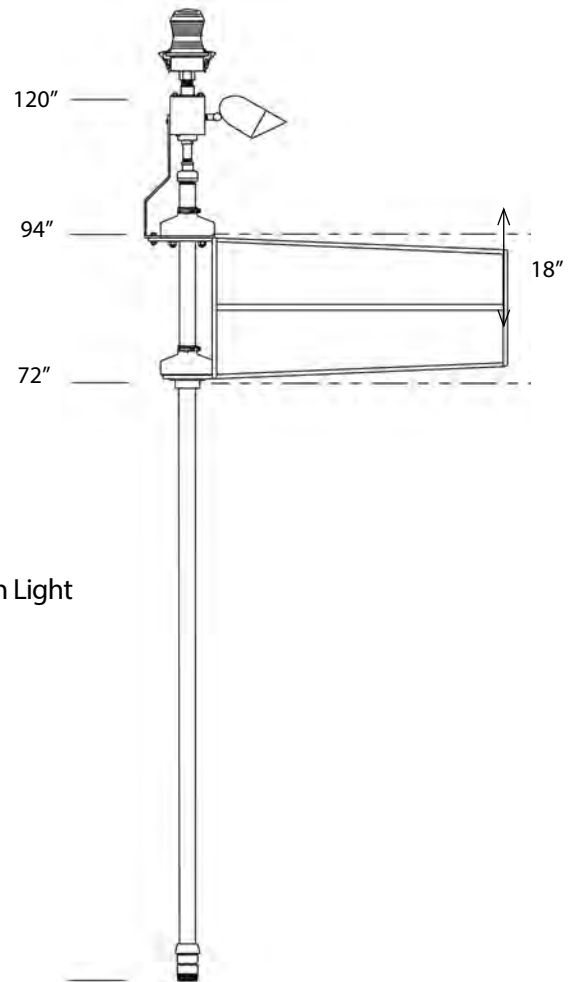
| Catalog Number | See Notes | FAA Size | FAA Style | Power Source | Lamp Type | Fixture Watts | Fixture VA | Weight (lbs) | Replacement Lamp |
|----------------------|-----------|----------|--------------|--------------|-----------|---------------|------------|--------------|------------------|
| L-806-S1-EX-120-ON-5 | | 1 | I-A External | 108-132 VAC | LED | 14 | 15 | 58 | 9200-0032 |
| L-806-S1-EX-66A-ON-5 | 3 | 1 | I-A External | 2.8-6.6 AMP | LED | 26 | 28 | 57 | 9200-0034 |
| L-806-S1-EX-230-ON-5 | 2 | 1 | I-A External | 207-253 VAC | LED | 14 | 15 | 58 | 9200-0044 |
| L-806-S1-IN-120-ON-5 | | 1 | I-B Internal | 108-132 VAC | LED | 19 | 32 | 59 | 9200-0038 |
| L-806-S1-IN-120-ON-N | 2 | 1 | I-B Internal | 108-132 VAC | Halogen | 316 | 316 | 57 | 3400-0100Regent |
| L-806-S1-IN-66A-ON-5 | 3 | 1 | I-B Internal | 2.8-6.6 AMP | LED | 37 | 41 | 57 | 9200-0039 |
| L-806-S1-IN-12-ON-5 | 2 | 1 | I-B Internal | 11.5-13 VDC | LED | 6 | 6 | 57 | 9200-0041 |
| L-806-S1-EX-12-ON-5 | | 1 | I-A External | 11.5-13 VDC | LED | 6 | 6 | 57 | 9200-0033 |
| L-806-S1-UN-NON-ON-N | | 1 | II Unlighted | None | None | 0 | 0 | 45 | None |

Notes:

1. Power consumption specifications include the L-810 obstruction light
2. This FAA Style can not be ETL certified
3. Requires 100 watt L80-4 transformer, sold separately. Add 17 VA for transformer loss.

Spare Components

| Part Number | Description |
|---------------|---|
| 7400-0000-1 | Wind Sock, 18" x 8', orange |
| 1800-0025 | Frangible Coupling |
| 3400-116TS120 | Lamp, 120V Incandescent Obstruction Light |



Compliances

Certified to FAA: L-807 AC 150/5345-27 (Current Edition) ETL Certified
ICAO: Annex 14, Vol. 1, para. 5.1.1 (Size 2 only)

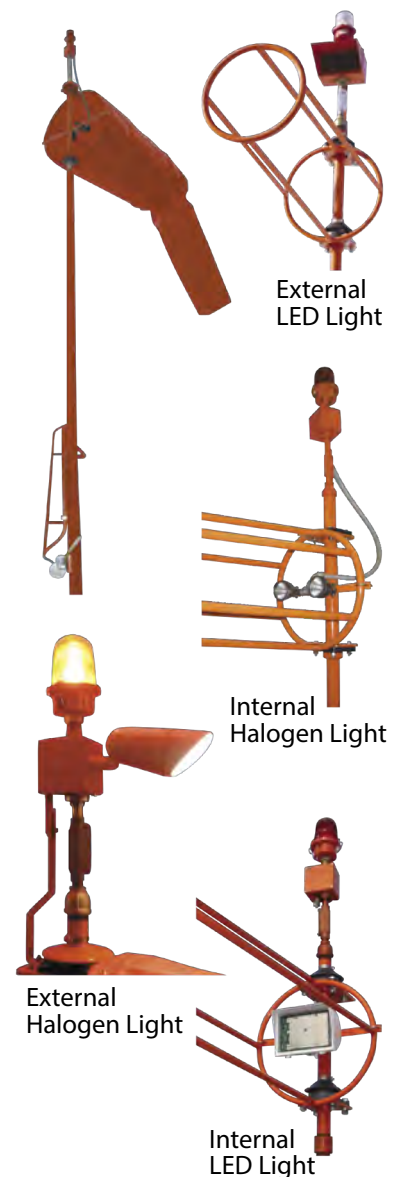


Application

This Hali-Brite primary wind cone provides visual indication of wind direction and velocity at a location on an airfield. FAA Size 2 wind cones are used at the central location on the airfield. FAA Size 1 wind cones are used on smaller airfields and heliports.

Key Features

- Available externally lighted, internally lighted, or unlighted
- LED or halogen lamps
- All LED models feature:
 - 50,000 to 100,000 hour lamp life, virtually maintenance free
 - Multiple lamp circuits, for improved reliability
 - 80-90% less power consumption than halogen lamps
 - A long-life LED obstruction light
- Integral power-adaptor on externally-lighted, series-circuit LED models
- An incandescent L-810 obstruction light is included on halogen lighted models
- Size 1 (18" x 8' long) or Size 2 (36" x 12' long) wind socks
- The pole is center-hinged, with 4" diameter steel on the bottom, and 3" diameter steel on the top
- A center-mounted braked winch allows 1-person maintenance
- The four anchor bolts are a one-piece welded assembly, ready to drop in the ground
- The aluminum basket is welded, one piece, with pre-installed bearings
- Raincaps protect the bearings from weather
- The nylon sock is treated for rot, mildew and water repellency
- Powder coat painted international orange



Selection Chart



An ISO 9001:2015 Certified Company

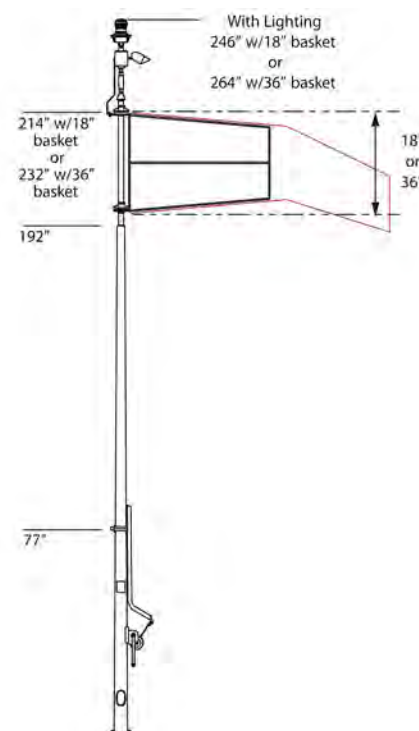
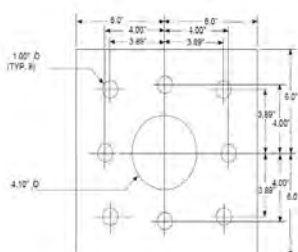
| Catalog Number | See Notes | FAA Size | FAA Style | Power Source | Lamp Type | Fixture Watts | Fixture VA | Weight (lbs) | Replacement Lamp |
|----------------------|-----------|----------|--------------|--------------|-----------|---------------|------------|--------------|------------------|
| L-807-S1-UN-NON-ON-N | | 1 | II Unlighted | None | None | 0 | 0 | 187 | None |
| L-807-S1-EX-120-ON-5 | | 1 | I-A External | 108-132 VAC | LED | 14 | 15 | 198 | 9200-0032 |
| L-807-S1-EX-230-ON-5 | 2 | 1 | I-A External | 207-253 VAC | LED | 14 | 15 | 198 | 9200-0044 |
| L-807-S1-EX-66A-ON-5 | 4,5 | 1 | I-A External | 2.8-6.6 AMP | LED | 26 | 28 | 197 | 9200-0034 |
| L-807-S1-IN-120-ON-5 | | 1 | I-B Internal | 108-132 VAC | LED | 19 | 32 | 200 | 9200-0038 |
| L-807-S1-IN-120-ON-N | 2 | 1 | I-B Internal | 108-132 VAC | Halogen | 316 | 316 | 198 | 9400-0100Regent |
| L-807-S1-EX-12-ON-5 | | 1 | I-A External | 11.5-13 VDC | LED | 6 | 6 | 197 | 9200-0033 |
| L-807-S1-IN-12-ON-5 | 2 | 1 | I-B Internal | 11.5-13 VDC | LED | 6 | 6 | 197 | 9200-0041 |
| L-807-S1-IN-66A-ON-5 | 4,5 | 1 | I-B Internal | 2.8-6.6 AMP | LED | 37 | 41 | 198 | 9200-0039 |
| L-807-S2-UN-NON-ON-N | | 2 | II Unlighted | None | None | 0 | 0 | 199 | None |
| L-807-S2-IN-120-ON-5 | | 2 | I-B Internal | 108-132 VAC | LED | 32 | 60 | 212 | 9200-0040 |
| L-807-S2-EX-120-ON-5 | | 2 | I-A External | 108-132 VAC | LED | 21 | 22 | 210 | 9200-0035 |
| L-807-S2-EX-230-ON-5 | 2 | 2 | I-A External | 207-253 VAC | LED | 21 | 22 | 210 | 9200-0043 |
| L-807-S2-EX-66A-ON-5 | 4,5 | 2 | I-A External | 2.8-6.6 AMP | LED | 26 | 28 | 209 | 9200-0037 |
| L-807-S2-IN-120-ON-N | | 2 | I-B Internal | 108-132 VAC | Halogen | 516 | 516 | 210 | 3400-0100Regent |
| L-807-S2-EX-12-ON-5 | | 2 | I-A External | 11.5-13 VDC | LED | 10 | 10 | 210 | 9200-0036 |
| L-807-S2-IN-12-ON-5 | 2 | 2 | I-B Internal | 11.5-13 VDC | LED | 10 | 10 | 210 | 9200-0042 |
| L-807-S2-IN-66A-ON-5 | 3,5 | 2 | I-B Internal | 2.8-6.6 AMP | LED | 57 | 53 | 210 | 9200-0031 |
| L-807-S2-EX-12-ON-5 | | 2 | I-A External | 11.5-13 VDC | LED | 10 | 10 | 210 | 9200-0036 |
| L-807-S2-IN-12-ON-5 | 2 | 2 | I-B Internal | 11.5-13 VDC | LED | 10 | 10 | 210 | 9200-0042 |

Notes:

- Power consumption specifications include the L-810 obstruction light
- This FAA Style can not be ETL certified
- Requires 200 watt L-830 transformer, sold separately
- Requires 100 watt L-830 transformer, sold separately
- L-830 VA not included, is 16 VA for all models

Spare Components

| Part Number | Description |
|-------------|------------------------------------|
| 7400-0000-1 | Size 1 Windsock, 18" x 8', orange |
| 7400-0002 | Size 2 Windsock, 36" x 12', orange |



L-858 Airfield Guidance Signs



An ISO 9001:2015 Certified Company

Compliances

Certified to FAA AC 150/5345-44 (Current Edition)

Application

Provide visual guidance for pilots while navigating on taxiways or runways



Intertek

Types



L-858Y

Used for: Direction, Destination and Boundary
Color: Black/Yellow



L-858R

Used for: Mandatory
Color: White with Black Outline/Red



L-858L

Used for: Runway/Taxiway Location
Color: Yellow/Black



L-858B

Used for: Runway Distance Remaining
Color: White/Black

Sizes

- 1 18" face with 12" legend
- 2 24" face with 15" legend
- 3 30" face with 18" legend
- 4 48" face with 40" legend
- 5 30" face with 25" legend

Styles

- 1 120V (FAA Compliant)
- 2 4.8A to 6.6A (3-Step)
- 3 2.8A to 6.6A (5-Step)
- 4 Unlighted
- 5 5.5A (1-Step)
- S Solar Powered (FAA Compliant)

AIRPORT SIGN AND MARKING – QUICK REFERENCE GUIDE

| EXAMPLE | TYPE OF SIGN | PURPOSE | LOCATION/CONVENTION |
|---|---|--|--|
| 4 - 22 | Mandatory: Hold position for taxiway/runway intersection. | Denotes entrance to runway from a taxiway. | Located <u>L</u> side of taxiway within 10 feet of hold position markings. |
| 22 - 4 | Mandatory: Holding position for runway/runway intersection. | Denotes intersecting runway. | Located <u>L</u> side of rwy prior to intersection, & <u>R</u> side if rwy more than 150' wide, used as taxiway, or has "land & hold short" ops. |
| 4 - APCH | Mandatory: Holding position for runway approach area. | Denotes area to be protected for aircraft approaching or departing a runway. | Located on taxiways crossing thru runway approach areas where an aircraft would enter an RSA or apch/ departure airspace. |
| ILS | Mandatory: Holding position for ILS critical area/precision obstacle free zone. | Denotes entrance to area to be protected for an ILS signal or approach airspace. | Located on twys where the twys enter the NAVAID critical area or where aircraft on taxiway would violate ILS apch airspace (including POFZ). |
| ⊖ | Mandatory: No entry. | Denotes aircraft entry is prohibited. | Located on paved areas that aircraft should not enter. |
| B | Taxiway Location. | Identifies taxiway on which the aircraft is located. | Located along taxiway by itself, as part of an array of taxiway direction signs, or combined with a runway/taxiway hold sign. |
| 22 | Runway Location. | Identifies the runway on which the aircraft is located. | Normally located where the proximity of two rwys to one another could cause confusion. |
| ≡ | Runway Safety Area / OFZ and Runway Approach Area Boundary. | Identifies exit boundary for an RSA / OFZ or rwy approach. | Located on taxiways on <u>back side</u> of certain runway/taxiway holding position signs or runway approach area signs. |
| ≡ | ILS Critical Area/POFZ Boundary. | Identifies ILS critical area exit boundary. | Located on taxiways on <u>back side</u> of ILS critical area signs. |
| J → | Direction: Taxiway. | Defines designation/direction of intersecting taxiway(s). | Located on <u>L</u> side, <u>prior to intersection</u> , with an array L to R in clockwise manner. |
| ↖ L | Runway Exit. | Defines designation/direction of exit taxiways from the rwy. | Located on same side of runway as exit, prior to exit. |
| 22 ↑ | Outbound Destination. | Defines directions to take-off runway(s). | Located on taxi routes to runway(s). <u>Never</u> collocated or combined with other signs. |
| FBO ↘ | Inbound Destination. | Defines directions to airport destinations for arriving aircraft. | Located on taxi routes to airport destinations. <u>Never</u> collocated or combined with other types of signs. |
| NOISE ABATEMENT PROCEDURES IN EFFECT 2300 - 0500 | Information. | Provides procedural or other specialized information. | Located along taxi routes or aircraft parking/staging areas. May not be lighted. |
| ▨ | Taxiway Ending Marker. | Indicates taxiway does not continue beyond intersection. | Installed at taxiway end or far side of intersection, if visual cues are inadequate. |
| 7 | Distance Remaining. | Distance remaining info for take-off/landing. | Located along the sides of runways at 1000' increments. |

Manufactured By

AGM
Airfield Guidanceesign
Manufacturers, Inc.

DLUX

HERCULENS

ILUX



L-858 D-LUX™ Guidance Signs



An ISO 9001:2015 Certified Company

Compliances

Certified to FAA AC 15/5345-44 (Current Edition)
FAA Engineering Brief No. 67



Intertek



Key Features

- Easily replace traditional L-858 signs
- Each module is mounted on an evenly spaced pair of legs
- Slip-flanges hold the legs secure with almost no gap in the assembly
- Environmental forces are shared by legs and cabinet, and not concentrated on hardware
- Each rounded face if made from expertly formed acrylic
- Size 1 & 2 signs available with optional Herculens panel (Herculens panels come factory installed on size 3 D-Lux signs)
- Legend panels are connected by translucent panel joints, which are welded together with adhesive and additionally reinforced with stainless steel hardware
- Every module features a top that is designed to easily guide the edge of the panels into place when it is replaced after re-lamping, and is fixed to the sign with 2 turn fasteners - no tools are required for re-lamping
- Base model brightness controls use technology that has been proven for years in the field



The Herculens is the most durable sign panel on the market today. It comes factory installed in AGM's patented Size 3 D-Lux brand rounded signs. More than 50% thicker than other panels, it is CNC-machined and expertly formed for a solid fit. The Herculens is unyielding to jet blast, even when used without internal bracing or other cabinet modifications.



All FAA Sizes, FAA Types
and FAA Styles are available in LED

Replacement Parts

| Light Option | Part Number | Description |
|--------------|-------------|----------------------------------|
| | C7-LVCV2 | Low voltage power control module |
| LED | C7-LEDV2 | LED modules |
| | C7-DRVR | LED driver module |
| | C7-BRG | Bridge rectifier |

General Catalog Numbers

D □ □ □ □ □ F-□

Size

- 1=Size 1
- 2=Size 2
- 3=Size 3
- 5=Size 5

Style

- 2=Style 2 (4.8A-6.6A)
- 3=Style 3 (2.8A-6.6A)
- 4=Style 4 (unlighted)
- 5=Style 5 (5.5A)

Light Option

- H=LED Board
- N=Unlighted**

**FAA Compliant

Options

- 1=On/Off Switch
- S=LED Light Out Indicator
- P=View Port
- E=External Power Cord*

*Not ETL certified

Faces

- S=Single Face
- D=Double Face

Modules

- 1=1 Module
- 2=2 Modules
- 3=3 Modules
- 4=4 Modules

Example: D33H3SF-1 is a size 3 L-858 D-Lux sign, in style 3 with an LED board light option, 3 modules, single face, with an on/off switch





Transformer Requirements

An ISO 9001:2015 Certified Company

LED Board

| Size | Style | Modules | L-830 Transformer | VA Load | Power Factor |
|------|-------|---------|-------------------|---------|--------------|
| 1 | 2 | 1.0 | 65W | 39 | .93 |
| 1 | 2 | 2.0 | 65W | 44 | .93 |
| 1 | 2 | 3.0 | 65W | 49 | .94 |
| 1 | 2 | 4.0 | 65W | 54 | .94 |
| 2 | 2 | 1.0 | 65W | 41 | .93 |
| 2 | 2 | 2.0 | 65W | 49 | .94 |
| 2 | 2 | 3.0 | 65W | 56 | .94 |
| 2 | 2 | 4.0 | 65W | 65 | .94 |
| 3 | 2 | 1.0 | 65W | 44 | .93 |
| 3 | 2 | 2.0 | 65W | 54 | .94 |
| 3 | 2 | 3.0 | 65W | 65 | .94 |
| 3 | 2 | 4.0 | 100W | 77 | .93 |
| 5 | 2 | 1.0 | 65W | 44 | .93 |
| 1 | 2 | 1.0 | 65W | 39 | .93 |
| 1 | 2 | 2.0 | 65W | 44 | .93 |
| 1 | 2 | 3.0 | 65W | 49 | .94 |
| 1 | 2 | 4.0 | 65W | 54 | .94 |
| 2 | 2 | 1.0 | 65W | 41 | .93 |
| 2 | 2 | 2.0 | 65W | 49 | .94 |
| 2 | 2 | 3.0 | 100W | 57 | .94 |
| 2 | 2 | 4.0 | 100W | 69 | .94 |
| 3 | 2 | 1.0 | 65W | 44 | .93 |
| 3 | 2 | 2.0 | 65W | 54 | .94 |
| 3 | 2 | 3.0 | 100W | 69 | .94 |
| 3 | 2 | 4.0 | 200W | 77 | .93 |
| 5 | 2 | 1.0 | 65W | 44 | .93 |
| 1 | 2 | 1.0 | 65W | 39 | .93 |
| 1 | 2 | 2.0 | 65W | 44 | .93 |
| 1 | 2 | 3.0 | 65W | 49 | .94 |
| 1 | 2 | 4.0 | 65W | 54 | .94 |
| 2 | 2 | 1.0 | 65W | 41 | .93 |
| 2 | 2 | 2.0 | 65W | 49 | .94 |
| 2 | 2 | 3.0 | 65W | 56 | .94 |
| 2 | 2 | 4.0 | 65W | 65 | .94 |
| 3 | 2 | 1.0 | 65W | 44 | .93 |
| 3 | 2 | 2.0 | 65W | 54 | .94 |
| 3 | 2 | 3.0 | 65W | 65 | .94 |
| 3 | 2 | 4.0 | 100W | 77 | .93 |
| 5 | 2 | 1.0 | 65W | 44 | .93 |



The Herculens is the most durable sign panel on the market today. It comes factory installed in AGM's patented Size 3 D-Lux brand rounded signs. More than 50% thicker than other panels, it is CNC-machined and expertly formed for a solid fit. The Herculens is unyielding to jet blast, even when used without internal bracing or other cabinet modifications.



All FAA Sizes, FAA Types and FAA Styles are available in LED



L-858 I-LUX Guidance Signs

Compliances

Certified to FAA AC 15/5345-44 (Current Edition)
FAA Engineering Brief No. 67, ICAO Annex 14 Sixth Edition, TP312E
4th Edition

An ISO 9001:2015 Certified Company



Key Features

- The average LED life is 100,000 hours high intensity / 180,000 hours under typical operating conditions.
- Easily replace traditional L-858 signs
- Solidly & seamlessly integrate off-the-shelf parts and custom fabrication for strength & flexibility while minimizing operating costs
- Platform for cabinet machined from solid, heavy-gauge aluminum construction
- Free of gaps and joints that weaken modular signs and allow penetration of wind, rain, dirt and snow
- Inherently stronger than modular signs because it doesn't rely on the strength of hardware used to piece modular signs together
- I-Lux is as short as possible because it is made per FAA lettering specifications & not artificially lengthened over seams and gaps
- AGM's I-Lux is the only airfield sign available in half module sizing
- Quick and economical installation, with smaller excavation, less concrete, and fewer legs to bolt to the pad
- Smaller obstruction in the field than modular signs, presenting less inertial load on aircrafts should a collision occur
- Seamless panels display messages without distortion
- Highly impact resistant, up to 30 times more than other brands
- No tools required for re-lamping
- Base model brightness controls use technology that has been proven for years in the field

I-Lux Size 4

| Light Option | Style | L-830 Transformer | VA Load | Power Factor |
|--------------|-------|-------------------|---------|--------------|
| LED Board | 2 | 65W | 49 | .94 |
| LED Board | 3 | 65W | 44 | .94 |
| LED Board | 5 | 65W | 44 | .94 |



All FAA Sizes, FAA Types and FAA Styles are available in LED

General Catalog Numbers



Size
1=Size 1
2=Size 2
3=Size 3
4=Size 4
5=Size 5

Style
2=Style 2 (4.8A-6.6A)
3=Style 3 (2.8A-6.6A)
4=Style 4 (unlighted)
5=Style 5 (5.5A)

Light Option
H=LED Board
N=Unlighted

Options
1=On/Off Switch
3=Mode 3
(If blank: Mode 2)
S=LED Light Out Indicator
P=View Port
E=External Power Cord*

Faces
S=Single Face
D=Double Face

Modules
10=1.0 Module
15=1.5 Modules
20=2.0 Modules
25=2.5 Modules
30=3.0 Modules
35=3.5 Modules
40=4.0 Modules

Example: I32H30.SF-1 is a size 3 L-858 I-Lux sign in style 2, with an LED light option, 3.0 modules, single face, mode 2 with an on/off switch

*Not ETL Certified





Transformer Requirements

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LED Board

| Size | Style | Modules | L-830 Transformer | VA Load | Power Factor |
|------|-------|-----------|-------------------|---------|--------------|
| 1 | 2 | 1.0 | 65W | 39 | .93 |
| 1 | 2 | 1.5 & 2.0 | 65W | 44 | .93 |
| 1 | 2 | 2.5 & 3.0 | 65W | 49 | .94 |
| 1 | 2 | 3.5 & 4.0 | 65W | 54 | .94 |
| 2 | 2 | 1.0 | 65W | 44 | .93 |
| 2 | 2 | 1.5 & 2.0 | 65W | 54 | .94 |
| 2 | 2 | 2.5 & 3.0 | 65W | 65 | .94 |
| 2 | 2 | 3.5 & 4.0 | 100W | 77 | .93 |
| 3 | 2 | 1.0 | 65W | 49 | .94 |
| 3 | 2 | 1.5 & 2.0 | 65W | 65 | .94 |
| 3 | 2 | 2.5 & 3.0 | 100W | 83 | .93 |
| 3 | 2 | 3.5 & 4.0 | 100W | 95 | .93 |
| 5 | 2 | 1.0 | 65W | 49 | .94 |
| 1 | 3 | 1.0 | 65W | 39 | .93 |
| 1 | 3 | 1.5 & 2.0 | 65W | 44 | .93 |
| 1 | 3 | 2.5 & 3.0 | 65W | 49 | .94 |
| 1 | 3 | 3.5 & 4.0 | 65W | 54 | .94 |
| 2 | 3 | 1.0 | 65W | 44 | .93 |
| 2 | 3 | 1.5 & 2.0 | 65W | 54 | .94 |
| 2 | 3 | 2.5 & 3.0 | 100W | 69 | .93 |
| 2 | 3 | 3.5 & 4.0 | 200W | 77 | .92 |
| 3 | 3 | 1.0 | 65W | 49 | .94 |
| 3 | 3 | 1.5 & 2.0 | 100W | 69 | .93 |
| 3 | 3 | 2.5 & 3.0 | 200W | 83 | .92 |
| 3 | 3 | 3.5 & 4.0 | 200W | 95 | .92 |
| 5 | 3 | 1.0 | 65W | 49 | .94 |
| 1 | 5 | 1.0 | 65W | 32 | .94 |
| 1 | 5 | 1.5 & 2.0 | 65W | 34 | .94 |
| 1 | 5 | 2.5 & 3.0 | 65W | 41 | .94 |
| 1 | 5 | 3.5 & 4.0 | 65W | 50 | .93 |
| 2 | 5 | 1.0 | 65W | 34 | .94 |
| 2 | 5 | 1.5 & 2.0 | 65W | 50 | .94 |
| 2 | 5 | 2.5 & 3.0 | 65W | 58 | .93 |
| 2 | 5 | 3.5 & 4.0 | 100W | 69 | .93 |
| 3 | 5 | 1.0 | 65W | 41 | .94 |
| 3 | 5 | 1.5 & 2.0 | 65W | 58 | .93 |
| 3 | 5 | 2.5 & 3.0 | 100W | 73 | .93 |
| 3 | 5 | 3.5 & 4.0 | 100W | 88 | .92 |
| 5 | 5 | 1.0 | 65W | 41 | .94 |



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Replacement Parts

| Light Option | Part Number | Description |
|--------------|-------------|----------------------------------|
| LED | C7-LVCV2 | Low voltage power control module |
| | I7-LEDV2 | LED board with optics |
| | C7-DRVR | LED driver module |
| | C7-BRG | Bridge rectifier |
| MR16 | I7-9Q | MR16 lamp |
| | I7-PCM** | Power control module |
| | C7-24A | Tapswitch (Style U only) |

**when ordering, please specify style and number of lamps



All FAA Sizes, FAA Types
and FAA Styles are available in LED



L-828/L-829 Ferroresonant Constant Current Regulator



Compliances

ETL Certified to FAA AC 150/5345-10 (Current Edition)

Complies with:

- ICAO Annex 14
- ICAO Aerodrome Design Manual Part 5
- NAVAIR 51-50AAA-2
- UFC 3-535-02



An ISO 9001:2015 Certified Company

Application

Our L-828 / L-829 Constant Current Regulator is used to provide power to airfield lighting systems. It offers a selectable AC constant current to change the airfield lighting intensity as needed based on weather conditions.

Key Features

- Ferroresonant design allows for high-efficiency, high-power factor sinusoidal constant current output
- Efficiency over 90%, power factor .99
- Stable output current is not affected by flashing loads from strobes or runway guardlights
- Intuitive, fully digital interface included on all models
- Powerful software allows CCR to be recalibrated in field, recall previous settings & calibration, change brightness steps, track warnings & faults, and more
- Digital output current reading and digital output voltage reading on all models
- High quality lightning arrestors used for output connections
- Transient protection on input power circuit ensures long CCR life and equipment protection
- Open circuit, overcurrent, and overvoltage protection on all models
- Safety interlock disconnects output power when cabinet door is opened
- Quiet operation
- Stackable



FR□□□-□□□□□-□□

Type

828 = Ferroresonant L828
829 = Ferroresonant L829

Output Rating

| | |
|------------|------------|
| 1 = 1kW | 15 = 15kW |
| 2 = 2kW | 20 = 20kW |
| 4 = 4kW | 25 = 25kW |
| 5 = 5kW | 30 = 30kW |
| 7 = 7.5 kW | 50 = 50kW* |
| 10 = 10kW | 70 = 70kW* |

Class

A = 6.6 Amp
B = 20 Amp

Input Voltage

1 = 208 VAC, 60Hz
2 = 220 VAC, 60Hz
3 = 240 VAC, 60Hz
4 = 480 VAC, 60Hz
5 = 220 VAC, 50Hz*
6 = 230 VAC, 50Hz*
7 = 240 VAC, 50Hz*
8 = 380 VAC, 50Hz*
9 = 400 VAC, 50Hz*

Control Voltage

A = 24 VDC Internal
B = 24 VDC External
C = 48 VDC Internal
D = 48 VDC External
E = 120 VAC Internal
F = 120 VAC External

Brightness Steps

1 = Single Step - 5.5A (default), or other as specified
3 = 3-Step - 4.8A, 5.5A, 6.5A
5 = 5-Step - Class 1 is 2.8A, 3.4A, 4.1A, 5.2A, 6.6A
Class 2 is 8.5A, 10.3A, 12.4A, 15.8A, 20A

Options

- 1 = S-1 Cutout installed
- 2 = Insulation Resistance Monitor (Automatic Megger)
- 3 = Input Power Monitoring (current, voltage, VA, power, power factor)
- 4 = Output Power Monitoring (voltage, VA, power, power factor)
- 5 = Integral Circuit Breaker
- 6 = Single Ethernet/IP Interface
- 7 = Dual Ethernet/IP Interface
- 8 = Single Mod/TCP Ethernet Interface
- 9 = Dual Mod/TCP Ethernet Interface
- 10 = Single RS-485 & Single Ethernet/IP Interface
- 11 = Dual RS-485 Interface
- 12 = Castors

Example: FR828-4B3C3-6 is a Ferroresonant L828 4kW, 20 Amp, 240 VAC, 60Hz, 48 VDC Internal, 3-Step with an optional Single Ethernet/IP Interface

*Compliant to FAA Specification





L828/L829 Ferroresonant Constant Current Regulator

An ISO 9001:2015 Certified Company

Shipping & Sizing Information

| kW Rating | CCR Ship Weight (No Options) | Shipping Size (With Pallet) | CCR Install Weight (No Options) | Install Size (Without Pallet) |
|-----------|---------------------------------|--------------------------------|------------------------------------|----------------------------------|
| 1 | 300 | 30" W x 31" D x 45" H | 280 | 24" W x 25.25" D x 40" H |
| 2 | 350 | " " | 330 | " " |
| 4 | 400 | " " | 380 | " " |
| 5 | 450 | " " | 420 | " " |
| 7.5 | 530 | " " | 510 | " " |
| 10 | 630 | " " | 610 | " " |
| 15 | 865 | 40" W x 36" D x 45" H | 835 | 36" W x 31.25" D x 40" H |
| 20 | 1100 | " " | 1070 | " " |
| 25 | 1300 | " " | 1270 | " " |
| 30 | 1450 | " " | 1420 | " " |

| KW Rating | Enclosure Size |
|---------------|----------------------|
| 1 kW - 10 kW | 24"W x 25.5D x 40"H |
| 15 kW - 30 kW | 36"W x 30.25D x 40"H |

Additional Option Information

Internal S-1 Cutout: An Airport Lighting Company S-1 Cutout is installed directly in the enclosure of the CCR. Once the CCR is turned off, the S-1 Cutout handle may be removed and taken with servicing personnel to ensure safe work conditions.

IRMS: The IRMS (Insulation Resistance Monitoring System) can be configured to run manually or daily. With this option, the CCR will provide a digital resistance measurement to the user on the front display. The resistance reading can be tracked by site staff to gain insight to field-circuit integrity and to anticipate required maintenance.

Integrated Circuit Breaker: A circuit breaker is included inside the CCR that is actuated with a door-mounted handle. The door-mounted handle is capable of accepting a lock for lock-out-tag-out safety measures.

Replaceable Parts List

| Part Number | Description |
|-------------|----------------------------------|
| 82-88 | 5A Fuse for FA1, FA2 |
| 82-76 | 5A Fuse for FA3 |
| 82-77 | 2.5A Fuse for FA4 |
| 82-78 | 1A Fuse for FA5 |
| 290-28D1003 | DCMU, Standard |
| 290-280A05 | Firing Card Assembly |
| 290-280A06 | Firing Card with Megger Assembly |
| 282-10030 | Front Panel Display Assembly |
| 82-45 | Display Cable |
| 55-00201 | Door Switch/Safety Interlock |
| 282-10005 | Contactors MOV Assembly |
| 282-10002 | Snubber Assembly |



L-828/L-829 Ferroresonant Constant Current Regulator SRA Switchgear Regulator Assembly



An ISO 9001:2015 Certified Company



Intertek

Compliances

L-828/L-829 AC 150/5345-10 (Current Edition)

Monitoring according to AC 150/5345-10 (Current Edition)

Application

The switchgear regulator cell fits into a switchgear line up. Switchgear regulators allow a smaller installation footprint, minimize down time and ease of connection to other vital airport systems such as ALCMS.

Supplies three or five precision output currents to power airfield series lighting circuits.

Key Features

- L-828 or L-829 Switchgear cells available
- Class 1 or Class 2* availability for 6.6A or 20A circuits
- Air cooled
- Maximum efficiency power factor
- Dedicated raceways for control and power
- Easy Installation and Operation
- Built in IRMS availability
- Internal S -1 Cutout availability
- 3 or 4 bus availability, up to 65kAIC

Standard Features

- Digital True-RMS readings of output current, output voltage, kW, kVA
- Temperature alarm
- 120VAC or 24VDC control
- Circuit breaker interlocks with door for added safety
- Available kW ratings include - 1kW, 2kW, 4kW, 5kW, 7.5kW, 10kW, 15kW, 20kW, 25kW & 30kW
- 24 inch wide cells for 1kW - 10kW regulators
- 36 inch wide cells for 15kW - 30kW regulators

*Compliant to FAA Specification



Ordering Information

To order a Switchgear Regulator System, contact the Airport Lighting Company Sales Department - (315) 682-6460

Specifications

Electrical

- Input Voltage: 208VAC*, 220VAC*, 240VAC, 480VAC 60Hz (50Hz and additional voltage available upon request)
- Output: 6.6A or 20A*
- Redundant communications available
- Circuit breaker interlock & door switch interlock





828HC – Benchtop CCR

An ISO 9001:2015 Certified Company

Application

The 828HC Benchtop Constant Current Regulator (CCR) is used to test a wide range of airfield-lighting products from the convenience of a maintenance garage, truck in the field or vault.

Key Features

- 120V, 6A input allows for operation on a standard 15A or 20A wall receptacle
- Ferroresonant design employs same vital components as Airport Lighting Company's full-size CCR lineup
- 500W Rating allows larger equipment to be connected
- Capable of powering flashing equipment including strobes and guardlights
- Fully loaded output is only 76V
- Output power connections are factory-molded L-823 Type I male and female primary-style, allowing standard L-830 isolation transformers to be used
- Open circuit, overcurrent, and overvoltage safeties on all models
- Output current can be controlled to increments of .01A
- 3-step, 5-step, or combined 7-step operation available and changeable in field
- Display includes digital readings of output current and output voltage
- Same intuitive, fully digital interface as Airport Lighting Company's full-size CCR
- Powerful software allows CCR to be recalibrated in field, recall previous settings & calibration, change brightness steps, track warnings & faults, and more
- Safety interlock disconnects output power when cabinet door is opened
- Rubber feet prevent shifting and are oil & grease resistant
- Plug & Play operation



Specifications

Electrical

- Input Voltage: 120VAC, 60Hz
- Maximum Output: 6.6A, 76VAC

Install Dimensions

- 18"W x 17"D x 9.2"H - 74 lbs.
- Part Number: 828HC



L-847 Circuit Selector Switch

An ISO 9001:2015 Certified Company

Compliances

ETL Certified FAA AC 150/5345-5 (Current Edition)
Complies with:

- ICAO Annex 14
- ICAO Aerodrome Design Manual Part 5
- NAVAIR 51-50AAA-2



Intertek

Application

The Circuit Selector Switch is used to direct the output of a Constant Current Regulator between one or more series circuits. The usage may include, but is not limited to, switching sections of taxiways, PAPIs, or REILs.

Key Features

- Easy Installation and Operation
- Clear dead-front cover ensures users are protected from High Voltage connections
- May be used with Local or Remote control
- Optional Monitoring provides indication of user command as well as sensed current
- Rated for 6.6A or 20A circuits
- Wide input voltage range of 100VAC to 240VAC, 50/60Hz
- Make-before-break solid-state control ensures reliable operation
- Dependable, high-quality vacuum relays ensure safety and long-term operation
- Optional Interlock allows for remote shutdown of connected CCR

Specifications

Electrical

- Input Voltage: 100VAC - 240VAC, 50/60Hz
- Remote Control Voltage: 24V – 120V, 60Hz
- Monitoring Voltage: 24V – 120V, 50/60Hz

Operational

- Operating Temp: -40°F to +131°F (-40°C to +55°C)



847-□-□-□-□□□

Type

- 1 = 1 Circuit
- 2 = 2 Circuits
- 3 = 3 Circuits
- 4 = 4 Circuits

Class

- A = Indoor Rated
- B = Outdoor Rated

Rating

- 1 = 6.6 Amp, 5kV Circuits
- 2 = 20 Amp, 5kV Circuits*

Remote Control Power

- 1 = Internal 24VDC
- 2 = Supply Power (Nominal: 120 VAC)
- 3 = External 24V-120V

Monitor Power

- 0 = No Monitoring
- 1 = Internal 24VDC
- 2 = Supply Power (Nominal: 120 VAC)
- 3 = External 24V-120V

CCR Interlock Capability

- 0 = No Interlock Capability
- 1 = CCR Interlock Ready

*Compliant to FAA Specification





Airfield Lightning Arrestor

An ISO 9001:2015 Certified Company

Compliances

Complies with AC of 150/5345-10F, Section 3.4.12 (Lightning/Surge Arrestors) Current Edition

Application

The ALA can be deployed at various locations in the 5kV primary series circuit to help reduce the susceptibility of airfield circuits to lightning strikes or surges.

Key Features

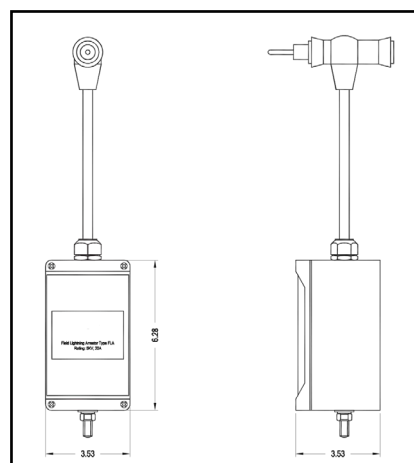
- Compatible with all types of L-828/L-829 CCRs, incandescent and LED light fixtures and isolation transformers operating on 6.6A or 20A series circuits.
- Designed for operation at 5000V, the ALA is suitable for any airfield series circuit up to 30KW at 6.6A, and up to 70KW at 20A.
- Rated IP68 (NEMA 6P), suitable for installation in below ground base cans, handholes and manholes, or by direct burial.
- Connection to the primary circuit uses an L-823 male/female "T" connector(s) to ensure the primary circuit remains intact upon a failure of the ALA.
- A 3/8"-16 stainless steel stud provides solid ground connection for #6 AWG or larger ground wire.
- Compatible with Insulation Resistance Monitoring Systems (IRMS) and 500V to 5KV meggers.
- The ALA can be tested using a 5KV megger. Resistance from Line to Ground terminals should be greater than 2G ohm.



Recommended Use

The ALA is designed to be installed in the 5KV primary series circuit. In order to offer the optimal circuit protection from possible lightning strikes or power surges it is suggested the ALA should be installed at the beginning of the circuit closest to the Constant Current Regulator (CCR). Additional ALA's should be added onto the circuit at intervals of 2,000 feet (600m). ALAs can be installed at closer intervals should the circuit be in an area that is highly susceptible to lightning strikes. Each ALA adds additional local protection against damage from lightning strikes reducing the risk of widespread damage in the field and to equipment in the electrical vault.

Dimensions

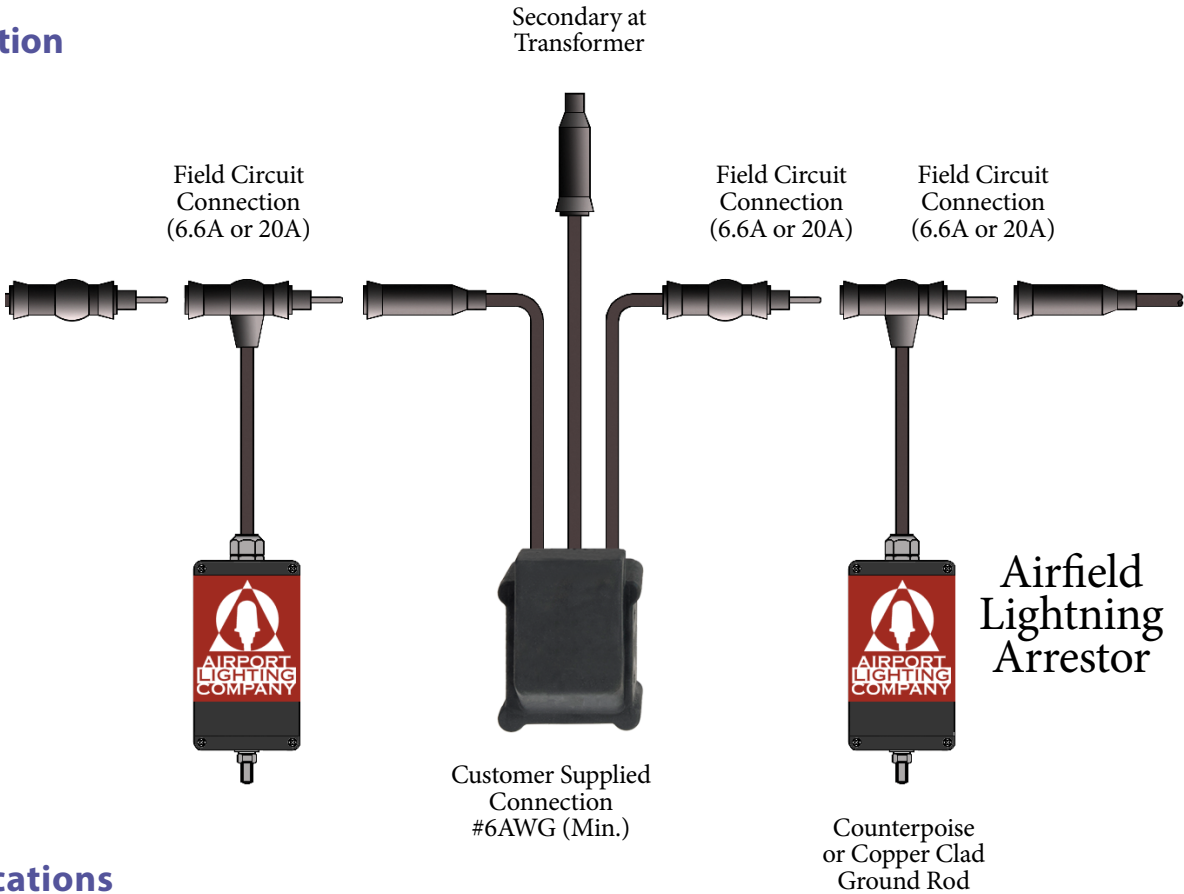


Airfield Lightning Arrestor



An ISO 9001:2015 Certified Company

Connection



Specifications

| | |
|---|---|
| MODEL | ALA |
| Nominal Voltage | 6 KV |
| Continuous Operation Voltage | 5.1 KV |
| Duty Cycle | 10 kA crest (20 current surges) 40 kA crest (2 current surges) 8 / 20 us wave shape |
| High Current Discharge (Short Duration) | 100 kA crest (2 current surges) 4 / 10 us wave shape |
| Low Current Discharge (Long Duration) | 250A crest (20 current surges) 2000 us wave shape |
| Maximum Discharge Voltage | 19.8KV Crest @ 10kA 24.7KV Crest @ 40kA 8 / 20 us wave shape |
| Protection Index | IP68 (NEMA 6P) |
| Operating Temperature | -40°C to +60°C |
| Weight | 2 kg (4.4 lb) |



L-823 Primary Connector Kits

An ISO 9001:2015 Certified Company

Compliances

Certified to FAA AC 150/5345-26 (Current Edition)

Application

These kits provide secure connections in critical applications



Key Features

- Electrical rating - 25 Amps, 5000 Volts
- Constructed of rugged thermoplastic rubber for long-lasting, reliable service
- Every kit filled with silicone for maximum moisture protection
- Manufactured by ABB or Integro



How to Order

To specify the proper kit:

Using a letter from **Table 1** and then a number from **Table 2**, describe first the plug and then the receptacle.

Example: A Classic Primary Connector Kit designed for use with a cable diameter of .34" and #8 stranded wire would be 54-**D4-D4**.

| Table 1 | | | Table 2 | | |
|------------------------|---------|-----------|--------------------------|-------|-----------|
| Cable Outside Diameter | | Size Code | Wire Size (AWG) and Type | | Size Code |
| Minimum | Maximum | | Concentric Stranded | Solid | |
| .195" | .260" | B* | | | |
| .250" | .330" | C | 10-12 | 8-10 | 6 |
| .320" | .430" | D | 8 | 6 | 4 |
| .370" | .507" | Z | 6 | 4 | 3 |
| .420" | .585" | E | 4 | - | 2 |
| .575" | .785" | F | 2 | - | 1 |

*54 Classic Kit only includes adapter



L-823 Super Connector Kits



An ISO 9001:2015 Certified Company

Compliances

Certified to FAA AC 150/5345-26 (Current Edition)

Application

These kits provide secure connections in critical applications

Key Features

- Constructed of rugged thermoplastic rubber for long-lasting, reliable service
- Tighter, Longer water seal to cable
- Will never come off cable
- Second full water seal at the connector surface
- Increased separation force between connectors
- Manufactured by ABB



How to Order

To specify the proper kit:

Using a letter from **Table 1** and then a number from **Table 2**, describe first the plug and then the receptacle.

Example: A Super Connector Kit designed for use with a cable diameter of .34" and #8 stranded wire would be 54Super-**D4-D4**.

| Table 1 | | | Table 2 | | |
|------------------------|---------|-----------|--------------------------|-------|-----------|
| Cable Outside Diameter | | Size Code | Wire Size (AWG) and Type | | Size Code |
| Minimum | Maximum | | Concentric Stranded | Solid | |
| .195" | .260" | B | | | |
| .250" | .330" | C | 10-12 | 8-10 | 6 |
| .320" | .430" | D | 8 | 6 | 4 |
| .370" | .507" | Z | 6 | 4 | 3 |
| .420" | .585" | E | 4 | - | 2 |
| .575" | .785" | F | 2 | - | 1 |





L-823 Secondary Connector Kits

An ISO 9001:2015 Certified Company

Compliances

Certified to FAA AC 150/5345-26 (Current Edition)

Application

These kits provide secure connections in critical applications

Key Features

- Each kit comes with a molded male or female connector housing, as well as an instruction sheet and grease packet for installation
- Secondary Connector Kits are molded in synthetic rubber for superior dielectric strength, and to ensure watertight connection in the field
- Manufactured by ABB or Integro

How to Order

To specify the proper part:

Use a prefix and letter from **Table 1** and then a number from **Table 2**.

Example: A plug designed to terminate (2) single conductors with diameters of .205" and #8 stranded wire would be **90P-A4**.



Intertek



Table 1

| Cable Outside Diameter | | Prefix | Size Code |
|------------------------|---------|---------------------------------|-----------|
| Minimum | Maximum | | |
| .120" | .160" | 90P/R* (2 single conductors) | S |
| .155" | .205" | | A |
| .195" | .260" | | B |
| .250" | .330" | | C |
| .320" | .430" | 91P/R* (2 core cables) | D |
| .420" | .585" | | E |
| .575" | .785" | | F |

Table 2

| Wire Size (AWG) and Type | | Size Code |
|--------------------------|-------|-----------|
| Concentric Stranded | Solid | |
| 14-16 | 12-14 | 8 |
| 10-12 | 8-10 | 6 |
| 8 | 6 | 4 |

*P = Plug
R = Receptacle



L-823 Secondary Cable Assemblies



An ISO 9001:2015 Certified Company

Compliances

Certified to FAA AC 150/5345-26 (Current Edition)

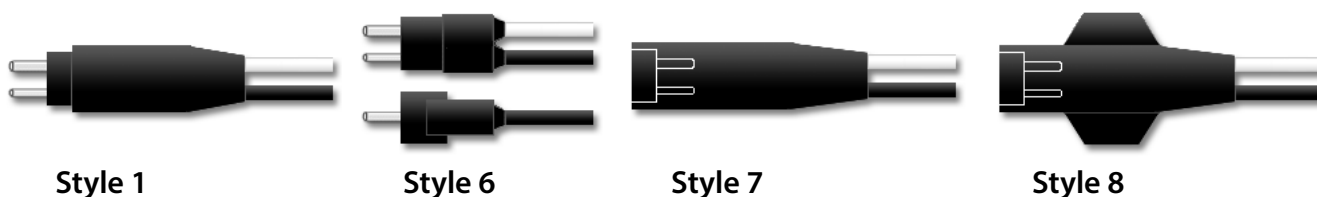
Application

Provides reliable connections in the harshest conditions



Key Features

- Manufactured by ABB or Integro
- Constructed of rugged thermoplastic rubber for long-lasting, reliable service



General Catalog Numbers

95M-□-□-□.□

Connector(s)

- P** Style 1 Plug
P6 Style 6 Plug
R7 Style 7 Receptacle
R8 Style 8 Receptacle

For connectors on both ends use two codes, otherwise one.

Cable

- F** Two individual #12 AWG (3,3mm²) thermoplastic insulated, waterproof wires, rated 600 volts between contacts, 1500 volts to earth, 20 amp, 90°C. O.D. 4,7mm (.185")
- G** 2/12 AWG (3,3mm²) thermoplastic insulated waterproof cable with overall jacket, rated 600 volts between contacts, 1500 volts to earth, 20 amp, 90°C. O.D. 12,7mm (.5")
- H** Two individual #16 AWG (1,3mm²) thermoplastic insulated, waterproof wires, rated 600 volts between contacts, 1500 volts to earth, 20 amp, 90°C. O.D. 3,2mm (.125")
- I** 2/16 AWG (1,3mm²) thermoplastic insulated waterproof cable with overall jacket, rated 600 volts between contacts, 1500 volts to earth, 20 amp, 90°C. O.D. 9,4mm (.37")
- K** Two individual #14 AWG (2,1mm²) Teflon insulated wires, rated 600 volts between contacts, 1500 volts to earth, 20 amp, 200°C, wires certified to UL1199 and CSA1A/B
- L** As K above except #16 AWG (1,3mm²)

Available in 1/2 meter increments to any length.



L-830 Isolation Transformers

An ISO 9001:2015 Certified Company

Compliances

Certified to FAA AC 150/5345-47 (Current Edition)



Applications

These transformers provide reliable performance in the most demanding environments

Key Features

- Manufactured by ABB or Integro
- Injection molding ensures low current leakage
- Flat response load curves guarantee constant lamp brilliancy and long life
- Primary and Secondary leads are factory molded
- Isolates fixtures from the high voltage series circuit



| FAA Designation | Part # (60Hz)* | Rated Watts | PRI/SEC Amps |
|-----------------|----------------|-------------|--------------|
| L830-1 | 34-1 | 30/45 | 6.6/6.6 |
| L830-2 | 34-2 | 30/45 | 20/6.6 |
| L830-3 | 34-3 | 65 | 6.6/6.6 |
| L830-4 | 34-4 | 100 | 6.6/6.6 |
| L830-5 | 34-5 | 100 | 20/6.6 |
| L830-6 | 34-6 | 200 | 6.6/6.6 |
| L830-7 | 34-7 | 200 | 20/6.6 |
| L830-8 | 34-8 | 300 | 6.6/20 |
| L830-9 | 34-9 | 300 | 20/20 |
| L830-10 | 34-10 | 300 | 6.6/6.6 |
| L830-11 | 34-11 | 300 | 20/6.6 |
| L830-12 | 34-12 | 500 | 6.6/20 |
| L830-13 | 34-13 | 500 | 20/20 |
| L830-14 | 34-14 | 500 | 6.6/6.6 |
| L830-15 | 34-15 | 500 | 20/6.6 |
| L830-16 | 34-16 | 10/15 | 6.6/6.6 |
| L830-17 | 34-17 | 20/25 | 6.6/6.6 |
| L830-18 | 34-18 | 150 | 6.6/6.6 |
| L830-19 | 34-19 | 150 | 20/6.6 |

*50Hz available upon request



Heat Shrink

An ISO 9001:2015 Certified Company

Fast, reliable waterproof connections

Key Features

- Protects against water intrusion and accidental disconnection
- Provides added strain relief for the connector/cable assembly
- Heat indicating lines
- High impact and abrasion resistance
- Installs in minutes
- Adhesive at ends only allows easy removal for connector-kit maintenance (#81)
- Continuous operating temperature -55°C to 110°C
- Shrink temperature: 120°C

Ordering Information

#80 16" Adhesive Throughout
#81 16" Adhesive at Ends Only

Technical Data

| Property | Test Method | Typical Performance |
|---|-----------------------------------|--|
| Tensile strength | ASTM D412, ISO 37 | 2100 psi (14.5 MPa) |
| Elongation | ASTM D412, ISO 37 | 550% |
| Longitudinal Change | ASTM D2671 | +1%, -10% |
| Specific Gravity | ASTM D792, ISO 37 | 1.1 |
| Elongation after Heat Aging (168 hrs at 150°C) | ASTM D2671, ISO 37 | 500% |
| Heat Shock (4 hrs at 225°C) | ASTM D2671 | No cracking or flowing |
| Low Temperature Flexibility (4 hrs at -55°C) | ASTM D2671 | No cracking |
| Hardness (Shore D) | ASTM D2240 | 50D |
| Electrical | | |
| Dielectric Strength | ASTM D149 | 500 V/Mil (20kV/mm) |
| Dielectric Voltage Withstand (2500V, 60Hz, 1 min) | UL-486D | No Breakdown |
| Volume Resistivity | ASTM D257 | 10 ¹⁶ ohm-cm |
| Chemical | | |
| Fluid Resistance | MIL-DTL-23053/5, ISO 1817, ISO 37 | Good to Excellent |
| Copper Corrosion | ASTM D2671 | No Corrosion |
| Water Absorption | ASTM D570 | 0.1% |
| Fungus Resistance | ASTM G21 | No Growth |
| Adhesive | | |
| Adhesive Softening Point | ASTM E28 | 92°C +/- 5°C |
| Adhesive Peel Strength (300mm/min at 23°C) | ASTM D1000 | |
| -to steel, alum, P.E. | ASTM D1000 | 35 pli |
| -to PVC | ASTM D1000 | 20 pli |
| Adhesive Lap Shear (1in/min at 23°C) | ASTM D1002 (mod) | 125 psi (0.875 MPa) |
| Adhesive Blocking (30°C) | ASTM D1146 | No blocking |
| Water Penetration | STM 706 | No penetration after 286 hrs. (min) of continuous immersion. |



Dimensions

Expanded - Internal Dia (min) 38.1mm/1.5in
Recovered - Internal Dia (max) 9.53mm/0.0375in
Wall Thickness (nom) 2.0mm/0.08in
Sleeve Length - 40.6cm/16in





S-1 Series Cutout

An ISO 9001:2015 Certified Company

Compliances

Complies with AC 150-5340-30 (Current Edition)

Application

Installed to isolate the series circuit from the constant current regulator for maintenance or testing easy two position "handle in" and "handle out" to quickly determine cutout status.

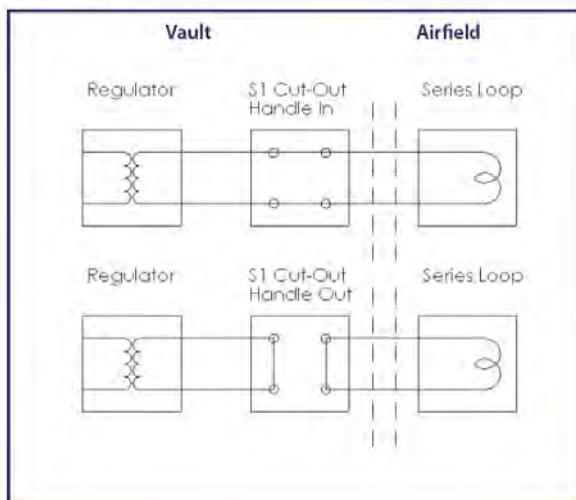
Key Features

- Isolates the series circuit from the constant current regulator
- Shorts regulator output for troubleshooting
- Suitable for 6.6 or 20 amp circuits
- Removable handle ensures series circuit is de-energized
- Handle is designed to fit inside a tool box to add a second level of security
- Housing fabricated from durable nonconductive materials

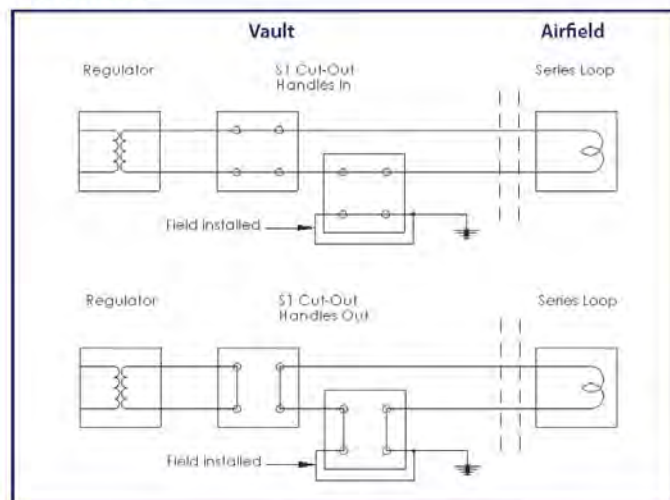


Part #S-1

Standard



Grounded





L-854 Radio Receiver/Decoder

An ISO 9001:2015 Certified Company

Compliances

Certified to FAA Type 1, Style A AC; 150/5345-49 (Current Edition)
Specification L-854 Radio Control Equipment
AC 150/5345-49 Approved Airport Lighting Equipment



Application

Provides pilots with direct, unassisted air-to-ground control of airfield lighting systems

Key Features

- Two banks of 3-5-7 control outputs independently configurable for sequential or cumulative control modes
- Two banks of 3-5-7 control outputs independently configurable for various control output voltages
- Two independent control voltage inputs
- Optical isolation from controlled equipment for electronic protection
- Low power consumption
- Reduce need for interface box
- Selectable frequency range 118-137Mhz
- Built on proven synthesized receiver technology
- Excellent sensitivity: (10db S/N) 0.2uV



RDL854-1A

Available Options

- Internal or external battery backup systems
- Flexible input power options
- Internal, external or remote audio output and volume control
- External or remote control and status indicator panel

General Catalog Numbers

| L854 | - | <input type="checkbox"/> | - | <input type="checkbox"/> | - | <input type="checkbox"/> | - | <input type="checkbox"/> |
|---------|---|--------------------------|---|--------------------------|---|--------------------------|---|--------------------------|
| Type | | Voltage | | Load | | Options | | |
| 0=Std 6 | | 0=120vac | | 0=5amp | | 0=None | | |
| 1=Sngl* | | 1=230vac | | 1=30amp* | | 1=Less Encl | | |
| 2=Spcl | | 2=12vdc*** | | 2=40amp* | | 2=Sngl TD 1 hr* | | |
| | | 3=Spcl | | 3=50amp** | | 3=Sngl TD 1-10hr* | | |
| | | | | 4=Spcl | | 4=(3) TD 1hr | | |

*Single only

**Loads over 50amps require a separate contractor enclosure

***Not ETL Certified



Photo Electric Control (PEC)



An ISO 9001:2015 Certified Company

Application

Automatic dusk to dawn operation of tower and obstruction lighting circuit

Key Features

- Meets FAA/FCC requirements
- Two 30 ampere load contacts
- Direct replacement of older and newer types
- Stable electronic circuitry
- No chatter due to built-in time delay
- Molded plastic control housing with gasket
- Cast aluminum junction box with one inch hubs, top and bottom
- LED power indication
- Surge protected



Part #PEC

Specifications

Type: Light actuated electronic circuitry with high current electromechanical output contacts

Indication: LED power indicator

Operating Voltage: 120 VAC \pm 20% 50/60 Hz

Output Rating: Two SPST N.O. 30 Amp contacts

Terminations: Screw terminals for up to #8 AWG wire

Mechanical: ABS plastic housing with gasket seal

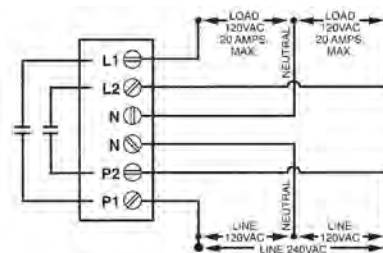
Multiple knockout holes for optional mounting to aluminum boxes

Light Actuation Levels (Factory Calibrated):

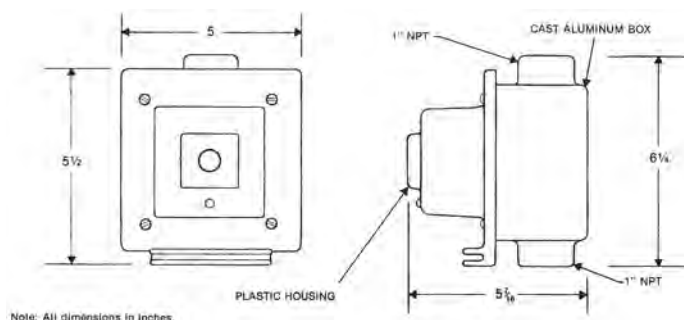
Energized: 35fc and below

De-energized: above 60fc

Three wire service switching both hot lines.



Mechanical



Note: All dimensions in inches.



Solar Aviation Light AV-OL-70 & AV-OL-70-HI



An ISO 9001:2015 Certified Company

Compliances

Certified to FAA AC150/5370-2F for construction and barricade installations

ICAO Annex 14 Volume 1, 'Aerodrome Design and Operations', Fourth edition July 2004, paragraph 5.3.17.7.

Application

- Barricade • Caution • Taxiway
- Threshold • Obstruction

Key Features

- Integrated solar/battery system
- Dual internal high-performance solar modules angled to maximize solar collection
- Fast & easy to deploy - no programming
- IP68 waterproof rating
- User-replaceable battery
- Ultra-high intensity LEDs - no globe changes ever

These completely self-contained LED lights have two high performance solar modules mounted within the lens, which maximize solar collection and provide reliable operation in a range of environmental conditions.

The AV-OL-70 is made from tough, durable UV stabilized LEXAN® polycarbonate, and incorporates an internal photodiode for automatic night activation once the ambient light threshold drops sufficiently.

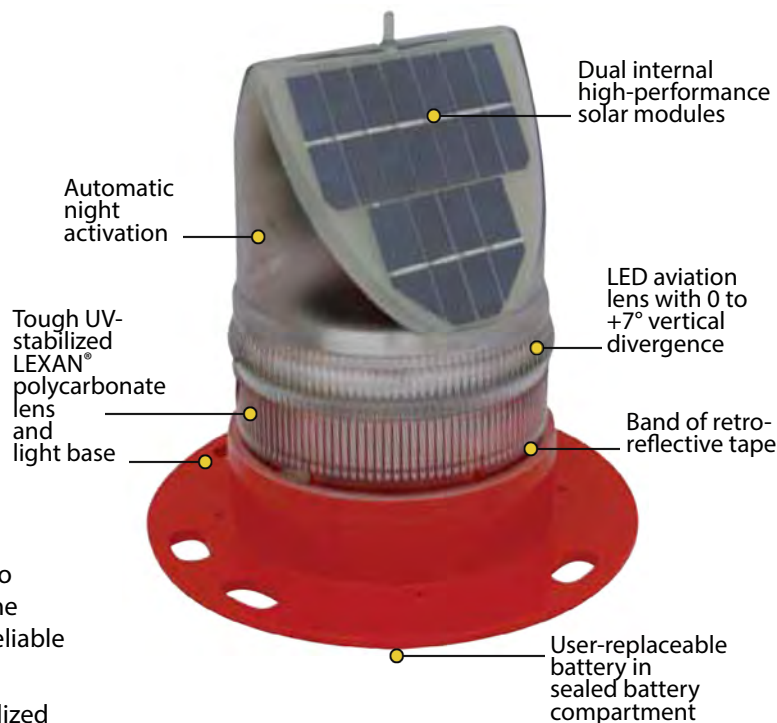
Completely self-contained, able to be installed in minutes, and simple to maintain, the AV-OL-70 is the preferred choice of remote airfields throughout the world..

AV-OL-70-HI

The AV-70-HI is a high intensity version of the popular AV-OL-70 and is ideal for use in high sunlight areas that receive a minimum of 3.5 hours of sun per day.

Optional Radio Control

The AV-70-RF is a radio-controlled version of the popular AV-OL-70, which can be used in conjunction with a PALC or simple handheld controller. Users can wirelessly control ON/OFF functions, adjust light intensities or switch between visual and IR (tactical) operational modes.



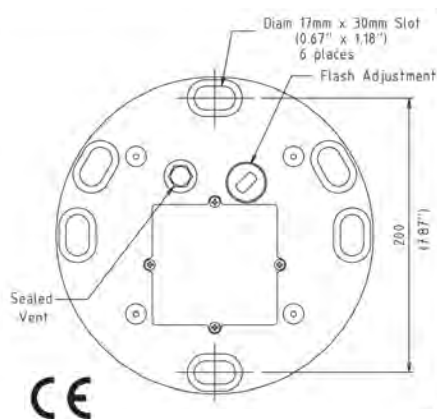
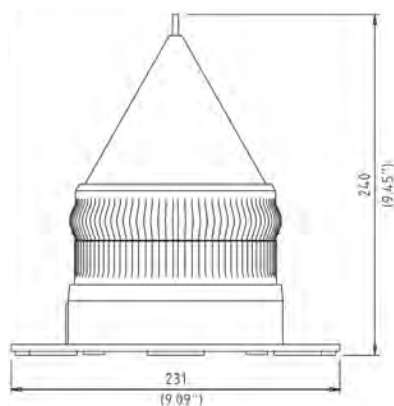
Optional



The AV-SB-3 Solar Booster™ can be connected to the AV-OL-70 light to provide additional solar collection for charging the battery. The Avlife Solar Booster™ can be used in areas of reduced sunlight to help ensure optimum battery charge.



| SPECIFICATIONS * * | AV-OL-70 | AV-OL-70-HI |
|-----------------------------------|---|---|
| Light Characteristics | | |
| Light Source | 1 LED | 1 LED |
| Available colors | Red as standard. Other colors available on request, including IR | Red as standard. Other colors available on request, including IR |
| Peak Intensity (cd)† | 10 | 10 |
| Horizontal Output (degrees) | 360 | 360 |
| Available Flash Characteristics | >250 including steady-on (user-adjustable) | >250 including steady-on (user-adjustable) |
| Intensity Adjustments | Low: 25% Medium: 50% High: 100% | Low: 25% Medium: 50% High: 100% |
| LED Life Expectancy (hours) | >100,000 | >100,000 |
| Electrical Characteristics | | |
| Operating Voltage (V) | 3.6 | 3.6 |
| Power (W) | @ 100% intensity: 0.2W | @ 100% intensity: 0.2W |
| Temperature Range | -40 to 80°C | -40 to 80°C |
| Solar Characteristics | | |
| Solar Module Type | Multicrystalline | Multicrystalline |
| Output (watts) | 2.5 (2 x 1.25watt) | 2.5 (2 x 1.25watt) |
| Charging Regulation | Microprocessor controlled | Microprocessor controlled |
| Power Supply | | |
| Battery Type | High grade NiMH – Environmentally friendly | High grade NiMH – Environmentally friendly |
| Battery Capacity (Ah) | 8 | 16 |
| Nominal Voltage (V) | 3.6 | 3.6 |
| Autonomy (nights) | Steady-on: 12 nights | Steady-on: 16Ah = 24 nights |
| Physical Characteristics | | |
| Body Material | LEXAN® Polycarbonate – UV stabilized | LEXAN® Polycarbonate – UV stabilized |
| Lens Material | LEXAN® Polycarbonate – UV stabilized | LEXAN® Polycarbonate – UV stabilized |
| Lens Diameter (mm/inches) | 140 / 5½ | 140 / 5½ |
| Lens Design | External optics with interior flute design | External optics with interior flute design |
| Mounting | 6 x 17mm holes on 200mm PCD | 6 x 17mm holes on 200mm PCD |
| Height (mm/inches) | 240 / 9½ | 240 / 9½ |
| Width (mm/inches) | 231 / 9⅞ | 231 / 9⅞ |
| Mass (kg/lbs) | 1.1 / 2½ | 1.1 / 2½ |
| Product Life Expectancy | 12 years plus | 12 years plus |
| Environmental Factors | | |
| Humidity | 0 to 100%, MIL-STD-810F | 0 to 100%, MIL-STD-810F |
| Icing | 3.41kg per square cm / 48.5lbs per square inch | 3.41kg per square cm / 48.5lbs per square inch |
| Wind Speed | Up to 160kph / 100mph | Up to 160kph / 100mph |
| Shock | MIL-STD-202G, Test Condition G, Method 213B | MIL-STD-202G, Test Condition G, Method 213B |
| Vibration | MIL-STD-202G, Test Condition B, Method 204 | MIL-STD-202G, Test Condition B, Method 204 |
| Certifications | | |
| CE | EN61000-6-3:2007 EN61000-6-1:2007 | EN61000-6-3:2007 EN61000-6-1:2007 |
| Quality Assurance | ISO9001:2008 | ISO9001:2008 |
| Waterproof | IP68 | IP68 |
| Intellectual Property | | |
| Patents | US Pat. No. 6,667,582. AU Pat. No. 778,918 | US Pat. No. 6,667,582. AU Pat. No. 778,918 |
| Trademarks | AVLITE® is a registered trademark of Avlite Systems | AVLITE® is a registered trademark of Avlite Systems |
| Warranty * | 3 year warranty | 3 year warranty |
| Options Available | <ul style="list-style-type: none"> • IR LEDs • External ON/OFF Switch • External Battery Charging Port • Solar Booster™ | <ul style="list-style-type: none"> • IR LEDs • External ON/OFF Switch • External Battery Charging Port • Solar Booster™ |



AirportLightingCompany

- Specifications subject to change or variation without notice
- Subject to standard terms and conditions
- † Intensity setting subject to solar availability



AV-60 Solar Aviation Light

Compliances

An ISO 9001:2015 Certified Company

Certified to FAA AC150/5370-2F for construction and barricade installations

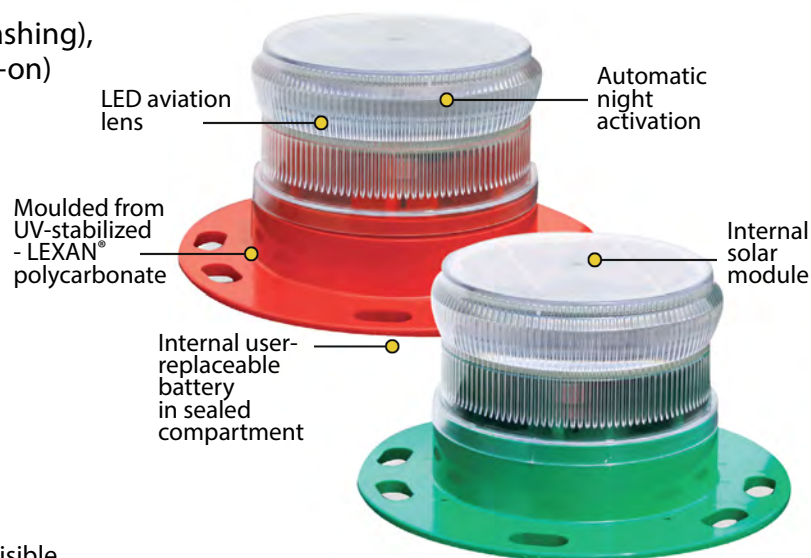
ICAO Annex 14 Volume 1, 'Aerodrome Design and Operations', Fourth edition July 2004, paragraph 5.3.17.7.

Typical Applications

- Barricade
- Caution
- Taxiway (ICAO)
- Hazard
- Obstruction

Key Features

- Provides up to 5.7km visible range (flashing), and up to 3.7km visible range (steady-on) color dependent
- Integrated solar/battery system
- IP68 waterproof rating
- User-replaceable battery
- Ultra-high intensity LEDs - never change globes



The AV-60 solar LED light provides up to 5.7km visible range (flashing). The positive divergence and wide angle lens makes it suitable for a variety of applications.

Designed to be maintenance-free and have a service life of up to 12 years, the popular AV-60 model features user-adjustable intensity settings and can be set onsite to either steady-on or flashing operation. The light is simply switched 'ON', and the unit is ready for immediate operation. Once installed, the AV-60 requires no operator intervention.

The internal solar module charges the battery during daylight hours, and at dusk the light will automatically begin operation once the ambient light threshold drops sufficiently. The battery is housed in a sealed compartment allowing it to be changed after years of service.

Coupled with the latest LED technology, and a highly efficient DC/DC converter, the light may provide over 40 days of continuous operation without sunlight. The AV-60 comes with a large 200mm bolt pattern.

Optional ON/OFF Switch

The AV-60 is also available with an optional external ON/OFF switch; this means, when in position, the light can be turned on with the flick of a switch.



SPECIFICATIONS * *

AV-60

Light Characteristics

Light Source: 6 ultra-high intensity LEDs
 Available colors: Red, Green, White, Yellow, Amber, Blue, Sectored Combinations
 Peak Intensity (cd)†: Steady-on: Blue - 1.0 Red - 3.3 Green - 5.0 White - 4.4 Yellow - 3.0
 Flashing: Blue - 3.3 Red - 7.3 Green - 16.1 White - 14.3 Yellow - 6.9
 360
 Horizontal Output (degrees): 15
 Vertical Divergence (degrees): Omnidirectional 360° LED Reflector
 Reflector Type: (US Pat. No. 6,667,582; AU Pat. No. 778,918)
 Available Flash Characteristics: >250 including steady-on (user-adjustable)
 Intensity Adjustments: Adjustable in 25% increments
 LED Life Expectancy (hours): >100,000

Electrical Characteristics

Operating Voltage (V): 3.6
 Temperature Range: -40 to 80°C

Solar Characteristics

Solar Module Type: Multicrystalline
 Output (watts): 1.4
 Solar Module Efficiency (%): 14
 Charging Regulation: Microprocessor controlled

Power Supply

Battery Type: High grade NiMH - Environmentally friendly
 Battery Capacity (Ah): 8
 Nominal Voltage (V): 3.6
 Autonomy (nights): Steady-on: >20
 Flashing: >40 (14 hour darkness, 12.5% duty cycle)

Physical Characteristics

Body Material: LEXAN® Polycarbonate - UV stabilized
 Lens Material: LEXAN® Polycarbonate - UV stabilized
 Lens Diameter (mm/inches): 140 / 5½
 Lens Design: External optics with interior flute design
 Mounting: 6 x 17mm holes on 200mm PCD
 Height (mm/inches): 120 / 4¾
 Width (mm/inches): 231 / 9⅛
 Mass (kg/lbs): 1.1 / 2½
 Product Life Expectancy: Up to 12 years

Environmental Factors

Humidity: 0 to 100%, MIL-STD-810F
 Icing: 22kg per square inch
 Wind Speed: Up to 160kph
 Shock: MIL-STD-202G, Test Condition G, Method 213B
 Vibration: MIL-STD-202G, Test Condition B, Method 204

Certifications

CE: EN61000-6-3:1997, EN61000-6-1:1997
 Quality Assurance: ISO9001:2008
 Waterproof: IP68

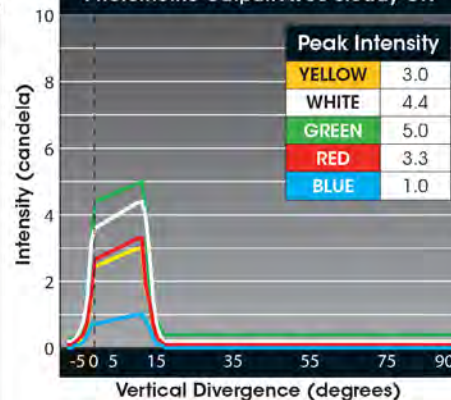
Intellectual Property

Patents: US Pat. No. 6,667,582; AU Pat. No. 778,918
 Trademarks: AVLITE® is a registered trademark of Avlite Systems
 Warranty*: 3 year warranty

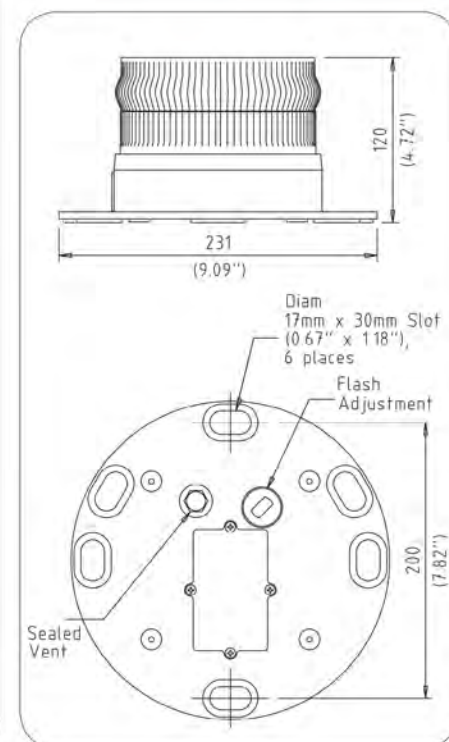
Options Available

- IR LEDs
- External ON/OFF Switch

Photometric Output: AV60 Steady ON



Steady ON, low intensity, wide angle lens



- * Specifications subject to change or variation without notice
- * Subject to standard terms and conditions
- † Intensity setting subject to solar availability



AV-C310 (Type A) & AV-C410 (Type A & B) Solar ICAO Low Intensity Obstruction Lights



An ISO 9001:2015 Certified Company

Compliances

Low Intensity Type A & B Obstruction Light, ICAO Annex 14, Volume 1, Sixth Edition, July 2013, 'Aerodrome Design and Operations'

Application

The AV-C310-ILA and AV-C410-ILAB are robust, solar powered ICAO Type A & B Low Intensity Obstruction Lights and are suitable for aerial obstructions up to 45mtrs in height.

Key Features

- Integrated solar/battery system
- User-replaceable solar modules
- IP68 waterproof rating
- Available in two power supply sizes to suit various locations
- Optional GSM Monitoring (AV-C410 model)

The AV-C310 has four 3 watt premium-grade solar modules that collect sunlight at all angles. Four larger 5 watt panels are used in lower sunlight to maximize solar collection or to support an ICAO LIOL Type B (32cd) light head.

The solar array charges the battery during daylight hours, and at dusk the light will automatically begin operation.

Designed for the harshest of environments, the AV-C310 features a 7-stage, powder-coated aluminium top, base and internal chassis in high visibility colors.

The tough polycarbonate aviation lens is specifically designed for use with LEDs to maximize light intensity and uniformity. The light head is interchangeable between units, and can be replaced onsite by the operator if required.

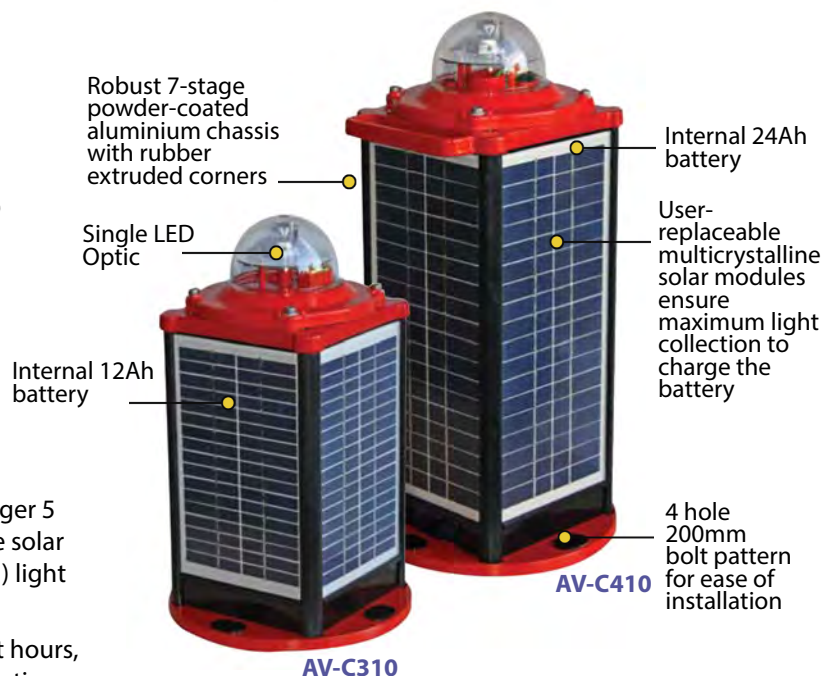
The unit can be supplied in varying color outputs to suit other applications including runway edge lighting.

Optional External Switch & External Charging Port

These models can be fitted with an optional, external ON/OFF switch. The light can also be fitted with an optional external charging port for charging the battery while it is stored for extended periods.

Optional GPS Synchronisation

Avlite has utilized the latest advancements in GPS technology to develop an internal synchronization



system that can be incorporated into the lights. Using overhead satellites, multiple obstruction lights set to the same flash pattern will flash in unison.

Optional IR Remote Control

The remote control is used to control functions such as flash code and light intensity.

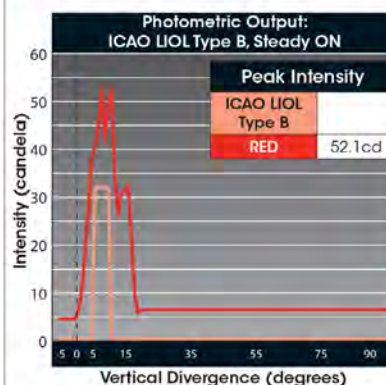
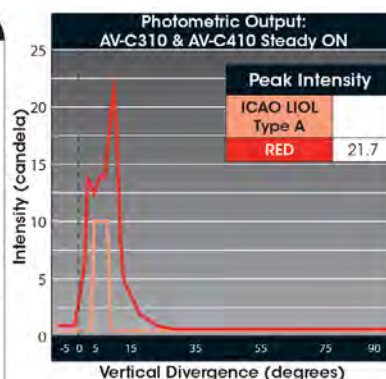
Optional GSM Cell-Phone Monitoring

This feature enables operators to remotely monitor the status of their aviation installations. The system can also be configured to send out alarms and reports as SMS text messages and/or emails.

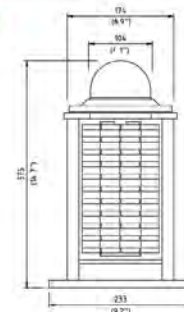




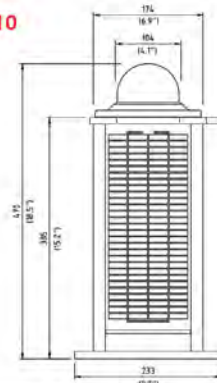
| SPECIFICATIONS * * | AV-C310 | AV-C410 |
|---|--|---|
| Light Characteristics | | |
| Light Source | As tested AV-OL-ILA-12-R LED | As tested AV-OL-ILA-12-R LED |
| Available colors | Red as standard. Other colors available on request, including IR | Red as standard. Other colors available on request, including IR |
| Peak Intensity (cd) † | 360 | 360 |
| Horizontal Output (degrees) | +4 to +13 | +4 to +13 |
| Vertical Divergence (degrees) | Single LED Optic | Single LED Optic |
| Reflector Type | >250 including steady-on (user-adjustable) | >250 including steady-on (user-adjustable) |
| Available Flash Characteristics | Adjustable in 25% increments | Adjustable in 25% increments |
| Intensity Adjustments | >100,000 | >100,000 |
| LED Life Expectancy (hours) | | |
| Electrical Characteristics | | |
| Current Draw (mA) | Steady-on: 39 | Steady-on: 39 (Type A), 100 (Type B) |
| Circuit Protection | Integrated | Integrated |
| Operating Voltage (V) | 12 | 12 |
| Temperature Range | -40 to 80°C | -40 to 80°C |
| Solar Characteristics | | |
| Solar Module Type | Multicrystalline | Multicrystalline |
| Output (watts) | 12 (4 x 3watt) | 20 (4 x 5watt) |
| Solar Module Efficiency (%) | 14 | 14 |
| Charging Regulation | Microprocessor controlled | Microprocessor controlled |
| Power Supply | | |
| Battery Type | SLA (Sealed Lead Acid) | SLA (Sealed Lead Acid) |
| Battery Capacity (Ah) | 12 | 24 |
| Nominal Voltage (V) | 12 | 12 |
| Typical Autonomy (nights) | Steady-on: >20 (Type A) | Steady-on: >40 (Type A) |
| Approx. daily insolation to maintain full autonomy (kWh/m²) | 2.2 | 1.4 |
| | | 0.7 (with Solar Booster™) |
| Physical Characteristics | | |
| Body Material | 7-stage powder-coated aluminium | 7-stage powder-coated aluminium |
| Lens Material | LEXAN® Polycarbonate - UV stabilized | LEXAN® Polycarbonate - UV stabilized |
| Lens Diameter (mm/inches) | 107 / 4 1/4 | 107 / 4 1/4 |
| Lens Design | Single LED Optic | Single LED Optic |
| Mounting | 4 x 17mm holes on 200mm PCD | 4 x 17mm holes on 200mm PCD |
| Height (mm/inches) | 375 / 14 3/4 | 470 / 18 1/2 |
| Width (mm/inches) | 233 / 9 1/4 | 233 / 9 1/4 |
| Mass (kg/lbs) | 9.1 / 20 | 13.9 / 30 1/2 |
| Product Life Expectancy | Up to 12 years | Up to 12 years |
| Environmental Factors | | |
| Humidity | 0 to 100%, MIL-STD-810F | 0 to 100%, MIL-STD-810F |
| icing | 22kg per square inch | 22kg per square inch |
| Wind Speed | Up to 160kph | Up to 160kph |
| Shock | MIL-STD-202G, Test Condition G, Method 213B | MIL-STD-202G, Test Condition G, Method 213B |
| | MIL-STD-202G, Test Condition B, Method 204 | MIL-STD-202G, Test Condition B, Method 204 |
| Vibration | | |
| Certifications | | |
| CE | EN61000-6-3:1997, EN61000-6-1:1997 | EN61000-6-3:1997, EN61000-6-1:1997 |
| Quality Assurance | ISO9001:2008 | ISO9001:2008 |
| ICAO | Low Intensity Obstruction Light Type A | Low Intensity Obstruction Light Type A |
| Waterproof | IP68 | IP68 |
| Intellectual Property | | |
| Trademarks | AVLITE® is a registered trademark of Avlite Systems | AVLITE® is a registered trademark of Avlite Systems |
| Warranty * | 3 year warranty | 3 year warranty |
| Options Available | <ul style="list-style-type: none"> • IR Controller • GPS Synchronisation • IR LED • External ON/OFF Switch • External Battery Charging Port | <ul style="list-style-type: none"> • IR Controller • GSM Cell-Phone Monitoring • GPS Synchronisation • IR LED • External ON/OFF Switch • External Battery Charging Port • Solar Booster™ |



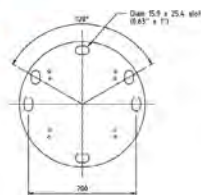
AV-C310



AV-C410



AV-C310 &
AV-C410
Mounting



- Specifications subject to change or variation without notice
- Subject to standard terms and conditions
- † Intensity setting subject to solar availability



FAA L-864 Medium Intensity Obstruction Light



Compliances

Certified to FAA L-864 Medium Intensity Obstruction Light, FAA AC 150/5345-43G and FAA EB67D (Current Edition)

An ISO 9001:2015 Certified Company

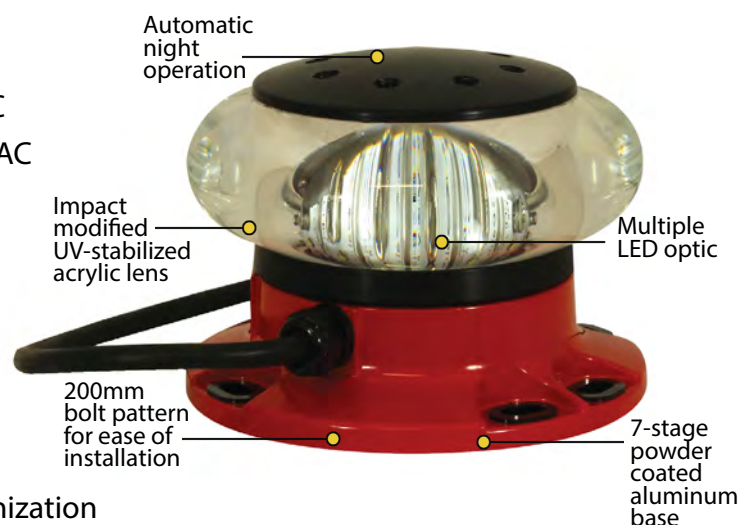


Application

This medium intensity LED light is used to mark obstacles such as telecommunication and utility towers, wind turbines, cranes, buildings and other tall structures.

Key Features

- Available in universal DC: accepts 12-48VDC
- Available in universal AC: accepts 110-240VAC
- Alarm contact for remote monitoring
- Light sensor for day/night operation
- LED technology reduces maintenance
- Provision for external hardwire synchronization
- Optional solar powered configurations are available
- Optional onboard GPS receiver for synchronization
- Optional GSM monitoring
- Optional general purpose I/O with galvanic isolation
- Optional RS422/485 communications port for monitoring



This Avlite medium intensity LED light is used to mark obstacles such as telecommunication and utility towers, wind turbines, cranes, buildings and other tall structures.

Avlite's LED obstruction lights offer an ultra bright, energy efficient and cost effective lighting solution. The light is available in two configurations, universal DC (12-48VDC) or universal AC (110-240VAC).

The advanced light optic uses a multiple, high intensity LEDs for efficient operation. The corrosion resistant, acrylic lens is specifically designed for use with LEDs to maximize light intensity and uniformity.

The light incorporates internal diagnostic checking and an alarm contact for remote monitoring. The alarm relay is energized in normal operation and is released if there is an LED or power fault.

Optional RS422/RS485 Monitoring

The Avlite L-864 obstruction light is available with RS422/485 monitoring functionality, enabling operators to monitor the status of the unit in real-time. The system tracks critical

application specific parameters including alarm status, LED status, operation mode, intensity, flash code and source voltage.

Optional GPS Synchronisation

Avlite has utilized the latest advancements in GPS technology to develop an internal synchronization system that can be incorporated into the lights. Using overhead satellites, multiple obstruction lights set to the same flash pattern will flash in unison.

Optional GSM Monitoring & Control

The light is available with GSM Cell-Phone Monitoring, enabling operators to remotely monitor the status of their installation. The system can also send out SMS text messages or e-mail alerts should alarm conditions be triggered, such as low voltage or light failure.

IR Remote Control

The IR remote is used to control functions such as operation mode (dusk-till-dawn or always-on) and the lux levels (lux settings for dusk and dawn).





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| SPECIFICATIONS * * | 12-48 VDC | 110-240VAC |
|-----------------------------------|--|---|
| | AV-OL-FL864-12-R | AV-OL-FL864-UM-R |
| Light Characteristics | | |
| Available colors | Red as standard. Other colors available on request | Red as standard. Other colors available on request |
| Effective Intensity (cd)† | 2000cd ± 25% | 2000cd ± 25% |
| Horizontal Output (degrees) | 360 | 360 |
| Vertical Divergence (degrees) | 3° | 3° |
| Available Flash Characteristics | 0.5s ON, 2.5s OFF – 16.6% duty cycle | 0.5s ON, 2.5s OFF – 16.6% duty cycle |
| Electrical Characteristics | | |
| Operating Voltage | 12 – 48 VDC | 110 – 240VAC 50/60Hz |
| Power (Average Flashing) | 6W | Pmax: 6W, Smax: 8VA |
| Power (Peak) | 36W | Pmax: 36W, Smax 48VA |
| Circuit Protection | Integrated | Integrated |
| Temperature Range | -40 to 80°C | -40 to 80°C |
| Physical Characteristics | | |
| Body Material | 7-stage powder-coated aluminium | 7-stage powder-coated aluminium |
| Lens Material | Impact modified UV stabilized acrylic | Impact modified UV stabilized acrylic |
| Lens Diameter (mm/inches) | 171 / 6¾ | 171 / 6¾ |
| Lens Design | Multi LED Optic | Multi LED Optic |
| Mounting | 200mm bolt pattern | 200mm bolt pattern |
| Height (mm/inches) | 151 / 6 | 151 / 6 |
| Width (mm/inches) | 230 / 9 | 230 / 9 |
| Mass (kg/lbs) | 5.5 / 12¼ | 5.8 / 12¾ |
| Product Life Expectancy | Up to 12 years | Up to 12 years |
| Environmental Factors | | |
| Humidity | 0 to 100%, MIL-STD-810F | 0 to 100%, MIL-STD-810F |
| Iceing | 22kg per square inch | 22kg per square inch |
| Wind Speed | Up to 240kph | Up to 240kph |
| Certifications | | |
| CE | EN61000-6-3:1997, EN61000-6-1:1997 | EN61000-6-3:1997, EN61000-6-1:1997 |
| Quality Assurance | ISO9001:2008 | ISO9001:2008 |
| Waterproof | IP67 | IP67 |
| Intellectual Property | | |
| Trademarks | AVLITE® is a registered trademark of Avlite Systems | AVLITE® is a registered trademark of Avlite Systems |
| Warranty * | 4 year warranty | 4 year warranty |
| Options Available | <ul style="list-style-type: none"> Variety of solar/battery configurations GSM Cell-Phone Monitoring GPS Synchronisation RS422/485 communications port | <ul style="list-style-type: none"> GSM Cell-Phone Monitoring GPS Synchronisation RS422/485 communications port |



HOW TO ORDER

FAA L-864 Compliant MIOL

Product No.: AV-OL-FL864-[]-[]-[]-[]

Model:
12 = 12-48 VDC
UM = 110-240 VAC

Color:
R = Red

Monitoring & Control:
GSM = GSM Monitoring
GPS = GPS Synchronisation
[blank] = No monitoring & control

RS Communications Port:
RS = RS communications port
[blank] = No RS communications port

Note: Please contact your Avlite representative for optional power supply solutions

HOW TO ORDER

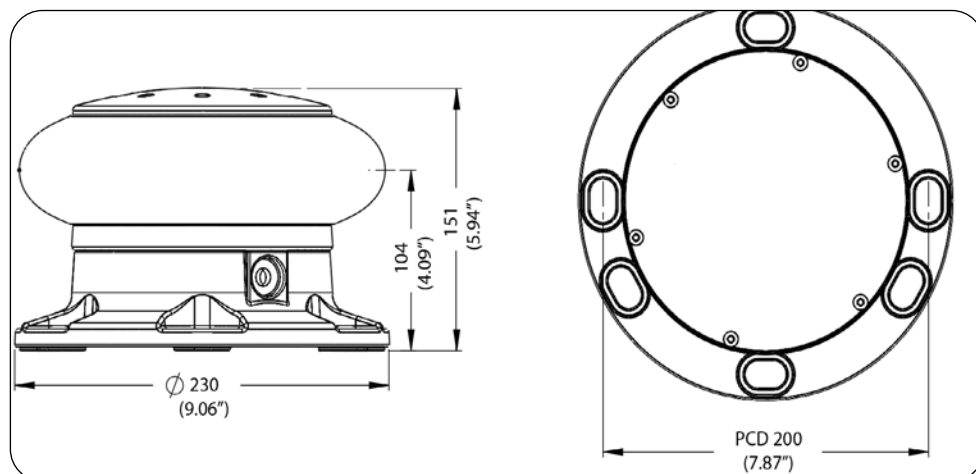
Solar Power Supply

Product No.: AV-PS-110-140-01

• Specifications subject to change or variation without notice
• Subject to standard terms and conditions
† Intensity setting subject to solar availability

140 = 140 watts

Mount Type:
01 = post mount



FAA Monitoring Requirement

The FAA states that 'conspicuity is achieved only when all recommended lights are working' and 'any outage should be corrected as soon as possible'. The operational status of all lights should be confirmed at least once every 24 hours. If a structure is not easily inspected by visual observation, an automatic monitoring system should be used.

Avlite has a selection of automatic monitoring systems available for use with their obstruction light range to comply with FAA requirements.





Avlite Mounting Solutions

Avlite Systems can supply a number of airfield fittings and accessories to compliment their range of aviation products including; light base mounting plates, frangible (breakaway) couplings, ground mounting stakes and various hardware.

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Key Features

- 7-stage powder-coated, heavy duty aluminium components
- High-visibility yellow
- 316-grade stainless steel hardware
- Individual replacement parts available
- Safe, cost effective installation solution



Typical Applications

- Frangible Stakemount Set
- Frangible Plate Coupling
- Mounting Stake
- Top Mounting Plates

The Avlite frangible stakemount set includes; light mounting plate, frangible sleeve, ground stake and 316-grade stainless steel hardware. All components (excluding hardware) are made from heavy duty aluminium and are subject to 7-stage powder-coating in high-visibility yellow.



The Avlite frangible (breakaway) coupling has been independently tested to comply with FAA Advisory Circular No 150/5345-46B 'Specification for runway and taxiway fixtures'.



L-850 Runway Inset Lights



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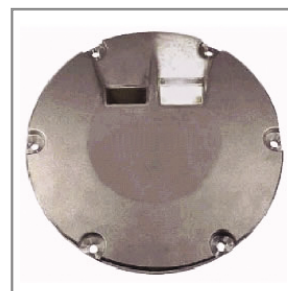
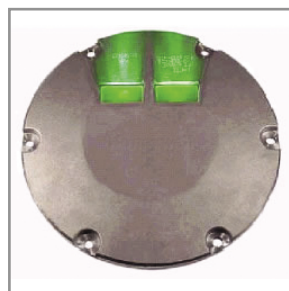
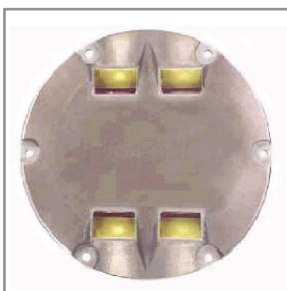
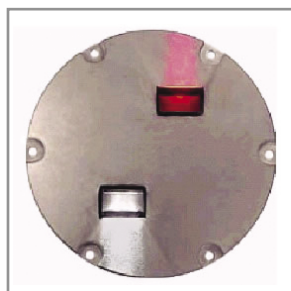
Compliances

Certified to FAA AC 150/5345-46 (Current Edition)



Application

Installed in locations subject to aircraft and other heavy vehicular loading



Model

L-850A
L-850A (L)

Used for:

Runway center line on category I, II & III runways

Colors Available:

White/White
White/Red
White/Obscured
Red/Obscured

L-850B
L-850B (L)

Touchdown zone lighting on category II & III runways & medium-intensity approach lighting

White

L-850C

Runway edge on category I, II & III runways

White/White
White/Yellow
White/Red
Yellow/Red
Yellow/Green

L-850D

Runway end light (unidirectional)
Runway threshold/end (bidirectional)

Green/Red
Red/Red
Green/Obscured
Red/Obscured

L-850E

Approach lighting system—Runway Threshold, threshold (green), end of runway (red), stop bar light (red)

White
Green
Red

L-850F

Land & Hold Short Operations

White: Flashing

Please call for ordering information





L-852 Runway Inset Lights

An ISO 9001:2015 Certified Company

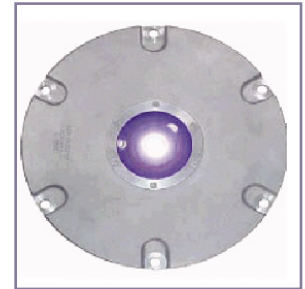
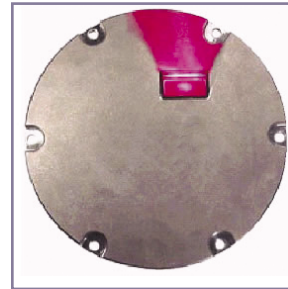
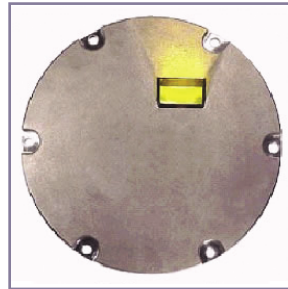
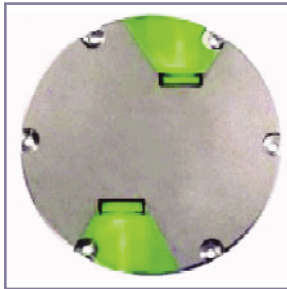
Compliances

Certified to FAA AC 150/5345-46 (Current Edition)



Application

Installed in locations subject to aircraft and other heavy vehicular loading



Model

L-852A
L-852A (L)

Used for:

Taxiway center line on straight sections and clearance bar in Category I and II applications

Colors Available:

Yellow/Yellow
Green/Green
Yellow/Green
Green/Obscured
Yellow/Obscured

L-852B
L-852B (L)

Taxiway center line on curved sections in Category I and II applications

Yellow/Obscured
Green/Green
Yellow/Yellow
Green/Yellow
Yellow/Obscured

L-852C
L-852C (L)

Taxiway center line on straight section and clearance bar in Category III applications

Yellow/Yellow
Green/Green
Yellow/Green
Green/Obscured
Yellow/Obscured

L-852D
L-852D (L)

Taxiway center line on curved sections in Category III applications

Yellow/Obscured
White/Yellow
Green/Green
Yellow/Yellow
White/White
Green/Obscured
White/Obscured

L-852E Category I & II taxiway intersections

Yellow

L-852F Category III taxiway intersections

Yellow

L-852G
L-852G (L) Runway guard light & runway incursion prevention

Yellow: Flashing

L-852J (L) Curved Category II

Yellow/Yellow
Green/Green

L-852K (L) Curved Category III

Yellow/Yellow
Green/Green

L-852S
L-852S (L) Stop bar, controlled & uncontrolled

Red

L-852T
L-852T (L) Taxiway edge

Blue

Please call for ordering information





Lenses

Quartz Outer Lenses



#248Q (for L-862) Clear
#249Q (for L-861SE) Clear



#248Q-CO (for L-862) Clear/Opaque*
#248Q-OC (for L-862) Opaque/Clear*
#249Q-CO (for L-861SE) Clear/Opaque



#256Q-GR Green/Red*
#256Q-RG Red/Green*

* Toe direction must be specified. Looking at the fixture from the runway center line the color on the left is listed first, followed by the color on the right.

High Intensity Incandescent

Inner Filters

#57-B Blue 180°
#57-R Red 180°
#57-G Green 180°
#57-Y Yellow 180°



Outer Lens

#248 Clear



High Intensity Quartz Inner Lenses



#57Q-B Blue
#57Q-C Clear
#57Q-G Green
#57Q-R Red
#57Q-Y Yellow

Medium Intensity Quartz or Incandescent



#50 Green
#51 Blue
#51L Blue LED
#52 Red
#54 Yellow
#249 Clear
#250 Clear/Green
#251 Clear/Red
#252 Green/Opaque
#253 Green/Yellow
#254 Red/Yellow
#255 Clear/Yellow
#256 Red/Green

Obstruction Lights

Flanged Lenses

#52 Red



Threaded Lenses

#53-B Blue
#53-C Clear
#53-G Green
#53-R Red
#53-Y Yellow



Miscellaneous Parts

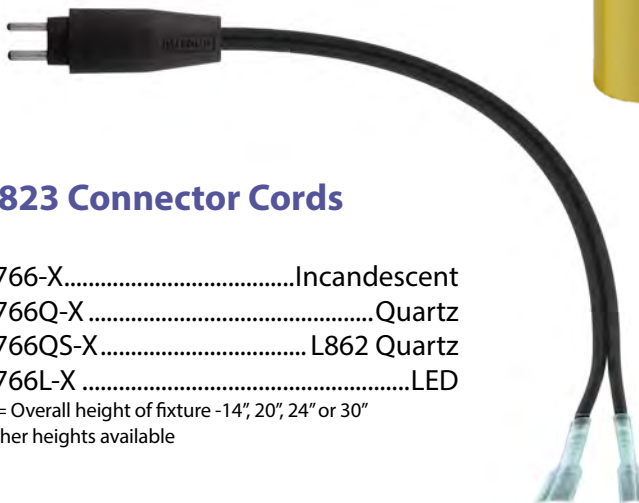


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Mounting Columns

- #77 14" Fixture Height
 #78 20" Fixture Height
 #78-16 24" Fixture Height
 #79 30" Fixture Height

Other heights available



L823 Connector Cords

- #766-X Incandescent
 #766Q-X Quartz
 #766QS-X L862 Quartz
 #766L-X LED

X = Overall height of fixture - 14", 20", 24" or 30"
 Other heights available

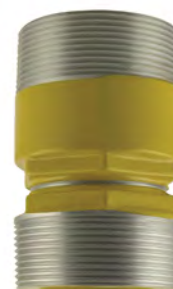
Couplings



#58
 Frangible coupling 1.5"
 thread for 1" dia. column



#59-E (Natural) #59-E-P (Painted)
 Frangible coupling 2" thread for 2" EMT



#59-A
 Frangible coupling 2"
 thread both ends



#59
 Frangible coupling 2"
 thread



#58-2
 Frangible coupling 2"
 thread for 1" dia. column

Clamps



#61
 Lens clamp for medium intensity
 head assemblies #216 and #68



#60Q
 Lens clamp for high intensity quartz
 head assemblies #213Q and #216SE



#60
 Lens clamp for high intensity
 incandescent head assembly #213X



#66
 Mounting clamp for M-1 light



L-867 Light Base Non Load-Bearing



An ISO 9001:2015 Certified Company

Compliances

Certified to FAA AC 150/5345-42 (Current Edition)

Size: B=12", D=16", E=24"

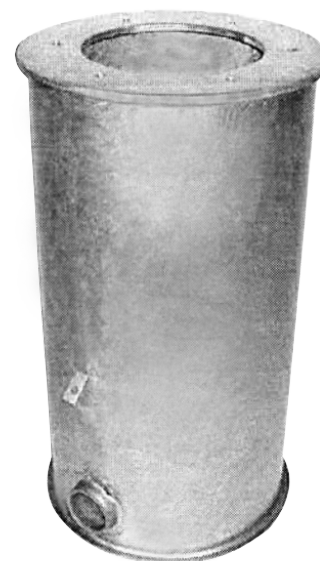


Application

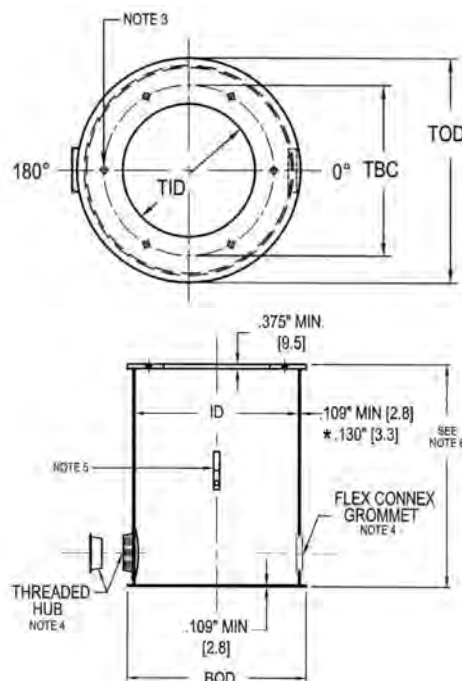
Non-load bearing light bases are designed for locations which experience occasional light vehicular loading, but no aircraft or other heavy vehicular load. The base typically supports an elevated taxiway light fixture and houses a powering isolation transformer. It can also be used solely as a junction box or transformer housing.

Key Features

- Base galvanized to ASTM A386
- Sturdy installation ensured with (6) 3/8"-16 equally spaced, tapped holes located over conduit openings
- Conduit openings (minimum 2) are located 180° apart and 2.5" up from bottom (various sizes and locations are available)
- Protective plug installed in threaded hubs
- Flex Connex Grommets are shipped separately
- Ground straps available: internal, external or both
- Standard stocked heights:
- AC21242Q200301 AC63242Q200301
AC21242H200301 AC63242H200301
Other heights available
- Please contact Airport Lighting Company for non-standard configurations.



AC21242H200301



| TYPE | ID | TBC | TID | TOD & BOD |
|---|---------|---------|---------|-----------|
| AC21 __ 12" L867B | 12.375" | 10.25" | 8" | 13.5" |
| | [314.3] | [260.4] | [203.2] | [342.9] |
| AC63 __ 16" L867D | 16.25" | 14.25" | 12.375" | 17.375" |
| | [412.8] | [362] | [314.3] | [441.3] |
| AC67 __ 24" L867E Modified | 22.5" | 21.5" | 20" | 24" |
| | [571.5] | [546.1] | [508] | [609.6] |

[] = dimensions in metrics; mm



L-868 Light Base Load Bearing



An ISO 9001:2015 Certified Company

Compliances

Certified to FAA AC 150/5345-42 (Current Edition)

Size: A=10", B=12", C=15"



Intertek

Application

Load bearing light bases are designed for locations which experience aircraft and other heavy vehicular loading. The base typically supports an in-pavement light fixture and houses a powering isolation transformer. It can also be used solely as a junction box or transformer housing.

Key Features

- Base galvanized to ASTM A386
- Sturdy installation ensured with (12) 3/8"-16 equally spaced, tapped holes located over conduit openings
- Conduit openings (minimum 2) are located 180° apart and 2.5" up from bottom (various sizes and locations are available)
- Protective plug installed in threaded hubs
- Flex Connex Grommets are shipped separately
- Ground straps available: internal, external or both

Standard stocked heights:

AC24= AC24242Q200303 AC35= AC35242Q200303
AC24242H200303 AC35242H200303

Other heights available

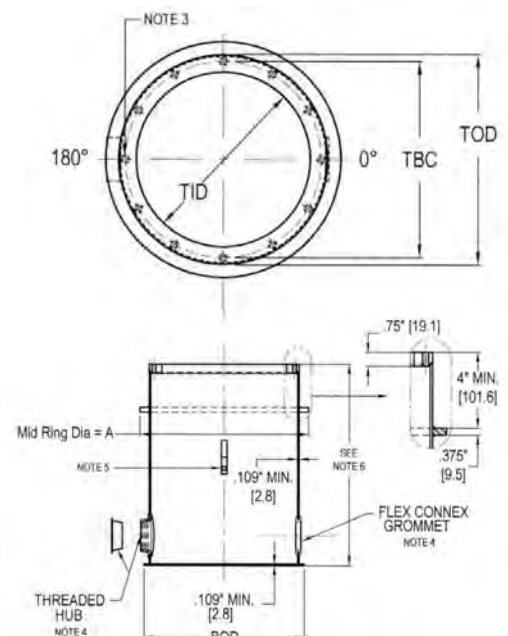
- Please contact Airport Lighting Company for non-standard configurations.



AC24242Q200303

| TYPE | TOD | TBC | TID | BOD | A |
|--------------------------|---------|---------|---------|---------|---------|
| AC15 10" L868A | 10" | 9.25" | 8" | 10.375" | 11.5" |
| | [254] | [235] | [203.2] | [263.5] | [292.1] |
| AC24 12" L868B | 12" | 11.25" | 10" | 12.375" | 13.5" |
| | [304.8] | [285.8] | [254] | [314.3] | [342.9] |
| AC35 15" L868C | 15" | 14.25" | 13" | 15.375" | 16.5" |
| | [381] | [362] | [330.2] | [390.5] | [419.1] |

[] = dimensions in metrics; mm





L-894 Mounting Stake

Compliances

Certified to FAA AC 150/5345-42 (Current Edition)

An ISO 9001:2015 Certified Company



Intertek

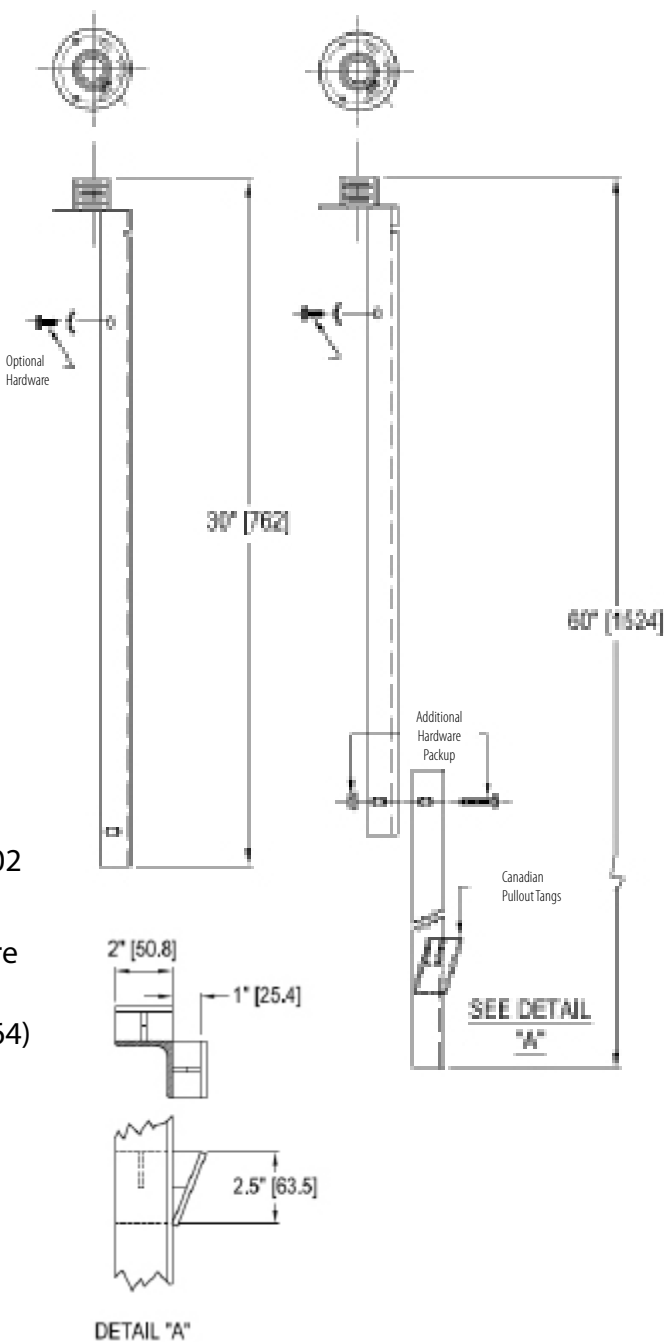
Application

Mounting stake is driven into the ground to provide a stable base for elevated lights



Key Features

- Mounting stakes are galvanized to
- ASTM-A123/A123M-02
- AW2202AH and AW2205AH meet Canadian requirements
- Threads are clean and uncoated
- Shipped with hardware package:
 - (1) 2 hole cable clamp
 - (2) #10-24 x 1 3/4" SS machine screws
- For AW2202AH and AW2205AH
 - Additional hardware packup includes:
 - (2) 3/8"-16 x 1 1/4" SS hex head bolts (10650202)
 - (2) 3/8"-16 Wiz Lock Nuts (10681784)
 - Note: When pullout tags are ordered, stakes are shipped with:
 - (2) 3/8"-16 x 1 1/2" SS hex head bolts (10645064)
- Optional Ground Clip with 1/4"-20 x 1" self tapping screw
- Canadian pullout tangs
- Bolt-on extensions available for any standard stake. Various lengths available. Custom length one piece stakes available.



L-894 Base Plate



An ISO 9001:2015 Certified Company

Compliances

Certified to FAA AC 150/5345-42 (Current Edition) Size: B=12", D=16"



Intertek

Application

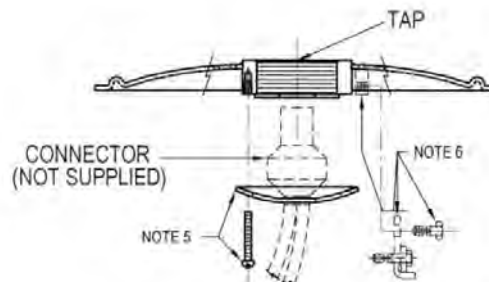
Mounts on an L-867 Size B, D or E light base to allow the installation of an elevated light

Key Features

- Constructed of Corten A588 steel with aviation yellow powder coat finish
- Sturdy installation ensured with (6) 7/16" dia equally spaced, thru holes
- Base plate shipped with:
 - Neoprene gasket:
 - AP1932/1935 12" (10530297)
 - AP2932/2935 16" (10530281)
 - Foam gasket:
 - AP1932AK/AP1935AK 12" (10532042)
 - Hardware packup #6120 which contains:
 - (1) 3 hole cable clamp (8089)
 - (3) #10-24 x 1 1/2" SS machine screws (10670781)
- Optional: Ground clamp hardware (AW0919) bulk packed for field installation
- (1) 1/4" dia weep hole standard
Add "AK" suffix to P/N for base plate w/o weep hole (Alaskan application)

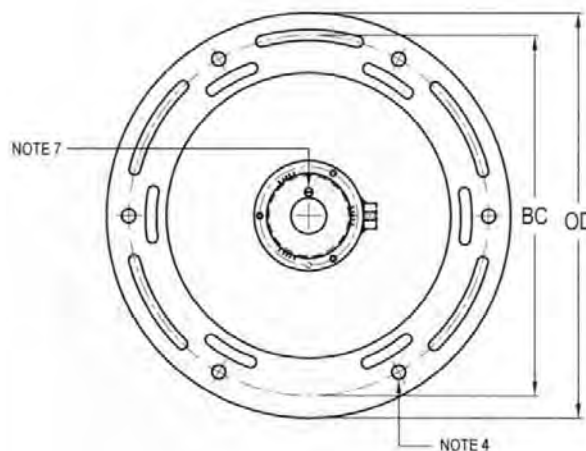


AP1935



| TYPE | OD | BC | TAP |
|------------------|---------|---------|--------------|
| AP1932 __ | 12" | 10.25" | 2" NPS |
| 12" L867B | [304.8] | [260.4] | [50.8] |
| AP1935 __ | 12" | 10.25" | 1 1/2"-12 NF |
| 12" L867B | [304.8] | [260.4] | [38.1] |
| AP2932 __ | 16" | 14.25" | 2" NPS |
| 16" L867D | [406.4] | [362] | [50.8] |
| AP2935 __ | 16" | 14.25" | 1 1/2"-12 NF |
| 16" L867D | [406.4] | [362] | [38.1] |

[] = dimensions in metrics; mm





L-867 and L-868 Cover Plates

An ISO 9001:2015 Certified Company

Compliances

Certified to FAA AC 150/5345-42 (Current Edition) Size: A=10", B=12", C=15", D=16", E=24"

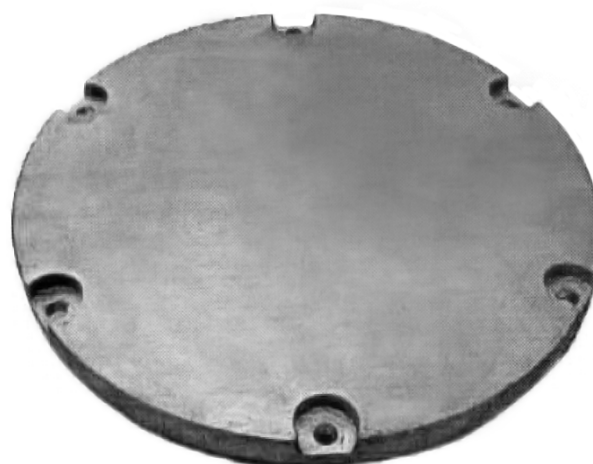
Application

Mounts on an L-867 light base when it is used as a junction box or transformer housing

Key Features

- Constructed of A36 steel galvanized to ASTM A386
- Sturdy installation ensured with (6) 7/16" dia equally spaced, thru holes with 1 1/8" (counter bore only on covers 1/2" and thicker)
- Steel cover plates do not include bolts or gaskets
- Please contact Airport Lighting Company for variations:

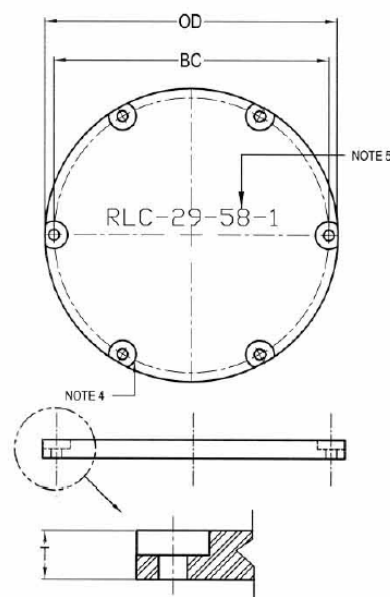
Grounding
Tapped openings
Thicker Sizes



AK400012

| TYPE | * min.T | BC | OD |
|---|------------------|-------------------|------------------|
| AK1000 __ 12" L867B | .25" [12.7] | 10.25" [260] | 13.5" [343] |
| AK2000 __ 16" L867D | .25" [12.7] | 14.25" [362] | 17.375" [441] |
| AK3000 __ 10" L868A | .75" [19.1] | 9.25" [235] | 10" [254] |
| AK4000 __ 12" L868B | .75" [19.1] | 11.25" [285.8] | 12" [304.8] |
| AK5000 __ 15" L868C | 1.25" [31.75] | 14.25" [362] | 15" [381] |
| AK7000 __ 24" L867E Modified | .5" [12.7] | 21.5" [546.1] | 24" [609.6] |

[] = dimensions in metrics; mm



Airfield Mat System



An ISO 9001:2015 Certified Company

Application

Designed to control vegetation around elevated lighting, directional signs, wind socks, fences and buildings.

Key Features

- Save time, money and labor
- Prevent health and safety hazards
- Keep mowing equipment from protected areas to help prevent accidental damage
- Alleviate the need for manual line trimming to keep the grass managed
- Prevent the need to spray herbicide that kills grass and then leads to erosion
- Avoid costly equipment breakage
- Protects ground water and environment
- Quick and easy installation
- Long lasting zero profile



Specifications

- Mat is made of no less than 7% polyurethane binders and not more than 93% rubber grindings
- 11.5" long staple stake steel anchor:
 - Each anchor is designed to anchor the mat flush to the ground with an 11.5" shaft, a 4" horizontal bar, and a 2" down pin
 - Each anchor penetrates the mat with the long shaft and the 2" pin penetrates directly into the ground where it reaches over the edge of the mat
- Weight of the rubber mat is ~40 lb (including anchors)
- Weight of an anchor is ~1.5 lb (~13 lb for all 8)

Ordering Information

| Part Number | Description |
|-------------|---|
| FM-1-8 | 48"x84" Football Mat. For base can mounted lights, 12" center hole to fit precisely around 12" base can lid. Includes 8 anchors. |
| FM-1-8wi-18 | 48"x84" Football Mat with 18" insert. For base can mounted lights, 12" center hole to fit around 12" base can lid. Insert to overlay the base can lid optional. For stake mounted lights, insert wraps around stake required. Includes 8 anchors. |
| FM-1-8wi | 48"x84" Football Mat. 8" center hole with 12" insert. For stake mounted lights, insert wraps around stake required. Includes 8 anchors. |
| SM-1 | 25"x30' Strip Matting. For edge applications such as: around signs, buildings, or fences. Mat and anchor holes cut by installer in the field. Includes 10 anchors. |
| IN-12 | 12" Insert |
| IN-18 | 18" Insert |
| A-10 | Anchors (quantity 10) |



High Mast & Area LED Floodlight



An ISO 9001:2015 Certified Company

Application

High Mast & Area LED Floodlight apron lighting systems provide a needed solution for airports of all sizes that have inadequately illuminated apron, cargo and hard stand areas to improve airfield security, safety and operational sustainability.



Key Features

- High Strength, AL5052 Aluminum construction
- Easy Installation and Operation
- Weather-resistant Powder Coat
- Marine Grade Stainless Steel Hardware
- Premium Fixture Enhances Productivity, Safety and Security
- 500 Model Delivers Up To 80,000 Lumens and Replaces 1000W HID Fixtures
- 250 Model Delivers 40,000 Lumens and Replaces 400W HID Fixtures
- High Efficacy Lighting With Greater Than 140 Lumens Per Watt

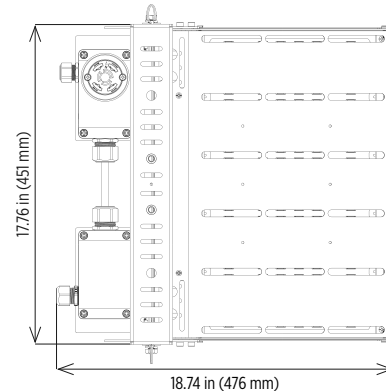
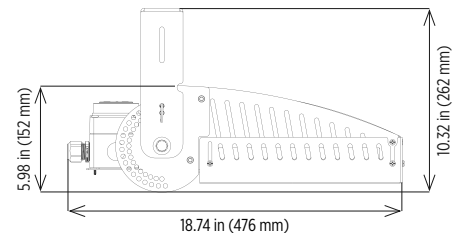
Light Source

- Premium LED Modules
- 250 Model, up to 265W and 40,000 lumens
- 500 Model, up to 530W and 80,000 lumens
- CCT: Cool white (5000K), neutral white (4000K) (additional color temperatures available upon request)
- UV Resistant, polycarbonate lens

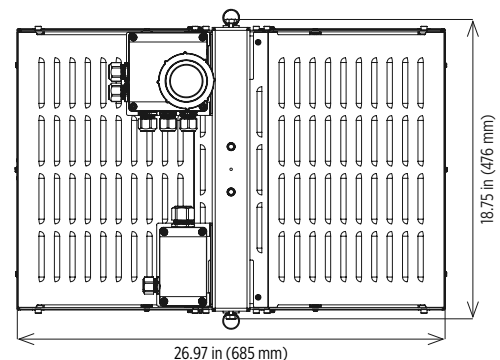
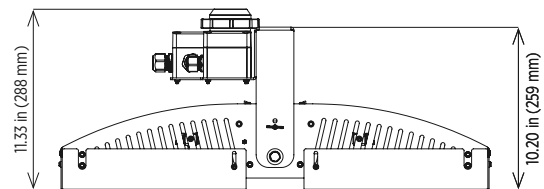
Power Source

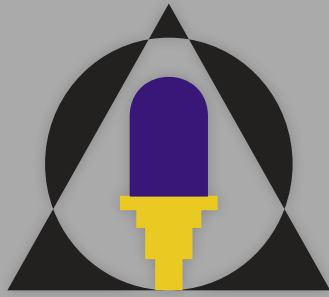
- 90-305 VAC, 50/60 Hz (120-277V)
- 249-528 VAC, 50/60 Hz (277-480V)
- Waterproof to IP67
- 10kA surge protection

250 Model



500 Model





Airport**Lighting**Company