Datasheet

Runway End (RWE)

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" or 12" outer diameter
- 6.35 mm height above surface
- Depth below flange: 35 mm (for 8"), 50 mm (for 12")
- 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

*) Apart from wear parts

- Power consumption (@6.6 A - fixture only, not including cable losses, transformer efficiency, etc): 38 W
- 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. 14 W while in operation
- Sapphire coated prism (optional)

Standards

This fixture has been developed according to the following standards:

- ICAO Annex 14, Vol. 1 and Vol. 2
- FAA AC 150/5345-46E
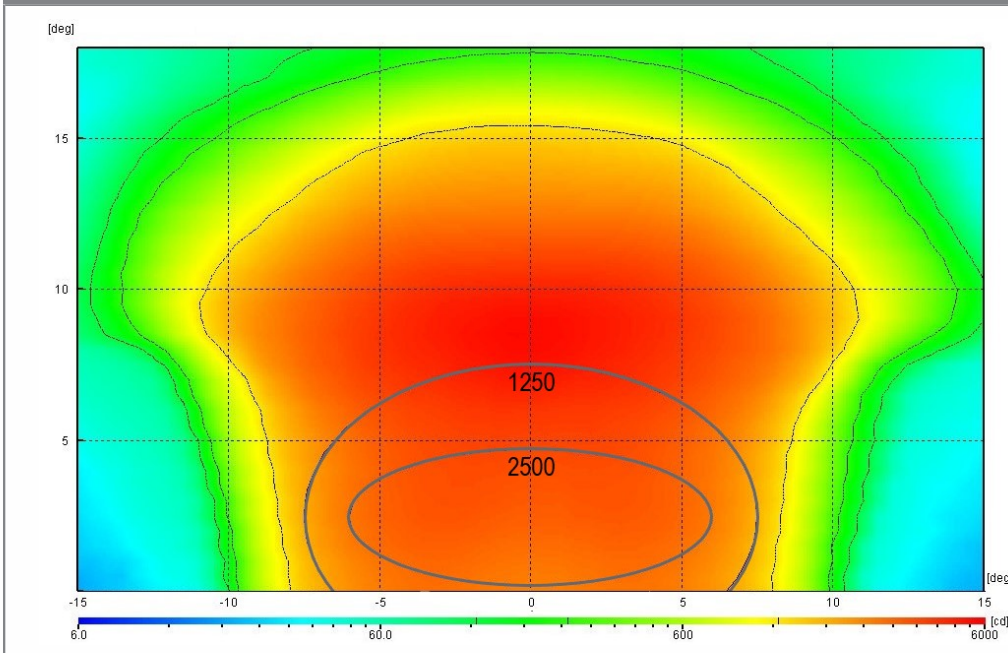- Engineering Brief No. 67D
- IEC TS 61827

Datasheet - Runway End (RWE)

Colors / Variants

- 8" Unidirectional Red
- 12" Unidirectional Red

Light distributions

Red

ICAO A2-8	min. (cd)

ICAO:

TKH (measured):

Chromaticities

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

Legend:
- TKH white / ICAO white
- TKH red / ICAO red
- TKH yellow / ICAO yellow
- TKH green / ICAO green
- TKH blue / ICAO blue
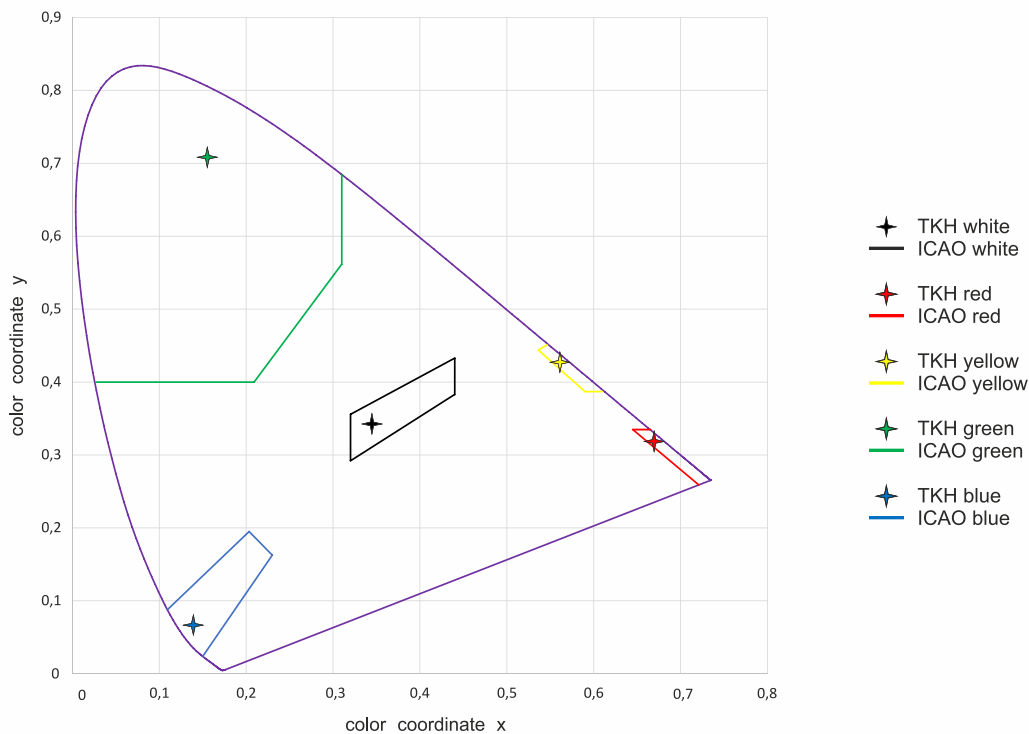
Components

8" Unidirectional variant

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
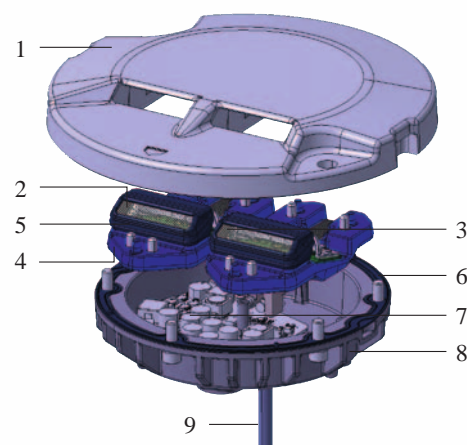
Dimensions

Inset light 8"

203.2 mm
6.35 mm
19.3 mm
68.5 mm

Inset light 12"

304.8 mm
6.35 mm
19.3 mm
85.0 mm
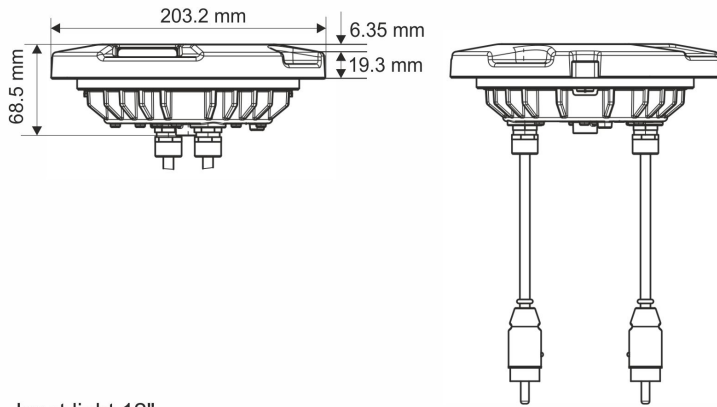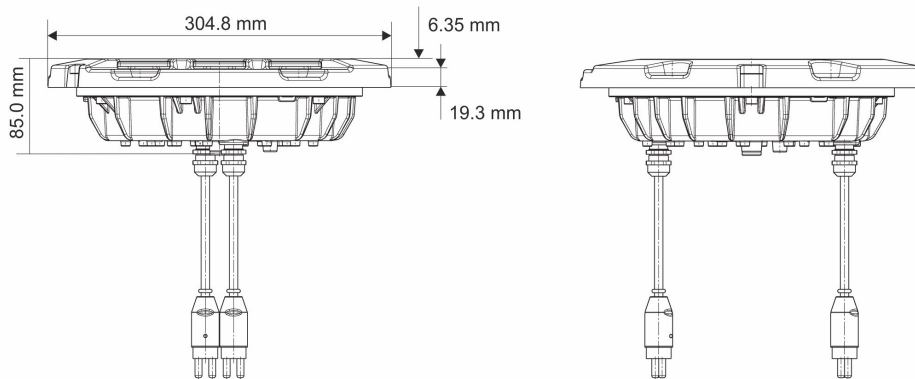
(Note: drawings are indicative only)

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
12" Fixture	325 x 325 x 155	6.8	5.8
12" Shallow Base	320 x 320 x 150	7.5	7.1

Document Information

Name   : 04_LED_Runway_End_RWE_03-71028

Version   : V2.4

Language : English (Original manual)

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

Datasheet - Runway End (RWE)

Ordering code

Option	Key	Description																		
			RWE	-	S	-	I	-	3	2	-	R	00	0	00	-	1	-	1O	- 1 0 0 0
Function																				
	RWE	Runway End																		
	850D	L-850D(L)																		
Direction																				
	S	Straight																		
Regulation																				
	F	FAA																		
	I	ICAO																		
Light Intensity																				
	1	CAT I																		
	2	CAT II																		
	3	CAT III																		
	4	FAA																		
Cover/Size																				
	1	8 Inch Cover																		
	2	12 Inch Cover																		
	3	8 Inch Flat Cover																		
Color A																				
	R	Red																		
Toe-in A																				
	00	No Toe-In																		
Color B																				
	0	Blank																		
Toe-in B																				
	00	No Toe-In																		
Prism																				
	1	Borosilicate Prism																		
	2	Sapphire Prism																		
Cable																				
	1O	250mm One Plug																		
	2O	457mm One Plug																		
	3O	300mm One Plug (combined with 3-pole plug)																		
Plug type																				
	1	Standard FAA 2-Pole-Plug																		
	2	Special 3-Pole-Plug																		
Fail-open																				
	0	Without Fail-Open																		
	1	With Fail-Open Hardware Relais																		
	2	With Fail-Open Signal Interface																		
Heater																				
	0	No Heater																		
	1	With Heater																		
Special options																				
	0	No Special Options																		
	1	Overheat Protection																		

**TKH
AIRPORT
SOLUTIONS**

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.