



TWCS

INSET TAXIWAY CENTRELINE AND STOP BAR LIGHT



COMPLIANCES

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

FAA: L-852A-B-C-D-J-K AC150/5345-46

IEC: TS 61827

NATO: STANAG 3316

CAA: CAP 168

IAAE: TP312

APPLICATIONS

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

BENEFITS

- 2500 hours (Taxiway centreline) lamp rated life at full intensity, but over 3000 hours in field operating conditions
- Significant energy saving and stable chromaticity thanks to the use of dichroic filters
- Designed and manufactured with simplicity and easy to maintain
- 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 lamp, filter or prism replacement
- Valve for watertightness test after overhaul
- Dome temperature less than 160°C at 6.6A

PERFORMANCES

- 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" 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: IP67
- Temperature range: -55°C to +55°C

INSTALLATION

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

PHOTOMETRIC PERFORMANCES

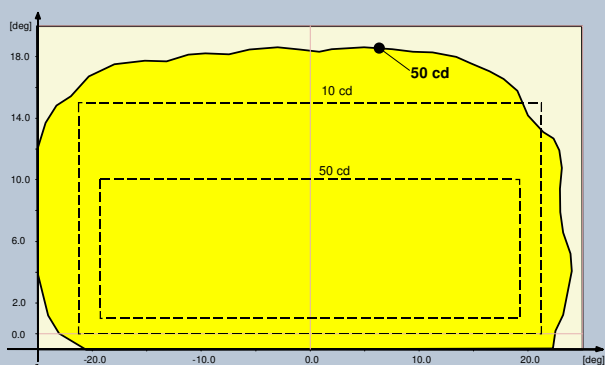


Fig. 1 ICAO A2-14 Curved Section – Yellow

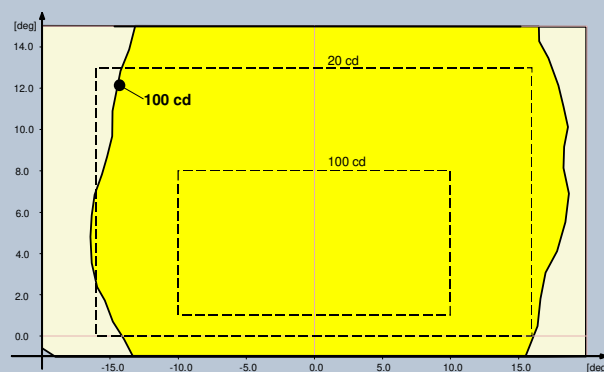


Fig. 2 ICAO A2-12 Straight Section – Yellow

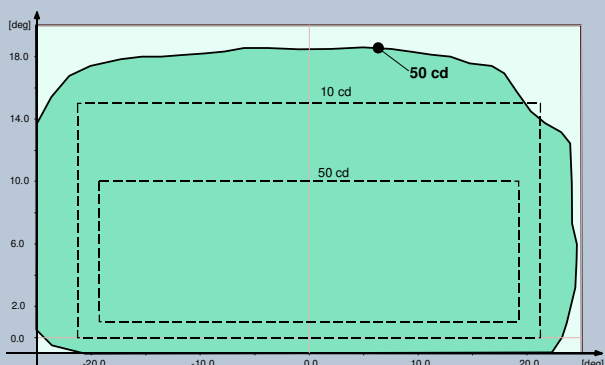


Fig. 3 ICAO A2-14 Curved Section – Green

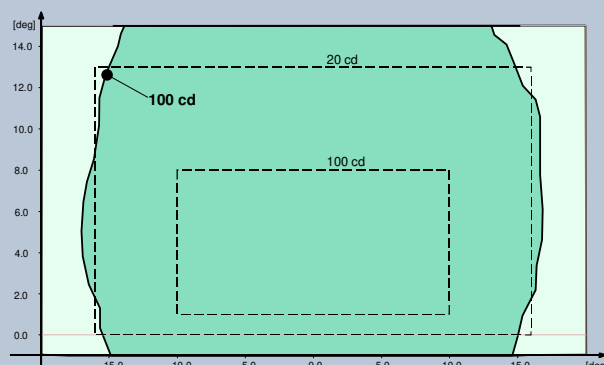


Fig. 4 ICAO A2-12 Straight Section – Green

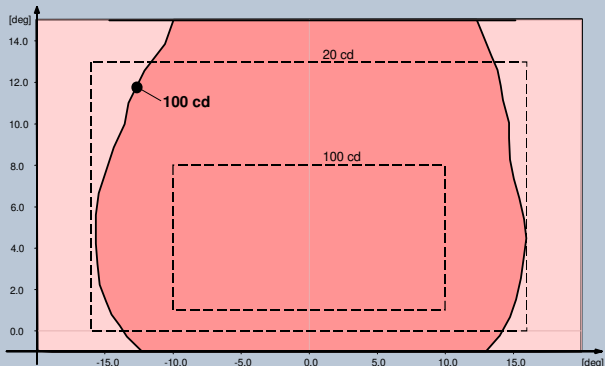


Fig. 5 ICAO A2-12 Straight Section – Red

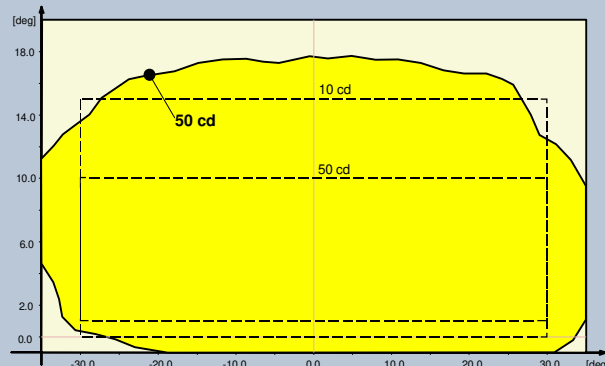


Fig. 6 FAA L-852D – Yellow

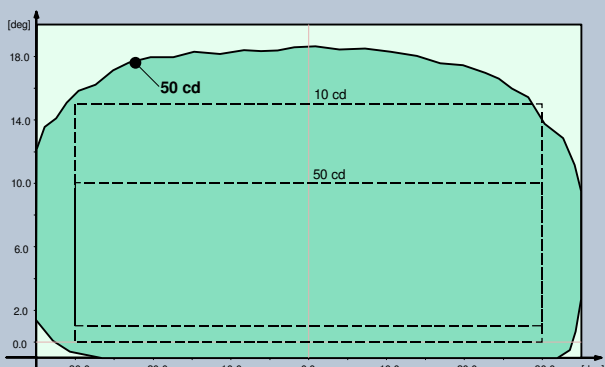
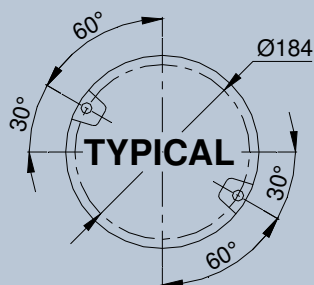
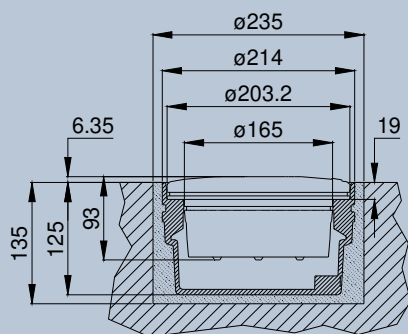


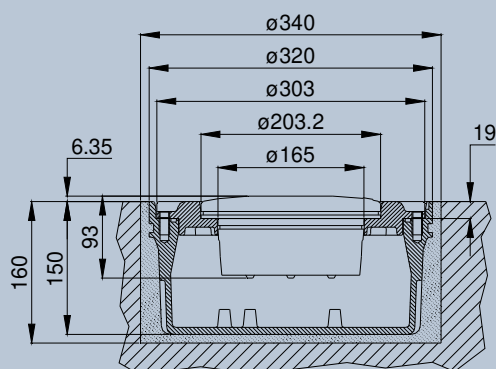
Fig. 7 FAA L-852D – Green



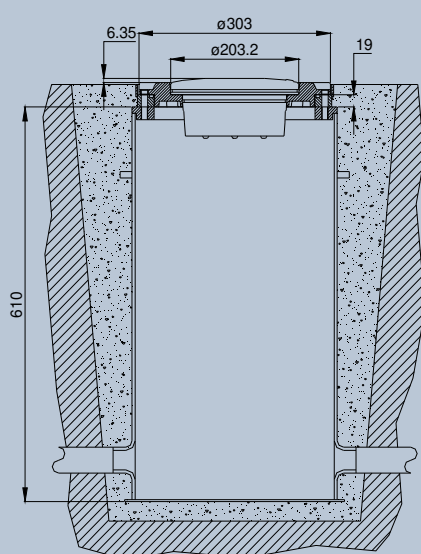
Light Fixture 8" dia.



Shallow Base 8" dia.



Shallow Base 12" dia.



L-868 Deep Base 12" dia.

TWCS- A - I - GG - 030 - O - F

Basic P/N: _____

Use Code: _____
 (Refer to TABLE A)

Compliance: _____

I = ICAO CAT III

S = STANAG and ICAO CAT I - II

F = FAA

Colour(Side A)/(Side B)*: _____

G = Green

Y = Yellow

R = Red

C = White (L-852D only)

X = Screened

M = Blank (unidirectional dome)**

Lamps: _____

030 = 1x30W 6.6A with reflector

045 = 1x48W 6.6A with reflector

Mounting Assembly: _____

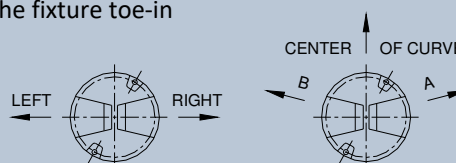
O = No Mounting Assembly

R = Adaptor Ring 8"-12"

Options: _____

F = Fuse Cutouts

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



Straight and Curved Section Orientation

** The not-finished "M" side, on straight sections, is always side "B"

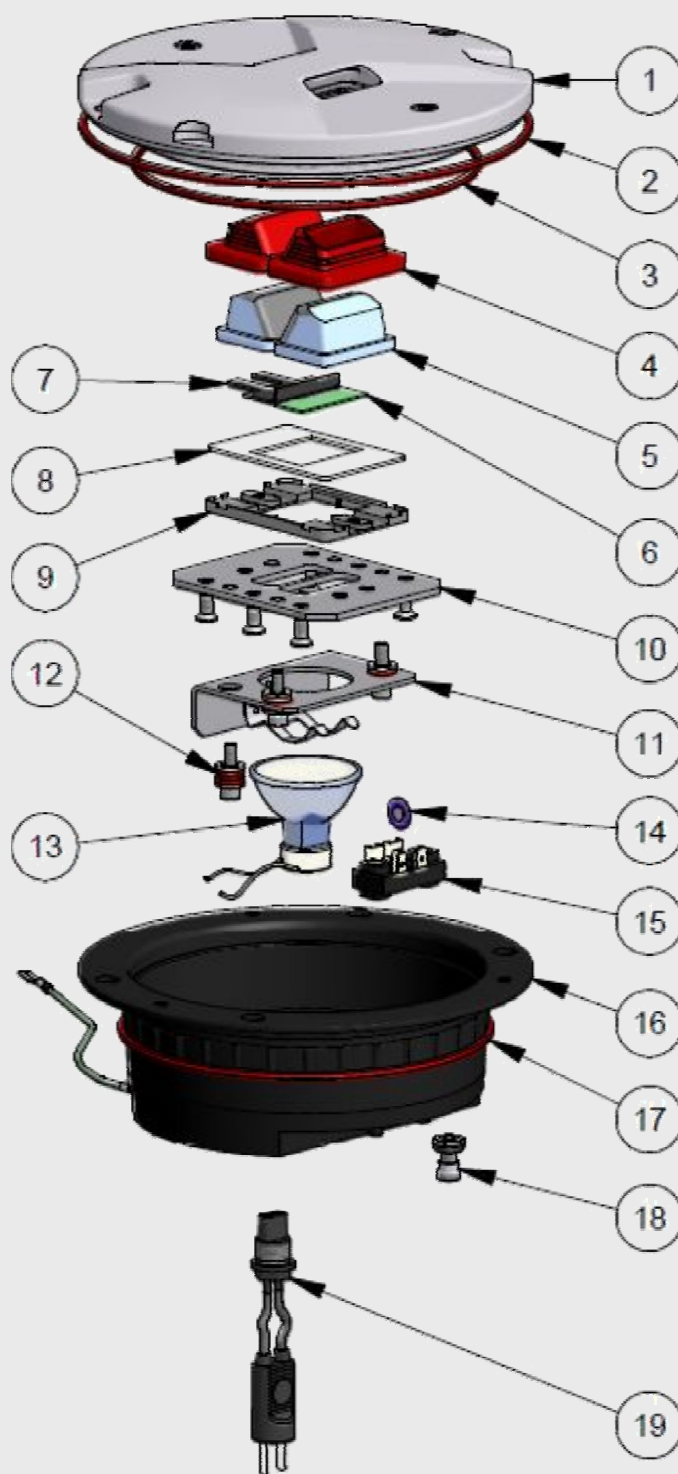
TABLE A

USE	I = OACI CAT III		S = OACI CAT I-II		F = FAA	
	Function	Lamp	Function	Lamp	Function	Lamp
A	Fig. A2.12 straight before and after curves	045	Fig. A2.15 straight	030	L-852A	030
B					L-852B	030
C	Fig. A2.13 straight	045			L-852C	045
D					L-852D	045
W	Fig. A2.14 curved	045	Fig. A2.16 curved	030		
K					L-852K	045
J					L-852J	030

RENEWAL PARTS FOR LIGHT UNIT

- 1 Dome with prisms and gaskets
- 2 O-Ring for dome
- 3 O-Ring for lower cover
- 4 Prism gasket
- 5 Prism
- 6 Filter
- 7 Aluminium screen for unidirectional light
- 8 Teflon filter-holder
- 9 Filter-holder box
- 10 Mounting plate
- 11 Lampholder
- 12 Vibration damping block with hardware
- 13 Lamp
- 14 Fuse cutout
- 15 Insulated strip with hardware
- 16 Lower cover with plug and valve
- 17 O-Ring for base
- 18 Valve for watertightness test
- 19 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 |
| 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) |

* 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
Weight (kg)	2.9	3.2	6.05
Volume (m ³)	0.007	0.007	0.013

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

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