Airsafe

THWS-12-LED

LED Inpavement Runway Threshold Wingbar light(12'' 6mm)

Compliance with Standards

CAAC: AC-137-CA-2015-01
CAAC: AC-137-CA-2015-03
SAC: GB/T 7256
ICAO: Annex 14，Volume I
IEC: TS 61827
FAA: AC 150/5345-46
FAA: EB NO.67
NATO: STANAG 3316

Application/Use

Runway threshold wingbar light

Features

- LED is featured by long life, effective energy saving, maintenance-free, which brings enormous economic benefits

- Proprietary prism structural design and manufacturing process to ensure excellent optical performance

- Strict LED color management to ensure premium color consistency

- Consistent dimming curve with halogen lamp fixture, complying with FAA standards

- Proprietary driving circuit and thermal management solution, which greatly improves the reliability and service life of light fixture

- Power factor above 0.9, minimizing the power network interference

- Optional function of single lamp failure detection, which enables the light to be open as halogen lamp once LED fails

- Specially-designed structure, protruding only 6.35mm above finish grade

- Upper cover with flat out-light surface to prevent from water buildup and ensure high luminous efficiency

- Upper cover with equal-strength design and forging craft, which has premium mechanical, barrier capacity, and shock resistance ability

- Smooth upper cover without sharp edge to prevent aircraft tires from damaging

- Main body of lighting fixture is made of high thermal conductive aluminum alloy, which ensures good heat dissipation performance

- Main structure made of corrosion-resistant aluminum alloy with special anodizing treatment, all fasteners are made of stainless steel, suitable for harsh environment application

- High-precision parts machining to ensure all dimensional quality and precision

- IP68 Ingress protection-grade, that can withstand inner pressure of up to 138kpa or water pressure generated from aircrafts' impact on the optical window

- Interchangeable, modular-designed components, applicable for all series of 12-inch LED in-pavement approach lights(6 mm), which effectively cuts down the inventories.

Ordering Information

THWS-12-X-LED-G-X

Type
 THWS-12=12''6mm in-pavement runway threshold wingbar light

Beam direction

 runway threshold

 L=Toe-in left
 R=Toe-in right

 left   right

Light source
 LED=LED lamp

Beam color
 G=Green

Optional Function
 M=Single lamp fault detection function
 A=Arctic Kit

∗ Please provide detailed installation info while ordering, spare parts and accessories should be separately ordered with specific order no.
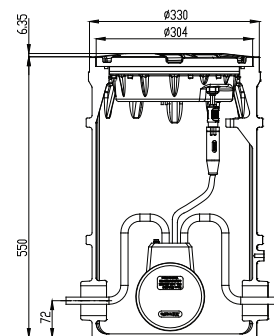
Installation
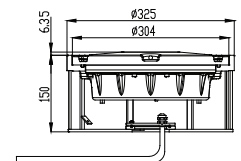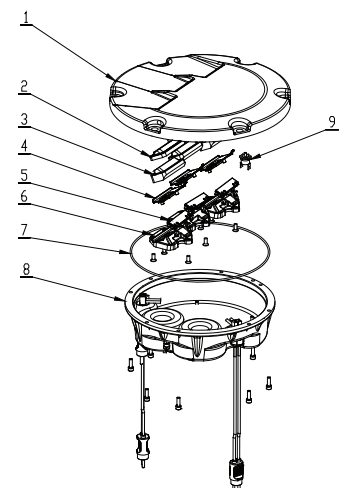

Fig 1 On 12" deep base

Fig 2. On 12" shallow base

* Please find detailed information in installation manual
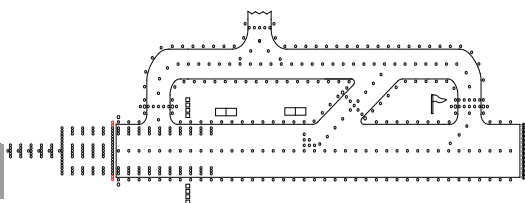
Structure

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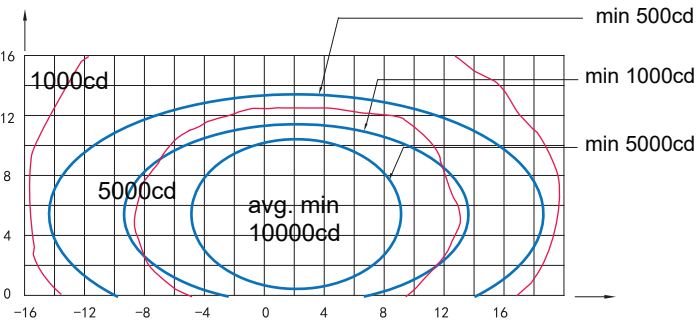7. light body gasket
8. inner cover assy
9. thermal switch

Airsafe

THWS-12-LED

LED Inpavement Runway Threshold Wingbar light (12'' 6mm)

Specifications

Power: 65 VA

Power Factor: ≥ 0.9

Photometric Data

min 500cd

min 1000cd

min 5000cd

1000cd

5000cd

avg. min 10000cd

THWS-12-LED (Green), ICAO Figure A2-4

Application		Main beam		Color	Required min avg. cd	Actual avg. cd
		H	V			
THWS –12–LED	ICAO Figure A2–4	±7° (Toe-in 2°)	0.5° —10.5°	Green	10000	11123

Packing Data

1 light w/o base

Unit net weight: 9 kg

Packing size: 330×330×150 mm³

Gross weight: 9.7 kg

1 light w/ 12'' shallow base

Unit net weight: 13.42kg

Packing size:350x350x185mm³

Gross weight: 14.26 kg

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 -THWS-G	LED lamp assy-THWS-G
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