Compliance with Standards

FAA: Designed according to L-852(L) Series AC 150/5345-46 (Current Edition) and the FAA Engineering Brief No. 67. ETL Certified.

Uses

FAA L-852A(L)
- Taxiway centerline on straight sections and clearance bar in category I and II applications, ≥1,200 ft RVR

FAA L-852B(L)
- Taxiway centerline on curved sections in category I and II applications, ≥1,200 ft RVR

FAA L-852C(L)
- Taxiway centerline on straight section and clearance bar in category III applications, <1,200 ft RVR

FAA L-852D(L)
- Taxiway centerline on curved sections in category III applications, <1,200 ft RVR
- White/white or white/yellow used on MIRL runway edge for intersections where runway edge spacing >400 ft (122 m)

FAA L-852J(L)
- Taxiway centerline on curved sections in category I and II applications, ≥1,200 ft RVR

FAA L-852K(L)
- Taxiway centerline on curved sections in category III applications, <1,200 ft RVR

Use of two LED modules allows the option of separate control of each module in bi-directional applications.

Operating Conditions

Temperature: -40 °C to +55 °C (-40 °F to +131 °F)
Altitude: Sea level to 10,000 feet (3000 m)
Humidity: Up to 100%

Features

- Uses enhanced electronics ensure the power supply PCB does not need to change in case the LED becomes obsolete.
- Use of L-852K(L) fixture allows fixtures to be reduced by half for curved centerlines where the radius is 75 ft (23 m) to 399 ft (121 m)
- L-852A/B/C(L) use a single LED per side. L-852D/J/K(L) use two LEDs per side. LED life of more than 200,000 hours for L-852A/B/C(L) and more than 150,000 hours for L-852D/J/K(L) under typical operating conditions, which significantly reduces ongoing maintenance costs and periodic re-lamping expenses, resulting in lower life cycle costs.
- FAA Style 3-Low protrusion above ground of ≤0.25 inch reduces vibrations caused by aircraft landing gear, increasing lamp life
- Operates on either 3- or 5-step ferroresonant or thyristor CCRs that are designed in compliance with IEC or FAA requirements
- Very low power rating for LED lights contributes to a lower life cycle cost. Limits cost for supporting equipment such as isolation transformers and CCRs to strict minimum.
- Offers longer maintenance intervals and requires fewer spare parts, resulting in lower life cycle cost
- Use of LED light source eliminates filter replacement and color shifts when viewed at various angles or CCR step settings
- LED photometric performance will be maintained longer due to a cleaner lens. Lower lens temperature prevents the “baking effect” that causes contaminants to stick to the lens surface.
- Smart electronics control current to LED, so light output matches existing incandescent fixtures.
- Light channel in front of prism windows protects prisms from damage and prevents rubber buildup thereby maintaining optimal light output
- Environment-friendly, precision-cast aluminum alloy cover, optical support, and inner cover assembly with stainless steel hardware
- Rugged lightning protection complies with ANSI/IEEE C62.41-1991 Location Category C2 given in FAA Eng. Brief 67. Category C2 is defined as a 1.2/50μS – 8/20 μS combination wave, with a peak voltage of 10,000 V and a peak current of 5,000 A.
- Includes a UL 467 rated ground lug, which accepts an AWG 6 earth ground wire
TAXIWAY LIGHTING

Enhanced ITCF-L

Ordering Code

<table>
<thead>
<tr>
<th>Series</th>
<th>Ordering Code</th>
<th>LED Color</th>
<th>Mounting and Cord Set</th>
<th>Arctic Option</th>
<th>Power</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>A = L-852A(L)</td>
<td>ITCF- X X 0 X X X</td>
<td>1 = Yellow/Yellow</td>
<td>1 = Two L-823 cord sets, L-868B (12”) standard base</td>
<td>0 = Without arctic option</td>
<td>2 = 60 Hz</td>
<td>Contact the Sales Department for availability of ITCF -L (ICAO straight) and ITCF-M (ICAO curved) options.</td>
</tr>
<tr>
<td>B = L-852B(L)</td>
<td></td>
<td>2 = Green/Green</td>
<td>3 = One L-823 cord set, L-868B (12”) standard base</td>
<td>1 = With arctic option</td>
<td>3 = 50 Hz</td>
<td>Color options not recognized by the FAA.</td>
</tr>
<tr>
<td>C = L-852C(L)</td>
<td></td>
<td>3 = Yellow/Green</td>
<td>5 = One L-823 cord set, L-868A (10”)</td>
<td></td>
<td>4 = 50/60 Hz (two cord sets)</td>
<td>Color options 3, 8, H, I, and J are not recognized by the FAA for L-852B(L), L-852D(L), L-852J(L) and L-852K(L) fixtures.</td>
</tr>
<tr>
<td>D = L-852D(L)</td>
<td></td>
<td>5 = Green/Obscure</td>
<td>6 = Two L-823 cord sets, L-868A (10”)</td>
<td></td>
<td></td>
<td>See graphic below for L-852J(K) color selection guidelines.</td>
</tr>
<tr>
<td>J = L-852J(L)</td>
<td></td>
<td>6 = Yellow/Obscure</td>
<td>4,5</td>
<td></td>
<td></td>
<td>Refers to older style 10-inch L-868A base can compliant to AC 150/5345 - 42C. 10-inch base cans are no longer specified in the current FAA Advisory Circular.</td>
</tr>
<tr>
<td>K = L-852K(L)</td>
<td></td>
<td>8 = Red/Green</td>
<td>6,6</td>
<td></td>
<td></td>
<td>Not ETL Certified.</td>
</tr>
</tbody>
</table>

1,3 | Mounting and Cord Set | 0 = Without arctic option | 4 | Power | 5 | 6 |

1 = Two L-823 cord sets, L-868B (12”) standard base | 1 = With arctic option | 4 = 50/60 Hz (two cord sets) |

In cardboard box: 7 × 13 × 13 in (17.8 × 33 × 33 cm) | Weight with packing: 15.3 lb (6.94 kg) | Weight without packing: 12.3 lb (5.58 kg) | Use Power option 4 for fixtures with two cord sets or as directed by ADB SAFEGATE. |

Packaging

Color selection guidelines for L-852J(K) fixtures

Packaging

In cardboard box: 7 × 13 × 13 in (17.8 × 33 × 33 cm) | Weight with packing: 15.3 lb (6.94 kg) | Weight without packing: 12.3 lb (5.58 kg) | Use Power option 4 for fixtures with two cord sets or as directed by ADB SAFEGATE. |
Electrical Supply

ITCF LED F-Range fixture is designed to work with any IEC or FAA-compliant transformer up to 100 W without affecting the performance or lifetime of the light fixture or transformer. See data sheet 3033 for more details on recommended isolation transformers specified below.

### ITCF Fixture

<table>
<thead>
<tr>
<th>ITCF Fixture</th>
<th>Fixture Load 1</th>
<th>Isolation Transformer</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-852D(L), L-852K(L)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unidirectional w/out heater</td>
<td>21 VA</td>
<td>20/25 W</td>
</tr>
<tr>
<td>Bidirectional w/out heater 2</td>
<td>27 VA</td>
<td>30/45 W</td>
</tr>
<tr>
<td>Bidirectional w/out heater 3</td>
<td>25 VA per side (50 VA total)</td>
<td>20/25 W per side</td>
</tr>
<tr>
<td>Unidirectional with heater</td>
<td>56 VA</td>
<td>65 W</td>
</tr>
<tr>
<td>Bidirectional with heater 2</td>
<td>58 VA</td>
<td>65 W</td>
</tr>
<tr>
<td>Bidirectional with heater 3</td>
<td>45 VA (90 VA total)</td>
<td>30/45 W per side</td>
</tr>
<tr>
<td>L-852C(L), L-852J(L)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unidirectional w/out heater</td>
<td>14 VA</td>
<td>10/15 W</td>
</tr>
<tr>
<td>Bidirectional w/out heater 2</td>
<td>17 VA</td>
<td>20/25 W</td>
</tr>
<tr>
<td>Bidirectional w/out heater 3</td>
<td>14 VA per side (28 VA total)</td>
<td>10/15 W per side</td>
</tr>
<tr>
<td>Unidirectional with heater</td>
<td>46 VA</td>
<td>30/45 W</td>
</tr>
<tr>
<td>Bidirectional with heater 2</td>
<td>56 VA</td>
<td>65 W</td>
</tr>
<tr>
<td>Bidirectional with heater 3</td>
<td>34 VA (68 VA total)</td>
<td>30/45 W per side</td>
</tr>
<tr>
<td>L-852A(L), L-852B(L)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unidirectional w/out heater</td>
<td>12 VA</td>
<td>10/15 W</td>
</tr>
<tr>
<td>Bidirectional w/out heater 2</td>
<td>16 VA</td>
<td>10/15 W</td>
</tr>
<tr>
<td>Unidirectional with heater</td>
<td>42 VA</td>
<td>30/45 W</td>
</tr>
<tr>
<td>Bidirectional with heater 2</td>
<td>46 VA</td>
<td>30/45 W</td>
</tr>
</tbody>
</table>

### Notes

1. Fixture load does not include isolation transformer load
2. One cord set
3. One cord set per side (2 total)

2-piece fixture with snow-plow ring with 4-bolts

### Two-piece Ordering Code

\[ \text{ITCF- X X 0 X X X} \]

**Series**

- A = L-852A(L)
- B = L-852B(L)
- C = L-852C(L)
- D = L-852D(L)

**LED Color**

1. Yellow/Yellow
2. Green/Green
3. Yellow/Green
4. Yellow/Obscure
5. Green/Obscure
6. Yellow/Obscure
7. Red/Green
8. White/White
9. White/Yellow
10. Green/White
11. Red/White

0. Not available for L-852J(L) and L-852K(L).

**Mounting and Cord Set**

- 7 = One L-823 cord set, L-868B (12") standard base with 4 bolts
- 8 = Two L-823 cord sets, L-868B (12") standard base with 4 bolts

**Arctic Option**

- 0 = Without arctic option
- 1 = With arctic option

**Power**

- 2 = 60 Hz
- 3 = 50 Hz

### Notes

1. Not available for L-852J(L) and L-852K(L).
2. Not ETL Certified.
3. Color options not recognized by the FAA.
4. Fixture with snowplow ring is shipped with 4 bolts and 2 optional pin inserts, allowing a field modification to a 2-bolt/2-pin configuration.