

Semi-Flush Runway Centreline Light



**Compliances: ICAO Annex 14
NATO STANAG 3316
FAA: Approved AC 150/5345-46 – (L850A)**

Applications

RCLF semi-flush runway centreline light is high intensity, bidirectional, inset, steady burning type; and provide photometric performances in compliance with ICAO Specs - Annex 14, STANAG 3316 and FAA AC 150/5345-46B specification. Fixtures described in this manual are manufactured to be powered through isolating transformers by series circuits, fed by constant current regulators. Characteristics and location of the fixtures shall be in compliance with ICAO Specs - Annex 14, STANAG 3316 and FAA AC 152/5340-28.

Features

Each light assembly mainly consists of a **removable light unit** and a shallow base receptacle. The light assembly is waterproof and designed to withstand aircraft impact and roll-over loads without damage. No water builds up in front of the window and the luminous output is not affected under rainfall.

On request, a suitable adaptor ring is available to allow the installation on 12" diameter base, type L-868, size B, as per FAA AC 150/5345-42, thereby permitting replacement of any inset fixture without removing the deep base from the pavement.

The **removable light unit** mainly consists of a **dome**, a **lower cover** and the **optical assembly**.

The **dome** is made by treated drop-forged aluminium and includes two windows to seat the prisms. In correspondence of the windows, the dome is outside provided with identification letters "A" and "B". The dome is provided with two through holes for fastening the light unit to the base and two dead holes for matching two studs mounted on the base, so to prevent the rotation of the light unit due to aircraft wheel impact/roll over.

It is also provided with two suitable slots, in opposite position, to make easy the light unit removal by using two suitable

How to order

Type: R C L F - - - - - -

Compliance: _____
 F = FAA
 I = ICAO Cat. III
 S = STANAG and ICAO Cat. I - II

Colour (Side A)/Colour (Side B): _____
 C = Clear
 R = Red
 X = Blank

Lamp Type: _____
 045 = 1x48W 6,6A reflectorized
 090 = 2x48W 6,6A reflectorized

Electrical System: _____
 1P = One Cable Lead
 2P = Two Cable Leads

Mounting Assembly: _____
 B = Standard Shallow Base
 R = 12" Adaptor Ring
 O = No Mounting Assembly

Options: _____
 F = Fuse Cutout(s)
 E = Electronic Cutout Relay(s)

 : FAA Approved, ETL certified.

lifting tools (available on request, P/N 332.4140). As alternative, two screw-drivers can be used.

The **lower cover** consists of a treated aluminium casting.

The cover is outside provided with one or two cable leads with plug L-823 and bush, a grounding screw with yellow-green cable lead (with male faston terminal) and a valve (with removable cap) for leak test.

The **optical assembly** consists of two prisms, two lamp and two coloured filters.

The lamps are of tungsten-halogen type, 48 W, 6,6 A, 1500 hour rated life, with dichroic reflector and cable leads (with male faston terminals).

Just one optical assembly is available for this fixture (P/N 152.1500), in fact RCLF hasn't particular beam toes, in compliance with FAA 150/5345-46B.

The light unit is supplied with one or two **cable lead with plug and bush**; it consists of two single-pole teflon leads, size 2.5 sqmm. The plug is in compliance with FAA 150/5345-26C for very quick coupling with the receptacle mounted on the shallow base. If light unit is equipped with one cable

lead with plug, both the lamps will work simultaneously; If it is necessary to operate independently the two lamps, then two cable leads with plug are necessary.

Bidirectional fixtures - one cable lead with plug and bush

Each lamp is connected by means faston terminals to the relevant insulating strip, which is fixed to the lower cover (one of the lamp male fastons is connected to one of the insulating strip female ones). A **fuse cutout**, can be supplied to allow the series of more light fixtures on the secondary of one isolating transformer .

As alternative **an electronic cutout relay** can be supplied.

Bidirectional fixtures - two cable leads with plug and bush

Both the cable entries of the lower cover are used: the bush of the lamp "A" cable lead is screwed to the lower cover in correspondence to the entry "A" and the bush of the lamp "B" cable lead is screwed to the lower cover in correspondence to the entry "B" .

Each lamp is connected by means of faston terminals to the relevant insulating strip, which is fixed to the lower cover.

A fuse cutout, can be supplied to allow the series of more light fixtures on the

secondary of one isolating transformer .

As alternative an electronic cutout relay can be supplied directly fixed to the lower cover. In this case the male terminals of each lamp are connected to the female faston of the relevant relay, while the male fastons of the relay are connected to the rounded male faston of the relevant cable lead through the above described pair of wires.

The light assembly unit is 203 mm in diameter and 90 mm (+ 18,5 mm for plugs) high; the protrusion above the ground is 6 mm.

An identification data label is externally applied over the lower cover. Moreover, to identify quickly the beam colour, the letters "A" and "B" of the dome in front of the windows is painted in the same colour of the filter.

The same colour painting is provided outside on the lower cover.

All hardware is made of stainless steel.

Feature continues:

The shallow base consists of a treated aluminium casting containing an electrical feed-thru system to connect the power cables, consisting of one or two cable leads with receptacle incoming inside the base through one or two cable glands. The cable lead with receptacle consists of two single-pole teflonleads, size 2.5 sqmm, 0.770 m long, with FAA L-823 receptacle.

The letters "A" and "B" are printed inside the base for cable leads identification.

The base is equipped with an internal grounding screw.

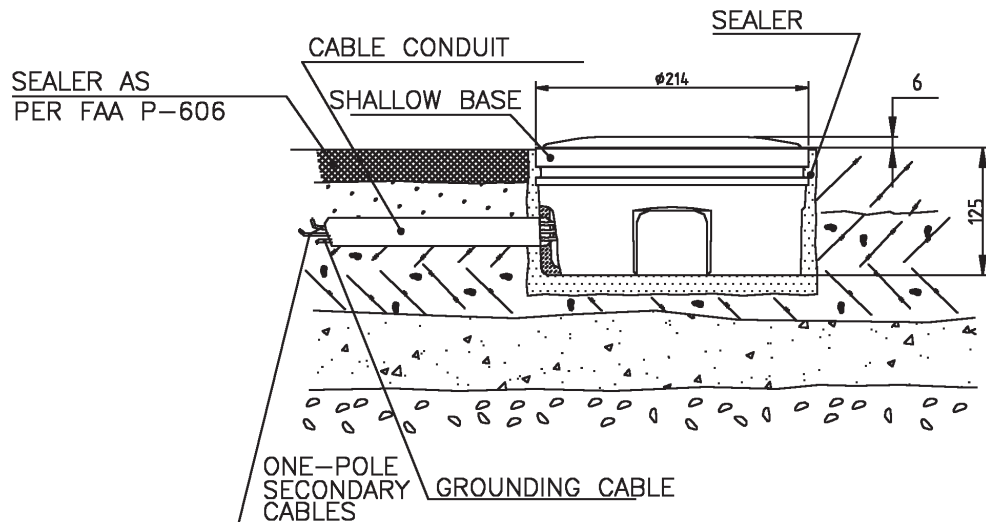
An additional external grounding screw is provided close to the cable entry.

The shallow base is designed for cementing in place in a hole drilled in the pavement.

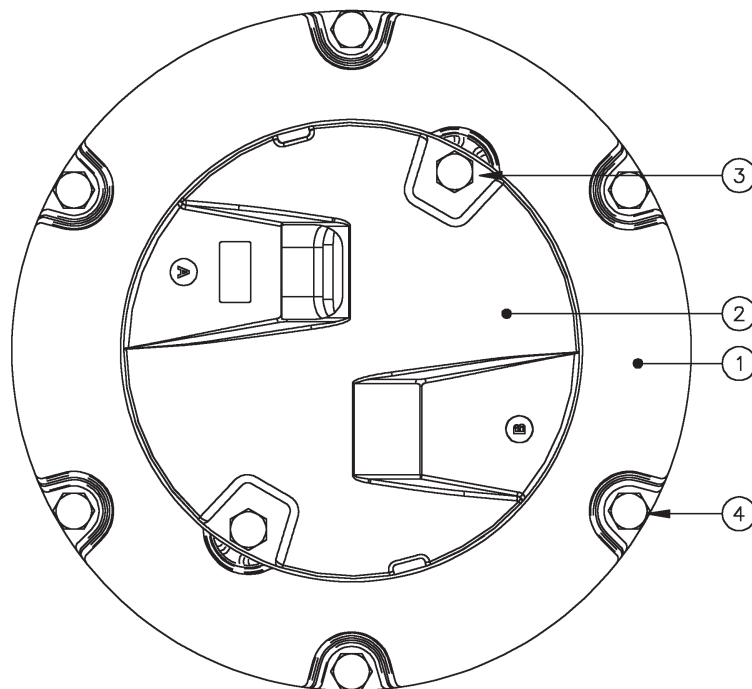
The shallow base is 214 mm in diameter and 125 mm high.

On request, special bases without cable leads can be supplied, provided with holes suitable for conduit connections.

SEMI-FLUSH RUNWAY CENTRELINE LIGHT RCLF SHALLOW BASE FOR SIDE CONDUIT – MOUNTING DETAILS



SEMI-FLUSH RUNWAY CENTRELINE LIGHT RCLF – LIGHT UNIT WITH ADAPTOR RING (MOUNTING SYSTEM R)



- 1 - Adaptor ring (mounting system R)
- 2 - Removable light unit
- 3 - Hardware to fasten the light unit to the adaptor ring
- 4 - Hardware to fasten the adaptor ring to the 12" base

Instruction manual : UT-MT-428

	Light unit	Shallow Base	Light Unit & Shallow base	Light Unit & Adaptor Ring
Shipping Weight	2,9 kg	3,2 kg.	5,75 Kg.	6,05 Kg.
Shipping Volume	0.007 cu.m	0.007 cu.m	0.007 cu.m	0.013 cu.m

Renewal Spare Parts:

Code [P/N]	Description
303.2440	Bidirectional dome
152.5300	Lower cover with a cable lead with plug and bush and internal connections cables
152.5305	Lower cover with two cable leads with plug and bush and internal connections cables
152.1500	Complete lamp supporting plate RCLF 35°
152.5320	Vibration.camping block with hardware
760.2186	48 W tungsten-halogen, 6.6 A, with dichroic reflector
318.8165	Dichroic red filter
318.1240	Prism
325.0431	Prism gasket
758.2120	O-RING (Between dome and lower cover)
758.2014	O-RING for dome
758.2008	O-RING for mounting assembly
000.1466	Fuse cutout
329.3025	Insulating strip for fuse cutout with hardware
202.0012	Electronic relay with hardware
786.7045	Pressare valve
329.0050	L-823 two-pole plug with cable leads and bush
712.0025	Lower anaerobic adhesive, 50 cc
752.0003	Screw paste, 100 gr
712.0004	Medium anaerobic adhesive, 50 cc
152.6045	Shallow base fixing hardware, dia 8": 700.2228 - screw HH M10x30 stainless steel (2) 706.1106 - elastic washer M10 stainless steel (2) 706.5206 - washer M10 nylon (2)
152.8060	Shallow base fixing hardware (with adaptor ring), dia 12": 700.2228 - screw HH M10x30 stainless steel (6) 706.1106 - elastic washer M10 stainless steel (6) 706.5206 - washer M10 nylon (6)



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