KHATOD®
Optical Solutions for LED Lighting

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Test Report

Number: 130000002117

Optics: KEPL1359A20

Source: LUMILEDS LUXEON T

Contents

1 Light Source Model 3

2 Measurement Setup 3

3 Results 3

4 Intensity Plot 4

5 Illuminance Map 5

6 Isolux / Isocandela Plots 6

7 Illuminance Diagram 7

8 Drawing 8

9 Materials 9

10 Use and Maintenance 9

11 Disclaimer 9

1 Light Source Model

Parameter	Symbol	Value	Unit
Lens / Reflector Model	-	KEPL1359A20	-
Material (More info on page 9)	-	PMMA	-
Dimensions	-	See page 8	-
Source Model	-	LUMILEDS LUXEON T	-
Number of Sources	N	1	-
Driving Current	I_F	-	mA
Nominal Flux	Φ	220×1	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	-	2013-Jun-06	-

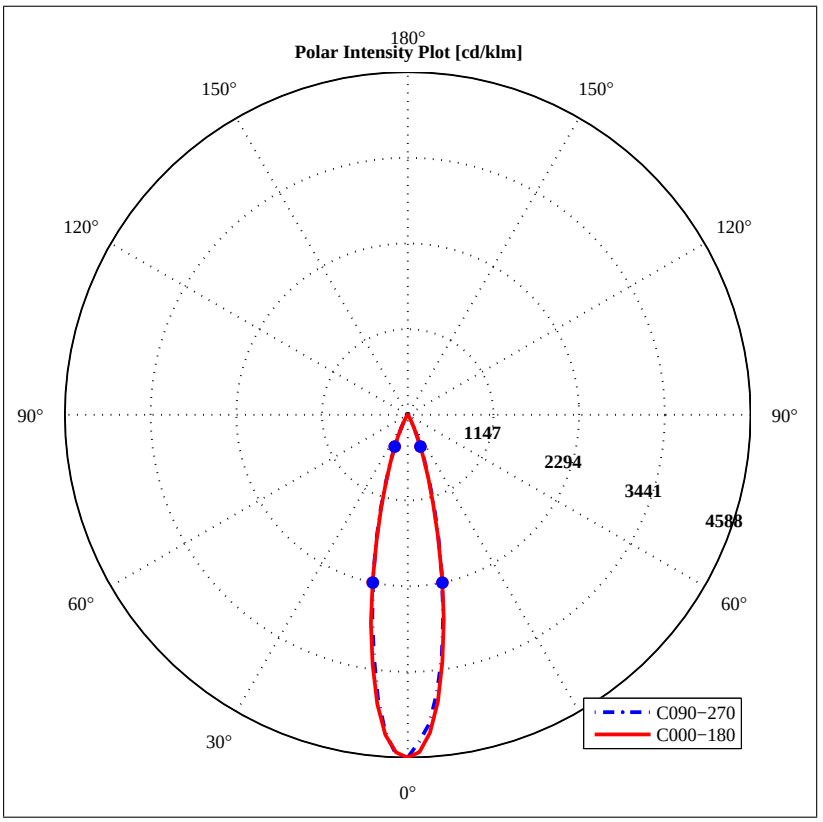
3 Results

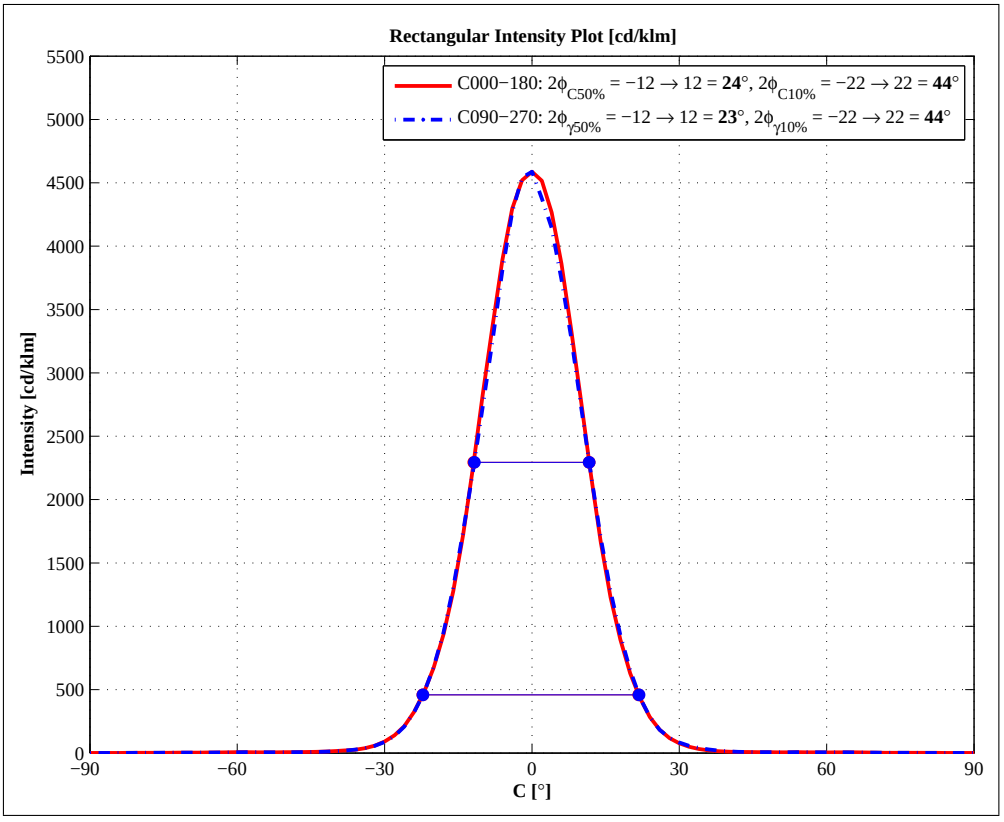
Parameter	Symbol	Value	Unit
Total Flux	Φ	220	lm
Max Intensity	I_{max}	1009	cd
Max Illuminance at 5 m	E_{max}	40	lx
C-Viewing Angle at 50%I_{max}	$2\varphi_C$	24	°
γ-Viewing Angle at 50%I_{max}	$2\varphi_\gamma$	23	°
C-Viewing Angle at 10%I_{max}	$2\varphi_{C10\%}$	44	°
γ-Viewing Angle at 10%I_{max}	$2\varphi_{\gamma 10\%}$	44	°
General Optical Measurement Tolerance	-	±10%	-

NOTES:

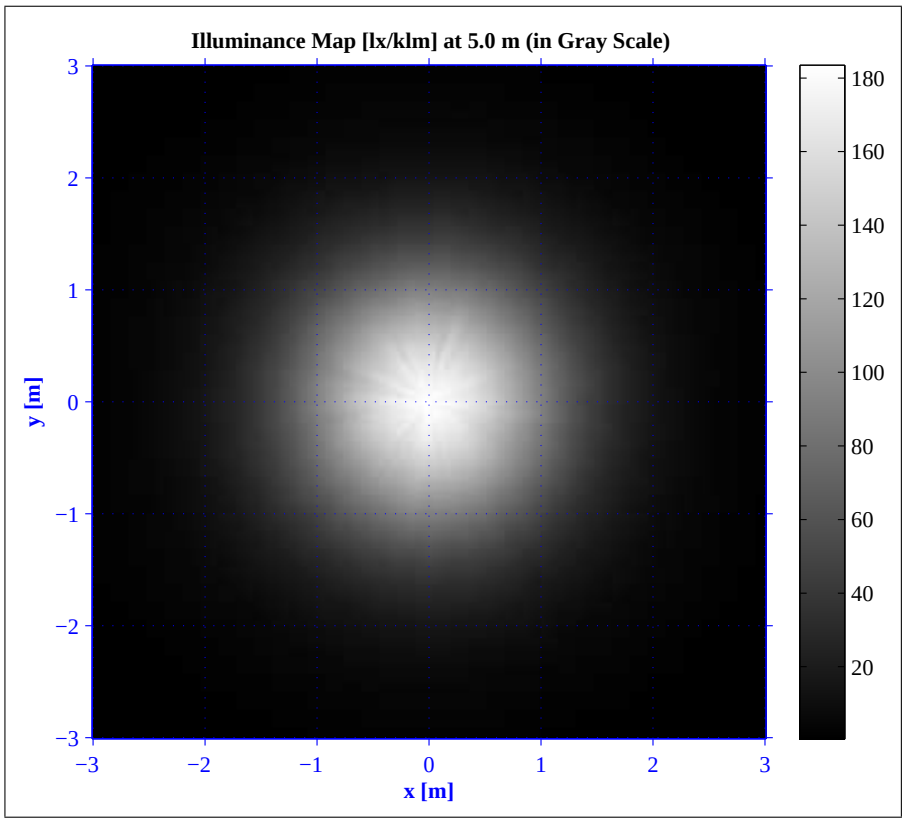
- Intensity (I) and illuminance (E) data are normalized by 1000 lm
- The optical values shown are the result of optical simulations carried out with ASAP and ZEMAX software systems. The optical simulations are carried out on the basis of the typical values provided in the LED manufacturers' official datasheets. The photometric analysis has been carried out on physical samples. On request, by supplying your PCB, we can provide the measurement photometric file.

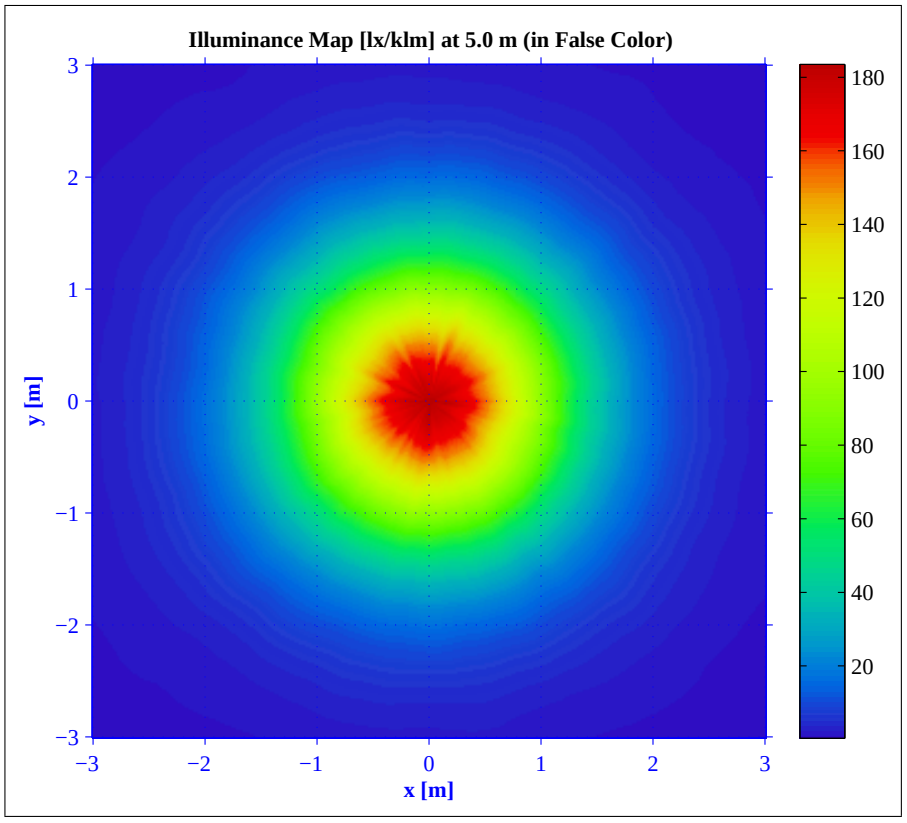
4 Intensity Plot



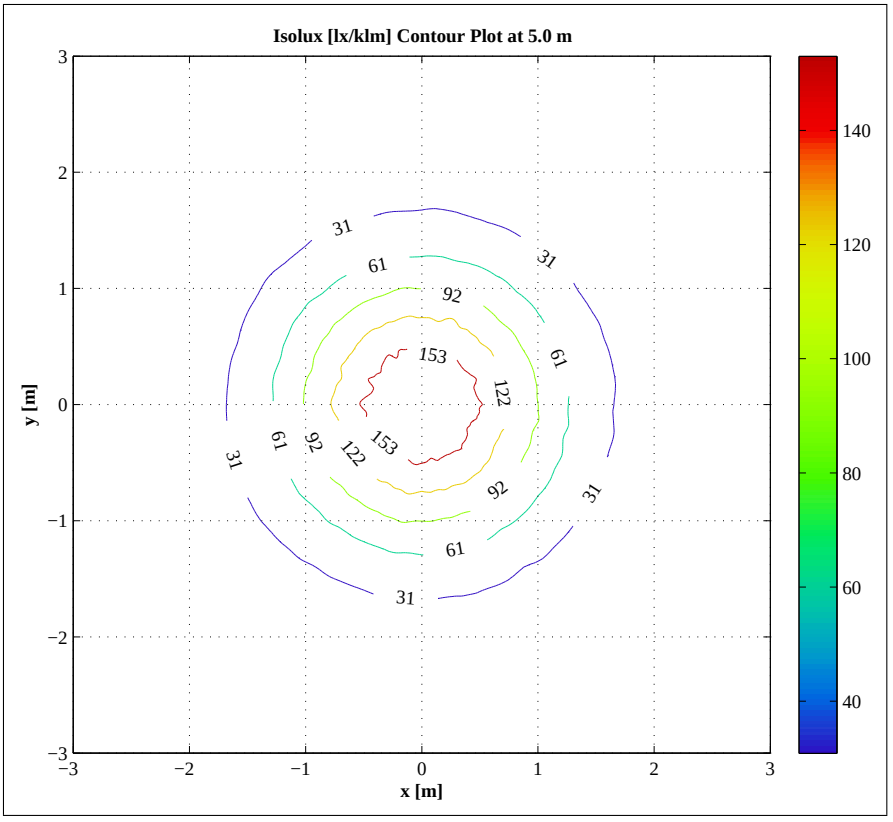


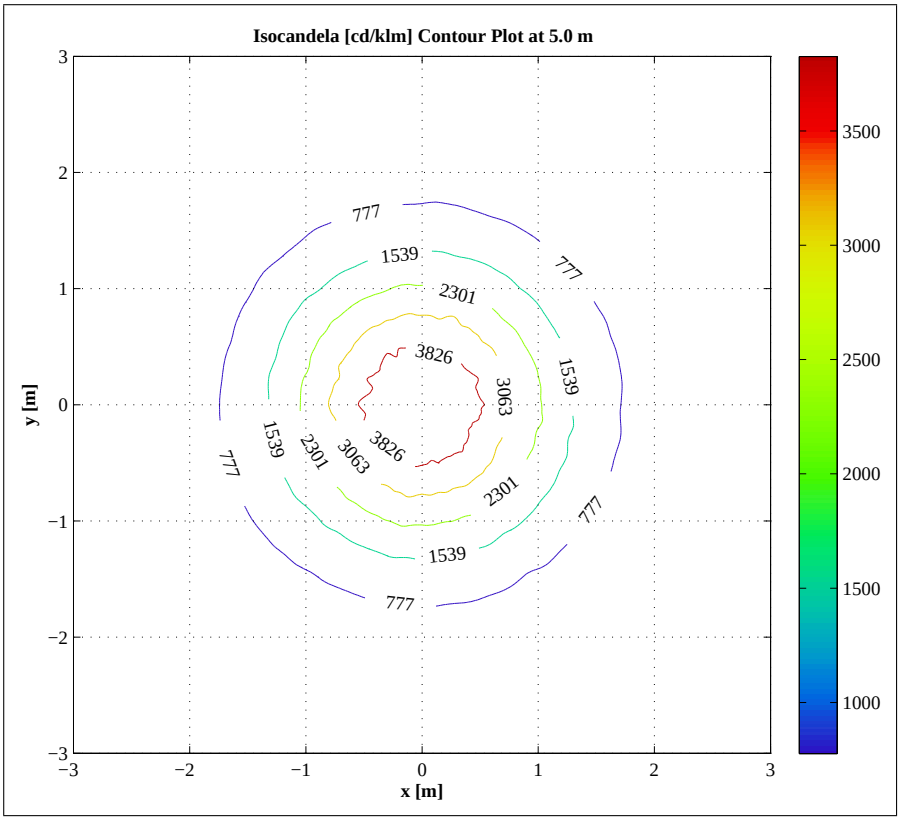
5 Illuminance Map



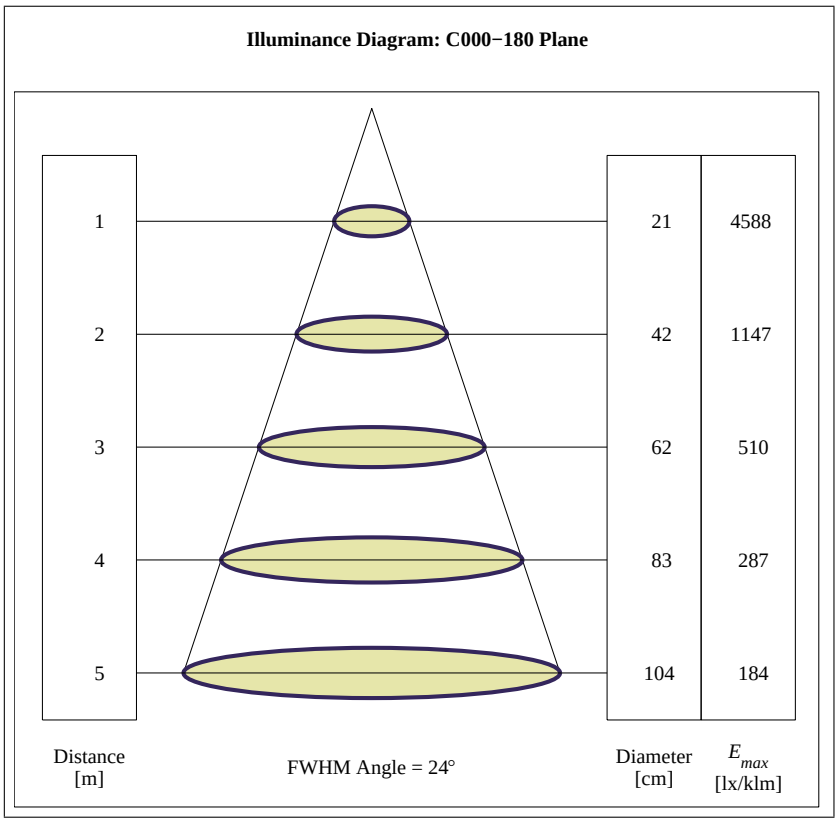


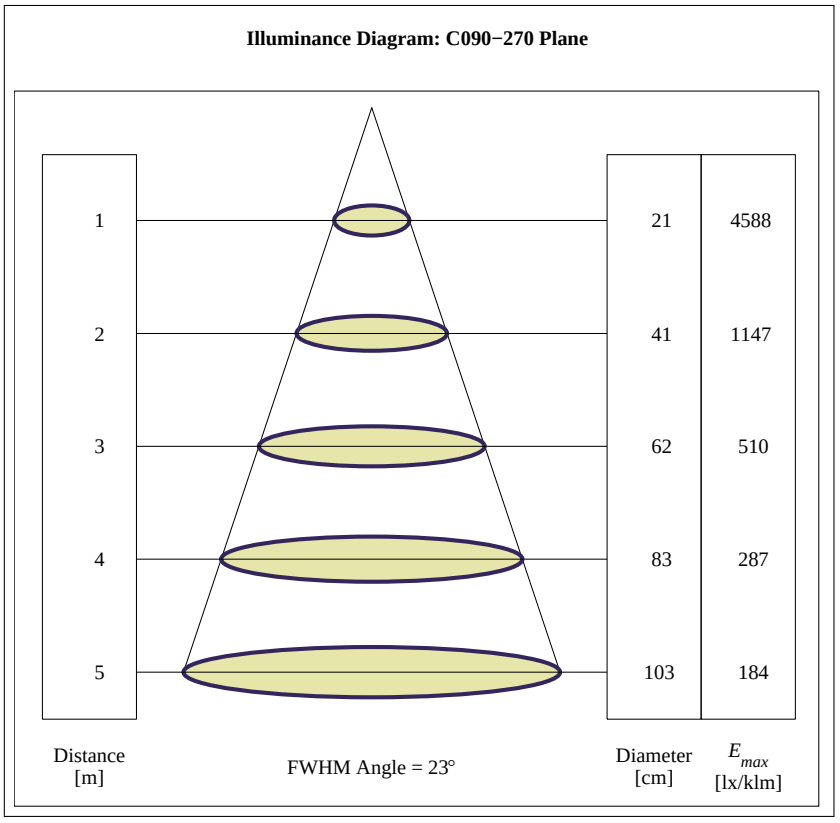
6 Isolux / Isocandela Plots



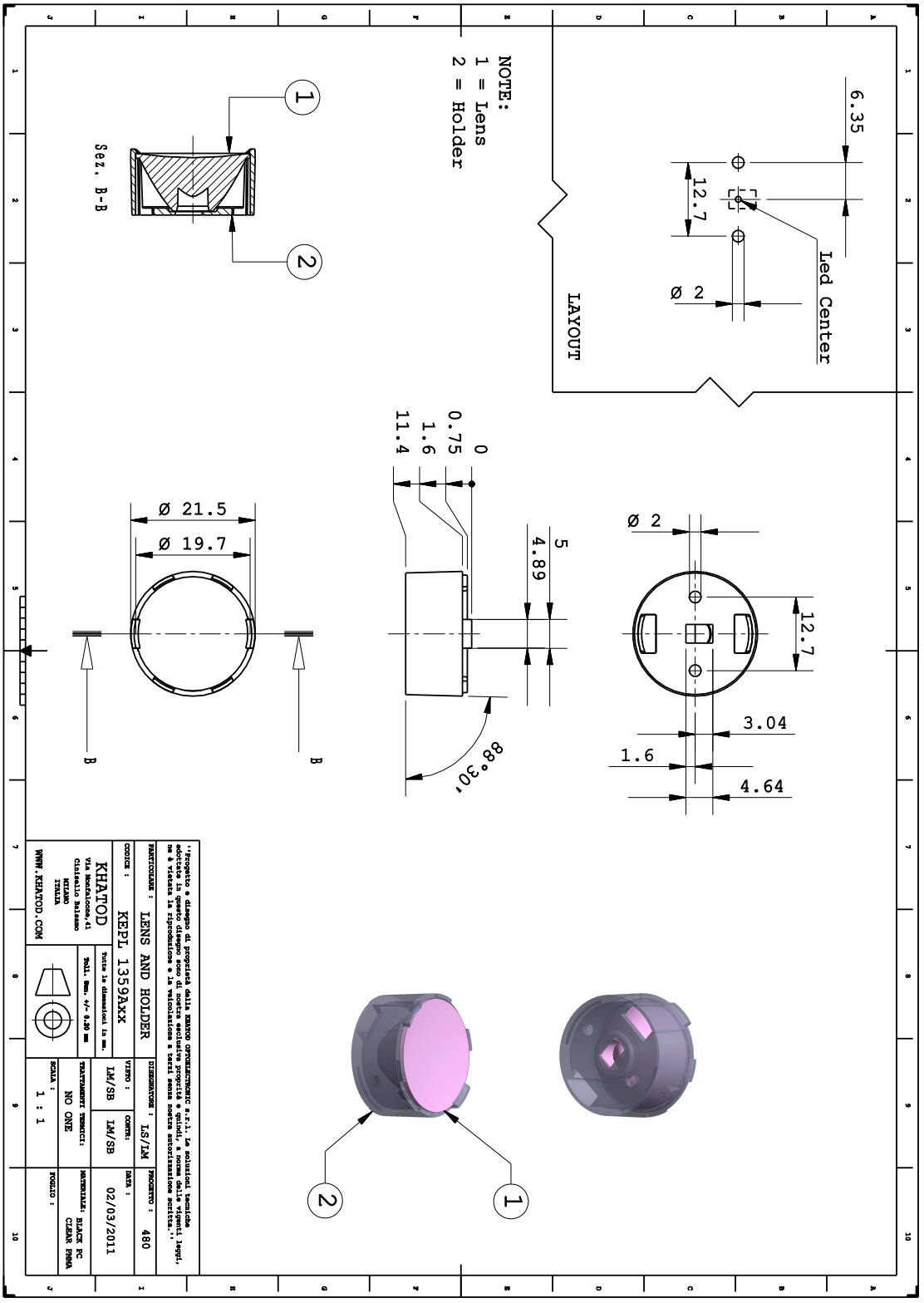


7 Illuminance Diagram





8 Drawing


NOTE:
1 = Lens
2 = Holder
Sez. B-B
LAYOUT
6.35
12.7
Led Center
Ø 2
Ø 21.5
Ø 19.7
0
0.75
1.6
11.4
5
4.89
88°30'
Ø 2
12.7
3.04
1.6
4.64
B
B
1
2
2
1
KHATOD
Optical Solutions for LED Lighting
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ITALIA
WWW.KHATOD.COM
CODICE : KEPL 1359Axx
PARTICOLARE : LENS AND HOLDER
DISEGNATORE : LS/LM
PROGETTO : 480
VETRO : LM/SB
CONTR. LM/SB
DATA : 02/03/2011
TRATTAMENTI TERMICI: NO ONE
MATERIALE: BLACK PC CLEAR RESIN
SCALA : 1 : 1
FOGLIO :
Tutte le dimensioni in mm.
Tol. Gen. +/- 0.20 mm

9 Materials

Material	T_{op}	T_{stg}
PMMA	−40°···85°C	−40°···85°C
PC	−40°···120°C	−40°···120°C
SILICONE	−40°···200°C	−40°···200°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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