KHATOD®
Optical Solutions for LED Lighting

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Test Report

Number: 170000000708

Optics: PIXEL06

Source: CREE XB-H

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1 Light Source Model

Parameter	Symbol	Value	Unit
Lens / Reflector Model	-	PIXEL06	-
Material (More info on page 8)	-	PC + Al + Protective Coatings	-
Dimensions	-	See page 7	-
Source Model	-	CREE XB-H	-
Number of Sources	N	6	-
Power Supply Type	-	ISO TECH ISP3303	-
Driver Type	-	-	-
Driving Voltage	V_F	-	V
Driving Current	I_F	-	mA
Nominal Flux	Φ	240×6	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	-	2017-Jun-30	-

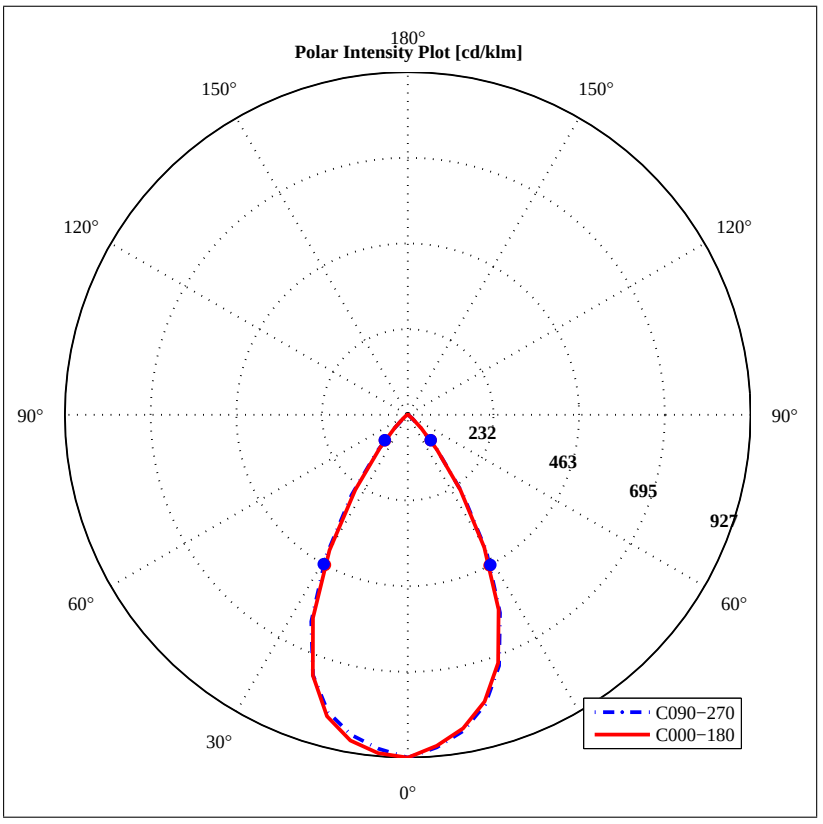
3 Results

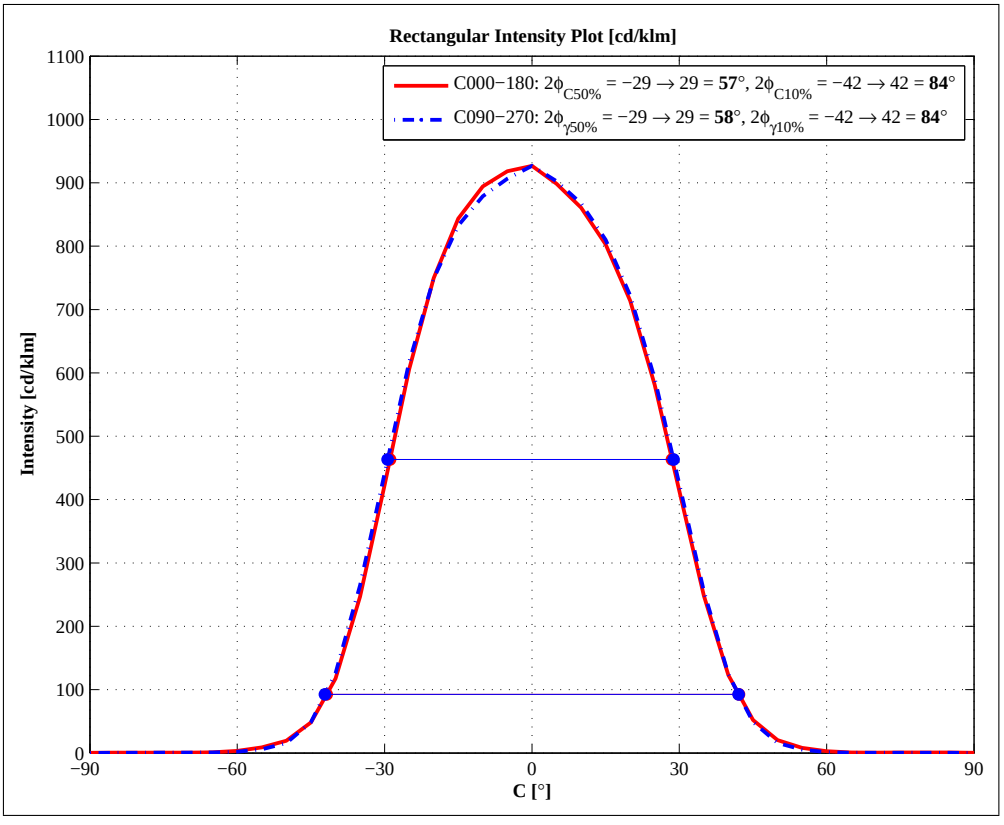
Parameter	Symbol	Value	Unit
Total Flux	Φ	1440	lm
Max Intensity	I_{max}	1339	cd
Max Illuminance at 5 m	E_{max}	53	lx
C-Viewing Angle at 50%I_{max}	$2\varphi_C$	57	°
γ-Viewing Angle at 50%I_{max}	$2\varphi_\gamma$	58	°
C-Viewing Angle at 10%I_{max}	$2\varphi_{C10\%}$	84	°
γ-Viewing Angle at 10%I_{max}	$2\varphi_{\gamma 10\%}$	84	°
General Optical Measurement Tolerance	-	±10%	-

NOTES:

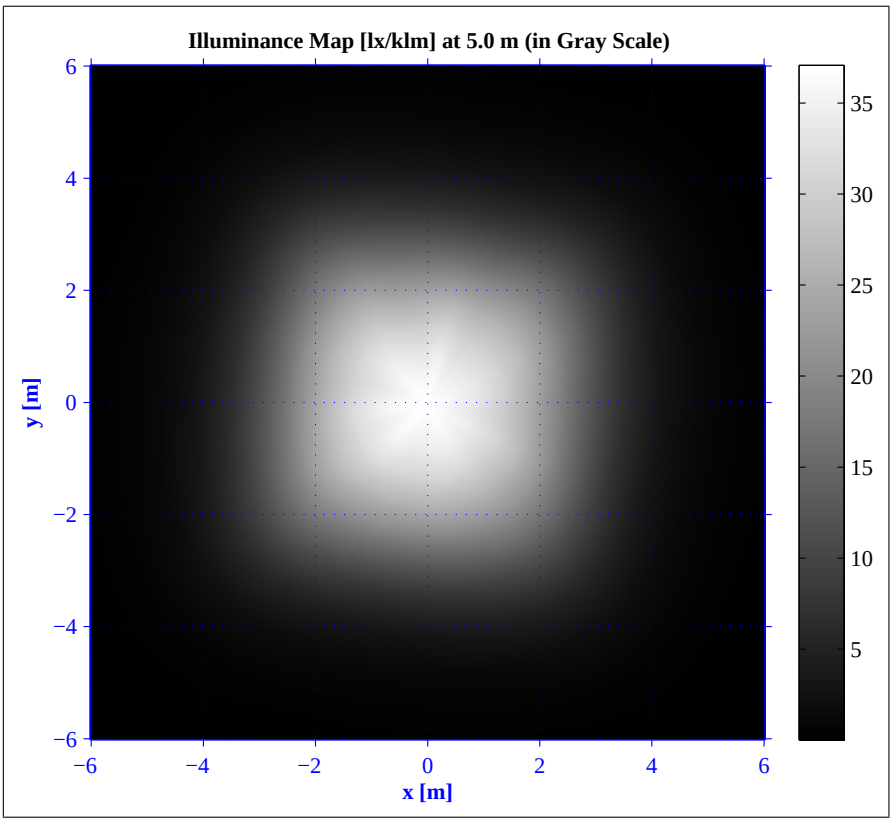
- Intensity (I) and illuminance (E) data are normalized by 1000 lm

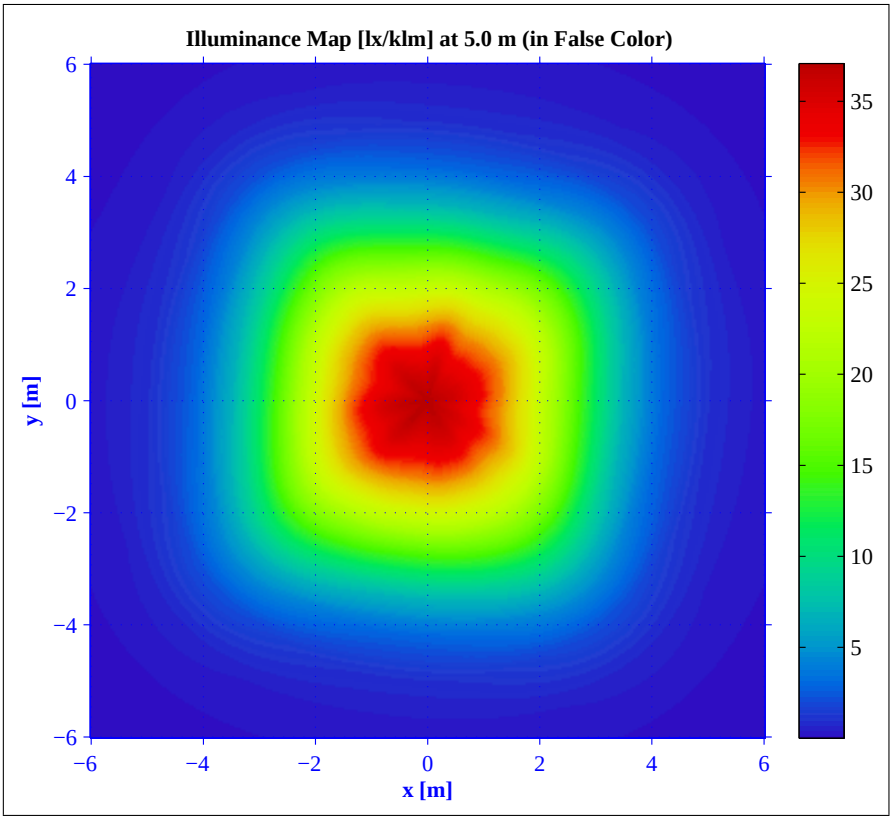
4 Intensity Plot



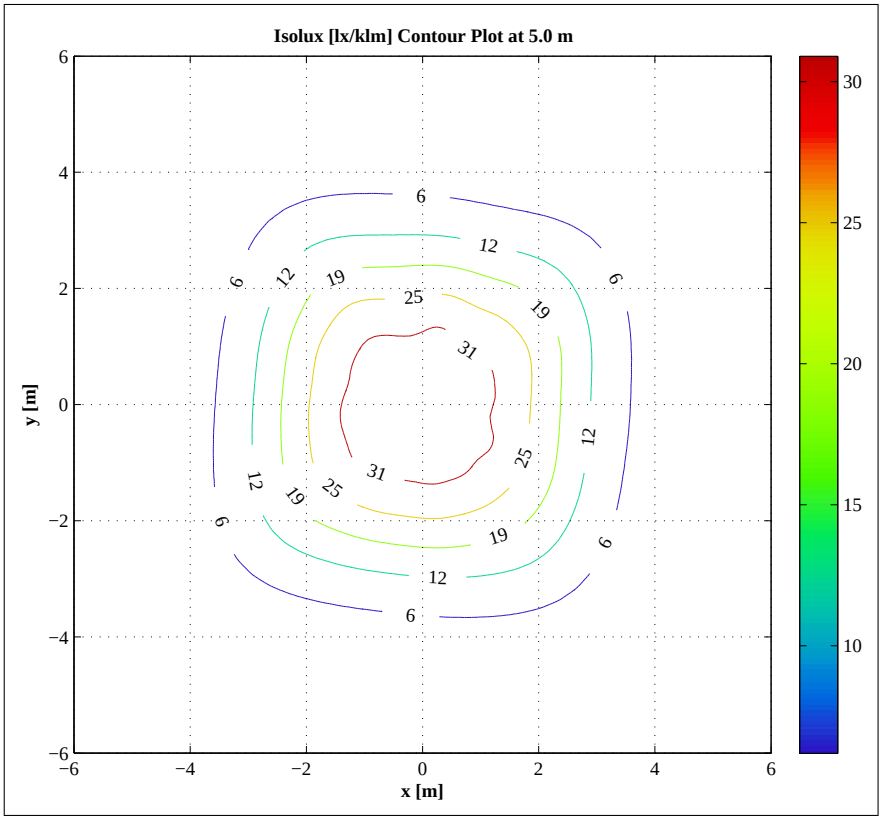


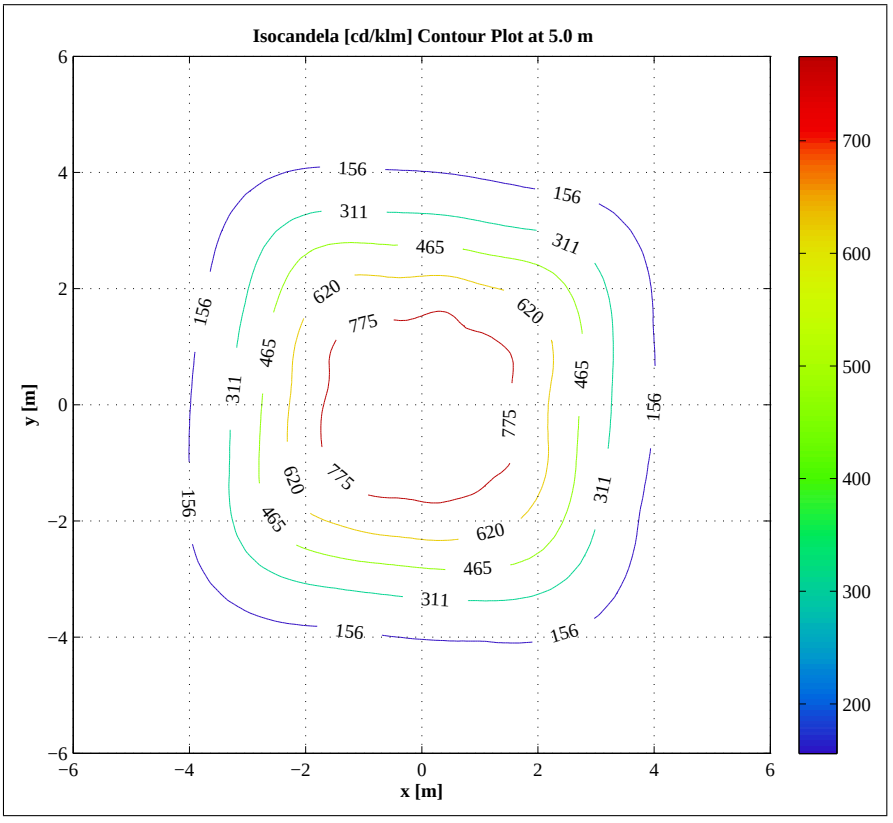
5 Illuminance Map



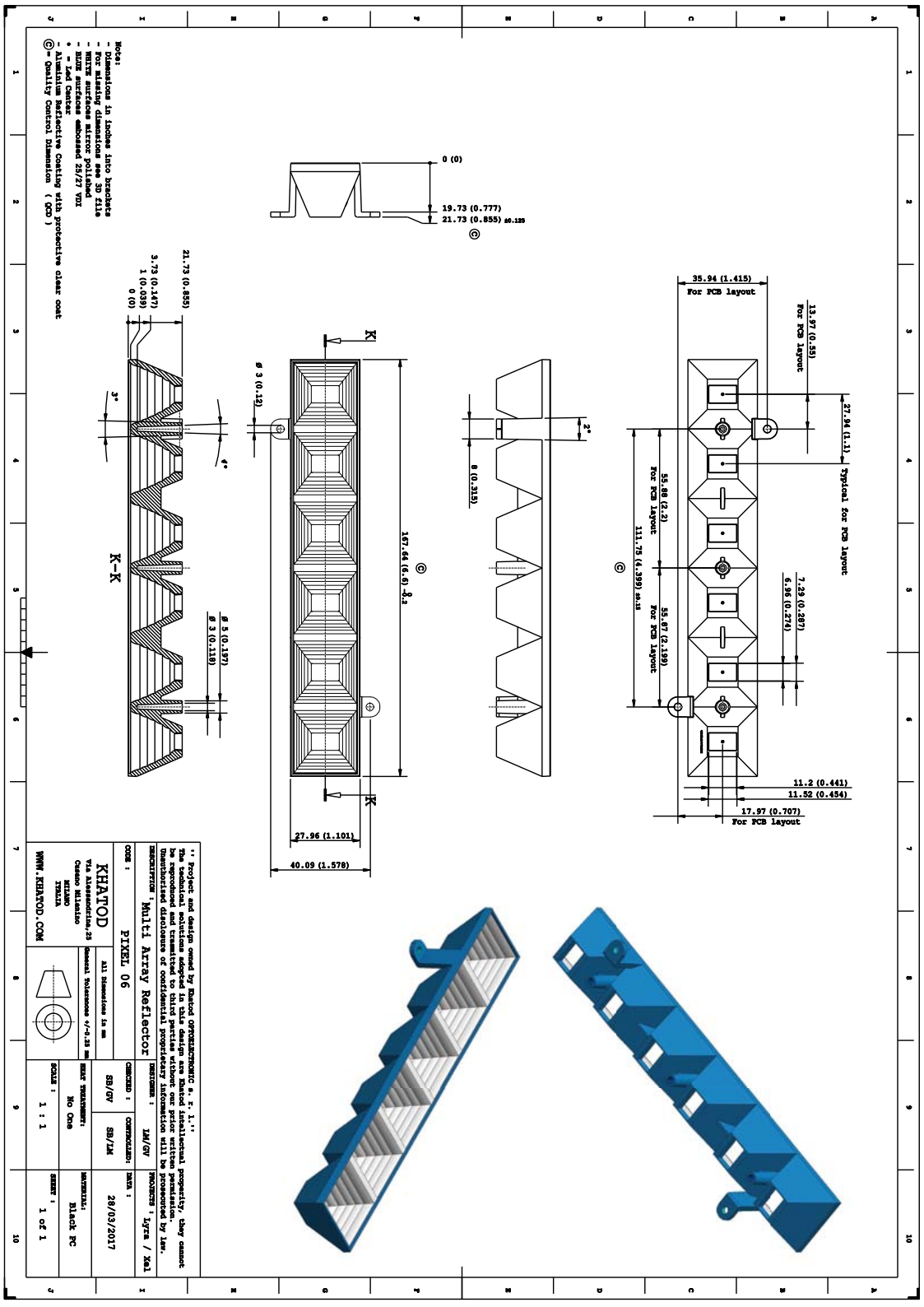


6 Isolux / Isocandela Plots





7 Drawing


Note:
- Dimensions in inches into brackets
- For mating dimensions see 3D file
- WHITE surfaces mirror polished
- BLUE surfaces embossed 25/27 VDI
- = Led Center
- Aluminium Reflective Coating with protective clear coat
© = Quality Control Dimension (QCD)
0 (0)
19.73 (0.777)
21.73 (0.855) ±0.125
21.73 (0.855)
3.73 (0.147)
1 (0.039)
0 (0)
3°
4°
K-K
ø 3 (0.12)
ø 5 (0.197)
ø 3 (0.118)
187.44 (6.6) ±0.2
27.96 (1.101)
40.09 (1.578)
2°
8 (0.315)
35.94 (1.415)
For PCB layout
13.97 (0.55)
For PCB layout
27.94 (1.1)
Typical for PCB layout
55.88 (2.2)
For PCB layout
111.75 (4.399) ±0.15
55.67 (2.199)
For PCB layout
2.29 (0.287)
6.96 (0.274)
11.2 (0.441)
11.52 (0.454)
17.97 (0.707)
For PCB layout
'' Project and design owned by Khatod OPTOELECTRONIC S. r. l.''
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be reproduced and transmitted to third parties without our prior written permission.
Unauthorized disclosure of confidential proprietary information will be prosecuted by law.
DESCRIPTION : Multi Array Reflector
CODE : PIXEL 06
All Dimensions in mm
General Tolerances +/-0.25 mm
CHECKED : SB/GV
CONTROLLED: SB/AM
DRAWN : LM/GV
DATA : 28/03/2017
HEAT TREATMENT: No One
MATERIAL: Black PC
SCALE : 1 : 1
SHEET : 1 of 1
PROJECT : Lyra / Xal
KHATOD
Via Alessandrina,25
Cusano Milanino
MILANO
ITALIA
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8 Materials

Material	T_{op}	T_{stg}
PMMA	−40°···85°C	−40°···85°C
PMMA HT	−40°···110°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
SILICONE	−45°···150°C	−45°···150°C

9 Use, Maintenance, and Disclaimer

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.

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.

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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