



# Datasheet

## Combined Threshold/Runway End Light (THRE)

## General

CEDD® is a smart, safe and sustainable airfield ground lighting technology. Energy and data transport are combined in a single cable. CEDD® airfield lights receive their power and data by means of induction and can therefore easily and safely be installed or replaced without making electrical contact.

With up to 40% lower energy consumption compared to regular LED AGL systems, CEDD® enables airfields to reduce their impact on the environment. Also, the robust design of the infrastructure is highly suitable for floating 'Follow-the-Greens'. CEDD® AGL provides a solution to face the most challenging future operational demands.

Most of the TKH Airport Solutions inset fixtures are available for regular 6.6-A LED AGL as well as for CEDD® AGL installations. This datasheet covers the specifications of the Combined Threshold/Runway End Light (THRE).

## Key Features

- 12" outer diameter
- Dust and water resistance: IP68
- Useful lamp life (LED) up to 50,000 hours
- Certification: ICAO
- Power consumption (CEDD® regulated): 66 W
- Ambient temperature: -40 °C (-40 °F) / + 75 °C (+167 °F)
- Internal serial interface for diagnostics and parameterization
- Integrated single lamp control
- Intensity control: 0-100%
- Optional sapphire-coated prism

Photometric data in this datasheet (such as light distributions and chromaticities) is based on ICAO certification. FAA data, if applicable, is available upon request. Contact our sales team for more information.

## Colors

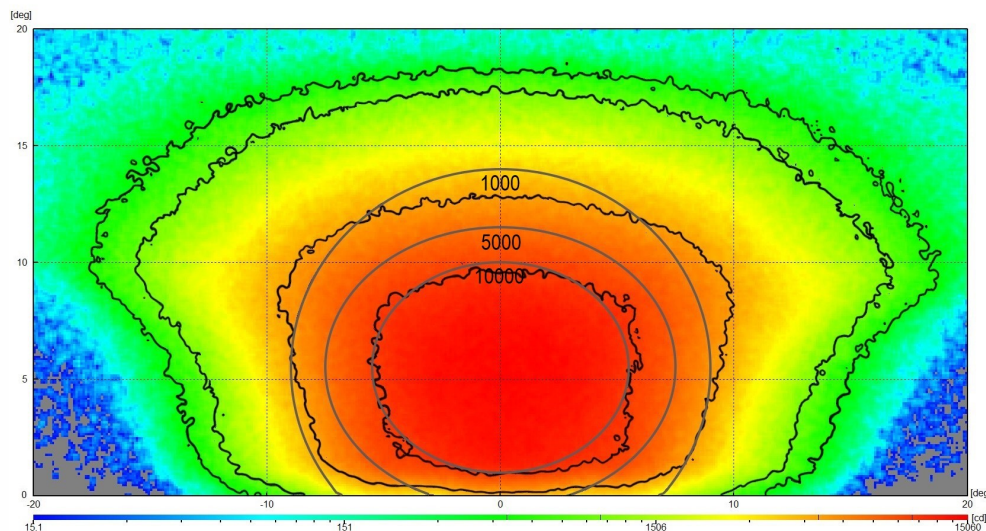
- Green/Red
- Green/Yellow

## Light distributions

### Green, Threshold Light

ICAO A2-3

min. (cd)



ICAO:

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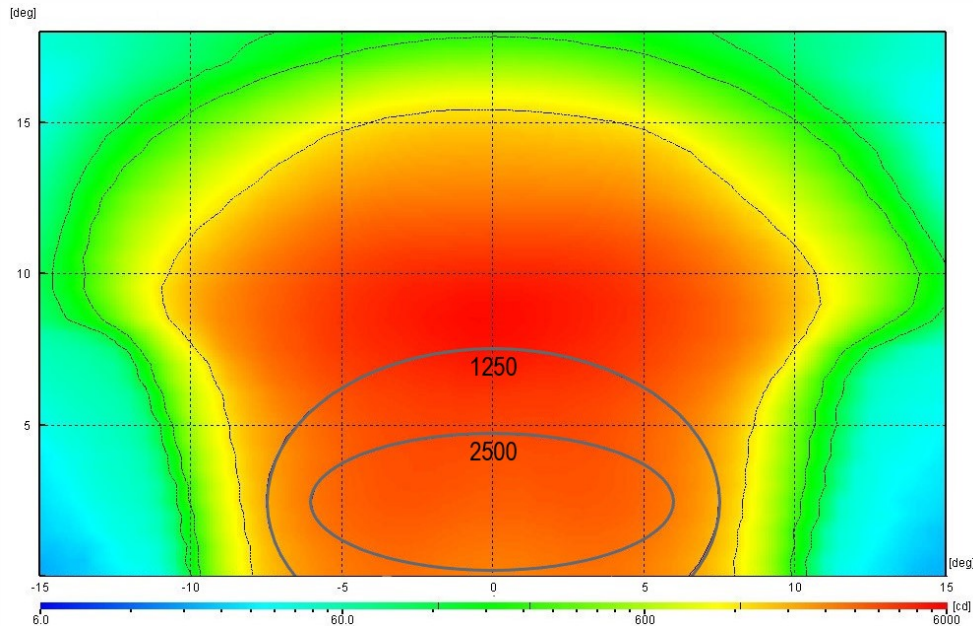
TKH (measured):

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### Red, Runway End Light

ICAO A2-8

min. (cd)



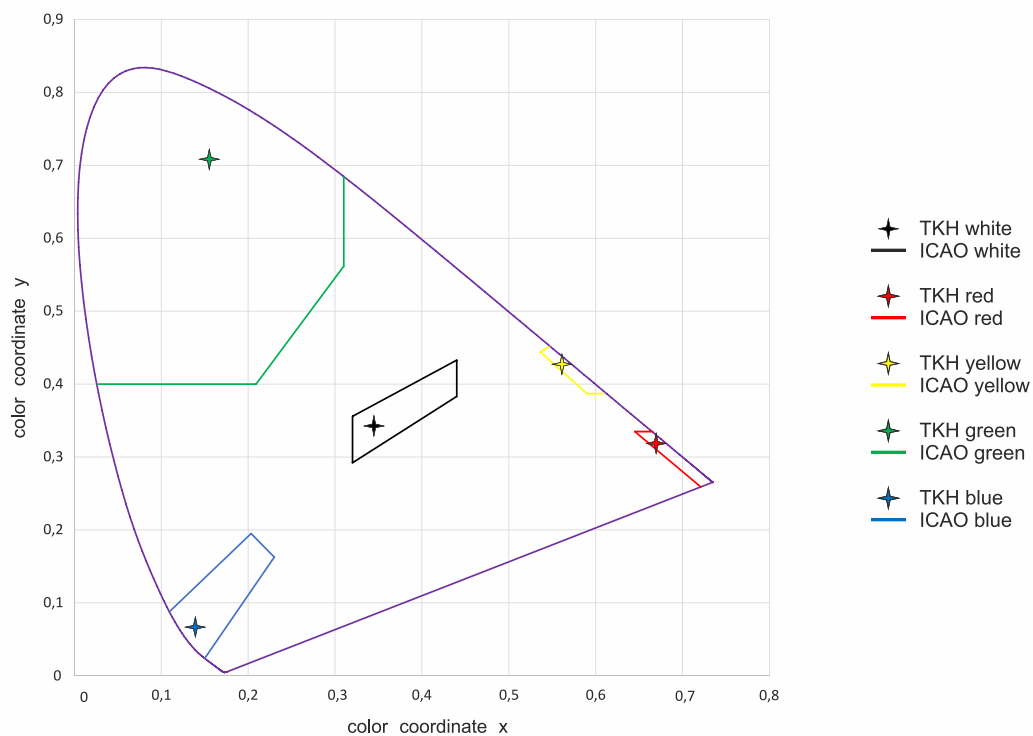
ICAO:

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TKH (measured):

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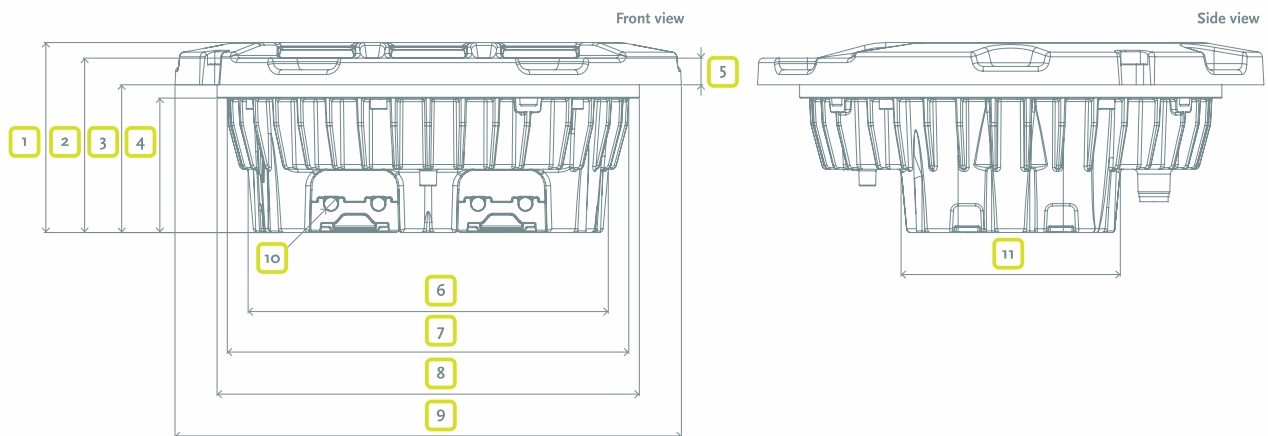
Areas description according to ICAO Annex 14, Volume I, Edition 8, July 2018



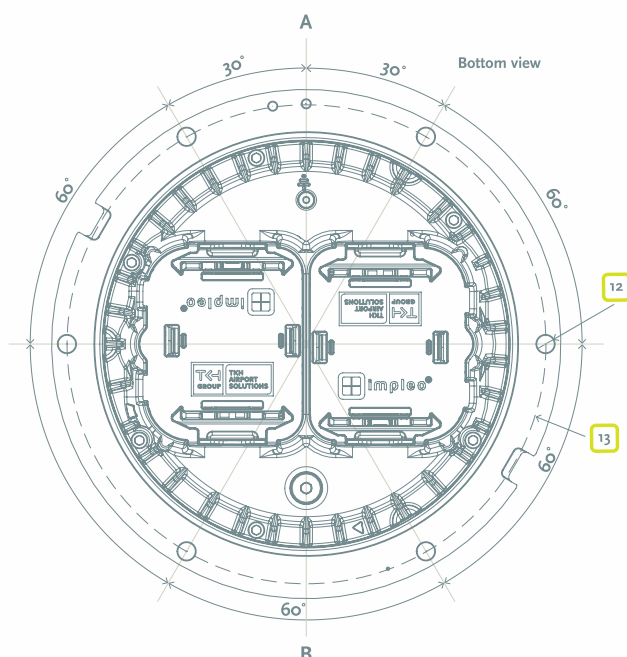
## Dimensions

### 12" fixture

Pos.	Description	Values
1	Total height	119.7 mm
2	Height LED engine	105.3 mm
3	Height with flange	87.9 mm
4	Height below flange	80.2 mm
5	Flange thickness	17.4 mm
6	Bottom shell width	216 mm
7	Housing top diameter	241 mm
8	Flange diameter	252.5 mm
9	Cover diameter	304 mm
10	Cable feed through	7.9 mm (max)
11	Housing bottom width	132 mm



Pos.	Description	Values
12	Diameter of mounting bolt holes (6x)	Ø 10.5 mm
13	Mounting hole center line	285.7 mm ± 0.2 mm



## Accessories

- 12" CEDD® shallow base
- Shallow base installation jig for 8" and 12"

Please contact our sales team to know 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
12" Fixture	438 x 438 x 239	6.8	5.8
12" Shallow Base	320 x 320 x 150	7.5	7.1

## Ordering code CEDD® THRE

Option	Key	Description	THRE	-	L	-	I	-	3	2	-	G	35	R	00	-	1	-	00	-	0	0	0	0
Version	THRE	Threshold End Light																						
Direction	S	Straight																						
	L	Left Direction																						
	R	Right Direction																						
Regulation	I	ICAO																						
Light Intensity	1	CAT I																						
	2	CAT II																						
	3	CAT III																						
Cover/Size	2	12 Inch Cover																						
Color A	G	Green																						
Toe-in A	35	3,5° Toe-In																						
	00	No Toe-In																						
Color B	R	Red																						
	Y	Yellow																						
Toe-in B	00	No Toe-In																						
Prism	1	Borosilicate Prism																						
	2	Sapphire Prism																						
Cable	00	Not applicable (CEDD® technology)																						
Plug type	0	CEDD® inductive clamp																						
Fail-open	0	Functionality via CEDD® monitoring technology																						
Deicing-Kit	0	Not applicable																						
Special options	0	No Special Options																						

## Document Information

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







### Company profile:

TKH Airport Solutions is an innovator in airfield ground lighting, offering a complete range of LED AGL products. We build upon the know-how from a long and successful tradition of pioneering developments in the AGL and connectivity 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.

#### More information:

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