

Compliances:

ICAO: Annex 14 - Volume I
 FAA: L-850D AC150/ 5345-46 (Current Edition) and
 "Engineering Brief No.67"
 IEC: TS 61827
 NATO: STANAG 3316

Manual:

Instruction manual **UT-MT-0567**

Performances and benefits:

6mm protrusion FAA Style 3 and IEC Style 4 to reduce damages to aircraft tires and snowplough blades.

Thanks to the **long life** of the LEDs (60,000 hours at the top brightness step or far over 100,000 hours in normal operating conditions) the maintenance activities are extremely reduced and the safety of the airport operations is considerably increased.

The LED emission directly ensures the correct colour. Absence of coloured filters ensures **no energy losses** and **no colour shifts** when viewed at various angles or under temperature/current variations.

The compatibility with the existing typical AFL ~~and~~ circuits is complete. There **is no need to replace CCRs, transformers and cables**. The electronics inside the light makes the light output variable like a traditional halogen lamp, as indicated by the FAA "Engineering Brief No.67".

The lights are provided with a **surge protection device**, as required by the FAA "Engineering Brief No.67".

Immediate detection of an internal fault.

The possibility of installation on existing bases vs the possibility of a progressive **replacement of the existing lights**.

A new installation with LED lights means lower load and therefore low-sized CCRs and transformers, thus allowing **significant savings on installation and management**.

Features:

Aluminium treated drop-forged dome and cast aluminium lower cover.

Unidirectional or bidirectional 12" dia.

The prisms are mechanically clamped to the dome by means of a mounting plate; a customized prism gasket avoids the use of sealing. Replacement is quick and easy.

Fixture energy consumption: typically 25 VA and 20VA (per side), for green and red respectively. Arctic consumption: less than 40 VA per plug.

No optical adjustment is required after the replacement of LEDs or prisms.

An O-ring placed outside around the dome avoids dirt deposits between light unit and mounting assembly.

The removal of the fixture is easy thanks to the two seats provided on the dome.

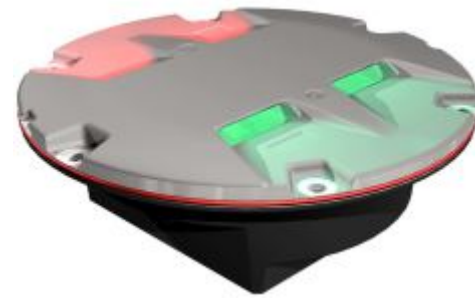
Luminous Sources:

Six LEDs per each direction.

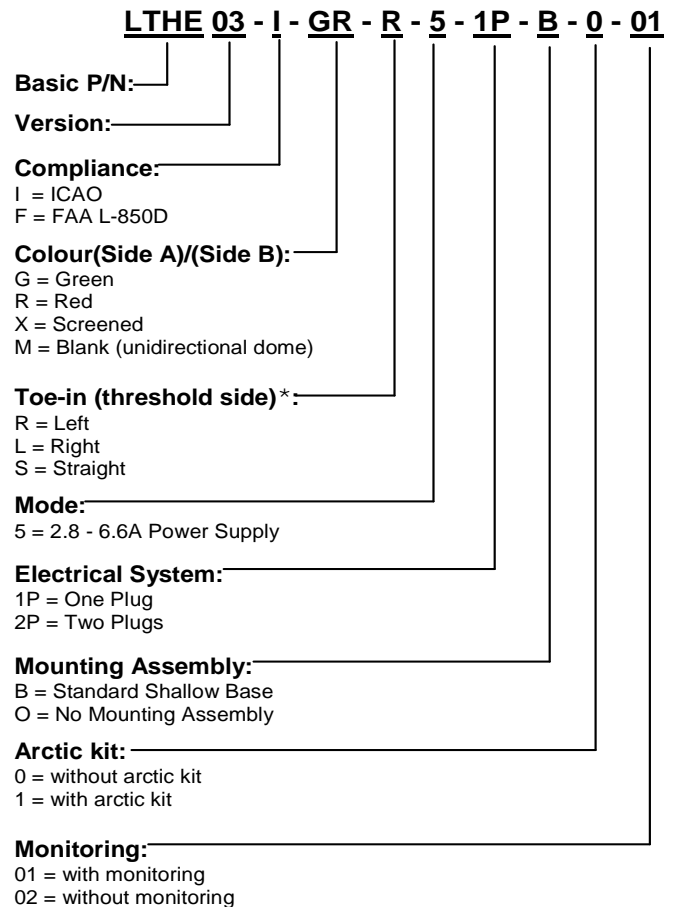
Customized reflector to collect the LED luminous flux and maximize the light output.

Electronics:

Strong-built, highly resistant to shock and vibration.



How To Order:



* Threshold Toe-in Selection

The beam aiming is not field adjustable.



Light output variable like a traditional halogen lamp as indicated by the FAA "Engineering Brief No.67". Patent pending for current/voltage conversion circuit.

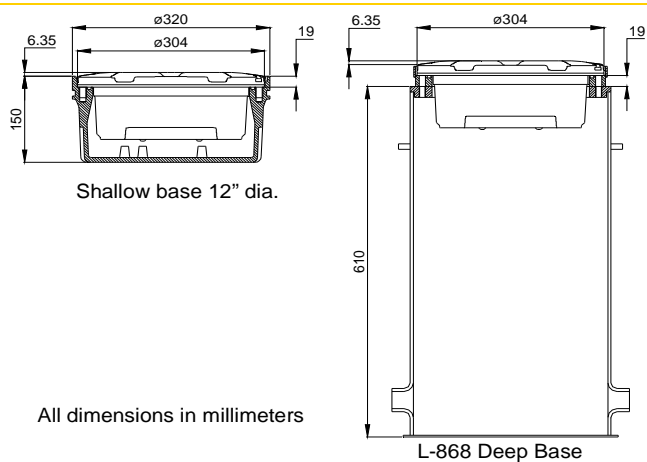
Power Supply:

From 30/45W up to 300W series transformer.

Base:

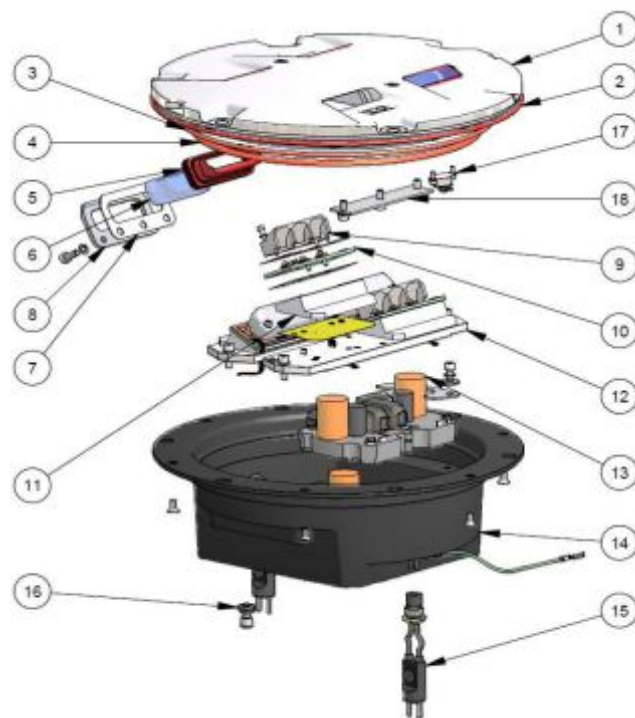
Cast aluminium shallow base, 12" dia. (mounting assembly B), with six threaded holes for fastening the light unit. The base is equipped with one or two cable leads, each consisting of two single-pole leads, with FAA L-823 receptacle. Special bases without cable leads can be supplied on request with suitable holes for conduit connections.

The light unit can be directly mounted on a deep base, L-868 type, size B.



Typical installation

ICAO Annex 14 Photometry			
Runway end Fig.A2-8	Red	3170 cd	
FAA Photometry			
Threshold L-850D	Green	H 4420 cd	V. 4815 cd
Runway end L-850D	Red	H. 2910 cd	V. 3850 cd



Renewal Parts for light unit:

Accessories:

[P/N]	Description
315.1230	Base L-868, 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
153.1110	Shallow base, 12" dia., two cable lead, with gasket and hardware
712.1012	Setting material for shallow base, 5 lt
712.1013	Setting material for shallow base, 20 lt
332.4301	Positioning jig for 8"/12" 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)
019.0415	Device to unlock the monitoring relay

* Sectional bases may be required depending upon the paving technique

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

[N]	Description	[P/N]
1	Aluminium treated drop-forged bidirectional dome, complete with prisms and gaskets	152.5650
	Aluminium treated drop-forged bidirectional dome, complete with prisms and gaskets, suitable for arctic kit	152.5651
2	O-Ring for dome	758.2016
3	O-Ring for lower cover	758.2150
4	O-Ring for lower cover	758.2140
5	Prism gasket	325.0445
6	Prism for threshold	318.1311
6	Prism for runway end	318.1331
7	Plate gasket	325.0450
8	Mounting plate	341.1250
9	Reflector with hardware	152.5600
10	Luminous green source with accessories	152.5807
	Luminous red source with accessories	152.5808
11	Luminous source support with hardware	152.5605
12	Mounting plate with hardware, runway end	152.5606
	Mounting plate with hardware, threshold	152.5607
13	Electronics with monitoring	150.3491
	Electronics without monitoring	150.3936
14	Lower cover with 1 entry, with plug and valve	152.5360
	Lower cover with 2 entries, with plugs and valve	152.5365
15	FAA L-823 plug with accessories	152.6147
16	Valve for watertightness test	786.7045
17	Arctic kit thermostat	152.5500
18	Arctic kit heater, bidirectional light 1P	152.5530
	Arctic kit heater, bidirectional light 2P	152.5535
	Grease for gasket, 400 gr	752.1014
	Anaeroboc adhesive for screws, 50 ml	712.0025

Shipping Weights and Volumes

	Light Unit	Shallow base	Light & Base
Weight (Kg)	8.1	7.3	14.5
Volume (cu.m)	0.022	0.022	0.022

Renewal Parts for bases:

[P/N]	Description
325.2000	Silicone O-ring for bases
011.3020	L-823 two-pole receptacle with leads, 1.0 m long, for shallow base
152.8065	Hardware kit for light unit fastening to shallow base