

DOCUMENT 2003  
REVISION N  
July 15, 2009

**COOPER** Crouse-Hinds

# Instruction Manual



*Style 3*

*Runway Centerline Light (RCL)*  
*ICAO ANNEX 14, Third Edition, Figure 2.7*

&

*Touchdown Zone Light (TDZ)*  
*ICAO ANNEX 14, Third Edition, Figure 2.5*

PATENT PENDING

**For parts and technical service call (860) 683-4300**

**Cooper Industries  
Crouse-Hinds Division  
Crouse-Hinds Airport  
Lighting  
1200 Kennedy Road  
Windsor, Ct. 06095**

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Instruction Manual  
Style 3  
ICAO Runway Centerline Light & Touchdown Zone Light**1 Revisions**

Revision Number	Issue/Reissue Letter Number	Description	Checked	Approved
A	A200-042	INITIAL ISSUE	KWF	JMM
B	A200-068	REVISED PGS. 4, 7. (ADDED P/N 21124) PARTS LIST ITEM 25 WAS 10030-135	KWF	JMM
C	A200-153	REVISED PAGES 1,7 (ADDED CX VERSION AND PARTS LIST ITEMS 28,29	KWF	JMM
D	A201-281	PAGE 2 (PARA 6.1) & PAGE 7 ITEM 11, 48 WATT LAMP WAS 45 WATT	PJG	JMM
E	A202-057	REVISED PAGE 4(PARA.8.3); PAGE 6 ( PARA.8.7); PAGE 7 (PARTS LIST); FIGURE 5	KWF	JMM
F	A202-210	Added mounting bolt and Loctite requirements to paragraph 7.0. Added Loctite requirements to paragraphs 8.2, 8.3, 8.4, 8.5. Added items 9 and 35 to parts list.	KWF	JMM
G	A202-210	Corrected header revision letter	KWF	JMM
H	A203-082	Added Figure 1 and renumbered following Figures	4/3/03	GFR

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Revision Number	Issue/Reissue Letter Number	Description	Checked	Approved
J	A204-129	Para 5, deleted Shallow Base Options; removed ref to steel light bases; para 7 & 8.7, updated to latest mfg; parts list item 27 was 21124, qty 1; added 10048-2 to parts list; updated figs 3, 4, 6	6/2/04	GFR
K	A204-244	Parts List, Item 21 was #10-32 x 1/2 LG	10/19/04	GFR
L	A205-152	Added Version YX and related data to document.	5/18/05	GFR
M	A207-198	Cover page, added copyright & deleted 1998 copyright from interior pages; Parts List, item 34 P/N was 10035-62	6/25/07	PG
N	A209-101	Parts List, Item 10 was 21115 & 304 Stn Stl was 18-8; FAA AC 150/5345-46D was 46C (all locations)	7/15/09	JRC

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THE FOLLOWING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING, BUT NOT BY WAY OF LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

Crouse-Hinds Airport Lighting Products (“the Company”) warrants to each original Buyer of Products manufactured by the Company that such Products are, at the time of delivery to the Buyer, free of material and workmanship defects, provided that no warranty is made with respect to:

- (a) any Product which has been repaired or altered in such a way, in Company’s judgment, as to affect the Product adversely;
- (b) any Product which has, in Company’s judgment, been subject to negligence, accident or improper storage;
- (c) any Product which has not been operated and maintained in accordance with normal practice and in conformity with recommendations and published specification of Company; and,
- (d) any Products, component parts or accessories manufactured by others but supplied by Company (any claims should be submitted directly to the manufacturer thereof).

Crouse-Hinds Airport Lighting Products’ obligation under this warranty is limited to use of reasonable means to repair or, at its option, replace, during normal business hours, at any authorized service facility of Company, any Products which in its judgment proved not to be as warranted within the applicable warranty period. All costs of transportation of Products claimed not to be as warranted and of repaired or replacement Products to or from such service facility shall be borne by Purchaser. Company may require the return of any Product claimed not to be as warranted to one of its facilities as designed by Company, transportation prepaid by Purchaser, to establish a claim under this warranty. The cost of labor for installing a repaired or replacement product shall be borne by Purchaser. Replacement parts provided under the terms of this warranty are warranted for the remainder of the warranty period of the Products upon which they are installed to the same extent as if such parts were original components thereof. Warranty services provided under the Agreement do not assure uninterrupted operations of Products; Company does not assume any liability for damages caused by any delays involving warranty service. The warranty period for the Products is 24 months from date of shipment or 12 months from date of first use whichever occurs first.

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This equipment is normally used or connected to circuits that may employ voltages that are dangerous and may be fatal if accidentally contacted by operating or maintenance personnel. Extreme caution should be exercised when working with this equipment. While practical safety precautions have been incorporated in this equipment, the following rules must be strictly observed:

**3.1 KEEP AWAY FROM LIVE CIRCUITS**

Operating and maintenance personnel must at all times observe all safety regulations. Do not perform maintenance on internal components or re-lamp with power ON.

**3.2 RESUSCITATION**

Maintenance personnel should familiarize themselves with the technique for resuscitation found in widely published manuals of first aid instructions.

### 3.3 SAFETY SYMBOLS



**DANGER**

***DANGER:***

*The hazard or unsafe practice will result in severe injury or death.*



**WARNING**

***WARNING:***

*The hazard or unsafe practice could result in severe injury or death.*



**CAUTION**

***CAUTION:***

*The hazard or unsafe practice could result in minor injury.*



**NOTICE**

***NOTICE:***

*Possibly dangerous situation, goods might be damaged.*



**IMPORTANT**

***IMPORTANT:***

*Helpful information.*

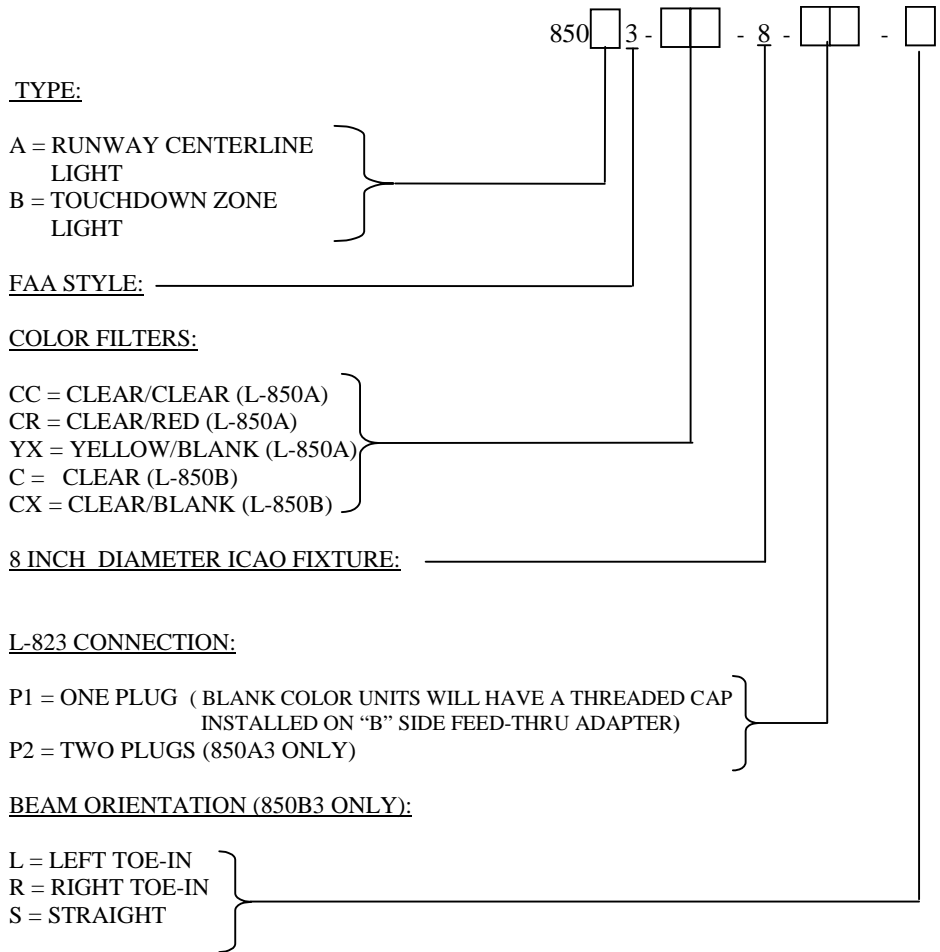
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**5 Part Number Explanation**



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**6 General Description**

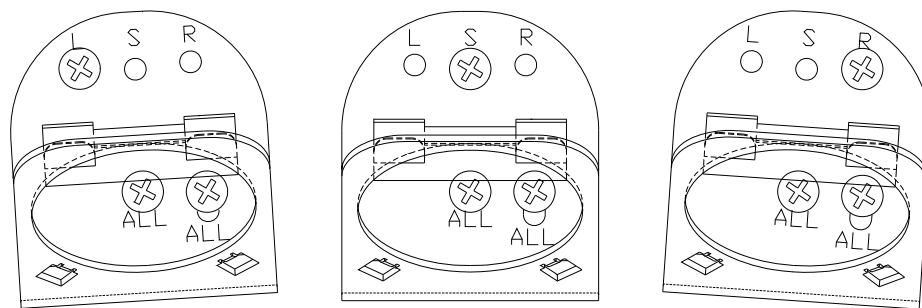
**6.1 Runway Centerline Light, L-850A**

The Crouse-Hinds Style 3 ICAO Runway Centerline Light is designed for installation at the centerline of runways or any other location where visual guidance of moving aircraft or ground vehicles is desirable. It meets the photometric requirements of ICAO Annex 14, Volume 1, Appendix 2, Figure 2.7, for Runway Centerline Light, 15m spacing and Figure A2-6 for Rapid Exit Taxiway Light. The fixture is designed to fit on an eight inch light base, and have a total height above grade/ground level of < .250 inch. The fixture is bi-directional, projecting two beams of light 180° apart. It is weatherproof and will endure roll over loads without damage. The light fixture consists of an aluminum housing that is secured to the light base using two high-strength bolts and two high-strength shear pins. The aluminum housing has a die cast bottom housing that is attached using 4 screws. A 3/32" o-ring is used to seal the aluminum housing to the bottom cover. There is an integrated gasket bonded to the bottom cover to seal the fixture to a light base. Two 48-watt, MR-16 lamps are secured to two brackets, which are fastened to the bottom housing. Electrical connections are made at either one or two feed-thru assemblies in the inner cover. The feed-thrus have ITS verified L-823 plugs for connecting to FAA Type L-830/ L-831 Isolation Transformers. Lenses are held into the aluminum housing with a bracket, gasket, molded elastomeric boot and two screws. Red dichroic-coated lenses are available from the factory, or may be installed in the field. All hardware is type 18-8 stainless steel. The complete light unit is 7.94 inches in diameter, 3.48 inches deep, and weighs 5 lbs.

**6.2 Touchdown Zone Light, L-850B**

The Crouse-Hinds Touchdown Zone Light is identical to the Runway Centerline Light described in section 6.1., except it is unidirectional. It meets the photometric requirements of ICAO Annex 14, Volume 1, Appendix 2, Figure 2.5, for Touchdown Zone Lights.

Toe-in of the light beam is obtained internally by alignment of the lamp bracket holes and the corresponding holes in the bottom housing. The toe-in direction orientation can be straight, toe-left or toe-right.



Toe-Left

Straight  
**Figure 1**

Toe-Right

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The Style 3 RCL and TDZ light units are shipped complete, including the lamp(s), and are ready for installation as received. Installation of the light unit is to be done with primary **POWER OFF** and **SECURED**. At each light location, install a Crouse-Hinds P/N 21136-X aluminum, 8 inch diameter, light base with two opposite bolt holes perpendicular to the runway centerline. Install the properly sized isolation transformer(s) and make necessary primary power connections using L-823 connectors. The RCL light unit requires either two 45 watt, 6.6A secondary transformers for the two lead version, or one 100 watt, 6.6A secondary transformer for the single lead version. The TDZ light unit requires one 45 watt, 6.6A secondary transformer. Verify that the mounting flange and gasket sealing surface on the light base are clean. Coat the gasket on the light fixture bottom cover with Dow Corning FS 1292 grease. Connect the plug(s) from the light unit to the secondary(ies) of the previously installed isolation transformer(s). Lower the light unit straight down onto the base. The light fixture is subject to optical misalignment or mechanical damage if not seated properly. Verify the light beam(s)/color(s) are properly orientated for the individual location. Select the proper length 18-8 stainless steel mounting bolt. Used 1.5" long bolts and split ring lock washers for bases with thru holes. Used 7/8" long bolts and split ring lock washers for bases with blind holes. Apply Loctite 242 (P/N 10048-30), per manufacturer's instructions, to both mounting bolts and immediately torque them to 225 -0+10 in-lbs.

**8 Maintenance**

The preferred method of maintaining these lights is to periodically and systematically replace the Optical Assembly and return it to the maintenance shop for renovation. As an alternative, the Optical Assembly can be serviced in the field. However, it is recommended that field servicing be limited to cleaning the lens as described in section 8.1 and to lamp replacements as described in section 8.2.

**8.1 Cleaning Lenses**

With a compressed air blast or suitable brushes, remove all accumulated debris from the light channel. Clean the outer surface of the prism with a detergent solution. If the lens is coated with a substance impervious to the detergent, a suitable solvent should be sparingly applied with a wad of cotton or a patch of cloth on the end of a wood splint. After the solvent has acted the remaining solvent and softened coating should be removed with a clean piece of cotton or cloth. Care should be taken to avoid excessive contact between the solvent and the lens seal. Remove all remaining solvent from lens and seal. A gentle air blast may be used.

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*Light assembly parts are hot when lamp is energized and remain hot for a short time after lamp/fixture is turned off.*

**Remove and secure power to the fixture.** Separate the Optical Assembly from the light base by removing the two bolts. There are two pry slots in the optical housing to help separate the Optical Assembly from the support ring. Turn the Optical Assembly upside down and remove the four screws holding the inner cover to the light housing. Disconnect the lamp leads from the feed-thru terminals. Remove the Lamp Assembly by gently pulling up on the lamp reflector base. Inspect the feed-thru terminal for signs of corrosion. Replace feed-thru assemblies per paragraph 8.5. Clean the inside surfaces of the lens(es) with denatured alcohol. Inspect the lamp holder bracket(s) for loose hardware; tighten the mounting screws to 30 in-lbs.

**CAUTION****CAUTION:**

*Touching the quartz bulb with bare fingers may seriously shorten lamp life. If the bulb has been touched, wipe it clean with a piece of lens cleaning tissue or similar material moistened with denatured alcohol.*

Install the new lamp by reversing the procedure above. Make certain the rim of the reflector is flush against the bracket and seated against the two pins at the bottom of the bracket. Connect the lamp leads to the feed-thru terminals. Inspect/ replace the inner cover gasket per paragraph 8.3. Assemble the inner cover onto the light housing. The screw hole patterns in the inner cover and light housing are offset to insure proper alignment. Tighten the mounting screws to 30 in-lbs. Clean the mounting flange area of the base. Place the fixture into the base. Apply Loctite 242 (P/N 10048-30), per manufacturer's instructions, to both mounting bolts and immediately torque them to 225 -0+10 in-lbs.

**8.3 O-ring Replacement**

Every time the Optical Assembly is opened the o-ring must be closely examined and replaced if necessary. Any o-ring that is stretched, torn, has a permanent set or some other defect, which would prevent it from forming a watertight seal, must be replaced with a new o-ring.

**NOTICE****NOTICE:**

*A bad o-ring seal is the most common cause of inset fixture leaks. It is strongly recommended that a new o-ring be installed every time the Optical Assembly is opened.*

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Remove the old o-ring from the groove in the optical housing. Carefully clean the o-ring groove and flange mating surface on the inner cover. Take care not to damage the mating surface or o-ring groove. Coat the o-ring (P/N 10035-62) with a thin layer of Dow Corning FS 1292 Lubricating grease. Position the new o-ring in the groove and press it into place. Torque the inner cover screws to 30 in-lbs. Perform a pressure test as described in paragraph 8.6. Clean the mounting flange area of the base. Place the fixture into the base. Apply Loctite 242 (P/N 10048-30), per manufacturer's instructions, to both mounting bolts and immediately torque them to 225 -0+10 in-lbs.

**NOTICE****NOTICE:**

*The groove is designed to be wider than the o-ring. This provides room for displacement of the o-ring when compressed between the housing and mating surface. Properly tightened screws are important in obtaining a complete seal.*

**8.4 Lens Replacement**

If a lens is broken, leaks or is badly pitted or scarred, it must be replaced. It is highly recommended that this task be performed in a clean shop environment. Use Lens Replacement Kit P/N 21126-C for clear lenses, and kit P/N 21126-R for red lenses. **Remove and secure power to the fixture.** Separate the Optical Assembly from the light base by removing the two bolts. There are two pry slots in the optical housing to help separate the Optical Assembly from the support ring. Turn the Optical Assembly upside down and remove the four screws holding the inner cover to the light housing. Remove the two lens retaining bracket screws from the light housing. Remove the lens-retaining bracket and discard the lens-retaining gasket. Firmly push the lens/boot assembly from the outside of the light housing; discard the old lens and boot. Thoroughly clean the lens opening with denatured alcohol and allow to dry. Inspect the lens opening for scratches or pits, a damaged lens opening surface will not seal properly. Place a new lens boot (P/N 21103) over the replacement lens (P/N 21102-C, 21102-R, or 21102-Y). Apply a thin coat of Dow Corning FS 1292 grease over the entire outside surface of the lens boot. Align the lens/boot assembly in the lens opening and press it into place. Verify that the lens boot is not pinched in the lens opening. Using a new lens retaining gasket (P/N 21101), fasten the lens retaining bracket (P/N 21100) to the light housing. Torque the mounting screws to 30 in-lbs. Assemble the inner cover onto the light housing. The screw hole patterns in the inner cover and light housing are offset to insure proper alignment. Torque the mounting screws to 30 in-lbs. Perform a pressure test per paragraph 8.6. Clean the mounting flange area of the base. Place the fixture into the base. Apply Loctite 242 (P/N 10048-30), per manufacturer's instructions, to both mounting bolts and immediately torque them to 225 -0+10 in-lbs.

**8.5 Feed-thru Replacement**

**Remove and secure power to the fixture.** Separate the Optical Assembly from the light base by removing the two bolts. Turn the Optical Assembly upside down and remove the four screws holding the inner cover to the light housing. Disconnect the lamp leads from the feed-thru terminals. Remove the feed-thru by unscrewing the retaining collar. Clean the mounting surface with Isopropyl Alcohol and allow to dry. Apply a thin coat of Dow Corning FS 1292 grease to the mounting flange of a new feed-thru (P/N 21121 for 2 lamp/ 1 plug, or P/N 21122 for 1 lamp/ 1 plug). Apply a drop of Loctite 242 to the feed-thru adapter threads. Screw the feed-thru retaining collar onto the adapter; refer to Figure 6 for proper inner cover/ feed-thru orientation. Torque the retaining collar to 30 in-lbs. Assemble the inner cover onto the light housing. The screw hole patterns in the inner cover and light housing are offset to insure proper alignment. Torque the mounting screws to 30 in-lbs. Perform a pressure test per paragraph 8.6. Clean the mounting flange area of the base. Place the fixture into the base. Apply Loctite 242 (P/N 10048-30), per manufacturer's instructions, to both mounting bolts and immediately torque them to 225 -0+10 in-lbs.

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A light fixture should be subjected to a 20-psi air pressure test to verify that it is waterproof whenever it has been opened or components have been replaced. A tire valve style pressure fitting is located on the bottom of the inner cover. Pressurize the fixture to 20-psi then place it in a tub of water or use a soap solution to locate escaping air bubbles. Carefully inspect the areas around the lens, inner cover seal, and feed-thru adapter for leaks. Relieve the internal air pressure before installing the fixture or attempting to repair a leak.

**WARNING****WARNING:**

*Do not exceed 20-psi when pressure testing the fixture. Serious injury and/or permanent damage to the fixture may result if a higher air pressure is used. Once the pressure test is complete be sure to relieve the air pressure.*

**8.7 Gasket Replacement**

Every time the light fixture is removed from the light base the gasket on the inner cover should be examined and replaced if necessary. Any gasket that is stretched, torn, has a permanent set or some other defect, will allow water to enter the light base. Remove the old gasket from the inner cover by carefully scraping. Take care not to damage the inner cover. Form a thin bead of high temperature silicone adhesive, such as GE RTV 106, on the inner cover sealing service. Position the new gasket (P/N 21180) on the inner cover in the same location as the old gasket. Allow the silicone to cure for 4 to 12 hours. Cure times depend on the amount of silicone use, ambient temperature, and relative humidity

**8.8 Cleanliness and Workmanship**

Service life depends upon the entire assembly being waterproof. All surfaces must be clean, dry and free of all foreign matter if the light fixture is to operate for extended periods without requiring maintenance.

**8.9 Maintenance Program**

In order to insure maximum light fixture life, the installed units should be subject to a maintenance program in accordance with the following:

A daily operation check should be made of the lighting fixture. The lights should be energized and visually inspected. If any lamps are out, the location of the fixture should be recorded and the lamps replaced at a time when the circuit is de-energized. (See Section 8.2)

- 8.9.1 Regular cleaning is necessary in order to insure that inset lighting fixtures operate at maximum efficiency. The lens and channel in front of the lens should be cleaned periodically with a soft cloth and solvent. The weather and the location of the fixtures will dictate the regularity and type of cleaning.
- 8.9.2 Snowplow operators should exercise extra care not to strike the light fixtures with snowplow blades. After snowplow removal operations, inspect all light fixtures to locate and replace if necessary, any damaged Light Assemblies. Passes over the light rows should be made with a power broom only if practical. Whenever snowplows must traverse in-pavement light fixtures, they should be traveling at less than 5 mph or have the blades lifted clear of the fixtures. Recommended snow removal techniques are described in FAA AC 150/5200-23.

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- 8.9.3 The light is designed to exclude both ground and surface water from entering. If the lights are not properly maintained (i.e., bolts tightened and seals in good condition) water may enter the fixture. To prevent this from occurring, it is recommended that each fixture be inspected for the presence of water at least once a month. More frequent inspection is desirable during and following rainy seasons.
- 8.9.4 Optical Assembly hold-down bolts should be checked for proper torque (225 +5, -0 in-lbs.) at least once every three months or whenever a fixture is serviced regardless of the season. Light fixtures in and around the Touchdown Zone area are especially prone to vibration damage if the mounting bolts are not properly torqued. The mounting surface of the light base must be clean and free of foreign matter when checking mounting bolts. If any fixture contains water, the water should be removed and the entire fixture cleaned and dried. Perform a pressure test per paragraph 8.6 to locate the source of the leak. Replace the optical housing o-ring, see Section 8.3.

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9 Parts List

ITEM	PART NUMBER	850A3-CC-80-P1 QTY	850A3-CR-80-P1 QTY	850A3-CC-80-P2 QTY	850A3-CR-80-P2 QTY	850A3-YX-8-P1 QTY	850B3-C-80-P1-L,-R,-S QTY	850B3-CX-80-P1-L,-R,-S QTY	DESCRIPTION
1	21100	2	2	2	2	1	1	1	BRACKET, LENS RETAINING, 18-8 STN STEEL
2	21101*	2	2	2	2	1	1	1	GASKET, LENS RETAINING
3	21102-C*	2	1	2	1	1	1	2	LENS, CLEAR
4	21102-R*	0	1	0	1	0	0	0	LENS, COLOR COATED RED
5	21103*	2	2	2	2	2	1	2	BOOT, LENS
6	21134-1	0	0	0	0	0	1	0	OPTICAL HOUSING, MACHINED, TDZ, ALUM.
7	21134-2	1	1	1	1	1	0	1	OPTICAL HOUSING, MACHINED, RCL, ALUM.
8	10A10-037D28	A/R	A/R	A/R	A/R	A/R	A/R	A/R	BOLT, 3/8-16 X 7/8 LG., 18-8 STN STL.
9	10C10-037D40	A/R	A/R	A/R	A/R	A/R	A/R	A/R	BOLT, 3/8-16 X 1.5 LG., 18-8 STN STL.
10	21461	2	2	2	2	1	1	1	LAMP BRACKET ASSEMBLY, 304 STN STL.
11	21116	2	2	2	2	1	1	1	LAMP/REFLECTOR ASSEMBLY, 48 W, 6.6A
12	21118-1	0	0	0	0	0	1	0	BOTTOM COVER, MACHINED, TDZ, ALUM.
13	21118-2	1	1	1	1	1	0	1	BOTTOM COVER, MACHINED, RCL, ALUM.
14	21120	2	2	2	2	2	1	2	ADAPTER, THREADED, FEED-THRU, ALUM.
15	21121	1	1	0	0	0	0	0	FEED-THRU ASSEMBLY, 2 LAMP/1 PLUG, ALUM.
16	21122	0	0	2	2	1	1	1	FEED-THRU ASSEMBLY, 1 LAMP/1 PLUG, ALUM.
17	21123	0	0	1	1	0	0	0	BAFFLE, RCL
18	10000-471	1	1	1	1	1	1	1	SCREW, SEMS, PAN HD TYPE 1A CROSS, GREEN, #10-32 X 3/8 LG., 18-8 STN STEEL
19	10000-468	4	4	4	4	4	2	4	SCREW, SEMS, PAN HD TYPE 1A CROSS/DRI-LOC, #10-32 X 1/2 LG., 18-8 STN STEEL
20	10000-469	6	6	8	8	3	3	3	SCREW, SEMS, PAN HD TYPE 1A CROSS/DRI-LOC, #10-32 X 1/2 LG., 18-8 STN STEEL
21	10000-470	4	4	4	4	4	4	4	SCREW, FLAT HD/DRI-LOC, #10-32 X 7/16 LG, 18-8 STN STEEL
22	10048-106	A/R	A/R	A/R	A/R	A/R	A/R	A/R	PIPE SEALANT
23	10035-61	2	2	2	2	2	1	2	O-RING, FEED-THRU, ADAPTER
24	10037-795	1	1	1	1	1	1	1	FITTING, PRESSURE TEST, 1/8-NPT
25	11A12-037D	2	2	2	2	2	2	2	WASHER, LOCK, 3/8, 18-8 STN STL
26	10048-25*	A/R	A/R	A/R	A/R	A/R	A/R	A/R	SILICONE GREASE
27	21180	1	1	1	1	1	1	1	GASKET, SHALLOW BASE
28	21143	0	0	0	0	1	0	1	GASKET, BLANK COLOR, LENS RETAINING
29	10037-805	0	0	0	0	1	0	1	CAP, 7/8-16 UN2B THREAD
34	10035-64	1	1	1	1	1	1	1	3/32 O-RING, OPTICAL HOUSING
35	10048-30	A/R	A/R	A/R	A/R	A/R	A/R	A/R	MEDIUM STRENGTH THREADLOCKER, LOCTITE 242
36	10048-2	A/R	A/R	A/R	A/R	A/R	A/R	A/R	ADHESIVE, RTV 106
37	21102-Y*	0	0	0	0	1	0	1	LENS, COLOR COATED YELLOW

\* These parts are included in a Lens Replacement Kit. Use kit P/N 21126-C for clear lenses, and kit P/N 21126-R for red lenses and 21126-Y for yellow lenses. Each kit contains parts to replace one lens.

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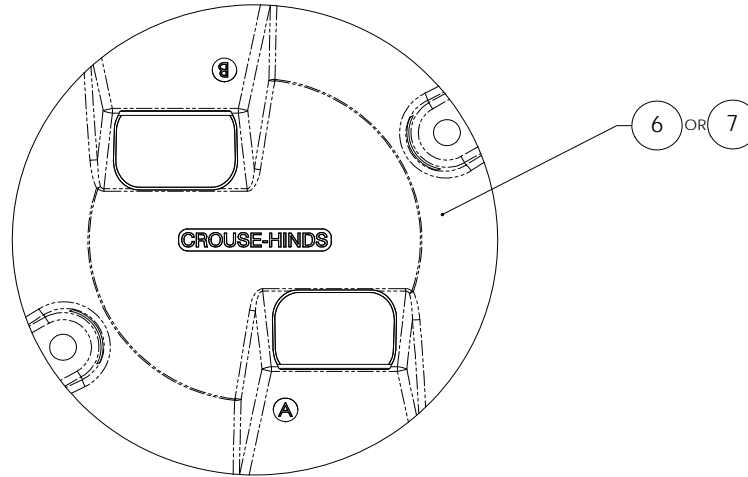


Figure 2 Top View of Fixture

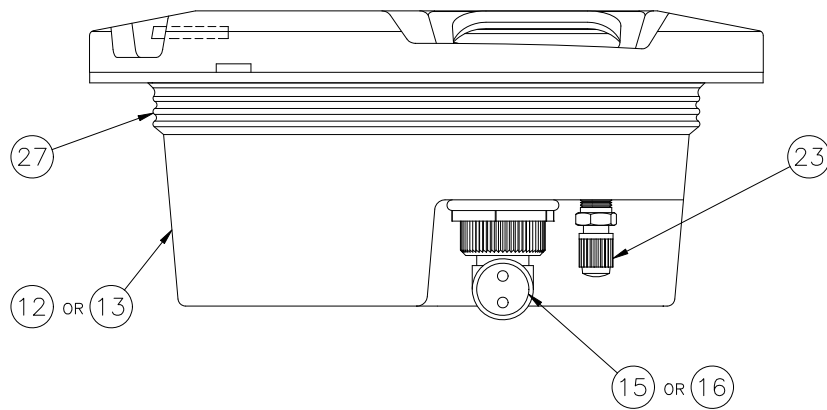


Figure 3 Side View of Fixture

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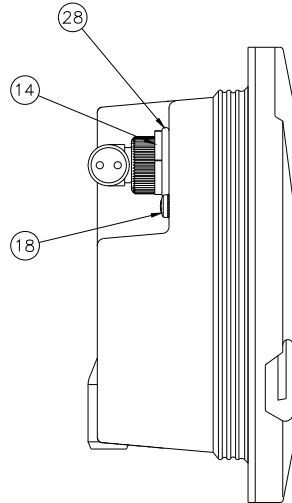


Figure 4 Feed-thru adapter detail

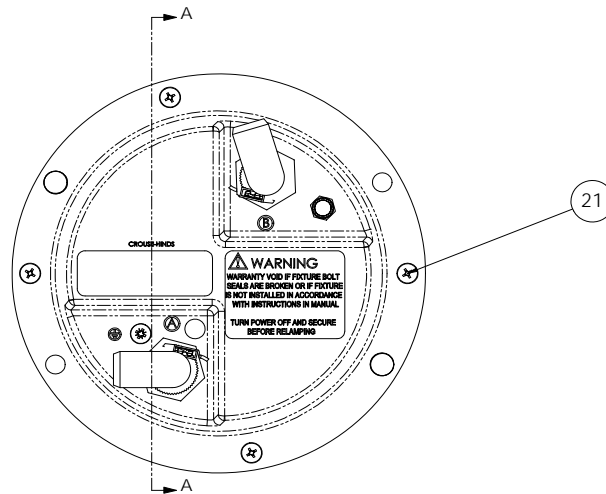


Figure 5 Bottom View of Fixture

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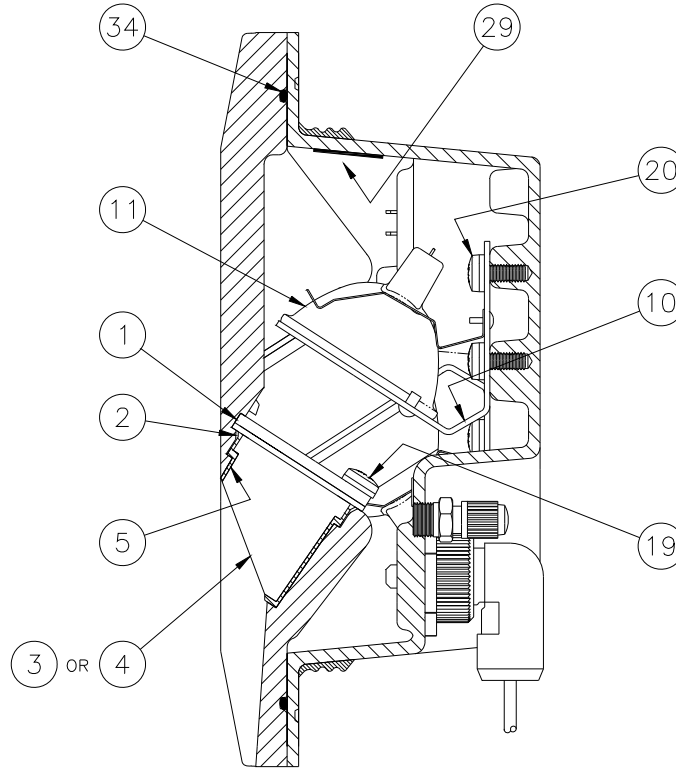


Figure 6 Cut Away View of Fixture