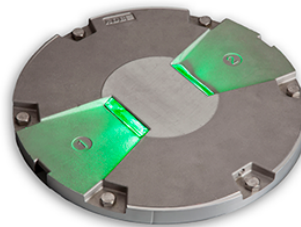


TAXIWAY LIGHTING

ITCL-LP

FAA LED In-pavement Taxiway Centerline Light

STYLE 3, MEDIUM-INTENSITY



12" Fixture



8" Fixture with Snow Plow Ring

Compliance with Standards

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

Uses

FAA L-852A(L)

- Taxiway centerline on straight sections and clearance bar in category I and II applications, $\geq 1,200$ ft RVR

FAA L-852B(L)

- Taxiway centerline on curved sections in category I and II applications, $\geq 1,200$ 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, $\geq 1,200$ ft RVR

FAA L-852K(L)

- Taxiway centerline on curved sections in category III applications, $< 1,200$ ft RVR

Features

- 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).
- Style 3 - Low protrusion above ground of ≤ 0.25 in (6.3 mm) reduces vibrations caused by aircraft landing gear, increasing fixture life.
- Greatly reduced maintenance: MTBF of 56,000 hours at 6.6 A.
- Increased traffic efficiency and availability of the runways due to the reduction of maintenance.
- Optimum and homogeneous light distribution along the lights installed on the same runway.

- Fully dimmable lights, respecting the response curve of traditional halogen lights. Operates on the full range of 2.8 A to 6.6 A.
- High discrimination between functions due to the saturated colors, crisp white light, their stability at the different brightness steps and under all viewing angles.
- Operates on either 3- or 5-step ferroresonant or thyristor CCRs that are designed in compliance with IEC or FAA requirements.
- Full compatibility with existing airfield lighting series circuits. No need to replace the CCRs, series transformers, or cables.
- Installation on the same bases as 8- or 12-inch tungsten-halogen lights for a straightforward replacement. Optional snow plow rings are available.
- Substantial investment reduction for new installations using smaller CCR size and series transformers due to a lower installed load.
- Very low working temperature, ensuring longer component life.
- 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 $1.2/50\mu\text{s} - 8/20\mu\text{s}$ combination wave, with a peak voltage of 10,000 V and a peak current of 5,000 A.
- When turned on, light rise time is low. The light is perfectly adapted for any incursion protection system.
- Optional monitoring function of the individual light source. In case of a defect, the LED light automatically disconnects from the secondary side of the isolation transformer, resulting in an open circuit condition.
- 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 top, intermediate and bottom covers.
- Corrosion-resistant stainless steel hardware. Use of Torx screws ensures ease of maintenance.
- For FAA applications, includes a UL 467 rated ground lug, which accepts an AWG 6 earth ground wire

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ITCL-LP

Features (Continued)

ITCL-LP lights are part of a complete range of LED in-pavement lights, featuring innovative characteristics, as a leverage for:

Reliability

- Additional water-tightness barriers, protecting both the electronics and the LEDs in case of accidental water ingress along the prism or the gaskets as well as along the cables.

Low protrusion without negative slope

- Limited height above pavement of 6.33 mm (0.25 in) reduces the risk of damage during winter operations
- Despite the low protrusion, no part of the prism is below ground level, avoiding loss of photometry during rainfall and sedimentation on the bottom of the prism.

Maintenance friendliness

- Maintenance-friendly: components subject to wear or damage like prisms and cables can easily be replaced. Neither sealing compounds nor resin are required.
- Innovative design of the cable entry, permitting replacement without the need to open the light. This eliminates the risk of water leakage due to a pinched cable.
- Reduced number of components for maintenance simplicity.
- Pressure-release plug for water-tightness testing of fixture after overhaul.

Optional scratch-resistant prisms

- A higher hardness protective layer can be applied to the prism (see Winter Options in ordering code), making it much more resistant to scratches and sand-blasting.

Dimensions

12" Fixture	
Outside diameter	303.3 mm (11.94 in)
Bolt-circle diameter	285.8 mm (11.25 in)
Overall height	78.4 mm (3.1 in)
8" Fixture	
Outside diameter	202 mm (7.97 in)
Bolt-circle diameter	184 mm (7.24 in)
Overall height	78.4 mm (3.1 in)

Power Supply

6.6 A through one or two series transformer(s). ITCL-LP lights have been designed to work with any IEC- or FAA-compliant transformer

up to 100 W without affecting the performance or the lifetime of the light or transformer. However, use of a non-matched transformer will reduce its efficiency. See data sheet 3033 for more details on recommended isolation transformers.

Fixture Type	Fixture Load ¹	Isolation Transformer	Isol. XF Load	Primary CCR Load
L-852A(L), L-852C(L) - No heater				
Unidirectional	5 VA	10/15 W	10 VA	15 VA
Bidirectional ²	7 VA	10/15 W	9 VA	16 VA
Bidirectional (x2) ³	5 VA	10/15 W	10 VA	15 VA
L-852A(L), L-852C(L) - With heater				
Unidirectional	30 VA	30/45 W	6 VA	36 VA
Bidirectional ²	32 VA	30/45 W	6 VA	38 VA
Bidirectional (x2) ³	30 VA	30/45 W	6 VA	36 VA
L-852B(L), L-852J(L) - No heater				
Unidirectional	7 VA	10/15 W	9 VA	16 VA
Bidirectional ²	8 VA	10/15 W	9 VA	17 VA
Bidirectional (x2) ³	7 VA	10/15 W	9 VA	16 VA
L-852B(L), L-852J(L) - With heater				
Unidirectional	31 VA	30/45 W	6 VA	37 VA
Bidirectional ²	59 VA	65 W	13 VA	72 VA
Bidirectional (x2) ³	31 VA	30/45 W	6 VA	37 VA
L-852D(L), L-852K(L) - No heater				
Unidirectional	12 VA	20/25 W	8 VA	20 VA
Bidirectional ²	18 VA	20/25 W	11 VA	29 VA
Bidirectional (x2) ³	12 VA	20/25 W	8 VA	20 VA
L-852D(L), L-852K(L) - With heater				
Unidirectional	31 VA	30/45 W	6 VA	37 VA
Bidirectional ²	59 VA	65 W	13 VA	72 VA
Bidirectional (x2) ³	31 VA	30/45 W	6 VA	37 VA

Notes

¹ Fixture load varies depending on color(s). The maximum fixture load is provided. Fixture load does not include isolation transformer load.

² One cord set

³ One cord set per side (2 total)

Ordering Code

D = AD light

Application

2A = FAA L-852A

2B = FAA L-852B

2C = FAA L-852C

2D = FAA L-852D¹

2J = FAA L-852J

2K = FAA L-852K

Cord Set Style and Length

J = Style 1 (2-pin) SO jacketed cable, 18" long

Cable and Connector

2 = 1 plug (2-pin)

3 = 2 plugs (2-pin)

LED Color 1 – Left

R = Red

G = Green

W = White

Y = Yellow

N = Obscure/Blank (no light)

LED Color 2 – Right

R = Red

G = Green

W = White¹

Y = Yellow

N = Obscure/Blank (no light)

Toe-in

0 = No toe-in

3 = Left/Right²4 = Toed Left^{2,3}5 = Toed Right^{2,3}

D XX X X X X X X X X X X 0

Ground Lug Options

0 = Without ground lug

U = With UL 467 ground lug (FAA standard)

Bolt Holes/Fixation Options

0 = Standard (6 bolts for 12" fixture; 2 bolts/2 fixing pins for 8" fixture)

1 = 4 bolts (8" fixtures)

Winter Options

0 = None

1 = Arctic kit

2 = Heavy-duty abrasion-resistant lens coating

3 = Arctic kit and heavy-duty abrasion-resistant lens coating

Standards

F = FAA

Power Supply and Monitoring

S = Current driven, 50/60Hz, w/out monitoring

M = Current driven, 50/60Hz, with monitoring

Dimensions

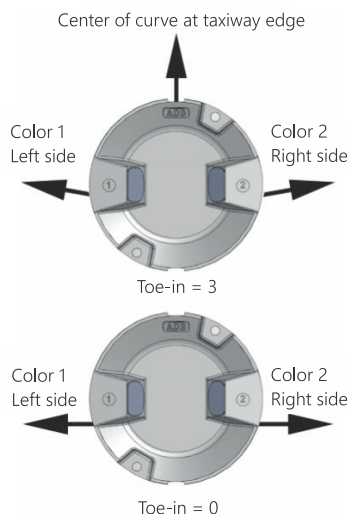
B = 8" diameter, 1/4" protrusion

D = 12" diameter, 1/4" protrusion

Notes

¹ L-852D is also used for FAA medium-intensity runway edge and threshold applications.² L-852J(L) and L-852K(L) only³ Side 1 (left) is the only side populated when unidirectional.

Toe-in Color Coding



Packaging

12" Fixture	
In cardboard box	7 × 13 × 13 in
Weight with packing	13.15 lb
Weight without packing	11.95 lb
8" Fixture	
In cardboard box	7 × 13 × 13 in
Weight with packing	9.8 lb
Weight without packing	8.6 lb
8" Fixture with Snow Plow Ring ¹	
In cardboard box	7 × 13 × 13 in
Weight with packing	42 lb
Weight without packing	40.8 lb

Notes

¹ Use L-868B 12" adapter AW5008ADB1E (unidirectional) / AW5008ADB11E (bidirectional) snow plow rings for mounting on L-868B base can.

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Product specifications may be subject to change, and specifications listed here are not binding. Confirm current specifications at time of order.