

LED Inset Taxiway Edge Light (LTO)

Compliance

- FAA: L-852T(L) AC150/5345-46 and EB No 67
- ICAO: Annex 14 - Volume I par. 5.3.18.8
- EASA: CS-ADR-DSM, Book 1, par M 720 (c) (3)
- IEC: TS 61827
- NATO: STANAG 3316
- CAA: CAP 168
- TCCA: TP312

Applications

Taxiway edge for ICAO, FAA and military taxiways.

Benefits

- 60,000 hours LED rated life at full intensity, but over 100,000 hours in field operating conditions.
- In new installations, LED lights mean smaller loads, smaller CCRs and transformers, thus lower life cycle costs.
- Light output is variable like a traditional halogen lamp, as indicated by FAA "Engineering Briefing No.67".
- Colors are produced by LEDs: no colored filters ensures no energy losses and no color shifts.
- Fully compatible with existing AFL infrastructure (for monitored fixtures, isolation transformer max size: 200 VA).
- Designed with simplicity allowing longer maintenance intervals and fewer spare parts.
- No use of sealing compound to fix the prisms in the dome. Use of gaskets to set the prisms in the dome makes their replacement quick and easy.
- No optical adjustment after LED module or prism replacement.
- Pressure valve for watertightness test after overhaul.
- Compatible with CCRs designed in compliance with IEC or FAA requirements.

Technical Features

- Rugged electronics built tough for high resistance to shock and vibration.
- Automatic adaptation to the 50 or 60 Hz frequency of the supply current.
- Surge protection device is provided to protect the electronics as required by FAA "Engineering Briefing No.67".
- Continuous internal fault detection.
- 0.25" (6.35 mm) limited protrusion above the pavement reduces vibration to aircraft and to the fixture itself, increasing its life expectancy.
- Smooth outer dome profile makes the light less susceptible to snowplow blades.
- Omnidirectional, 8" or 12" dia.



- Aluminum forged dome and die cast lower cover make the fixture sturdy, but lightweight for easier handling in the field.
- O-ring is provided to avoid dirt deposits between the fixture and base.
- IP67 protection.
- Temperature range: -55°C (-67°F) to +55°C (131°F).

Installation

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



PHOTOMETRIC PERFORMANCE

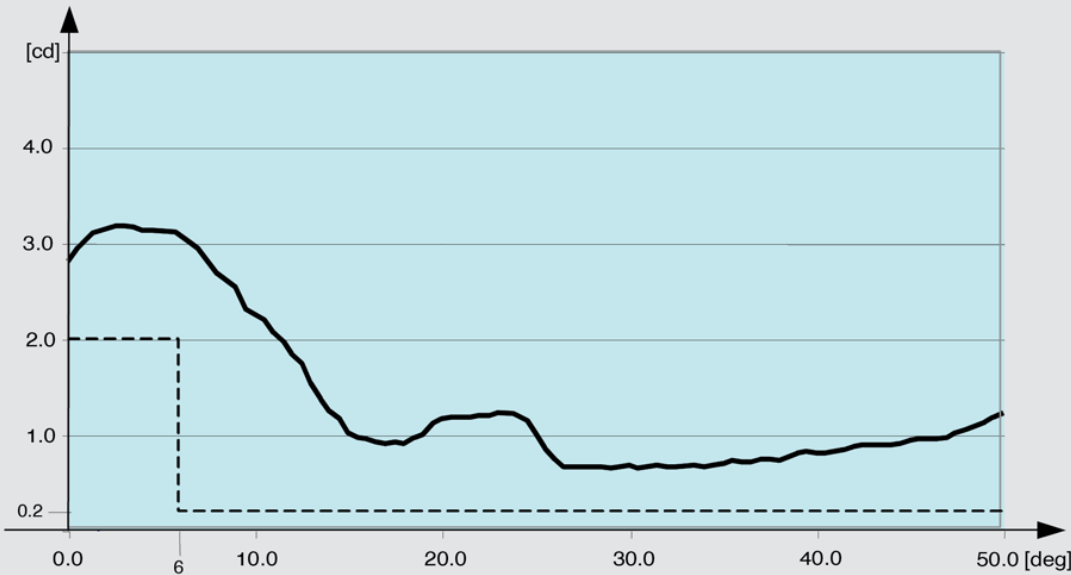


Figure 1 - ICAO par. 5.3.18.8 and FAA L-852T – Blue

POWER CONSUMPTION (maximum value among all fixture configurations)

Power Factor >0.98	Primary conductor isolation transformer		Fixture	
w/o Arctic kit	19.1 W	19.2 VA	8.3 W	8.6 VA
with Arctic kit	73.2 W	73.3 VA	62.1 W	62.2 VA

TECHNICAL DRAWING

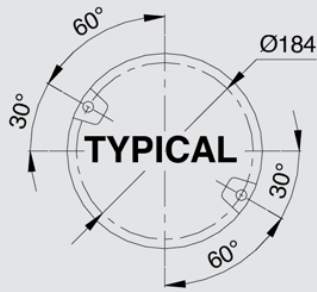


Figure 2 - Light fixture 8" dia.

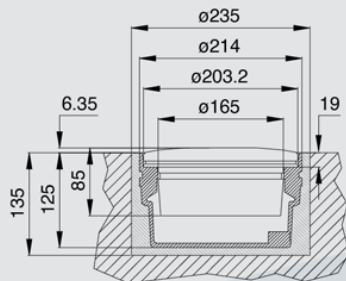


Figure 3 - Shallow Base 8" dia.

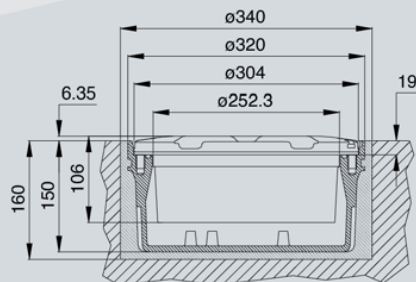


Figure 4 - Shallow Base 12" dia.

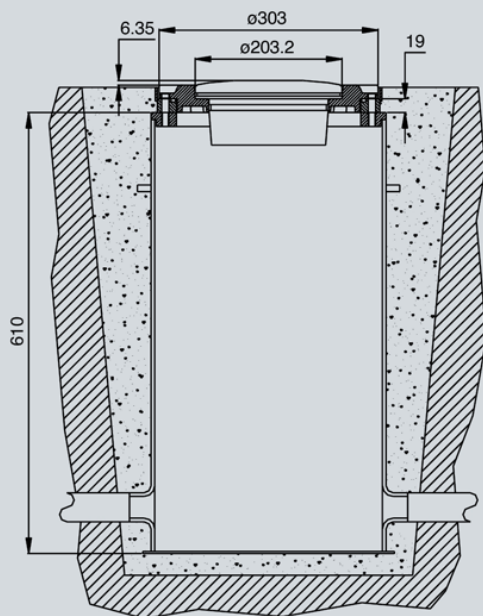


Figure 5 - L-868 Deep Base 12" dia.

PART NUMBER IDENTIFICATION

LTO XX 04 - 0 - M - A

Basic P/N:

08" = Suitable for 8" base
 17" = Suitable for 12" L-867B Deep Base
 18" = Suitable for 12" Shallow Base and
 12" L - 868B Deep Base

Electrical System:

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

(*) Supply cable L=22 cm

(**) Supply cable L=46 cm



RENEWAL PARTS FOR LIGHT UNIT

No.	Description	Qty
1	O-Ring for aluminum lens holder	1
2	Aluminum lens holder.....	1
3	Lens.....	1
4	Lens gasket.....	1
5	Dome	1
6	O-Ring for dome.....	1
7	Arctic kit thermostat.....	1
8	Arctic kit heater	1
9	Lower cover	1
10	Valve for watertightness test.....	1
11	O-Ring for lower cover	1
12	Reflector with hardware	1
13	LED module with accessories.....	1
14	LED module support with hardware.....	1
15	Lower cover gasket	1
16	FAA L-823 plug	1

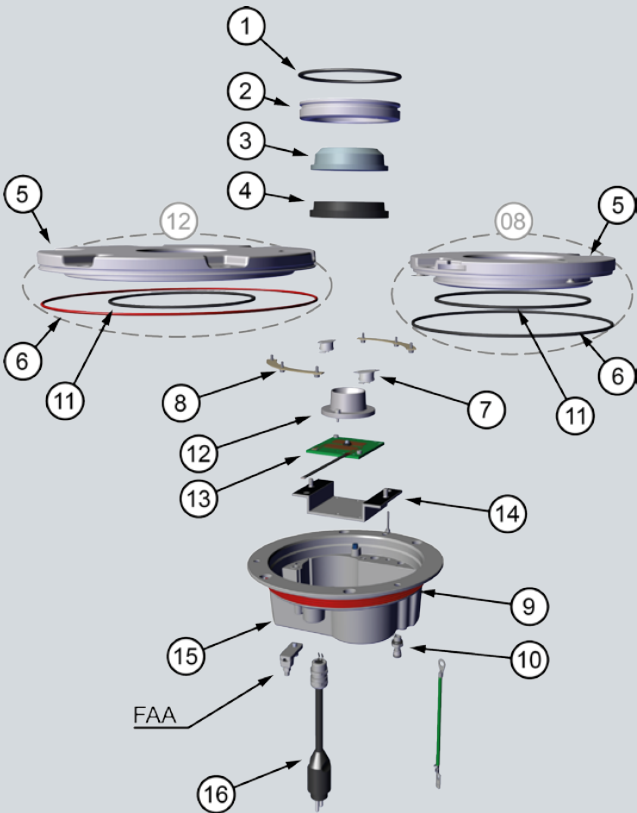
Refer to the relevant technical manual for the complete list of the available spare parts.

ACCESSORIES

315.1228	Base L-867, Class IA, size B, 24" Deep
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
GMMMNO076	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
332.4140	Lifting tool (2 pieces to work properly)
332.4230	Lifting tool with double hook

(*) Sectional bases may be required depending upon the paving technique

EXPLODED VIEW DRAWING



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

SHIPPING WEIGHTS AND VOLUMES

		Light unit	Light unit& adaptor ring	Shallow base
Weight [lbs (kg)]	8"	6.6 (3.0)	13.6 (6.15)	7 (3.2)
	12"	13.0 (5.9)		16 (7.3)
Volume [ft³ (m³)]	8"	0.24 (0.007)	0.45 (0.013)	0.24 (0.007)
	12"	0.78 (0.022)		0.78 (0.022)