



**Description:**

Product Model: JCL550

In-pavement, Uni-direction, Green or Red

Light source: LED Power Factor: ≥ 0.9 Power: 60 VA

Application: I,II,III category airports runway guard light

Minimum service life of light source at rate power: 50000h

Beam direction :L=Toe-in left R=Toe-in right S =Straight

Beam color :GR=Winow 1: green window 2: red

**Features:**

- 1.LED is featured by long life, effective energy saving, maintenance -free, which brings enormous economic benefits
- 2.Proprietary prism structural design and manufacturing process to ensure excellent optical performance
- 3.Strict LED color management to ensure premium color consistency Proprietary driving circuit and thermal management solution, which greatly improves the reliability and service life of light fixture
- 4.Consistent dimming curve with halogen lamp fixture, complying with FAA standards
- 5.Power factor above 0.9, minimizing the power network interference
- 6.Optional function of single lamp failure detection, which enables the light to be open as halogen lamp once LED fails
- 7.Specially-designed structure, protruding only 6.35mm above finish grade
- 8.Upper cover with flat out-light surface to prevent from water buildup and ensure high luminous efficiency
- 9.Upper cover with equal-strength design and forging craft, which has premium mechanical, barrier capacity, and shock resistance ability
- 10.Smooth upper cover without sharp edge to prevent aircraft tires from damaging
- 11.Main body of lighting fixture is made of high thermal conductive aluminum alloy, which ensures good heat dissipation performance
- 12.Main structure made of corrosion-resistant aluminum alloy with special anodizing treatment, all fasteners are made of stainless steel, suitable for harsh environment application
- 13.High-precision parts machining to ensure all dimensional quality and precision
- 14.IP68 Ingress protection-grade, that can withstand inner pressure of up to 138kpa or water pressure generated from aircrafts' impact on the optical window
- 15.Interchangeable, modular-designed components, applicable for all series of 12-inch LED in-pavement runway lights(6 mm), which effectively cuts down the inventories.

**Specifications:**

Application	Angle of Main Light Beam		Color	Average Intensity Required	Average Intensity Actual
	Horizontal	Vertical			
JCL550	±5.5° (Toe-in 3.5°)	1°-10°	Green	10000	12836
	±6°	0.25°-4.75°	Red	2500	3034
JCL550-D	±5.5° (Toe-in 3.5°)	1°-10°	Green	3000	4164
	±6°	0.2°-4.7°	Red	2500	2973

**Compliance with Standards**

CAAC: AC-137-CA-2015-01

SAC: GB/T 7256

ICAO: Annex 14, Volume I

IEC: TS 61827

FAA: AC 150/5345-46

FAA: EB NO.67

NATO: STANAG 3316

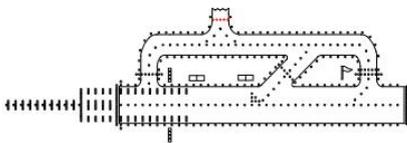
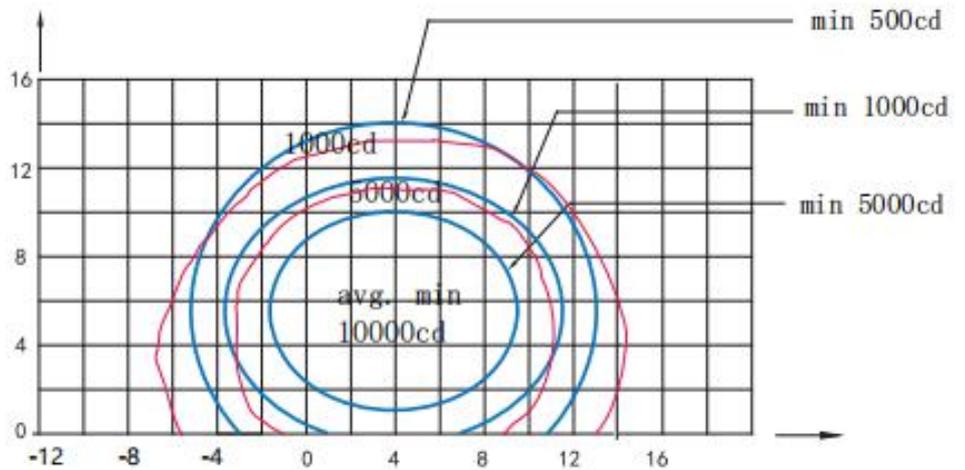
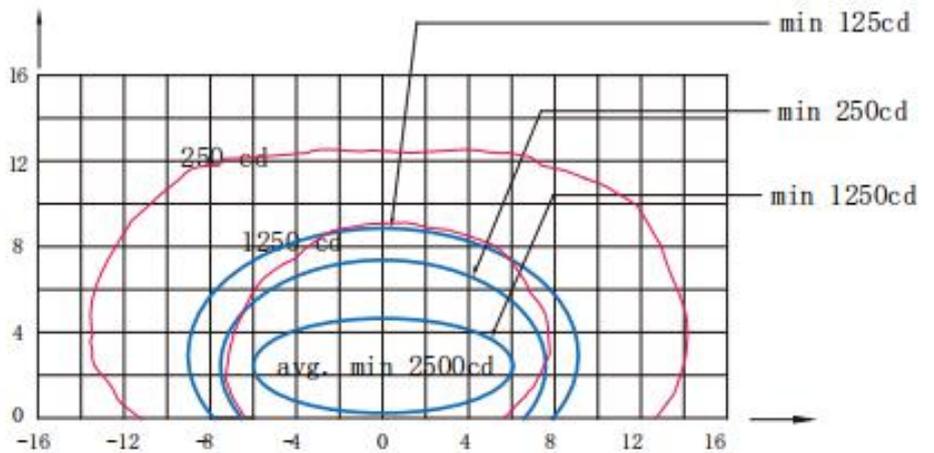


Photo-metric Data:



TAES-12-LED (Green), ICAO Figure A2-3



Structure diagram:

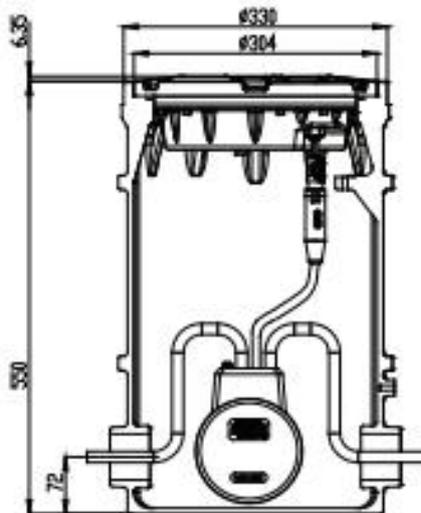


Fig 1 On 12" deep base

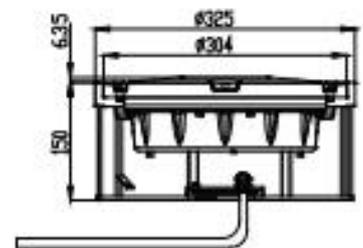


Fig 2. On 12" shallow base

\* Please find detailed information in installation manual

**Packing Data:**

1light w/o base

Unit net weight: 6.65 kg

Packing size: 330×330× 150mm<sup>3</sup>

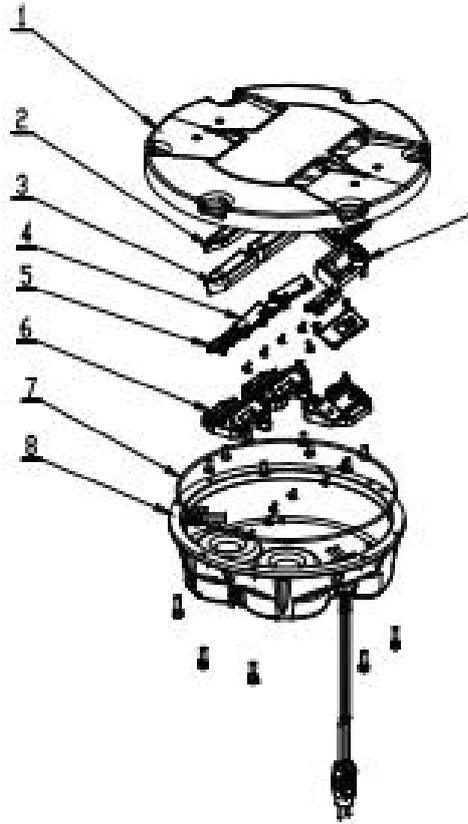
Gross weight: 7.04 kg

1 light w/ 12' shallow base

Unit net weight: 14.2 kg

Packing size:350×350×185mm<sup>3</sup>

Gross weight: 15.6 kg



- 1. upper cover
- 2. prism gasket sleeve
- 3. prism
- 4. LED lamp assy
- 5. prism gasket
- 6. prism pressing bracket
- 7. light body gasket
- 8. inner cover assy
- 9. thermal switch

**Spare Parts:**

Struc No.	Part Name	Order No.	Description
2	prism gasket sleeve	43117	prism gasket sleeve (61×28)-H6
3	prism	31158	prism (61×28) -H6
4	LED lamp assy	932053 -THRS-G	LED lamp assy-THRS-G
		932053 -ENDS-R	LED lamp assy-ENDS-R
5	prism gasket	43316	prism gasket(67×21)
6	prism pressing bracket	43241	prism pressing bracket(71×65)
7	light body gasket	41135	O-ring 228.27×2.62

**Accessories:**

No.	Order No.	Description
1	SB-12	12"deep base
2	DB-12	12"shallow base
3	41115	12" base O-ring
4	51121	12"lamp handle
5	ITF-065-066	65-watt isolation transformer
6	REC7	moulded type secondary cable receptacle style 7