

# KHATOD<sup>®</sup>

Optical Solutions for LED Lighting

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## Test Report

Number: 130000000138

Optics: KCLP1641ST

Source: TREIDONIC G2LES10.5

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## 1 Light Source Model

Parameter	Symbol	Value	Unit
Lens / Reflector Model	-	KCLP1641ST	-
Material (More info on page 9)	-	PC + Reflective Coating	-
Dimensions	-	See page 8	-
Source Model	-	TREIDONIC G2LES10.5	-
Number of Sources	$N$	1	-
Power Supply Type	-	ISO TECH ISP3303	-
Driver Type	-	-	-
Driving Voltage	$V_F$	-	V
Driving Current	$I_F$	-	mA
Nominal Flux	$\Phi$	1000×1	lm

## 2 Measurement Setup

Parameter	Symbol	Value	Unit
Operator	-	Simone Bassi	-
Goniophotometer Type	-	KLX12M	-
Measurement Distance	$z$	5	m
Room Temperature	$T$	25	°C
Date	-	12-Mar-2013	-

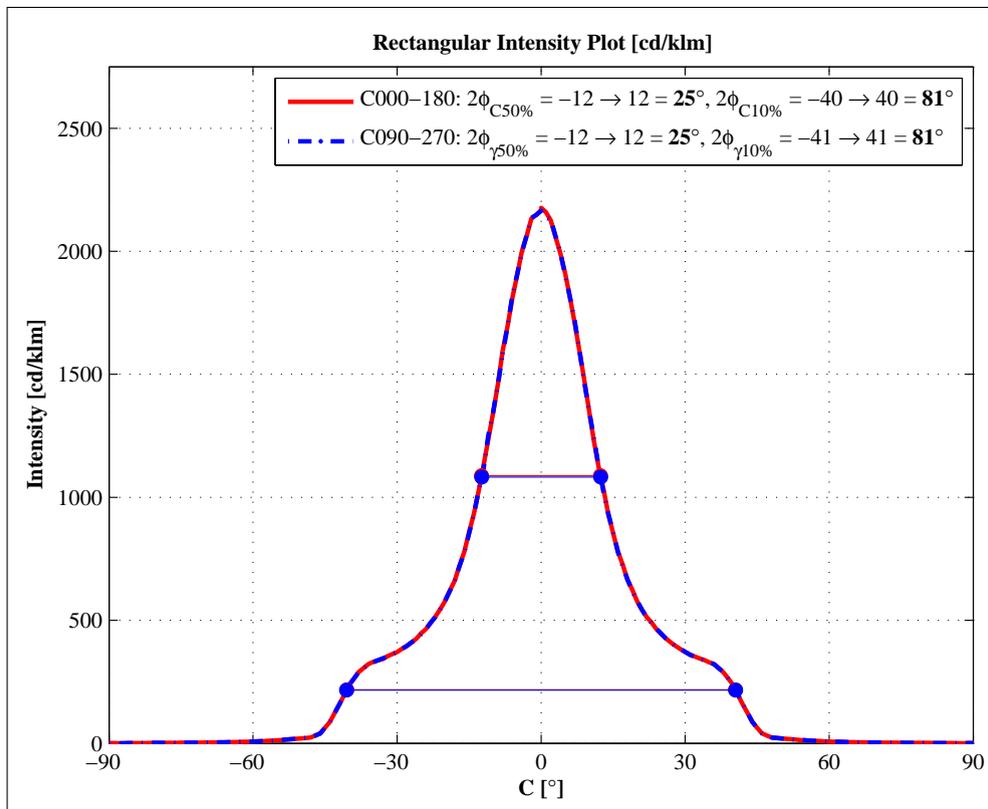
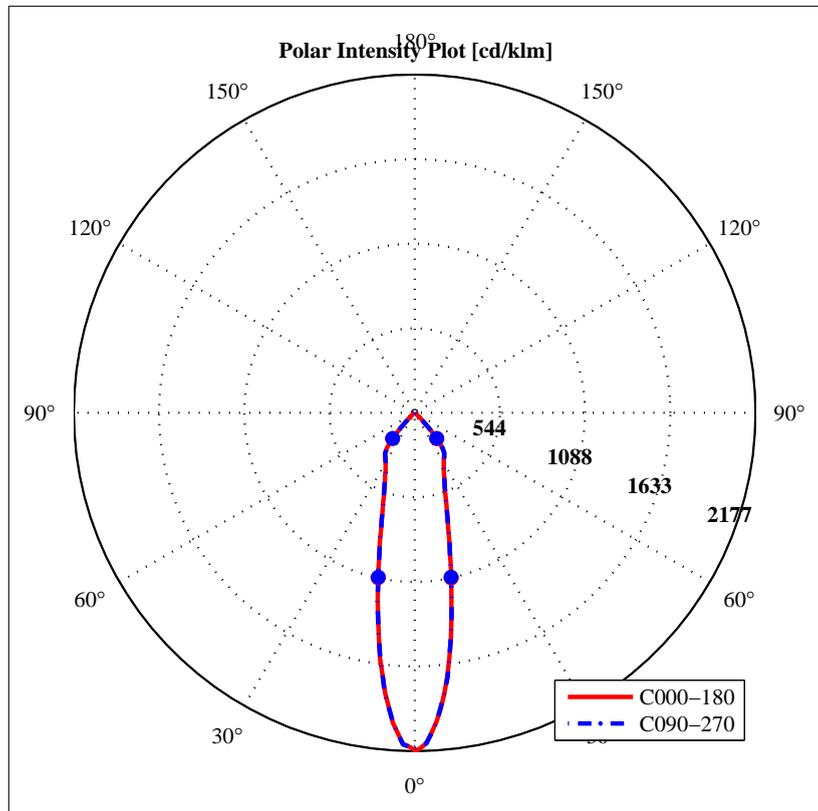
## 3 Results

Parameter	Symbol	Value	Unit
Total Flux	$\Phi$	1000	lm
Max Intensity	$I_{max}$	2177	cd
Max Illuminance at 5 m	$E_{max}$	87	lx
C-Viewing Angle at 50% $I_{max}$	$2\varphi_C$	25	°
$\gamma$ -Viewing Angle at 50% $I_{max}$	$2\varphi_\gamma$	25	°
C-Viewing Angle at 10% $I_{max}$	$2\varphi_{C10\%}$	81	°
$\gamma$ -Viewing Angle at 10% $I_{max}$	$2\varphi_{\gamma10\%}$	81	°
General Optical Measurement Tolerance	-	±10%	-

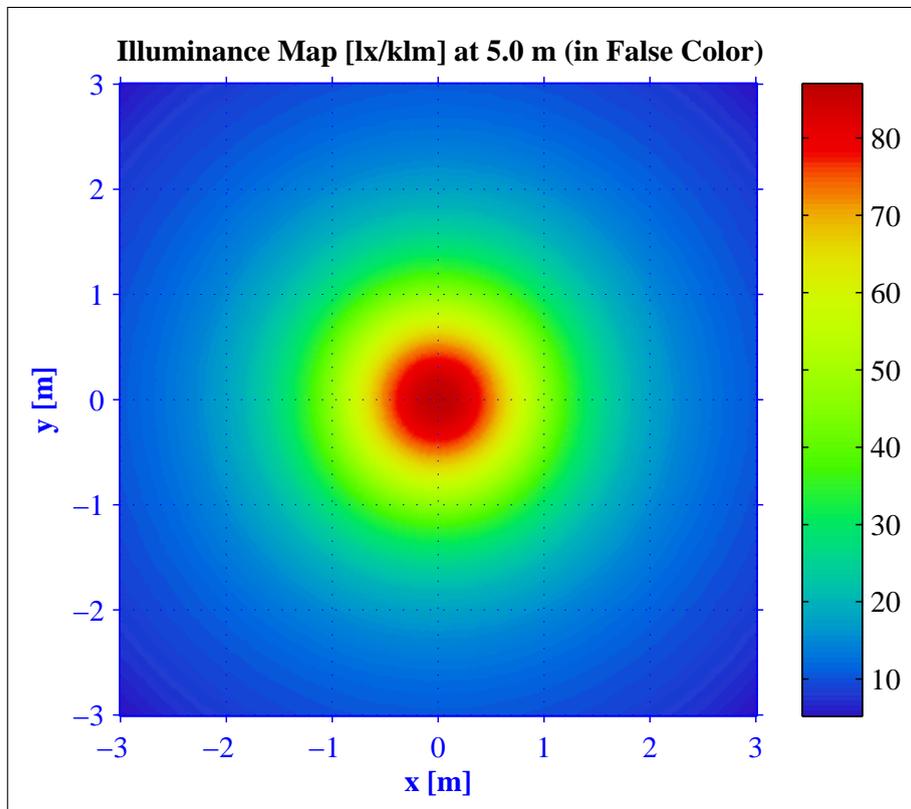
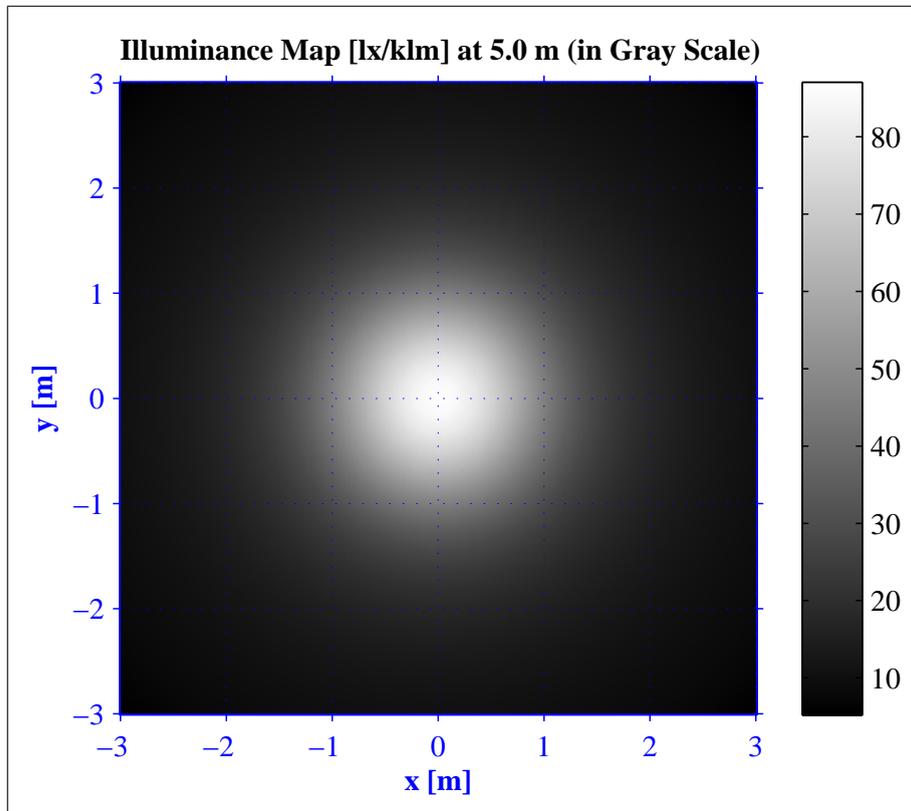
NOTES:

- Intensity ( $I$ ) and illuminance ( $E$ ) data are normalized by 1000 lm

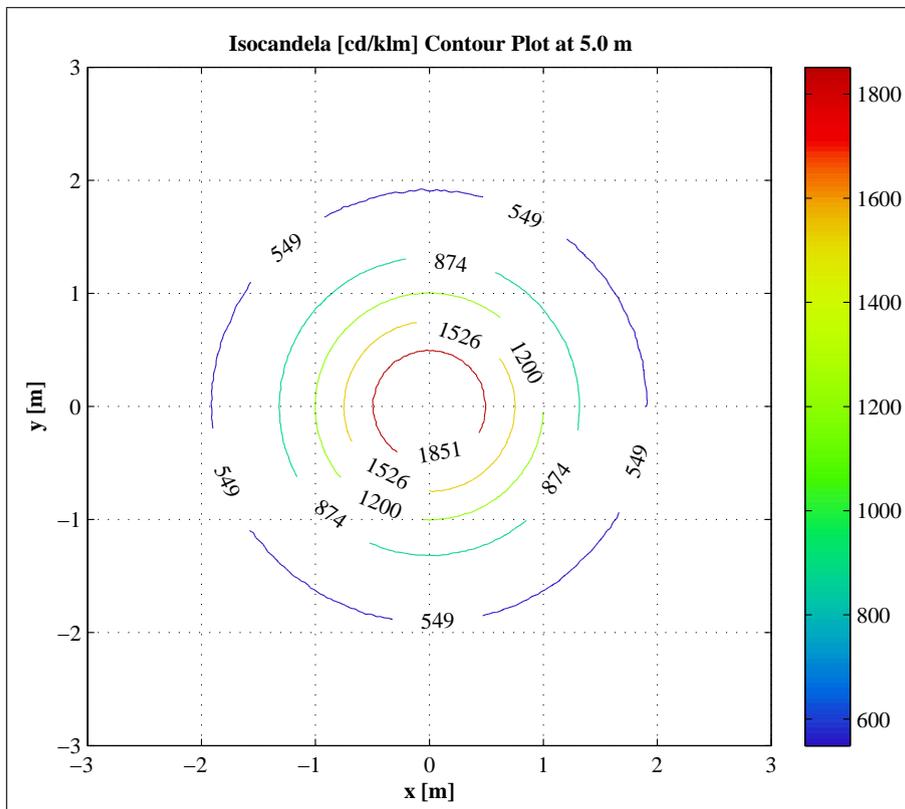
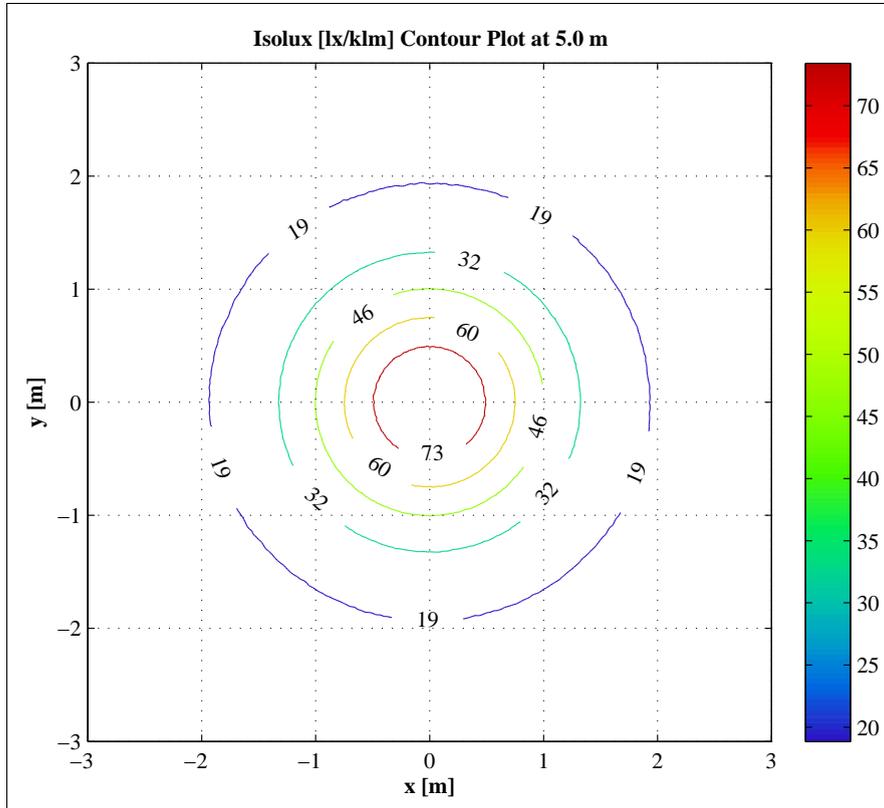
## 4 Intensity Plot



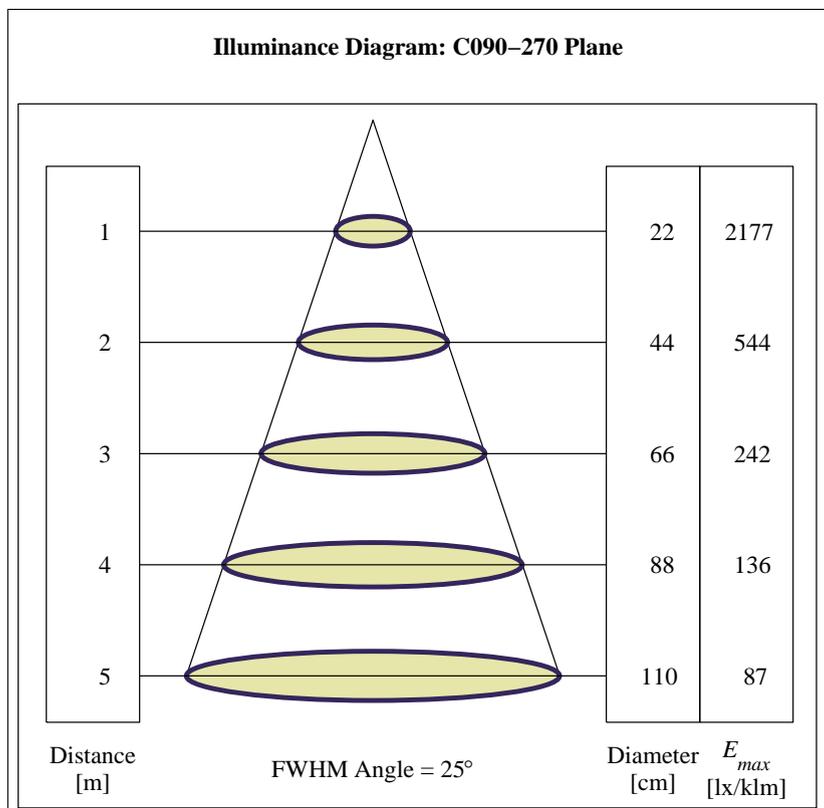
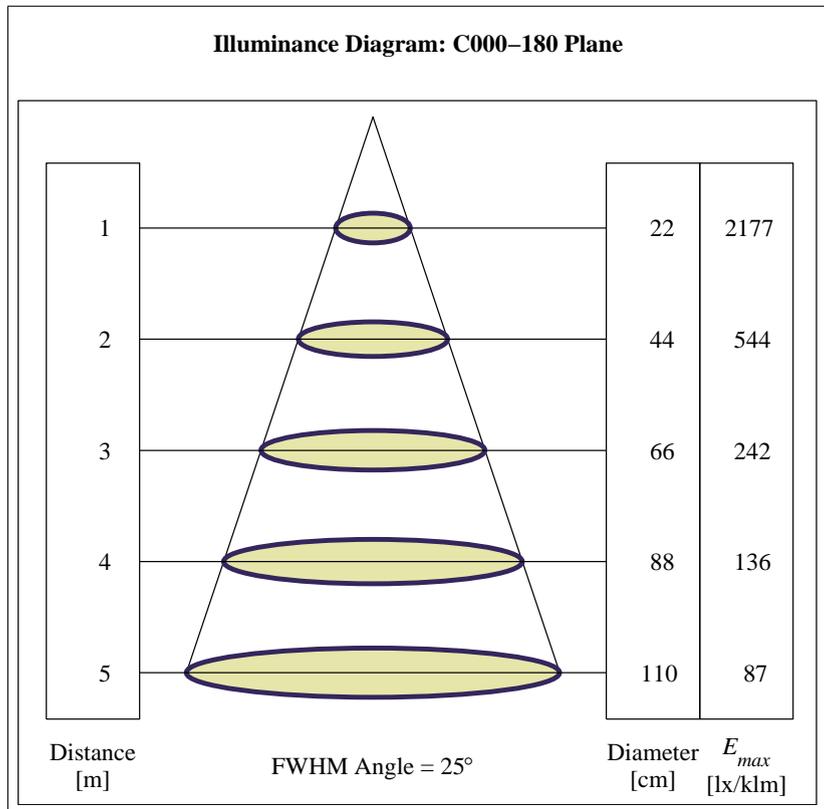
## 5 Illuminance Map



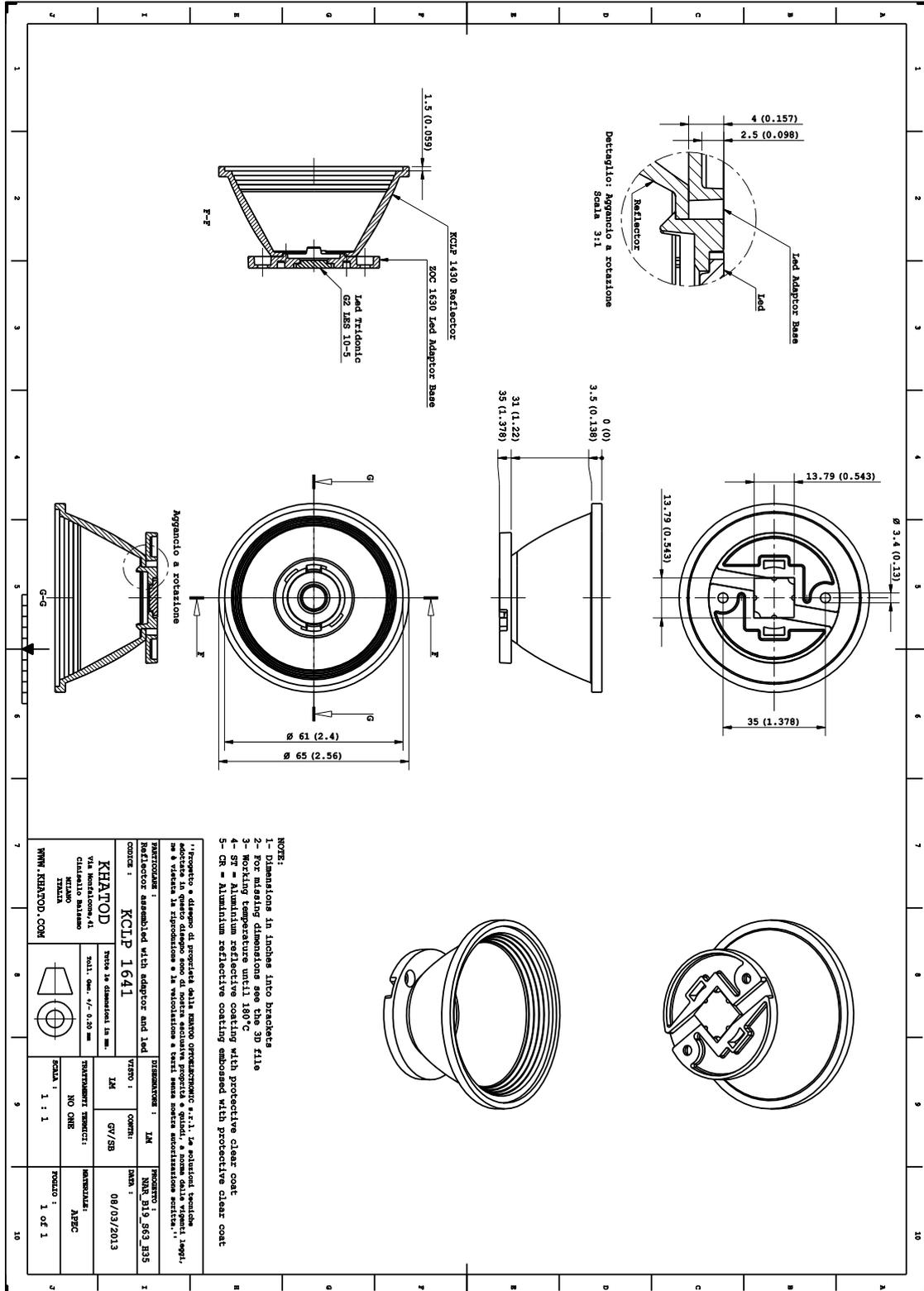
## 6 Isolux / Isocandela Plots



## 7 Illuminance Diagram



# 8 Drawing



## 9 Materials

Material	T <sub>op</sub>	T <sub>stg</sub>
PMMA	-40°...85°C	-40°...85°C
PC	-40°...120°C	-40°...120°C
PC + Aluminum Coating with protective Clear Coat	-40°...120°C	-40°...120°C
APEC + Aluminum Coating with protective Clear Coat	-40°...180°C	-40°...180°C
ABS	-35°...70°C	-35°...70°C

## 10 Use and Maintenance

- DO NOT HANDLE OR INSTALL LENSES WITHOUT WEARING GLOVES, SKIN OILS MAY DAMAGE LENS OR LIGHT TRANSMISSION;
- CLEAN LENSES WITH MILD SOAP AND WATER AND A SOFT CLOTH;
- DO NOT USE ANY COMMERCIAL CLEANING SOLVENTS ON LENSES.

## 11 Disclaimer

Please note that flow lines and weld lines on the external surfaces of the lenses are acceptable if the optical performance of the lens is within the specification described in the section Results on page 3. Should you require further information, please contact Khatod for advice. All lens testing must be subject to identical conditions as Khatod test condition.

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