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# LIRT

## LED INSET THRESHOLD AND THRESHOLD WING BAR LIGHT



### APPLICATIONS

Threshold and Threshold Wing Bar 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"
- Colour emitted directly by LEDs: absence of coloured filters ensures no energy losses and no colour shifts
- Fully compatible with existing AFL infrastracture\*
- 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

COMPLIANCES

IEC: TS 61827 NATO: STANAG 3316 CAA: CAP 168 IAAE: TP312

- 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

ICAO: Annex 14 - Volume I Fig. A2-3 and A2-4

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

EASA: CS-ADR-DSN Fig. U-7 and U-8

- 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, 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

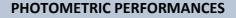
#### **INSTALLATION**

- Suitable for 12" dia. bases
- Specific tools available for easy and precise installation

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TABLES

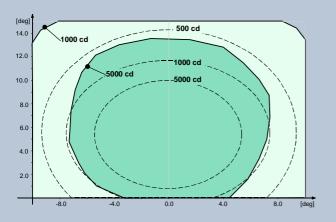
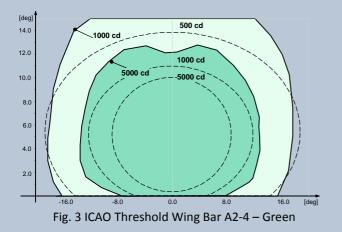


Fig. 1 ICAO Threshold A2-3 - Green



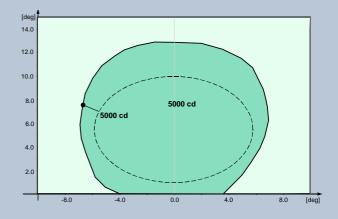


Fig. 2 FAA L-850E Threshold – Green

POWER CONSUMPTION*				
Electrical System	1 Plug			
Threshold (w/o Arctic Kit)	36 VA			
Threshold (with Arctic Kit)	76 VA			
Threshold Wing Bar (w/o Arctic Kit)	73 VA			
Threshold Wing Bar (with Arctic Kit)	113 VA			
* Measured at 6.6 A and referred to the highest				

consumption configuration

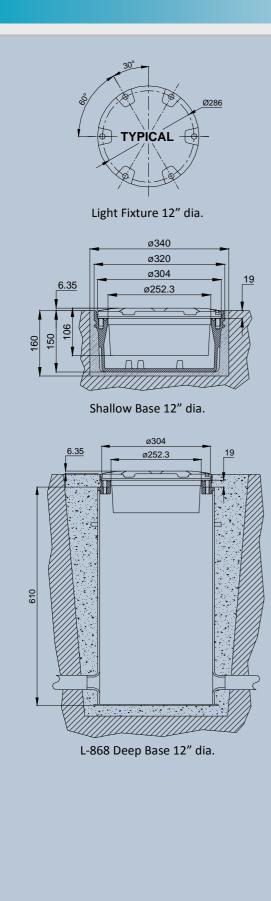
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POWER FACTOR				
Input Step	2.8 A	6.6 A		
Power Factor	0.96	0.98		





<u>LIRT</u> - <u>F</u> - <u>L</u> - <u>M</u> - <u>A</u> 						
Basic P/N:						
Compliance*:						
F = FAA Threshold						
W = ICAO Threshold Wing Bar						
Toe-in**:						
R = Left L = Right						
S = Straight (Not possible for W versions)						
Monitoring:						
0 = Without Monitoring M = With Monitoring						
Arctic Kit:						
0 = Without Arctic Kit A = With Arctic Kit						
* Compliance "F" must be combined with Toe-in "S" only						
** The beam aiming is not field adjustable						
+						
THRESHOLD						

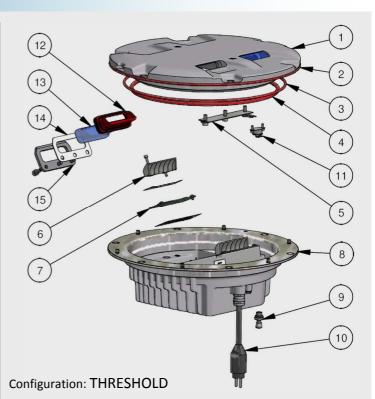
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#### MAIN COMPONENTS OF THE LIGHT UNIT

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

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

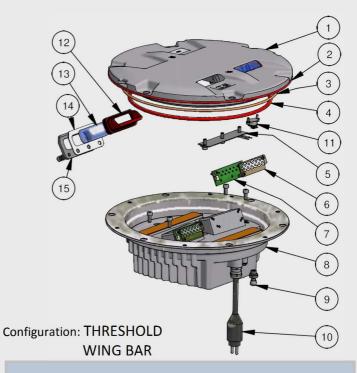


#### ACCESSORIES

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
152.8110	Shallow base, 12" dia., one cable lead, with
	gasket and 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)
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



Ship	Shipping Weights and Volumes		
	Light Unit	Shallow Base	
Weight (kg)	7.3	7.3	
Volume (m <sup>3</sup> )	0.022	0.022	

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

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