



Datasheet

Taxiway CenterLine Straight (TCL) and Curved Light (TCC)

LED AGL Airfield Ground Lighting

03-71032 V2.4

General

TKH Airport Solutions inset lights are efficient and high-performing LED lights, providing at least 50,000 hours of service life at full 6.6A operation. The LED light fixtures have a simplified modular construction, consisting of five main components:

- Aluminum forging cover plate, with mechanical load capabilities exceeding FAA requirements
- Interchangeable LED light module
- Electronic driver board with housing
- · Borosilicate glass prism with optional sapphire glass
- Secondary cable in accordance with FAA or ICAO requirements

This means easy maintenance of the lights because of the reduction of the amount of spare parts.

All of our inset lights are also available in CEDD technology. Please note that the specifications of CEDD lights are different from this datasheet. Contact our team for more details.

Key features

- 8" outer diameter
- 6.35 mm height above surface
- Depth below flange: 35 mm
- Light outlet size 40 mm x 6 mm
- Dust and water tightness: IP68, IP69
- Overall lifetime* > 20 years
- Useful lamp life (LED) up to 50,000 h
- Chromaticity coordinates according to ICAO Annex 14, Vol. 1 or FAA AC 150/5345-46E
- Nominal current: 6.6 A (0 100 %)
- Nominal AC frequency: 40-70 Hz

- Power consumption (@6.6 A fixture only, not including cable losses, transformer efficiency, etc): per side: 10W (green/yellow straight); 9W (green/yellow curved)
- Power factor > 95 % at nominal current
- Ambient temperature: -40 °C (-40 °F) / + 75 °C (+167 °F)
- Internal serial interface for diagnostics and parameterization
- Fail/open function (optional)
- De-icing kit/Heater (optional) additional max.
 13W per side while in operation
- Sapphire coated prism (optional)

*) Apart from wear parts

Standards

This fixture has been developed according to the following standards:

- ICAO Annex 14, Vol. 1 and Vol. 2
- FAA AC 150/5345-46E

- Engineering Brief No. 67D
- IEC TS 61827



Variants

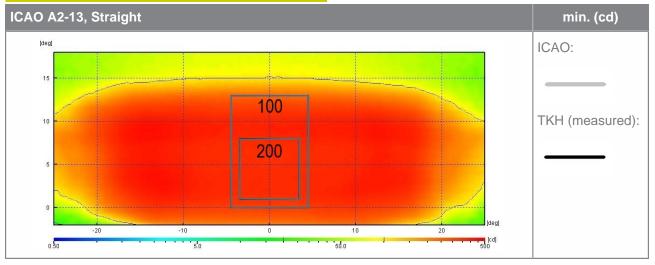
- Taxiway straight: Uni- and Bi-directional
- Taxiway straight configuration B: Uni- and Bidirectional
- Taxiway curve: Uni- and Bi-directional
- L-852C(L)
 - L-852K(L)

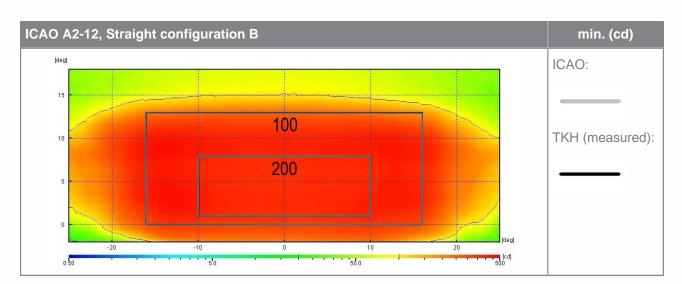
Colors

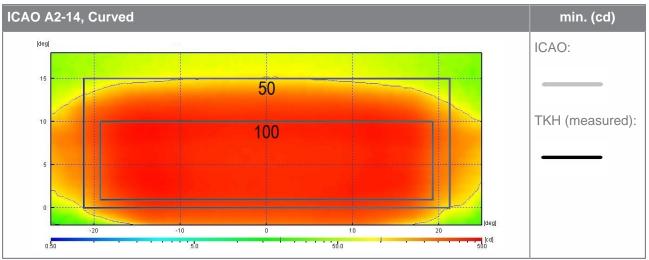
- Green
- Yellow
- Blue (non-ICAO/FAA)

Light distributions

Green, Taxiway Centerline Light

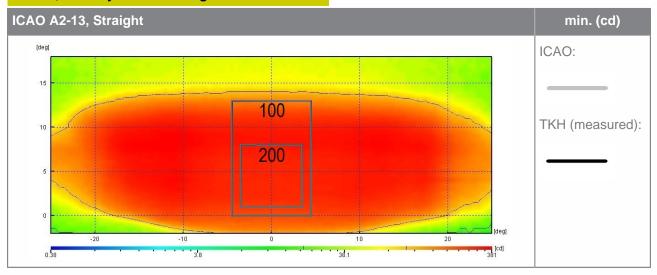






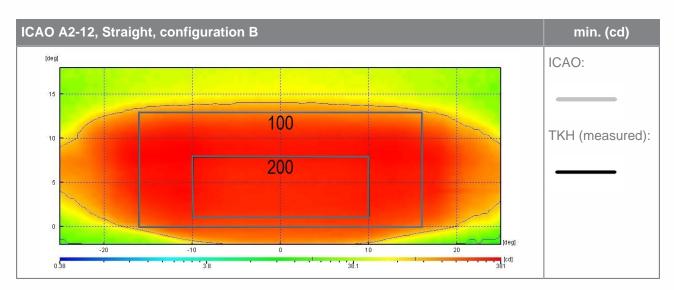
Yellow, Taxiway Centerline Light

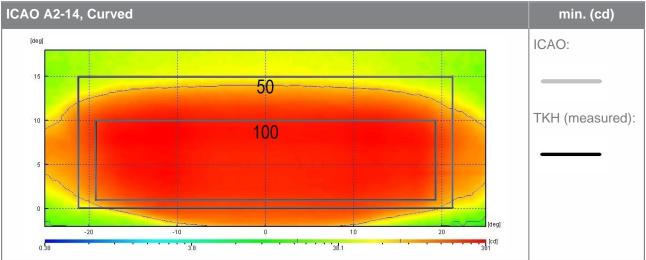
4



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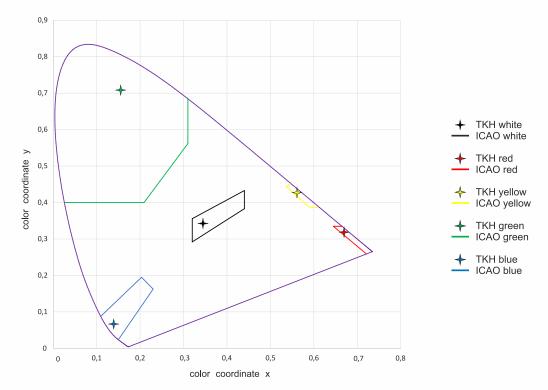
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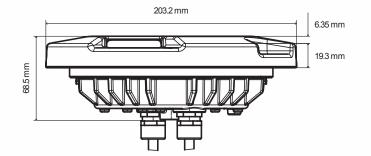
Chromaticities

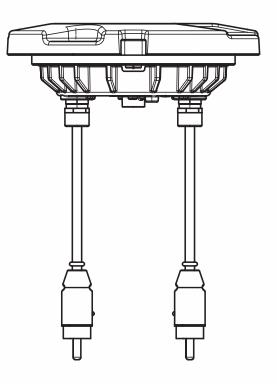


Areas description according to ICAO Annex 14, Volume I, Edition 8, July 2018



Dimensions

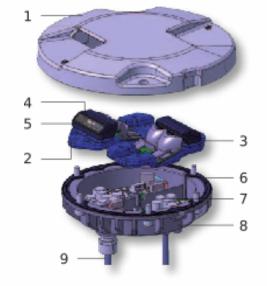




Components

Straight configuration B

- 1. Cover (drop forged AL, anodised)
- 2. High power LED module 1
- **3.** High power LED module 2
- **4.** Prism (borosilicate glass)
- **5.** Sealing aperture (Fluor silicate)
- **6.** Sealing housing ((Fluor silicate)
- 7. Electronics
- 8. Housing (Aluminum, die-cast)
- 9. FAA L-823 plug



Accessories

- Transformer
- Shallow base
- Installation tools

Please contact sales@tkh-airportsolutions.com to discuss which accessories are required for your application.

Packing data

Variant	Dimensions (L x W x H) in mm	Gross weight in kg	Net weight in kg					
8" Fixture	250 x 250 x 105	2.8	2.5					
8" Shallow Base	215 x 215 x 130	2.7	2.5					

Document Information

Name : 04_LED_Taxiway_Centerline_Straight_Type_TCL_and_Curved Light_Type_TCC_03-71032



Version : V2.4

Language : English (Original manual)

For the latest version of this document see https://www.tkh-airportsolutions.com/airfield-products/ or scan

Ordering code

Option	Key	Description	TCL - <u>s</u> -	+	3	1	G 0 I	0 0) 00 T)	1 - <u>1</u>	<u>e</u>	1 0 	0
Function														
	TCL	Taxiway Centerline	-											
	TCC	Taxiway Centerline Curved												
	852C	L-852C(L)												
	852K	L-852K(L)												
Direction	S	Straight												
		Straight												
	L R	Left												
	ĸ	Right												
Regulation														
	F	FAA												
	I	ICAO												
inihé inéomolés														
_ight Intensity	1	CATI												
	2	CATII												
	3	CATIII												
	3 4	FAA												
	4	1 77												
Cover/Size														
	1	8 Inch Cover												
	3	8 Inch Flat Cover												
Color A														
	G	Green					1							
	Y	Yellow												
	В 0	Blue (no ICAO/FAA function)												
	U	Blank												
Toe-in A														
	00	No Toe-In												
Color B	6	Groon												
	G Y	Green Yellow												
	В													
	0	Blue (no ICAO/FAA function) Blank												
	0	Blank												
Toe-in B														
	00	No Toe-In												
Duiona														
Prism	1	Borosilicate Prism												
	2	Sapphire Prism												
	-	Sapping Friend												
Cable														
	10	250mm One Plug			_	_	_	_	_					
	1T	250mm Two Plugs												
	20	457mm One Plug												
	2T	457mm Two Plugs												
	30	300mm One Plug (combined with 3-po	ole plug)											
	3T	300mm Two Plugs (combined with 3-p	ole plug)											
Plug type														
Plug type	1	Standard FAA 2-Pole-Plug											J	
	2	Standard FAA 2-Pole-Plug Special 3-Pole-Plug												
	2	openal of the ring												
ail-open														
	0	Without Fail-Open												
	1	With Fail-Open Hardware Relais												
	2	With Fail-Open Signal Interface												
Heate-														
Heater	0	No Heater												
Heater	0	No Heater With Heater												_
leater	0 1	No Heater With Heater												_
	1													_
Heater Special options	1													_



Company profile:

TKH Airport Solutions offers a complete range of LED-based airfield ground lighting products that are designed to be easy to install, operate, and maintain, and are compliant with international aviation standards.Our products meet the needs of our customers and contribute to a better future for the aviation industry. Being part of the TKH Group, our company can build on a history of more than 90 years in smart connectivity, energy distribution and AGL.

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