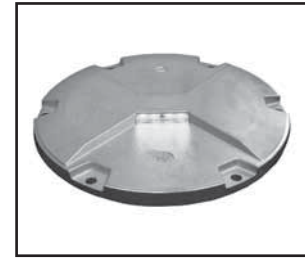


SIEMENS

Signature Series™ L-852C & D Style 3 LED Taxiway Centerline Light



Two-Piece Fixture
(with Snow Plow Ring)



Standard 12-inch Fixture

Compliance with Standards

FAA: Designed according to L-852 Series AC 150/5345-46 (Current Edition) and the FAA Engineering Brief No. 67 "Light Sources other than Incandescent and Xenon for Airport Lighting and Obstruction Lighting Fixtures." ETL Certified

Uses

L-852C - Taxiway centerline on straight section and clearance bar in category III applications

L-852D - Taxiway centerline on curved sections in category III applications

Use of two LED modules allows the option of separate control of each module.

Features

- Average LED life of 56,000 hours under high-intensity conditions and more than 150,000 hours under actual operating conditions, resulting in significant reduction or even elimination of ongoing maintenance costs and periodic re-lamping expenses
- FAA Style 3—Low protrusion above ground of ≤ 0.25 inch reduces vibrations caused by aircraft landing gear in both the light fixture and the landing gear, increasing lamp life
- Can be installed on existing series circuits with no modifications to existing CCR or isolation transformer
- Operates on either 3- or 5-step CCRs
- 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.
- When quartz-incandescent fixtures are replaced with LED fixtures, airport staff can add more lights without increasing CCR size
- Offers longer maintenance intervals and requires fewer spare parts, resulting in lower life cycle cost
- Monitoring option includes a separate 4-pin port to separately communicate LED operational status. Two pins are used for each LED side.
- Offers longer maintenance intervals and requires fewer spare parts, resulting in lower life cycle costs
- Galvanic isolation from the series circuit transformer, protecting the LED module against over voltage.
- "Smart electronics" control current to LED, so light output matches existing incandescent fixtures at all brightness levels without sacrificing any light characteristics. Allows for a low cost and progressive evolution of the airfield lighting toward new LED-based technology.

12-inch Ordering Code

ITCL-XXXX

Series

- 1 = L-852C (narrow beam) for L-868B standard base
- 2 = L-852D (wide beam) for L-868B standard base

LED Color

- 1 = Yellow/Yellow
- 2 = Green/Green
- 3 = Yellow/Green
- 5 = Green/Obscure
- 6 = Yellow/Obscure

Cord Set/Monitoring

- 1 = Two L-823 cord sets
- 2 = Two leads with shallow base
- 3 = One L-823 cord set
- 4 = One lead with shallow base
- 7 = One L-823 cord set with monitoring
- 8 = Two L-823 cord sets with monitoring

Arctic Option

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

10-inch Ordering Code

ITCL-XXXX

Series

- 3 = L-852C (narrow beam) for L-868A base
- 4 = L-852D (wide beam) for L-868A base

LED Color

- 1 = Yellow/Yellow
- 2 = Green/Green
- 3 = Yellow/Green
- 5 = Green/Obscure
- 6 = Yellow/Obscure

Cord Set/Monitoring

- 5 = One L-823 cord set
- 6 = Two L-823 cord sets
- 9 = One L-823 cord set with monitoring
- A = Two L-823 cord sets with monitoring
- J = One cord set, bottom entry for L-868A 10-inch extension

Arctic Option

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

Two-Piece Ordering Code ITCL-XXXX

Series

- 5 = L-852C (narrow beam) for L-868B standard base, 2-piece mounting
- 6 = L-852D (wide beam) for L-868B standard base, 2-piece mounting

LED Color

- 1 = Yellow/Yellow
- 2 = Green/Green
- 3 = Yellow/Green
- 5 = Green/Obscure
- 6 = Yellow/Obscure

Cord Set/Monitoring

- F = Two L-823 cord sets, 4 bolts (w/2 pin inserts)
- G = One L-823 cord set, 4 bolts (w/2 pin inserts)
- H = Two L-823 cord sets with monitoring, 4 bolts (w/2 pin inserts)
- I = One L-823 cord set with monitoring, 4 bolts (w/2 pin inserts)
- K = One L-823 cord set, fixture only*
- L = Two L-823 cord sets, fixture only*

Arctic Option

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

Note

* Cannot be used as an 8-inch fixture. For replacement purposes only, no snow plow ring.

Energy Cost Savings

Low wattage LED L-852A-D fixtures result in significant energy cost reductions.

Isolation Transformer	LED Fixture Load (per side)	Incand./Tungsten Halogen Load	Efficiency
30/45W	17.5VA	30W, 120V AC	42%
		48W, 120V AC	63%

Packaging

In cardboard box:	7 x 13 x 13 in (17.8 x 33 x 33 cm)
Weight with packing (12-inch fixture):	17.6 lb (8.0 kg)
Weight w/out packing (12-inch fixture):	14.7 lb (6.7 kg)
Weight with packing (Two-piece fixture):	34.5 lb (15.65 kg)
Weight w/out packing (Two-piece fixture):	30.25 lb (13.7 kg)

Electrical Supply

ITCL Fixture	Isolation Transformer	Fixture Load
Unidirectional with heater off	20/25W	17.5VA
Bidirectional with heater off	30/45W	35VA

Dimensions

12"	Outside diameter:	11.94 in (30.33 cm)
	Bolt-circle diameter (L-868B):	11.25 in (28.58 cm)
10"	Outside diameter:	9.99 in (25.37 cm)
	Bolt-circle diameter (L-868A):	9.25 in (23.50 cm)

Features (Continued)

- Low-temperature lights. Temperature rise at center of top cover remains well below the FAA-specified limit of 320°F (160°C).
- Designed to work with any FAA-compliant transformer up to 300W without affecting the performance or life-time of the light fixture or transformer
- LED photometric performance will be maintained longer due to a cleaner lens. The lower temperature of the lens prevents the "baking effect" that causes contaminants to stick to the surface of the lens.
- Use of LED light source eliminates filter replacement and color shifts when viewed at various angles or temperatures
- 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

Operating Conditions

Temperature: -40°C to +55°C (-40°F to +131°F)

Altitude: Sea level to 10,000 feet (3000 m)

Relative Humidity: Up to 100 %

Spare Components

Description	Part No.
Gasket, inner pan	7080.90.650
Gasket, molded, prism	4072.00.181
Inner pan assembly, single cord, bottom entry	44A6515-30
Inner pan assembly, single cord, w/o monitor	44A6515-10
Inner pan assembly, single cord, with monitor	44A6515-11
Inner pan assembly, dual cord, w/o monitor	44A6515-20
Inner pan assembly, dual cord, with monitor	44A6515-21
LED module assembly, green, for thermostat	44A6516-11
LED module assembly, yellow, for thermostat	44A6516-21
O-ring, pressure release screw	63B0267-011
Pressure release screw	60A2602
Prism, L-852C, straight	1428.00.710
Prism, L-852D, curved	1428.00.700
Seal, flat, prism	4071.96.150
Top cover, bidirectional, machining, 12-inch	62A2160-2
Top cover, unidirectional, machining, 12-inch	62A2160-1
Top cover, bidirectional, machining, 10-inch	62A2163-2
Top cover, unidirectional, machining, 10-inch	62A2163-1
Top cover, with heater, unidirectional, 12-inch, single cord set	44A6463-1
Top cover, with heater, bidirectional, 12-inch, single cord set	44A6463-2
Top cover, with heater, bidirectional, 12-inch, dual cord set	44A6463-3
Top cover, with heater, unidirectional, 10-inch, single cord set	44A6463-11
Top cover, with heater, bidirectional, 10-inch, single cord set	44A6463-21
Top cover, with heater, bidirectional, 10-inch, dual cord set	44A6463-31

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