



# Runway Threshold and End Light

Compliances: FAA AC 150/5345-46: L-850D

**ICAO Annex 14** 

USAF Regulation 88-14 USN NAVAIR 51-50AAA-2 NATO STANAG 3316



RTEL

### **Applications**

The RTEL is a high intensity bidirectional light used on runways where the threshold and end lighting are co-located. The green threshold light's main beam may be straight or toed-in 3.5 degrees. The red runway end light has a straight beam. The two lamps are typically connected to separate circuits with red side operated by the runway edge lighting circuit.

### **Features**

- FAA Approved L-850D
- Proven Reliability
- Variety of Mounting Methods
- Optional Nickel-Molybdenum Alloy Casting: 2.3 times the tensile strength of ductile iron.
- Optional Metallic-Ceramic Coating for greatly increased corrosion resistance

# **Application Notes**

- Sectional Class I bases may be required for proper installation.
- Size C RTEL will also mount on a FAA-L867D base for special applications.
- All bases must have 1.25 inch thick plywood covers. Setting material must be purchased separately for Class II bases: 100 lbs. per base.
- FAA Size B fixtures require that the bases be installed with any two opposite mounting bolt holes parallel to the runway centerline.

# **Ordering Information**

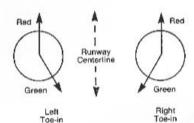
How to Order: Select the number of leads to match the number of isolation transformers to be used. Choose the letter to match the FAA base size to be installed. Add designations for the lamp wattage and colors. The orientation of the color symbols determines the optical beam toe-in.

### Example:

An 850D2-C-185-RG is a bidirectional threshold and end light with right toe-in on the green beam and a straight red beam. It mounts on a 14.25 inch bolt circle base. This fixture is furnished with two 185 watt lamps. It has two leads for making connections with two 200 watt isolation transformers.

		T .	
FAA Type: _			
Number of Leads: 1 or 2 with L-823 Plugs			
FAA Base Size:  B = 11.25 Inch Bolt Circle C = 14.25 Inch Bolt Circle			
Lamp Wattage*:			
115 = 2 x 115w Lamps 185 = 2 x 185w Lamps 200 = 2 x 200w Lamps			
Color/Color**:			
C = Clear			
G = Green			
R = Red Y = Yellow			
X = Opaque/Blank			
Beam Orientation:			
S = Straight Beams Both Sides			1100
No Symbol means there is toe-in*	*		
Options:			

- \* Use "115" for VFR approaches only. Use "185" for precision approaches.
- \*\* Refer to the color symbol position: The red beam is always straight. RG means right toe-in of the green beam. GR means left toe-in of the green beam.



# **Installation Drawings:**

Dimensions: Inches (Millimeters) Installation Manual: 8401 Size B Size C Shipping 55.0 lbs. 90.0 lbs. Weight: 25.0 kg. 41.0 kg. Shipping 1.00 cu.ft. 0.75 cu.ft. Volume: .021 cu.m. .032 cu.m.

# RTEL-850D1-B 11.95 0.75 (304)(19)1.25 (32)11.25\* (286)RTEL-850D1-C 1.00 17.25 (25)(438)1.25 (32)14.25 (362)

### **Accessories**

\* Diameter for six (6) equally spaced bolts.

Catalog		Shipping Weight		Shipping Volume	
Number	Item Description	Lh.	Kg.	Ca. Ft.	Cu. M.
900128-B-16-DF	Base: L-868B, Class II, 16" Deep	30.0	13.6	2.2	.062
900106	Base: L-868C, Class II, 8" Deep	36.0	16.3	2.2	.062
2424	Base: L-868B, Class I, 24" Deep	63.0	28.6	2.5	.070
3524	Base: L-868C, Class I, 24" Deep	78.0	35.4	3.0	.085
6324	Base: L-867D, Class I, 24" Deep	67.0	30.4	4.3	.122
20452-S234	Base: Shallow, Size B (for one lead RTEL)	25.0	11.3	0.8	.022
20452-S234A	Base: Shallow, Size B (for two lead RTEL)	25.0	11.3	0.8	.022
33004	Transformer L-830-4, 100w 6.6/6.6A	12.0	5.4	0.4	.011
33006	Transformer L-830-6, 200w 6.6/6.6A	16.0	7.3	0.4	.011
10048-93A/C	Setting material for Class II Base, 50 lb, bag	50.0	22.7	2.0	112
10047-1417	Connector Kit L-823, 8 AWG, .322 To O.D.				

### **Renewal Parts**

10047-1425

Part Number	Description	Part Number	Description		
20496	Lamp 115w	20253	Bottom Cover Assembly (2 Leads)		
20538	Lamp 185w	20257	Bottom Cover Assembly (1 Lead)		
20268	Lamp 200w	10048-2	RTV 106		
20073-Y	Filter Assembly, Yellow	10047-409	Film Disc Cutout		
20073-DR	Filter Assembly, Red		1 1111 # 154 # 335 81		
20073-DG 20148	Filter Assembly, Green Reflector	FAA Base Size	FAA Base Size C Only:		
10035-33-274 PF'37		20266-XXX-XX*			
10035-33-010	<b>O</b> -Hing	20266-XXX-XX*			
20020	Lead Assembly	20183	Mounting Ring		
19095	Socket	10000-365M	Bolt		
19096	Socket Holder	11A11-031D	Lock Washer		

<sup>\*</sup>Add lamp wattage and colors.



Crouse-Hinds

Quality from Cooper Industries

### For more information

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Heat Shrink Kit

CROUSE-HINDS
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