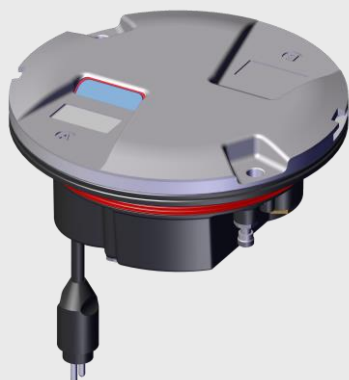


# LIRD



## LED INSET TOUCHDOWN ZONE LIGHT

### COMPLIANCES

**ICAO:** Annex 14 - Volume I Fig. A2-5

**EASA:** CS-ADR-DSN, Book 1, Fig. U-9

**FAA:** L-850B(L) AC150/5345-46 and EB No.67

**IEC:** TS 61827

**NATO:** STANAG 3316

**CAA:** CAP 168

**TCCA:** TP312

**CASA:** Manual of Standards Part 139

### APPLICATIONS

Touchdown Zone for ICAO CAT I, II and III, FAA and military runways

### BENEFITS

- 60000 hours LED rated life at full intensity, but over 100000 hours in field operating conditions
- In new installation, LED lights mean lower loads, lower size of CCRs and transformers, thus low life cycle costs
- The light output is variable like a traditional halogen lamp, as indicated by the FAA "Engineering Briefing No.67"
- Fully compatible with existing AFL infrastructure\*
- Designed with simplicity allowing longer maintenance intervals and fewer spare parts
- No use of sealant to fix the prism in the dome thanks to customized gasket, making its replacement quick and easy
- No optical adjustment after LED module or prism replacement
- Valve for watertightness test after overhaul
- Operating with any topology of CCRs designed in compliance with IEC or FAA requirements

\* For monitored fixtures, isolation transformer max size: 200VA

### PERFORMANCES

- The electronic is strong-built and highly resistant to shock and vibration
- Automatic adaptation to the frequency of the supply current
- A surge protection device is provided in the electronics as required by the FAA "Engineering Briefing No.67"
- Immediate detection of an internal fault
- 6.35 mm protrusion strongly reduces vibrations to aircrafts and to light itself, increasing its lifetime
- Dome smooth outer profile makes the light less sensitive to snowplough blades
- Unidirectional, 8" dia.
- Drop-forged dome and cast aluminium lower cover make the fitting sturdy, but lightweight too for ease handling in the field
- Light output practically not affected by heavy rainfall thanks to the shallow channel in front of the prism window
- O-Ring placed outside the dome to avoid dirt deposits between light and base
- Protection degree: IP68
- Temperature range: -55°C to +55°C

### INSTALLATION

- Suitable for 8" dia. bases
- Adaptor ring for installation on 12" dia. bases
- Specific tools available for easy and precise installation

## PHOTOMETRIC PERFORMANCES

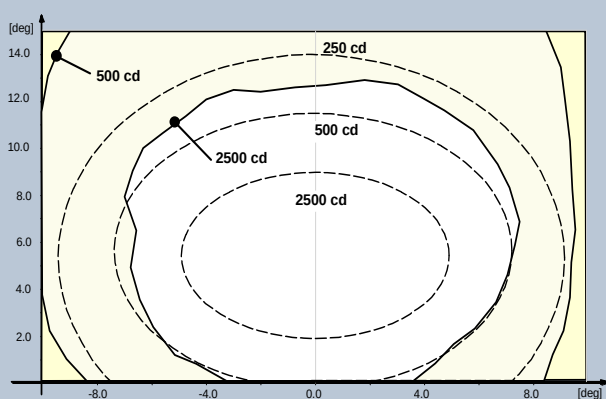


Fig. 1 ICAO A2-5 – White

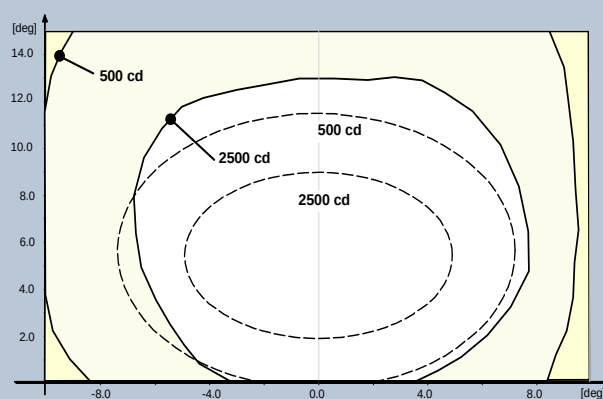


Fig. 2 FAA L-850B – White

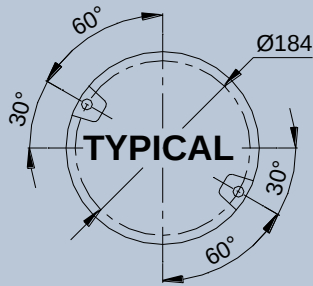
## TABLES

### POWER CONSUMPTION (WORST CASE)\*

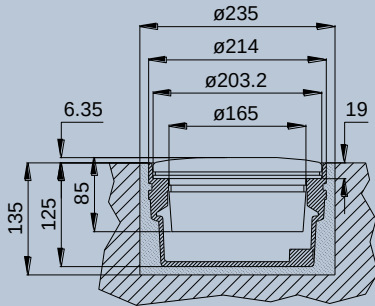
| Power factor** >0,98 |                    | Primary Conductor<br>Isolation Transformer |         | FIXTURE |         |
|----------------------|--------------------|--------------------------------------------|---------|---------|---------|
| 1IN/1OUT             | Without Arctic Kit | 28,5 W                                     | 28,6 VA | 17,5 W  | 17,6 VA |
|                      | With Arctic Kit    | 55 W                                       | 55,1 VA | 39,8 W  | 39,9 VA |

\* | Measured at 6,6 A with toroidal isolation transformer 65 W. The values reported refer to the maximum power absorbed between configurations and available colours (worst case). For further detail please refer to the product manual.

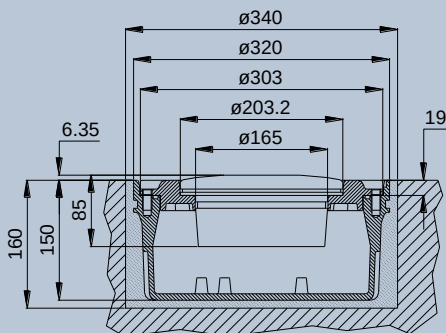
\*\* | Measured at 6,6 A. The value reported refers to the minimum value between the configurations and the available options (worst case).



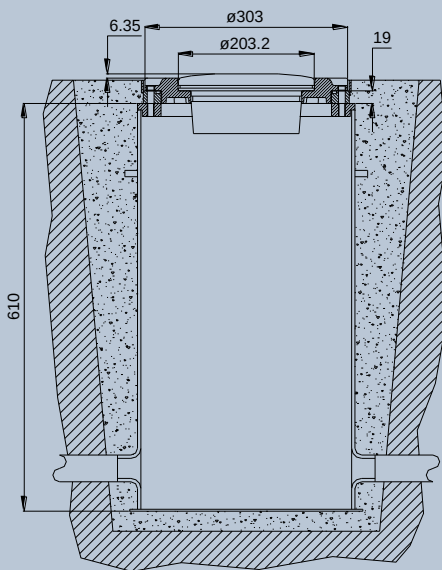
Light Fixture 8" dia.



Shallow Base 8" dia.



Shallow Base 12" dia.



L-868 Deep Base 12" dia.

LIRD - F - L - O - M - A

Basic P/N: \_\_\_\_\_

Compliance: \_\_\_\_\_

I = ICAO

F = FAA, supply cable L = 22cm

L = FAA, supply cable L = 46cm

Toe-in\*:

R = Left

L = Right

S = Straight

Mounting Assembly:

O = No mounting Assembly

R = Adaptor Ring 8"-12" dia.

Monitoring:

O = Without Monitoring

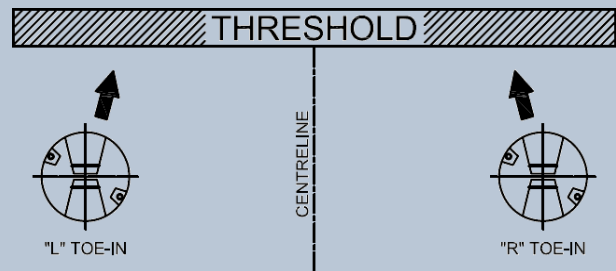
M = With Monitoring

Arctic Kit:

O = Without Arctic Kit

A = With Arctic Kit

\* The beam aiming is not field adjustable



**MAIN COMPONENTS OF THE LIGHT UNIT**

- 1 Dome with prism and gaskets
- 2 O-Ring for dome
- 3 O-Ring for lower cover
- 4 Arctic Kit heater
- 5 Arctic Kit thermostat
- 6 Lower cover with electronic, plug and valve
- 7 Valve for watertightness test
- 8 Prism Gasket
- 9 Prism
- 10 Prism holder gasket
- 11 Mounting plate
- 12 Reflector with hardware
- 13 LED module with accessories
- 14 Lower cover gasket
- 15 FAA L-823 plug

Refer to the relevant technical manual for the complete list of the available spare parts

**ACCESSORIES**

- 315.1230 Base L-868 type, class IA, size B, 24" deep \*
- 315.1420 Flange ring with pavement dam for L-868 base, size B, with O-Ring and bolts
- 152.5251 Shallow base, 8" dia., one cable lead, with hardware
- 152.8110 Shallow base, 12" dia., one cable lead, with gasket and hardware
- 152.6116 Adaptor Ring 8"-12" dia. complete with hardware
- GMMM0076 Adaptor Ring 8"-12" dia. complete with hardware for FAA versions
- 712.1034 Setting material for shallow base, 10 lt
- 712.1035 Quartz for shallow base, 25 kg
- 332.4301 Positioning jig for 8"-12" dia. shallow base, without optical device
- 332.4351 Optical device for positioning jig to allow a very precise light unit orientation
- 332.4330 Watertight/shockproof plastic case complete with positioning jig for base and optical device
- 332.4140 Lifting tool (2 pieces to work properly)
- 332.4230 Lifting tool with double hook

\* Sectional bases may be required depending upon the paving technique

For any information about isolating transformers and connectors, please see the specific catalogue pages

**Shipping Weights and Volumes**

|                               | Light Unit | Shallow Base | Light Unit & Adaptor Ring |
|-------------------------------|------------|--------------|---------------------------|
| <b>Weight (kg)</b>            | 2.7        | 3.2          | 5.85                      |
| <b>Volume (m<sup>3</sup>)</b> | 0.007      | 0.007        | 0.013                     |

We reserve the right to change the design or specification data without notice

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