

LED technology



# IR861T

LED elevated taxiway  
and apron edge, omni  
directional, high intensity  
lighting solutions

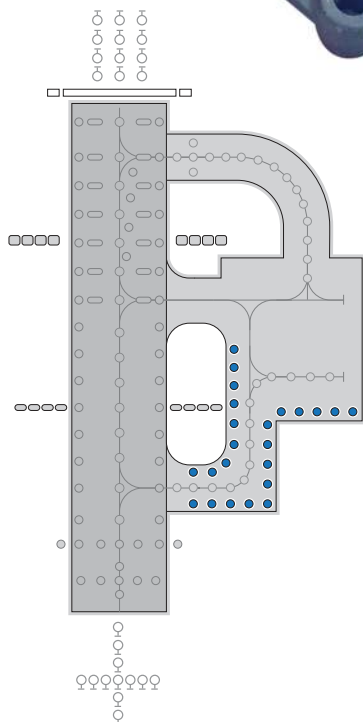
## Applications

CAT I/II/III all weather  
operation airfield ground  
lighting (agl) systems.

## Compliant with Latest International Standards\*

- ▶ ICAO Annex 14. Vol 1
- ▶ FAA AC 150/5345-46
- ▶ FAA Engineering Brief No. 67
- ▶ IEC 61827
- ▶ EASA
- ▶ Stannag 3316 (NATO)

\* As applicable to the application, compliance with other  
civil aviation and military regulations confirmed on request



# IR861T LED elevated taxiway and apron edge, omni directional, high intensity lighting solutions



## Electrical Performance

Main Beam Aperture		Colour	Typical Power Consumption - Watts (VA) @ 6.6A					Isolating Transformer
Horiz(°)	Vert(°)		Per Beam Watts	Fitting*		Tx Primary**		
				Watts (VA)	PF	Watts (VA)	PF	
0 - 359	0 -6	BLUE	0.75	4.71 (4.74)	0.993	12.87 (13.01)	0.991	10W
0 - 359	0 -6	BLUE	0.75	4.67 (4.70)	0.993	13.76 (14.09)	0.977	25W
0 - 359	0 -6	BLUE	0.75	4.64 (4.66)	0.994	16.23 (17.16)	0.948	45W

Fixture Operational Current Range: 2.7 to 6.7A RMS

**Notes:** Isolating transformer shall be suitably sized to accommodate specific secondary and other applicable losses.

\* as measured at the input leads of the fixture.

\*\* as measured across the primary winding of an appropriately sized isolation transformer with a total fixture and transformer secondary length not exceeding - 1.85m (72"). CCR shall be suitably sized for the indicated transformer VA for the relevant isolating transformer utilised.

\*\*\* main beam vertical requirements for FAA is 1° to 6° for IR852T

## Environmental Conditions

► Ambient Temperature -55 °C to +55°C (-67 °F to +131°F)

► Ingress Protection > IP24

► Storage Temperature -55°C to +55°C (-67 °F to +131°F)

### Photometry

#### Specification

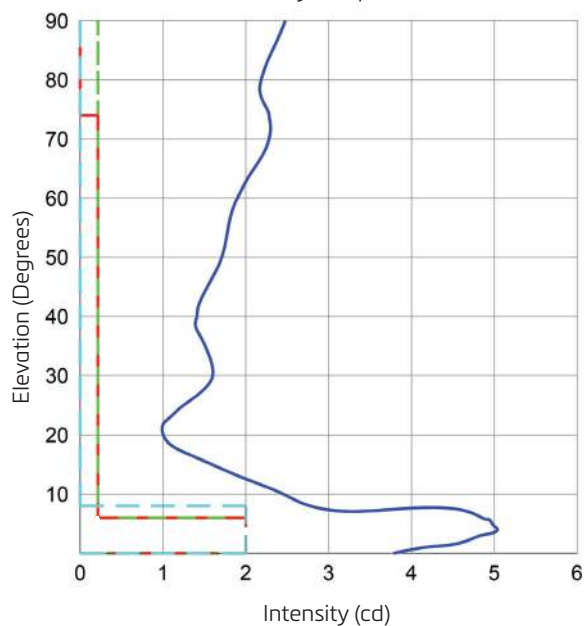
Taxiway & Apron Edge ICAO - 5.3.18.7/8 FAA L-861T

Colour	Blue
Main rect. minimum intensity 0°-6°	2 cd
Second rect. minimum intensity 6°-90°	0.2 cd

#### Typical Measured Values

Colour	Blue
Main rect. minimum intensity 0°-6°	3.0 cd
Main rect. minimum intensity 0°-8° (Stannag)	2.6 cd
Second rect. minimum intensity 6°-90°	1.0 cd

Photometry vs. Specification



— IR861T(L) Performance @ 6.6A

#### Specification

- ICAO Annex 14, EASA, CAP 168, FAA-46D
- IEC61827
- Stannag 3316

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LED AGL  
IR861T

# IR861T

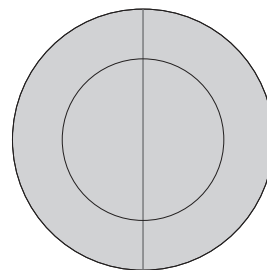
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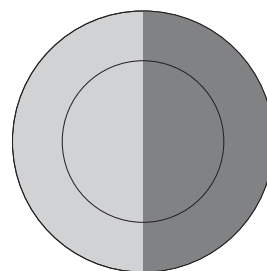
## Ordering Codes IR861

<b>Application</b> L-861T(L) Taxiway Edge	(T)(L)
<b>Beam Type</b> 7 = Omni directional (360°)	
<b>Colour</b> B = Blue	
<b>Optional Shield</b> 1 = 180° Shield 0 = No Shield	
<b>Specification</b> 1 = FAA 2 = ICAO	
<b>Mounting</b> 0 = No Stem or Frangible Coupling 1 = Frangible M32 (1 1/4") Threaded Mounting Stem H * = 356mm (14") 2 = 32mm (1 1/4") Solid Stem with 50.8mm (2") Frangible Coupling, 11.5 TPI H * = 356mm (14")**	
<b>** Option</b> 00 = No option XX = Extended 32mm (1 1/4") Solid Stem Available in 50.8mm (2") increments from 406.4mm (16") to a maximum 762mm (30") for compliance with FAA for applications in snow areas. Enter required overall fitting height Eg. Replace XX with 24 for 24" (609.6mm) *	
<b>Fixture Monitoring - Fail Open Feature</b> 0 = No Open Circuit 1 = Open Circuit	

## Beam Options



IR861T(L)  
Omni Directional



IR861T(L)  
Omni Directional  
with 180° Shield

\* Overall fitting mounting height when fitted to an L894 mounting plate

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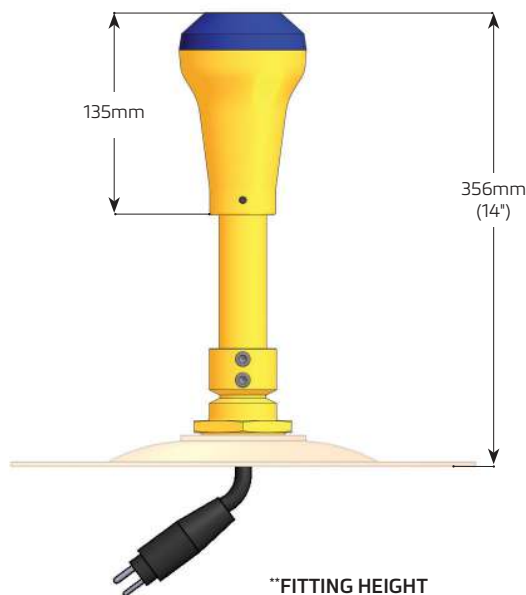
LED AGL  
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## Dimensions

Standard Configuration



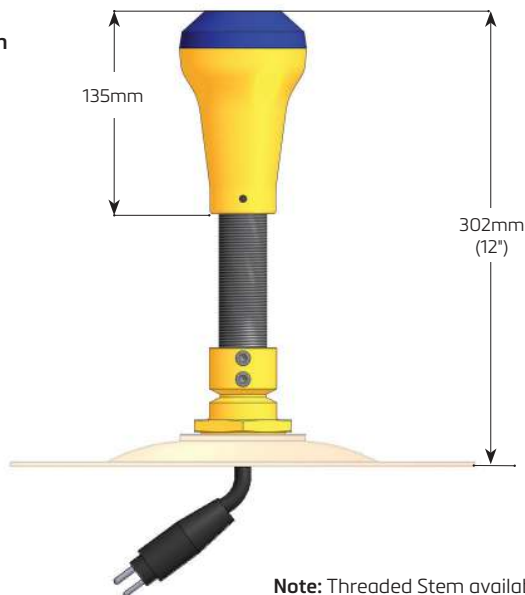
**\*\*FITTING HEIGHT**

356mm (14") standard fitting height. Extendable from 356mm (14") in increments of 50.8mm (2") to a maximum 762mm (30") for FAA applications in snow areas. Dimensions based on L867 Base Mounting Plate.

**Typical Installation Details**

Mounting plates sold separately

Frangible Threaded Stem Option



**Note:** Threaded Stem available for direct mounting into Spun Ground Mounting Plate or Mounting Spike. Only available in 302mm (12") fitting height.

## Packaging

► Net weight 0.86kg ► Gross weight 1.0kg (boxed) ► Box 360mm (L) x 120mm (W) x 120mm (H)



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atg airports reserve the right to change technical data and details at any point in time. Errors may have occurred

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