

LITC



LED INSET TAXIWAY CENTRELINE, STOP BAR AND INTERMEDIATE HOLDING POSITION LIGHT

COMPLIANCES

ICAO: Annex 14 - Volume I Fig. A2-12-13-14-15-16

EASA: CS-ADR-DSN Fig. U-16, 17, 18, 19, 20

FAA: L-852A-B-C-D-J-K(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

Taxiway centreline, stopbar and intermediate holding positions for ICAO CAT I, II and III, FAA and military taxiway

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"
- Colour emitted directly by LEDs: absence of coloured filters ensures no energy losses and no colour shifts
- Fully compatible with existing AFL infrastructure*
- Designed with simplicity allowing longer maintenance intervals and fewer spare parts
- No use of sealant to fix the prisms in the dome thanks to customized gaskets, making their 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
- Bidirectional or unidirectional, 8" or 12" 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 windows
- 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" or 12" dia. bases
- Adaptor ring for 8" light installation on 12" dia. bases
- Specific tools available for easy and precise installation

PHOTOMETRIC PERFORMANCES

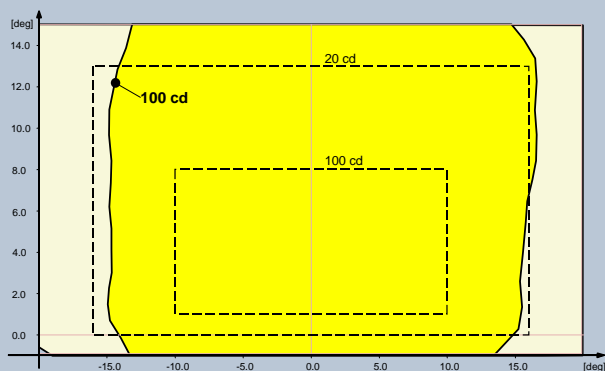


Fig. 1 ICAO A2-12 Straight Section – Yellow

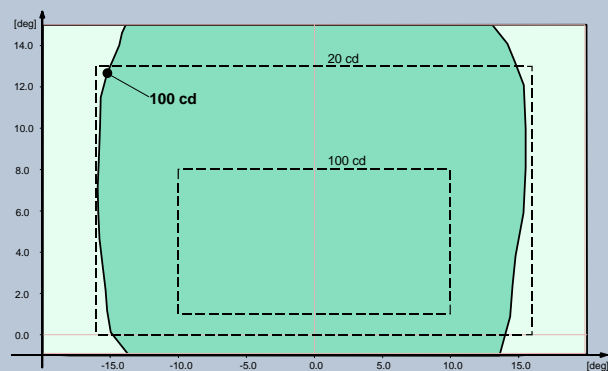


Fig. 2 ICAO A2-12 Straight Section – Green

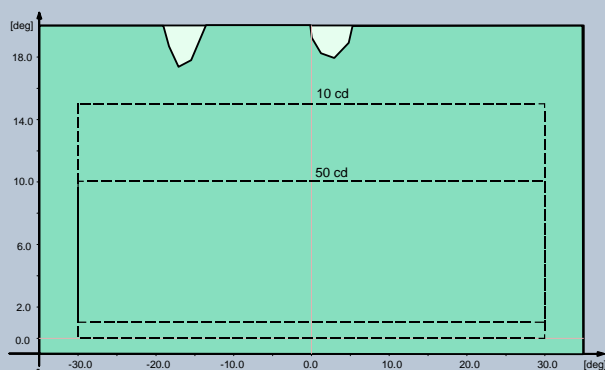


Fig. 3 FAA L-852D – Green

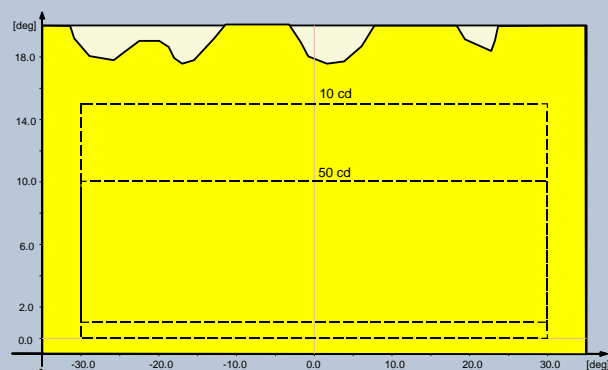


Fig. 4 FAA L-852D – Yellow

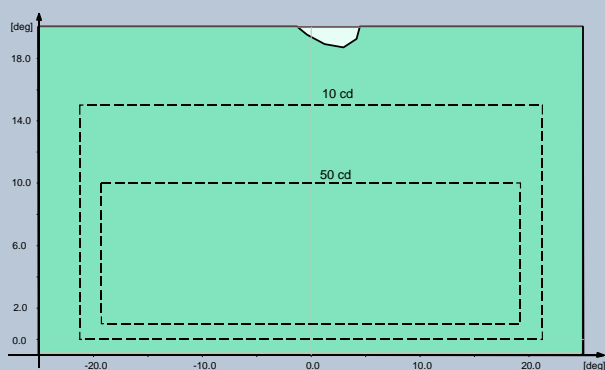


Fig. 5 FAA L-852K – Green

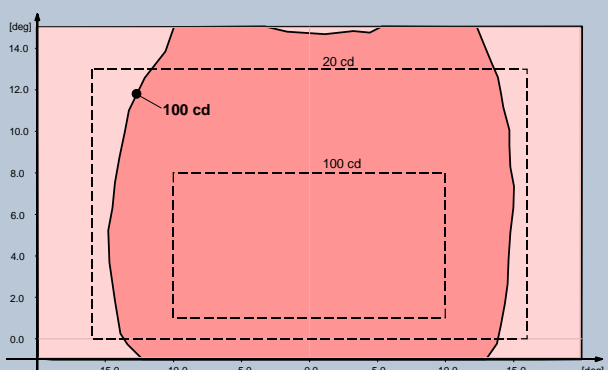


Fig. 6 ICAO A2-12 Straight Section – Red

TABLES

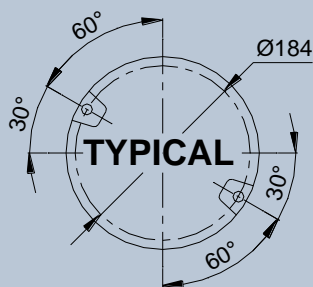
POWER CONSUMPTION*

Electrical System	1 Plug	2 Plugs
Unidirectional 8"-12" (w/o Arctic Kit)	7 VA	-
Unidirectional 8" (with Arctic Kit)	27 VA	-
Unidirectional 12" (with Arctic Kit)	47 VA	-
Bidirectional 8"-12" (w/o Arctic Kit)	12 VA	14 VA
Bidirectional 8" (with Arctic Kit)	32 VA	54 VA
Bidirectional 12" (with Arctic Kit)	52 VA	94 VA

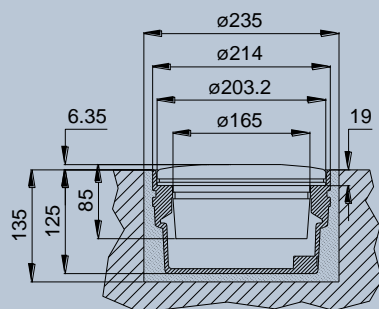
* Measured at 6.6 A and referred to the highest consumption configuration

POWER FACTOR

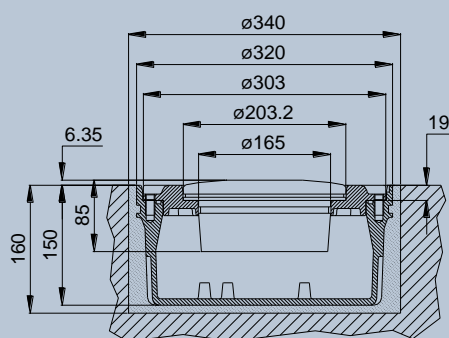
Input Step	2.8 A	6.6 A
Power Factor	0.96	0.98



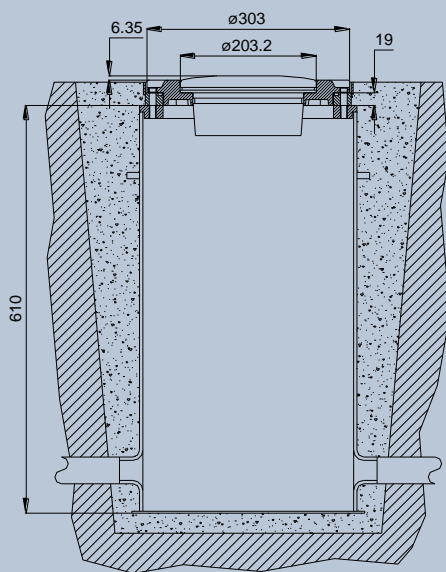
Light Fixture 8" dia.



Shallow Base 8" dia.



Shallow Base 12" dia.



L-868 Deep Base 12" dia.

LITC08 - F - D - GG - 2P - 0 - M - A**Basic P/N:**

08 = 8" Fixture (supply cable L = 25cm)

12 = 12" Fixture (supply cable L = 46cm)

Compliance:

I = ICAO CAT III

S = ICAO CAT I-II

F = FAA

Use Code:

(Refer to TABLE A)

Colocr (Side A)/(Side B)*:

G = Green

Y = Yellow

R = Red (not for FAA)

W = White (only for FAA, Use Code D)

C = Green for CASA MOS139 compliant fixtures

M = Blank (unidirectional dome)**

S = Shield (unidirectional dome)

Electrical System:

1P = One Plug

2P = Two Plugs

1F = One Plug (only for type 08, L = 46cm)

2F = Two Plugs (only for type 08, L = 46cm)

Mounting Assembly:

0 = No mounting Assembly

R = Adaptor Ring 8"-12" dia.

Monitoring:

0 = Without Monitoring

M = With Monitoring

Arctic Kit:

0 = Without Arctic Kit

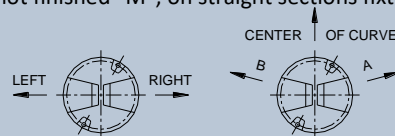
A = With Arctic Kit

TABLE A

USE	I = OACI CAT III (RVR ≤1200)	F=FAA (RVR ≤1200)	S = OACI CAT I-II	F = FAA (RVR ≥1200)
A	Fig. A2.12 straight before and after curves	-	Fig. A2.15 straight	L-852A
B	-	-	-	L-852B
C	Fig. A2.13 straight	L-852C	-	-
D	-	L-852D	-	-
W	Fig. A2.14 curved	-	Fig. A2.16 curved	-
K	-	L-852K	-	-
J	-	-	-	L-852J

* For curved sections it's necessary to specify the colour of each side, "A" and "B", due to the fixture toe-in

** The aperture not finished "M", on straight sections fixtures, will be always on side "B"



Straight and Curved Section Orientation

MAIN COMPONENTS OF THE LIGHT UNIT

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

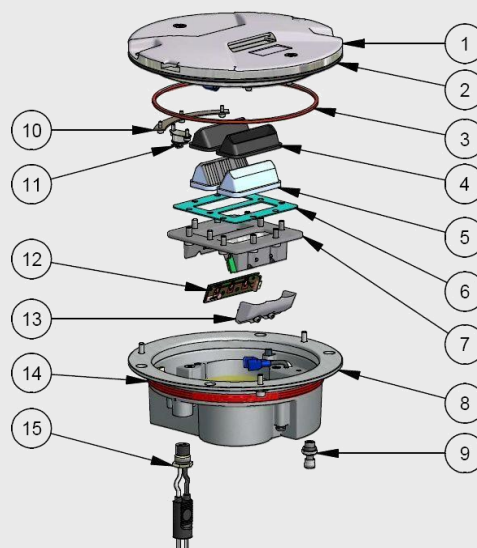
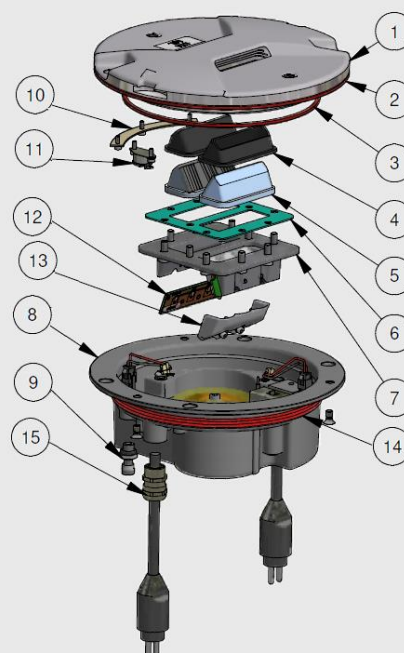
Refer to the relevant technical manual for the complete list of the available spare parts

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
- 152.5261 Shallow base, 8" dia., two cable leads, with hardware
- 152.8110 Shallow base, 12" dia., one cable lead, with gasket and hardware
- 153.1110 Shallow base, 12" dia., two cable leads, with gasket and hardware
- 152.6116 Adaptor Ring 8"-12" dia. complete with hardware for ICAO versions
- 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

FAA**ICAO****8" Shipping Weights and Volumes**

	Light Unit	Shallow Base	Light Unit & Adaptor Ring
Weight (kg)	3.6	3.2	6.75
Volume (m ³)	0.007	0.007	0.013

12" Shipping Weights and Volumes

	Light Unit	Shallow Base
Weight (kg)	5.9	7.3
Volume (m ³)	0.022	0.022