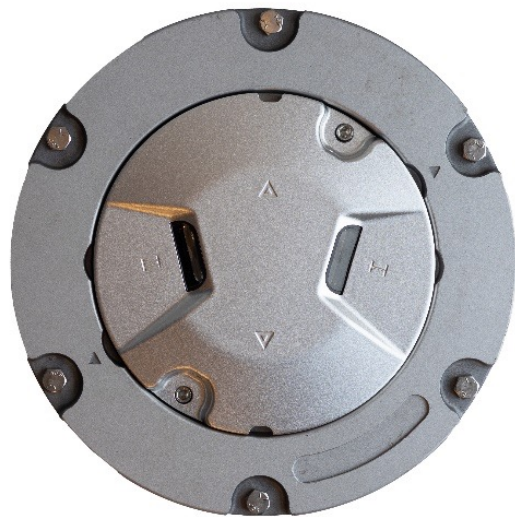
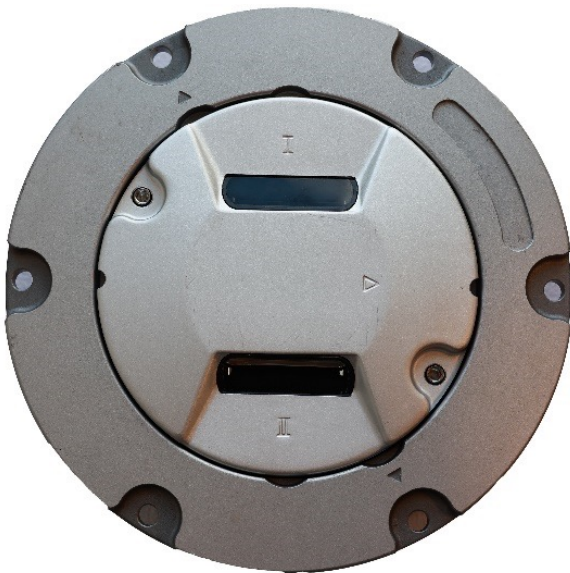


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OWNER'S MANUAL



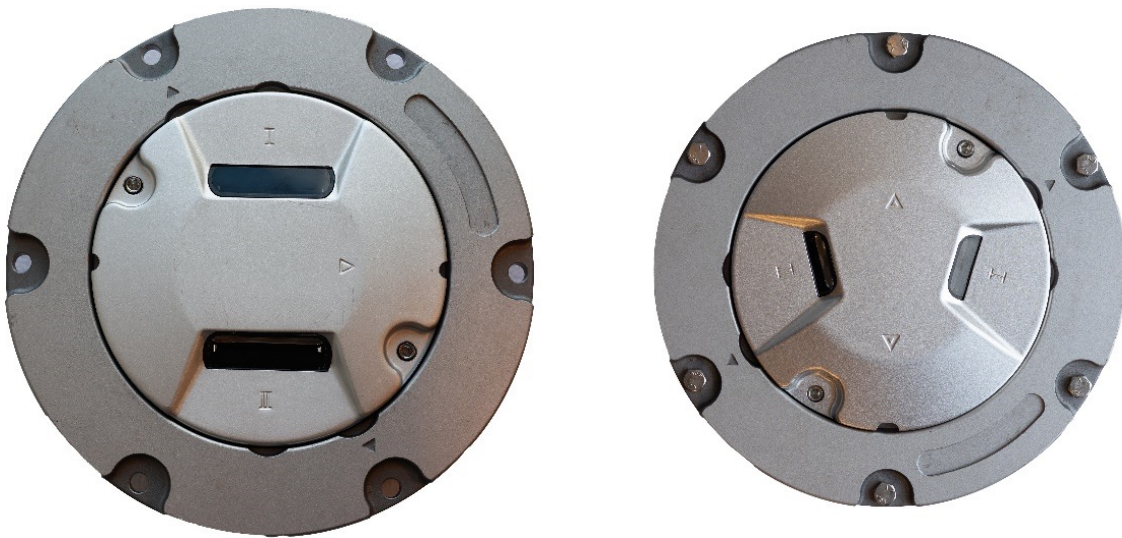
L-852A(L), L-852B(L), L-852C(L)
L-852D(L), L-852J(L), L-852K(L)
Taxiway Centerline LED Fixtures



L-852A(L), L-852B(L), L-852C(L) L-852D(L), L-852J(L), L-852K(L) Taxiway Centerline LED Fixtures Owner's Manual

ETL Certified to:
FAA AC 150/5345-46 and EB 67

Compliant to:
ICAO: Annex 14, Volume 1 (Current Edition)
T/C: Transport Canada TP 312



Manufactured by:
Airport Lighting Company
108 Fairgrounds Drive
Manlius, New York 13104
(315) 682-6460

Email: info@airportlightingcompany.com
Website: www.airportlightingcompany.com

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HOW TO GET HELP



Airport**Lighting**Company
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General Inquiry:



PHONE: (315) 682-6460



EMAIL: info@airportlightingcompany.com

Technical Support:



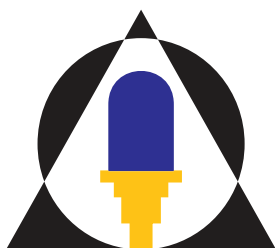
PHONE: (866) 212-1060



EMAIL: support@airportlightingcompany.com



WEBSITE: www.airportlightingcompany.com



Airport**Lighting**Company
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**108 Fairgrounds Drive
Manlius, New York 13104**



GUARANTEE



Airport**Lighting**Company

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Products manufactured by Airport Lighting Company (ALC) which use LEDs as a light source are warranted against mechanical and physical defects in design or manufacture for a period of 2 years from date of installation per the applicable FAA Advisory Circular and against electrical defects in design or manufacture of the LED or LED specific circuitry for a period of 4 years per FAA EB67D. ALC will correct such defects by repair or replacement, at its option, provided the products have been properly handled and stored prior to installation, properly installed and operated after installation, and provided further that the Buyer has notified ALC in writing within the warranty period and within a reasonable time after notice of such defects. Refer to handling, storage, installation and operational instructions for proper procedural guidance that must be followed to maintain warranty provisions.

This warranty is in effect for the specified term as long as the equipment, in ALC's judgment, has not been altered in such a way as to affect the equipment adversely, subject to accident, negligence, improper storage, and has been operated and maintained in accordance with accepted FAA guidelines as described in AC 150/5340-26 and ALC's published operational guidelines.

ALC reserves the right to examine products about which a claim has been made. Equipment must be presented in the same condition as when the defect was discovered. ALC also reserves the right to require the return of equipment to establish any claim.

Statement of Warranty

<https://www.airportlightingcompany.com/terms-conditions/>

Safety Precautions



- Read all instructions prior to installation of the system.
- All electrical connections must be to local codes.
- Do not remove or bypass any safety devices within the system.
- Ensure this manual is available to all personnel that may work on the system.
- Do not service or operate equipment while standing in water.

Failure to follow all instructions may result in injury or equipment failure.



The L-852A/B/C/D/J/K(L) Taxiway Centerline Lights are certified as Taxiway Centerline for Straight and Curved sections. Unidirectional and bidirectional lights with Green and/or Yellow color, are used to guide the pilot between taxiways and leading to the runway.

All internal electrical connections are completed at the factory. All that is required from the contractor is to connect the fixture into the correct electrical supply, bolt the unit to the light base, and ensure proper alignment with the runway centerline or touchdown zone.

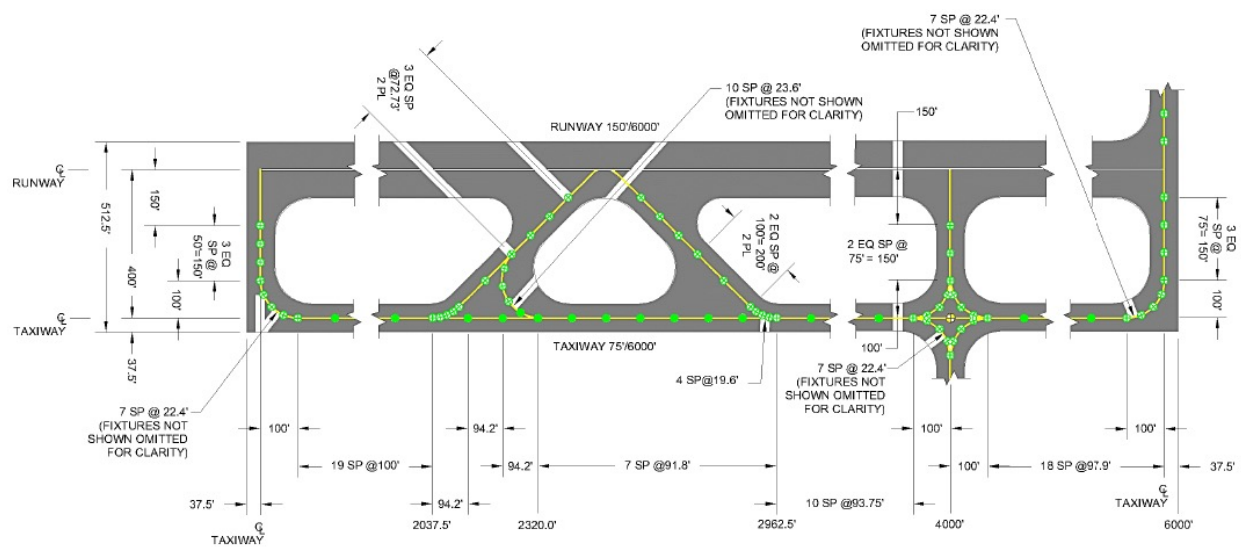
This unit is designed to meet FAA light specifications for 50,000 hours of operation. Internal temperature monitoring automatically adjusts the LED intensity to maintain a steady light output across the operating temperature range. The unit records faults in internal memory so that Airport Lighting Company can review the performance of any unit that is returned.



FAA Siting Considerations

The L-852(L) Taxiway Centerline Lights will be installed per the recommendations and guidelines with FAA AC 150/5340-30. Chapter 4 Section 3 titled Taxiway Centerline will provide guidance on the use, application and location/spacing of the fixtures.

FAA AC 150/5340-30 Figure A-48 will provide visual depiction of the L-852A(L) and L-852B(L) taxiway centerline fixtures. Consult airport plans for specific installation and location requirements as the airport may differ from shown depictions.



LEGEND

- G ● L-852A BIDIRECTIONAL GREEN-GREEN
- G ⊕ L-852B BIDIRECTIONAL GREEN-GREEN
- Y ⊕ L-852E OMNIDIRECTIONAL YELLOW

NOTES

1. RUNWAY AND TAXIWAY FILLETS ARE IN ACCORDANCE WITH AC 150/5300-13.
2. LONGITUDINAL SPACING OF LIGHTS SPECIFIED IN PARAGRAPH 4.3.3 OF THIS CIRCULAR WAS ADHERED TO AS CLOSELY AS POSSIBLE.
3. ORIENTATION OF THE LIGHT BEAMS SHOULD BE AS SPECIFIED IN PARAGRAPHS 4.3.9.1 AND 4.3.9.2.
4. THE METRIC EQUIVALENT (IN METERS) MAY BE FOUND BY DIVIDING FEET BY 3.281.
5. SEE FAA JO 6850.2, VISUAL GUIDANCE LIGHTING SYSTEMS, FOR ADDITIONAL INFORMATION ABOUT L-850 LIGHT FIXTURES. USE L-850D LIGHT FIXTURES FOR STANDARD INBOARD THRESHOLD.

FAA AC 150/5340-30 will also provide additional layout information for the Taxiway Centerline Lights in Figures A-44, A-45, A-46 and A-49.



Installation

The L-852(L) Taxiway Centerline fixtures must be installed on a L-868 Load Bearing Base Can. Base Cans should be installed in accordance with FAA AC 150/5340-26 and 150/5340-30.

Unpacking

Light units should be stored and transported in original ALC shipping containers. Inspect and verify the light nameplate to ensure it corresponds to the site location and input power for installation. Visually inspect the light for any damage. If any damage is noted, immediately contact ALC for possible warranty claim. Claims should also be filed with the freight/shipping company. Repackage lights into original shipping containers until installation at runway end.

Inspect and verify the light nameplate to ensure it corresponds to the site location for installation. Visually inspect the light for any damage. If any damage is noted, immediately contact ALC for possible warranty claim. Claims should also be filed with the freight/shipping company.

Tools Required

The following are the recommended tools for proper installation:

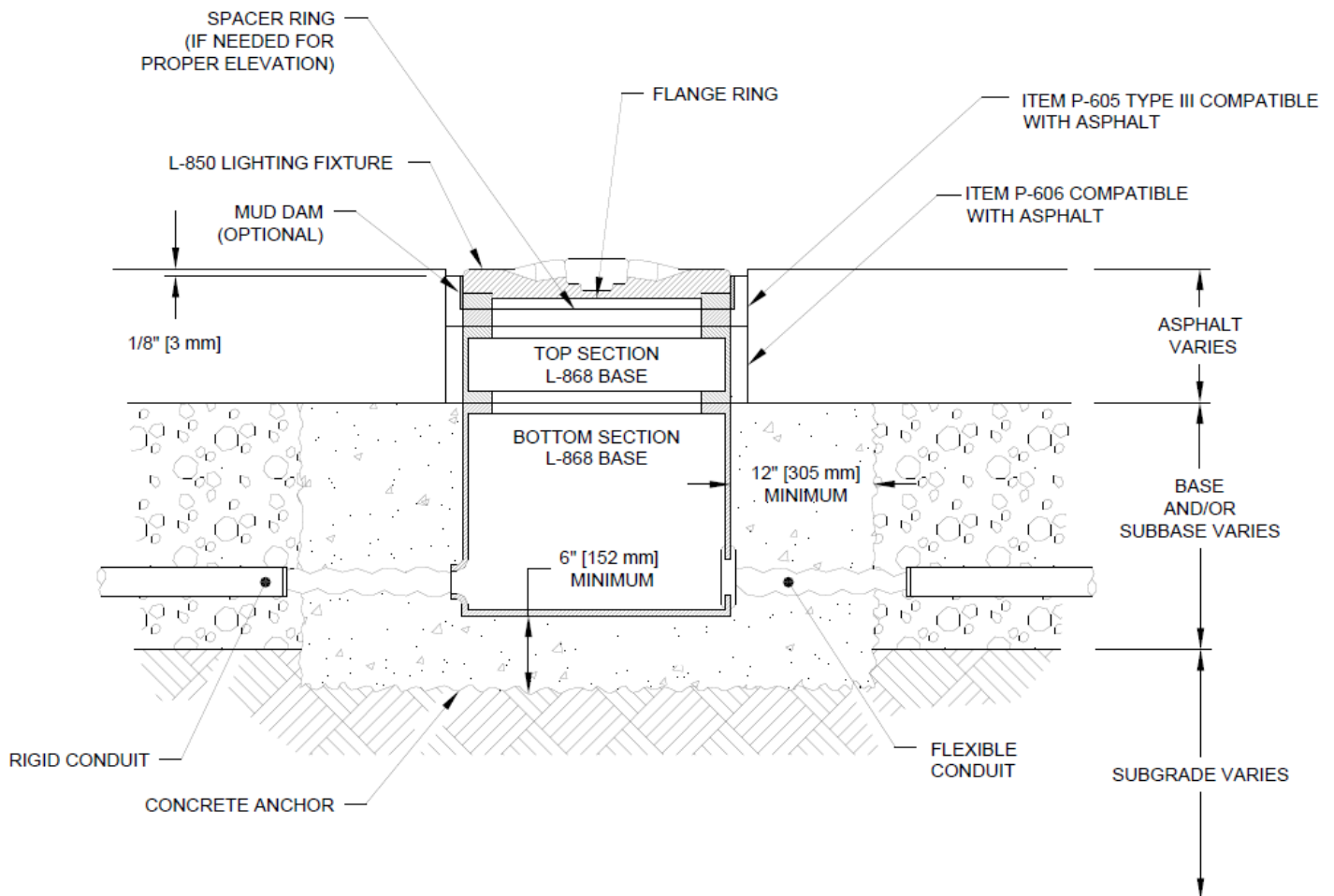
- Torque wrench set
- Torx/Star type driver set
- Ring Spanner set
- Large Flat head screwdriver to reposition light if required

No special tools are required for installation of light if base can is properly installed.



Installation on Standard L-868 Base

Type L-868 base cans are used as mounting bases for in-pavement airport light fixtures. The properly sized L-830 isolation transformer will be housed within the base can. The base can must be designed to withstand aircraft and other heavy vehicular loadings. The design must allow the installation of any in-pavement fixture certified to AC 150/5345-46. Site plans and engineering specifications should be consulted for actual design, construction, and installation of base can and light. FAA AC 150/5340-30 should also be consulted.





SPECIFICATIONS



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L-852A(L) & L-852C(L) Taxiway Centerline Lights

Property	Item	Specification
Environmental	Operating Temperature	-40°F - +130°F (-40°C - +55°C)
	Storage Temperature	-55°F - +130°F (-55°C - +55°C)
	Ingress Protection	IP67
	Salt Fog	Per FAA AC AC 150/5345-46
	Temperature Shock	Per FAA AC AC 150/5345-46
Electrical	Input Mode	Mode 1, 2.8-6.6 Amperes(A), Series Circuit
	Power Consumption (25W L-830 Transformer)	Green/Green - 22.5VA Green/Yellow - 24VA Yellow/Yellow - 25.5VA Green - 21VA Yellow - 22VA
	Lamp Type	LED
	Lamp Life	> 50,000 Hours
	Light Colors	Green, Yellow
Photometric (Nominal)	Main Beam Angle	Vertical: 1° to 4°, Horizontal ±10°
	Minimum Average Intensity	L-852A(L) - 20cd L-852C(L) - 200cd
	Chromaticity Data	Green - (x 0.6978, y 0.3015) Yellow - (x : 0.572, y : 0.418)
Mechanical	FAA Style	Style 3, <1/4 inch (6.35 mm)
	Dimensions	8.00" x 3.15" (203mm x 80mm)
	Cord Length	15.75" (400mm), L-823 Style 6
	Weight	6.4 lb. (2.9kg)
Composition	Upper Casting	Aluminum
	Lower Cover	Aluminum
	LED Bracket	Aluminum
	Prism	Heat Resistant Glass (Clear Borosilicate)



SPECIFICATIONS



Airport**Lighting**Company

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L-852B(L) & L-852D(L) Taxiway Centerline Lights

Property	Item	Specification
Environmental	Operating Temperature	-40°F - +130°F (-40°C - +55°C)
	Storage Temperature	-55°F - +130°F (-55°C - +55°C)
	Ingress Protection	IP67
	Salt Fog	Per FAA AC AC 150/5345-46
	Temperature Shock	Per FAA AC AC 150/5345-46
Electrical	Input Mode	Mode 1, 2.8-6.6 Amperes(A), Series Circuit
	Power Consumption (25W L-830 Transformer)	L-852B(L) Green/Green - 21VA Yellow/Yellow - 21VA Green - 20VA Yellow - 20VA L-852D(L) Green/Green - 25VA Yellow/Yellow - 28VA Green - 22VA Yellow - 23.5VA White/White - 27.5VA White/Yellow - 27.5VA White - 23.5VA
	Lamp Type	LED
	Lamp Life	> 50,000 Hours
Photometric (Nominal)	Light Colors	Green, White, Yellow
	Main Beam Angle	Vertical: 1° to 4°, Horizontal ±10°
	Minimum Average Intensity	L-852B(L) – 20cd L-852D(L) White – 150cd L-852D(L) Green or Yellow – 100cd
	Chromaticity Data	Green – (x 0.6978, y 0.3015) Yellow – (x : 0.572,y : 0.418)
Mechanical	FAA Style	Style 3, <1/4 inch (6.35 mm)
	Dimensions	8.00" x 3.15" (203mm x 80mm)
	Cord Length	15.75" (400mm), L-823 Style 6
	Weight	6.4 lb. (2.9kg)
Composition	Upper Casting	Aluminum
	Lower Cover	Aluminum
	LED Bracket	Aluminum
	Prism	Heat Resistant Glass (Clear Borosilicate)



SPECIFICATIONS



AirportLightingCompany
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L-852J(L) & L-852K(L) Taxiway Centerline Lights

Property	Item	Specification
Environmental	Operating Temperature	-40°F - +130°F (-40°C - +55°C)
	Storage Temperature	-55°F - +130°F (-55°C - +55°C)
	Ingress Protection	IP67
	Salt Fog	Per FAA AC AC 150/5345-46
	Temperature Shock	Per FAA AC AC 150/5345-46
Electrical	Input Mode	Mode 1, 2.8-6.6 Amperes(A), Series Circuit
	Power Consumption (25W L-830 Transformer)	L-852J(L) Green/Green - 22.5VA Yellow/Yellow - 24VA Green - 21VA Yellow - 21.5VA L-852K(L) Green/Green - 21VA Yellow/Yellow - 23VA Green - 20VA Yellow - 21VA
	Lamp Type	LED
	Lamp Life	> 50,000 Hours
Photometric (Nominal)	Light Colors	Green, Yellow
	Main Beam Angle	L-852J - V: 1° to 4°, H: -3.5° ~ 35° L-852K - V: 1° to 10°, H: -3.5° ~ 35°
	Minimum Average Intensity	L-852J(L) – 20cd L-852K(L) – 100cd
	Chromaticity Data	Green – (x 0.6978, y 0.3015) Yellow – (x : 0.572,y : 0.418)
Mechanical	FAA Style	Style 3, <1/4 inch (6.35 mm)
	Dimensions	8.00" x 3.15" (203mm x 80mm)
	Cord Length	15.75" (400mm), L-823 Style 6
	Weight	6.4 lb. (2.9kg)
Composition	Upper Casting	Aluminum
	Lower Cover	Aluminum
	LED Bracket	Aluminum
	Prism	Heat Resistant Glass (Clear Borosilic -ate)



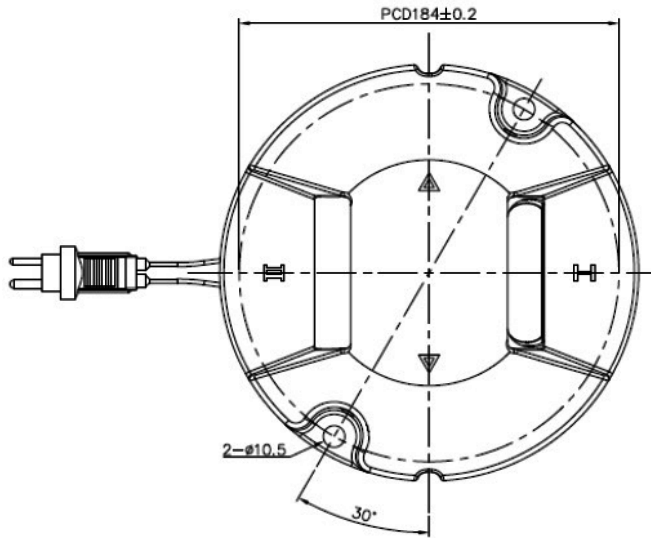
SPECIFICATIONS



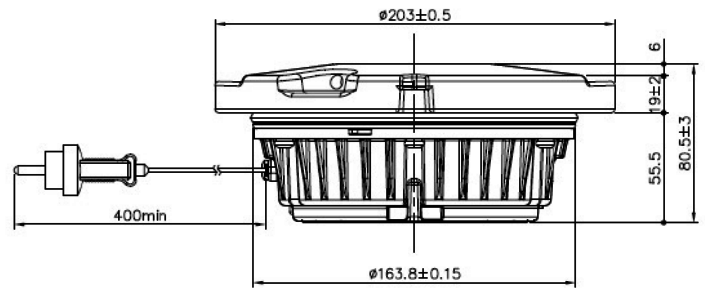
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Dimensional Drawings



Top View



Front View

All dimensions in mm

Fixture

Shipping Weight 6.5lb (3.1kg)

Shipping Dimensions 9.5" x 8.5" x 4.5"
(241mm x 215mm x 114mm)



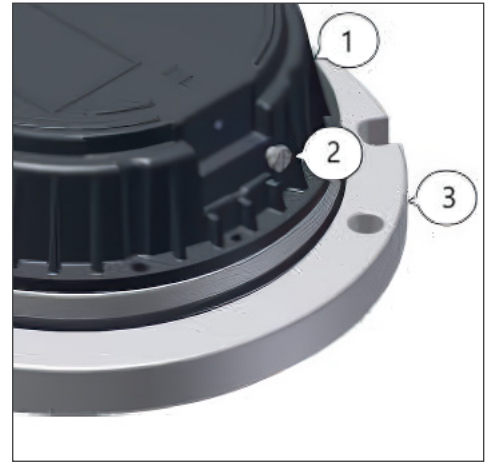
For safe air operation, airfield lighting fixtures must receive preventive maintenance. To maintain the elevated runway edge light functioning effectively, check and adhere to the preventive maintenance schedule using the FAA's reference to the table below.

Maintenance	Daily	Weekly	Monthly	Bi-Annually	Annually	Emergency
Lighting Status	•					
Prism Blockage		•				
Cleaning & Damage to Prism		•				
Alignment & Direction of Beam			•			
Lamp & Socket Cleaning			•			
Proper Height Adjustment				•		
Moisture Ingress				•		
Bolt Torque				•		
Prism Sealant					•	
Cable Condition					•	
Cable Resistance					•	
Isolation Transformer Inspection					•	
Deicing & Snow Removal						•

Property	Item	Specification
No Light	Lamp Failure	Replace LED module
	Light connected to secondary plug	Verify proper connections
	Isolation Transformer fault	Verify transformer operation
	Control Board Failure	Replace Control Board
Low Brightness	Lamp Failure	Replace LED Module
	Water Ingress	Check for prism damage Check o-ring Check power cord
	Control Board Failure	Replace Control Board
	Damaged Prism	Replace Prism

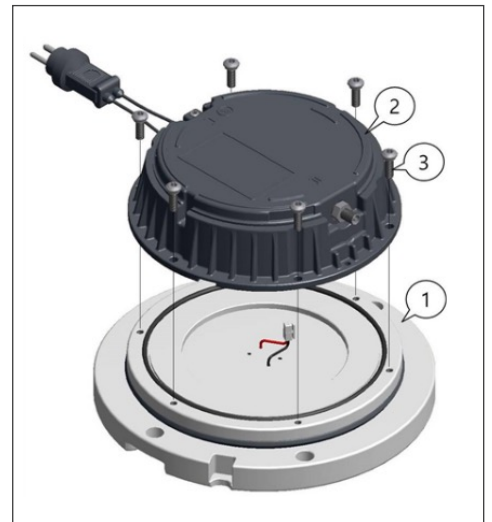
Depressurize Procedure

1. Place light fixture upside down to expose bottom pan (1) and fitting plug (2).
2. Turn the fitting plug (2) by hand counterclockwise to release any pressurized gas.



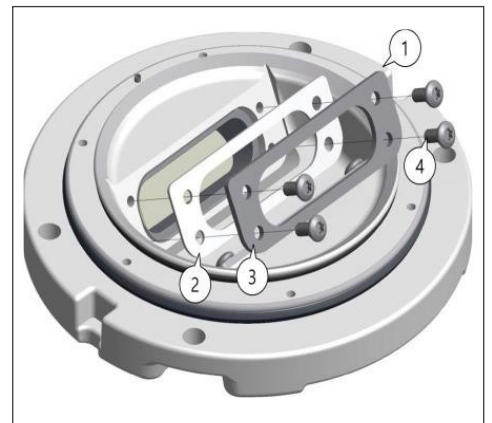
Bottom Pan Removal

1. Place light fixture (1) upside down.
2. With Bottom Pan (2) exposed, use a T25 Torx driver to remove the six M5 bolts (3).



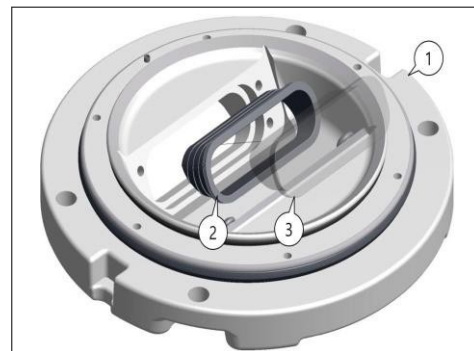
Prism Holding Bracket Removal

1. With bottom pan removed from light fixture (1), locate the four M5 bolts (4).
2. Use a T25 Torx driver to remove the four bolts.
3. Remove the holding bracket (3) and prism gasket (2).



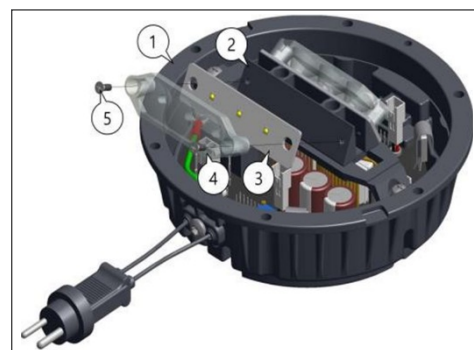
Prism Removal

1. With holding bracket and prism gasket removed from the light fixture ①, push out the prism ③ and prism sealant material ②.



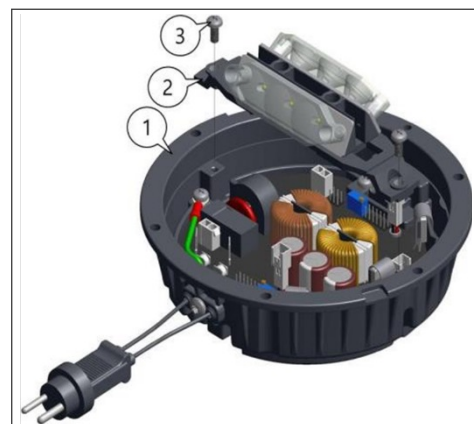
Removal of Lens and LED Module

1. With bottom pan ① electronics exposed, locate the LED clear lens ④ and LED module ③.
2. Remove the two M3 bolts ⑤ from the LED module bracket ②.



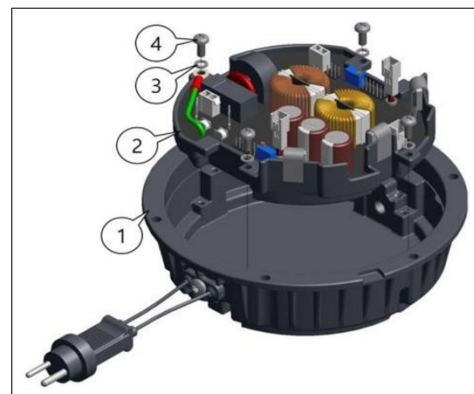
Removal of LED Module Bracket

1. With Lens and LED Module removed from bottom pan ①, locate the two M4 bolts ③ securing bracket ② to bottom pan.
2. Use a Phillips screwdriver to remove bolts.



Removal of Control Board

1. With LED Module bracket removed from the bottom pan ①, locate the four M4 bolts ④ securing control board ② to bottom pan.
2. Use a Phillips screwdriver to remove bolts ④ and washers ③.
3. Disconnect L823 power cord from control board.





CONTROL BOARD



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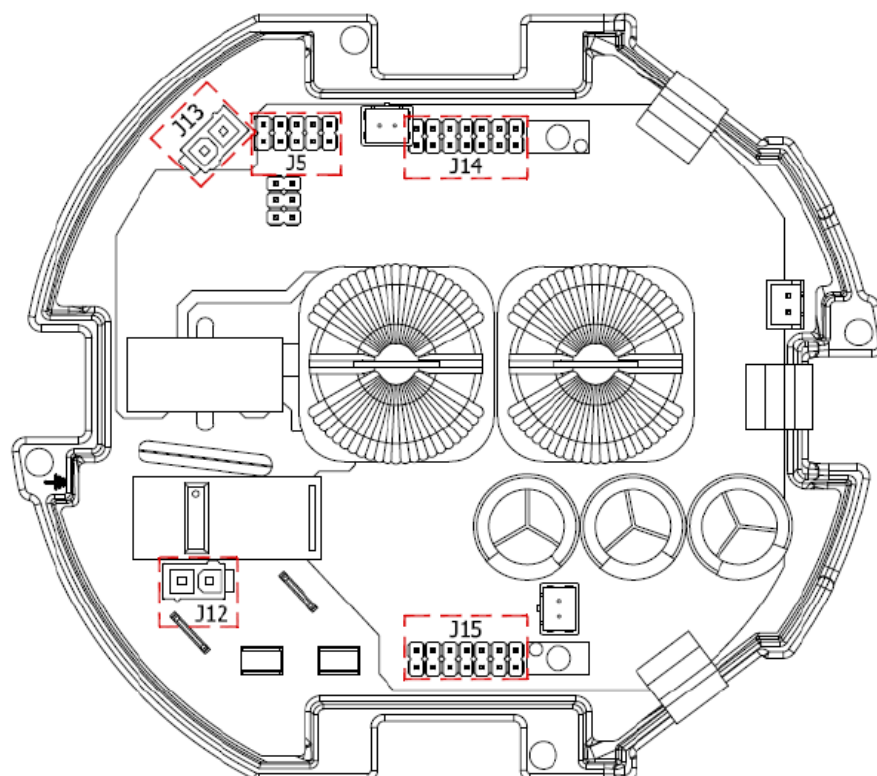
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The L-852(L) Series LED fixture is designed to operate in:

- Two different fail settings (Fail Open Enabled, Fail Open Disabled)

To properly set the fixture for its intended purpose, the Control Board will need to set specific jumpers. The bottom pan must be removed from the light fixture to gain access to the setting locations.

Follow the Jumper Pin Settings in Table 1 below for the specific application.





CONTROL BOARD



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TABLE 1. JUMPER PIN SETTINGS

LIGHTS	TYPE	COLOR	OUTPUT CURRENT SETTINGS		FAIL OPEN					
					ENABLE			DISABLE		
			J14	J15	J5	J12	J13	J5	J12	J13
TCLL (STRAIGHT)	L-852A(L)	GREEN	13119 7 5 3 1 141210 8 6 4 2	2 4 6 8 101214 1 3 5 7 9 1113	9 7 5 3 1 10 8 6 4 2			9 7 5 3 1 10 8 6 4 2		
		YELLOW	13119 7 5 3 1 141210 8 6 4 2	2 4 6 8 101214 1 3 5 7 9 1113	9 7 5 3 1 10 8 6 4 2			9 7 5 3 1 10 8 6 4 2		
		GREEN /GREEN	13119 7 5 3 1 141210 8 6 4 2	2 4 6 8 101214 1 3 5 7 9 1113	9 7 5 3 1 10 8 6 4 2			9 7 5 3 1 10 8 6 4 2		
		YELLOW /YELLOW	13119 7 5 3 1 141210 8 6 4 2	2 4 6 8 101214 1 3 5 7 9 1113	9 7 5 3 1 10 8 6 4 2			9 7 5 3 1 10 8 6 4 2		
		GREEN /YELLOW	13119 7 5 3 1 141210 8 6 4 2	2 4 6 8 101214 1 3 5 7 9 1113	9 7 5 3 1 10 8 6 4 2			9 7 5 3 1 10 8 6 4 2		
	L-852C(L)	GREEN	13119 7 5 3 1 141210 8 6 4 2	2 4 6 8 101214 1 3 5 7 9 1113	9 7 5 3 1 10 8 6 4 2			9 7 5 3 1 10 8 6 4 2		
		YELLOW	13119 7 5 3 1 141210 8 6 4 2	2 4 6 8 101214 1 3 5 7 9 1113	9 7 5 3 1 10 8 6 4 2			9 7 5 3 1 10 8 6 4 2		
		GREEN /GREEN	13119 7 5 3 1 141210 8 6 4 2	2 4 6 8 101214 1 3 5 7 9 1113	9 7 5 3 1 10 8 6 4 2			9 7 5 3 1 10 8 6 4 2		
		YELLOW /YELLOW	13119 7 5 3 1 141210 8 6 4 2	2 4 6 8 101214 1 3 5 7 9 1113	9 7 5 3 1 10 8 6 4 2			9 7 5 3 1 10 8 6 4 2		
		GREEN /YELLOW	13119 7 5 3 1 141210 8 6 4 2	2 4 6 8 101214 1 3 5 7 9 1113	9 7 5 3 1 10 8 6 4 2			9 7 5 3 1 10 8 6 4 2		



CONTROL BOARD



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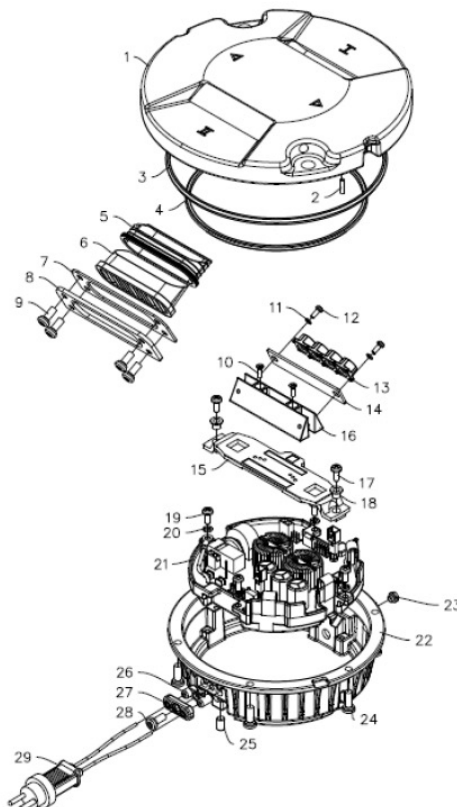
TABLE 1. JUMPER PIN SETTINGS

LIGHTS	TYPE	COLOR	OUTPUT CURRENT SETTINGS		FAIL OPEN					
					ENABLE			DESABLE		
			J14	J15	J5	J12	J13	J5	J12	J13
TCLL (CURVED)	L-852B(L)	GREEN	1311 9 7 5 3 1 1412108 6 4 2	2 4 6 8 101214 1 3 5 7 9 1113	9 7 5 3 1 108 6 4 2			9 7 5 3 1 108 6 4 2		
		YELLOW	1311 9 7 5 3 1 1412108 6 4 2	2 4 6 8 101214 1 3 5 7 9 1113	9 7 5 3 1 108 6 4 2			9 7 5 3 1 108 6 4 2		
		GREEN /GREEN	1311 9 7 5 3 1 1412108 6 4 2	2 4 6 8 101214 1 3 5 7 9 1113	9 7 5 3 1 108 6 4 2			9 7 5 3 1 108 6 4 2		
		YELLOW /YELLOW	1311 9 7 5 3 1 1412108 6 4 2	2 4 6 8 101214 1 3 5 7 9 1113	9 7 5 3 1 108 6 4 2			9 7 5 3 1 108 6 4 2		
	L-852D(L)	GREEN	1311 9 7 5 3 1 1412108 6 4 2	2 4 6 8 101214 1 3 5 7 9 1113	9 7 5 3 1 108 6 4 2			9 7 5 3 1 108 6 4 2		
		YELLOW	1311 9 7 5 3 1 1412108 6 4 2	2 4 6 8 101214 1 3 5 7 9 1113	9 7 5 3 1 108 6 4 2			9 7 5 3 1 108 6 4 2		
		WHITE	1311 9 7 5 3 1 1412108 6 4 2	2 4 6 8 101214 1 3 5 7 9 1113	9 7 5 3 1 108 6 4 2			9 7 5 3 1 108 6 4 2		
		GREEN /GREEN	1311 9 7 5 3 1 1412108 6 4 2	2 4 6 8 101214 1 3 5 7 9 1113	9 7 5 3 1 108 6 4 2			9 7 5 3 1 108 6 4 2		
		YELLOW /YELLOW	1311 9 7 5 3 1 1412108 6 4 2	2 4 6 8 101214 1 3 5 7 9 1113	9 7 5 3 1 108 6 4 2			9 7 5 3 1 108 6 4 2		
		WHITE /WHITE	1311 9 7 5 3 1 1412108 6 4 2	2 4 6 8 101214 1 3 5 7 9 1113	9 7 5 3 1 108 6 4 2			9 7 5 3 1 108 6 4 2		
		WHITE /YELLOW	1311 9 7 5 3 1 1412108 6 4 2	2 4 6 8 101214 1 3 5 7 9 1113	9 7 5 3 1 108 6 4 2			9 7 5 3 1 108 6 4 2		
	L-852J(L)	GREEN	1311 9 7 5 3 1 1412108 6 4 2	2 4 6 8 101214 1 3 5 7 9 1113	9 7 5 3 1 108 6 4 2			9 7 5 3 1 108 6 4 2		
		YELLOW	1311 9 7 5 3 1 1412108 6 4 2	2 4 6 8 101214 1 3 5 7 9 1113	9 7 5 3 1 108 6 4 2			9 7 5 3 1 108 6 4 2		
		GREEN /GREEN	1311 9 7 5 3 1 1412108 6 4 2	2 4 6 8 101214 1 3 5 7 9 1113	9 7 5 3 1 108 6 4 2			9 7 5 3 1 108 6 4 2		
		YELLOW /YELLOW	1311 9 7 5 3 1 1412108 6 4 2	2 4 6 8 101214 1 3 5 7 9 1113	9 7 5 3 1 108 6 4 2			9 7 5 3 1 108 6 4 2		
	L-852K(L)	GREEN	1311 9 7 5 3 1 1412108 6 4 2	2 4 6 8 101214 1 3 5 7 9 1113	9 7 5 3 1 108 6 4 2			9 7 5 3 1 108 6 4 2		
		YELLOW	1311 9 7 5 3 1 1412108 6 4 2	2 4 6 8 101214 1 3 5 7 9 1113	9 7 5 3 1 108 6 4 2			9 7 5 3 1 108 6 4 2		
		GREEN /GREEN	1311 9 7 5 3 1 1412108 6 4 2	2 4 6 8 101214 1 3 5 7 9 1113	9 7 5 3 1 108 6 4 2			9 7 5 3 1 108 6 4 2		
		YELLOW /YELLOW	1311 9 7 5 3 1 1412108 6 4 2	2 4 6 8 101214 1 3 5 7 9 1113	9 7 5 3 1 108 6 4 2			9 7 5 3 1 108 6 4 2		



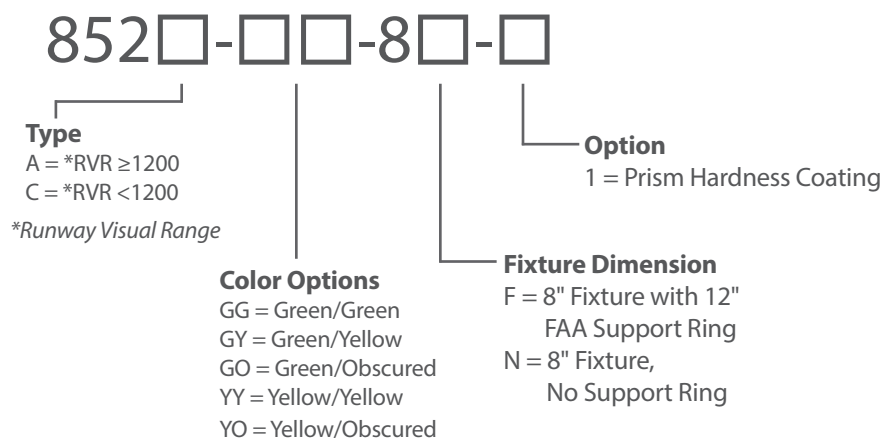
L-852(L) Series Fixture

Item	Quantity	Description	Part Number
3	1	O-Ring, 6.5" OD	33-50026
4	1	O-Ring, 5.16" OD	33-50006
5	1	Prism Sealant	33-44005
6	1	Prism	33-40002
7	1	Prism Gasket	33-44001
8	1	Prism Holding Bracket	33-44009
10-15	1	LED Module Kit, Green (L-852C_K)	33-81188
10-15	1	LED Module Kit, Yellow (L-852C_K)	33-81199
10-15	1	LED Module Kit, White (L-852D)	33-81177
10-15	1	LED Module Kit, Green (L-852B_D)	33-81111
10-15	1	LED Module Kit, Yellow (L-852B_D)	33-81195
10-15	1	LED Module Kit, Green (A_J)	33-81288
10-15	1	LED Module Kit, Yellow (A_J)	33-81299
21	1	Control Board	33-34002

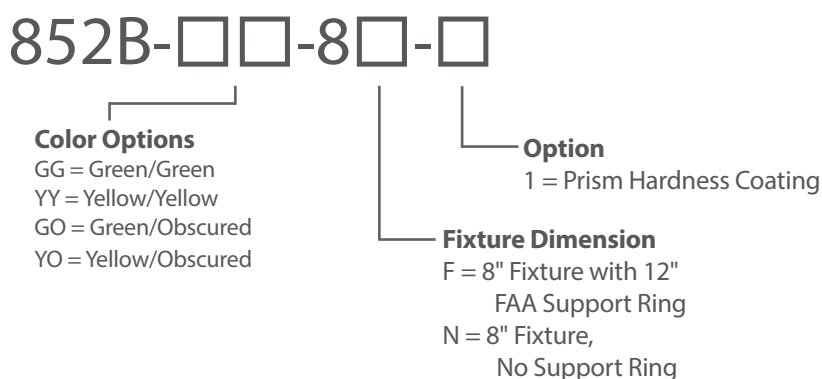




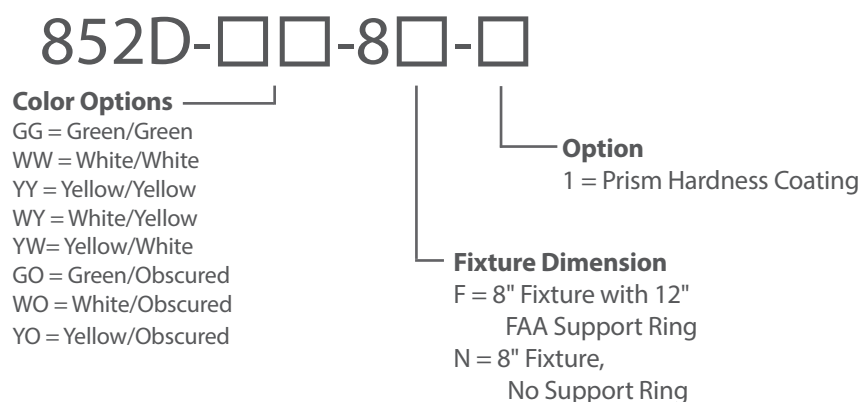
L-852A & L-852C(L) Ordering Code



L-852B(L) Ordering Code



L-852D(L) Ordering Code





L-852J(L) and L-852K(L) Ordering Code

