

KHATOD[®]

Optical Solutions for LED Lighting

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Test Report

Number: 160000000333

Optics: KCLP1277CR

Source: CREE XP-G3

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1 Light Source Model

Parameter	Symbol	Value	Unit
Lens / Reflector Model	-	KCLP1277CR	-
Material (More info on page 8)	-	APEC + Al + Protective Coatings	-
Dimensions	-	See page 7	-
Source Model	-	CREE XP-G3	-
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	Φ	160×1	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	-	2016-Jun-15	-

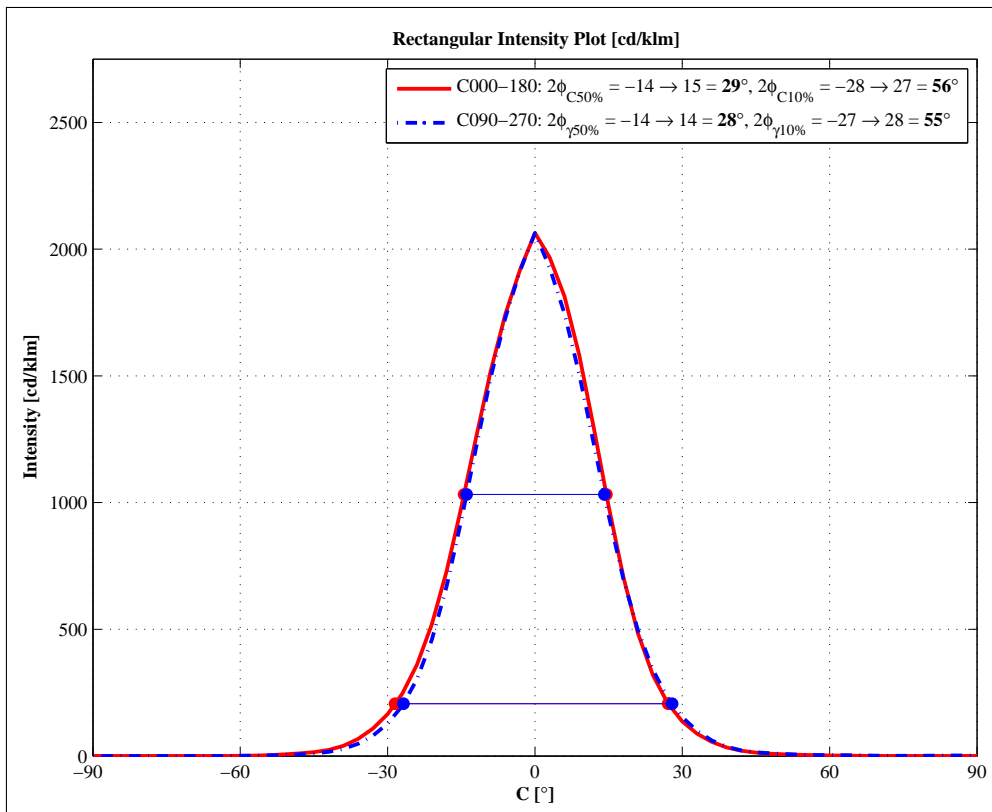
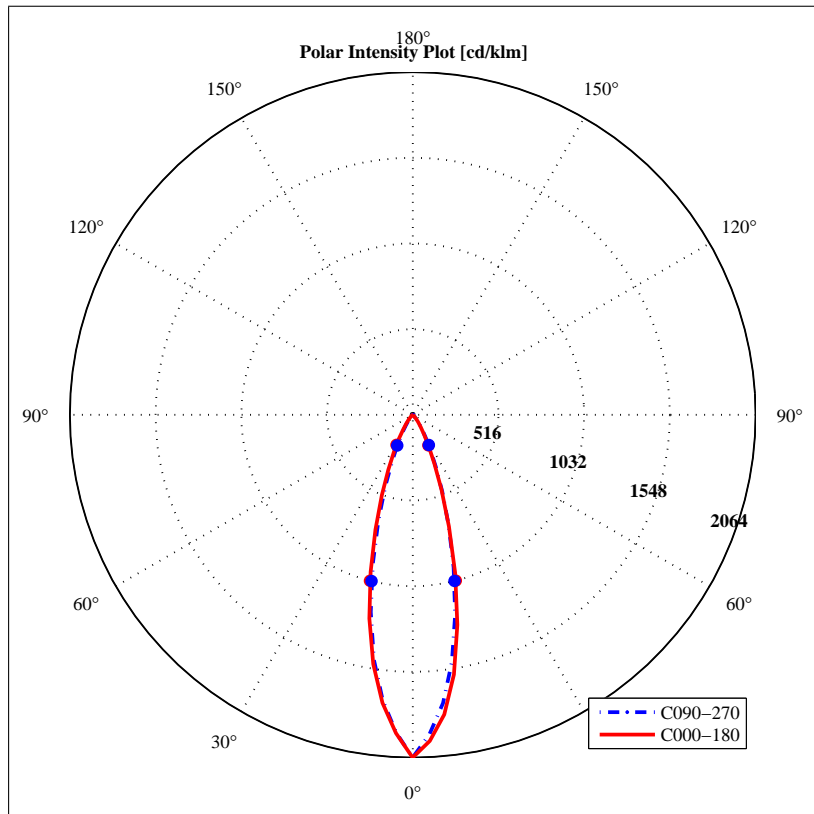
3 Results

Parameter	Symbol	Value	Unit
Total Flux	Φ	160	lm
Max Intensity	I_{\max}	330	cd
Max Illuminance at 5 m	E_{\max}	13	lx
C-Viewing Angle at 50% I_{\max}	$2\varphi_C$	29	°
γ -Viewing Angle at 50% I_{\max}	$2\varphi_\gamma$	28	°
C-Viewing Angle at 10% I_{\max}	$2\varphi_{C10\%}$	56	°
γ -Viewing Angle at 10% I_{\max}	$2\varphi_{\gamma10\%}$	55	°
General Optical Measurement Tolerance	-	±10%	-

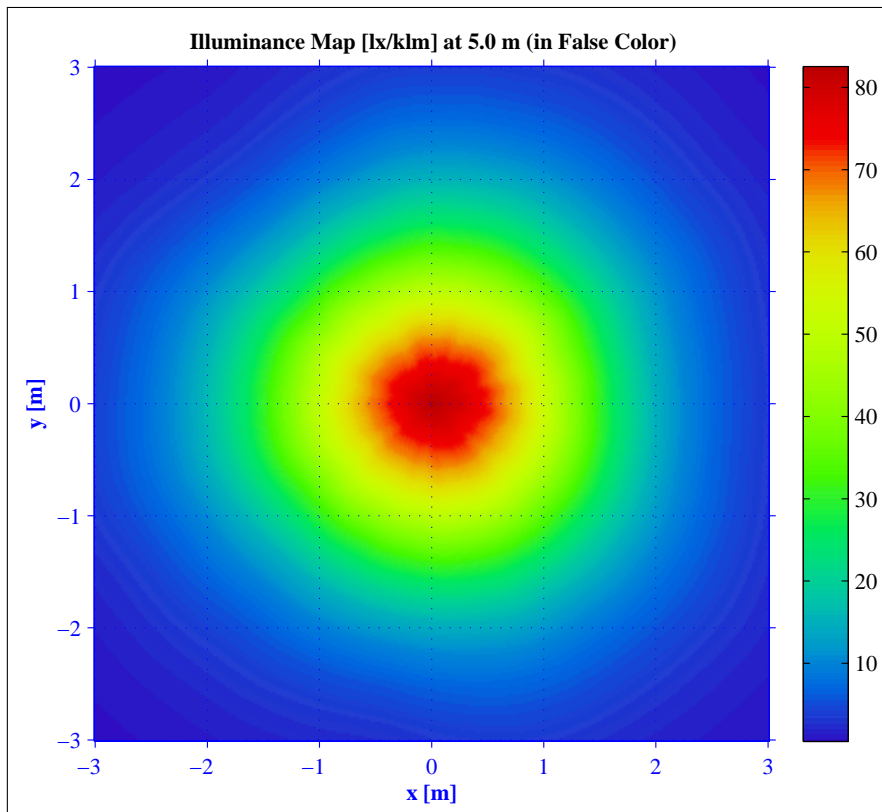
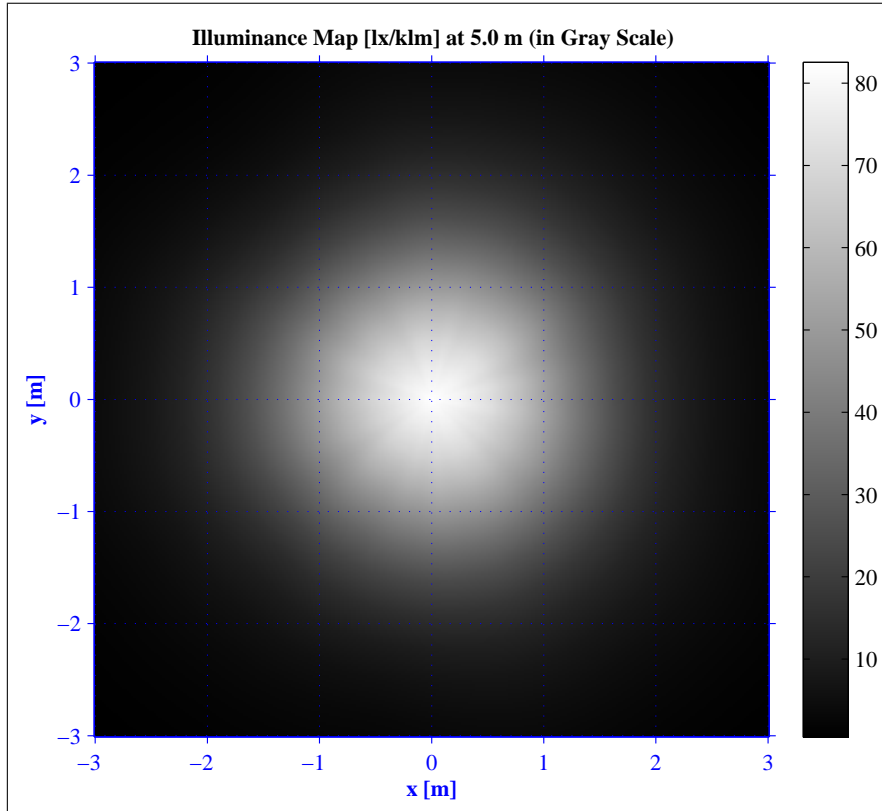
NOTES:

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

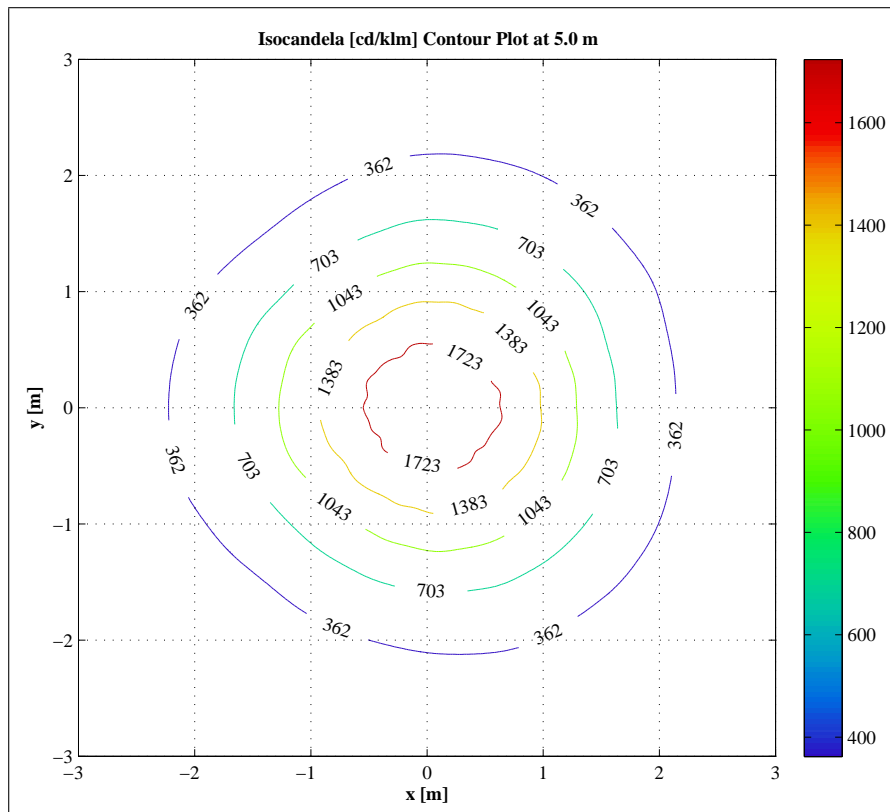
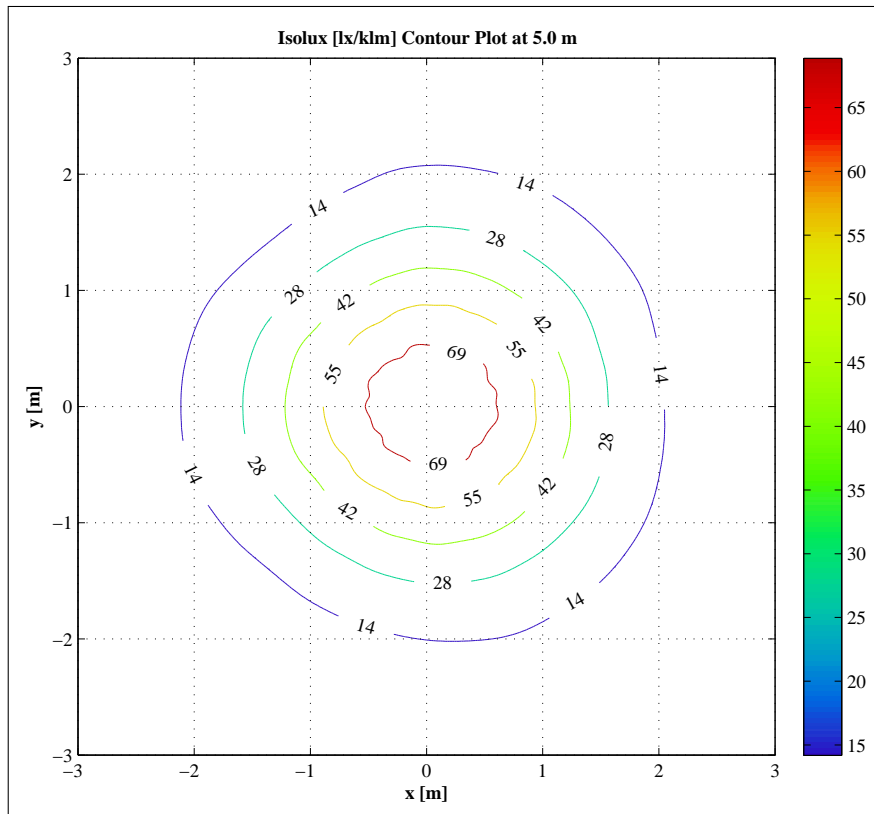
4 Intensity Plot



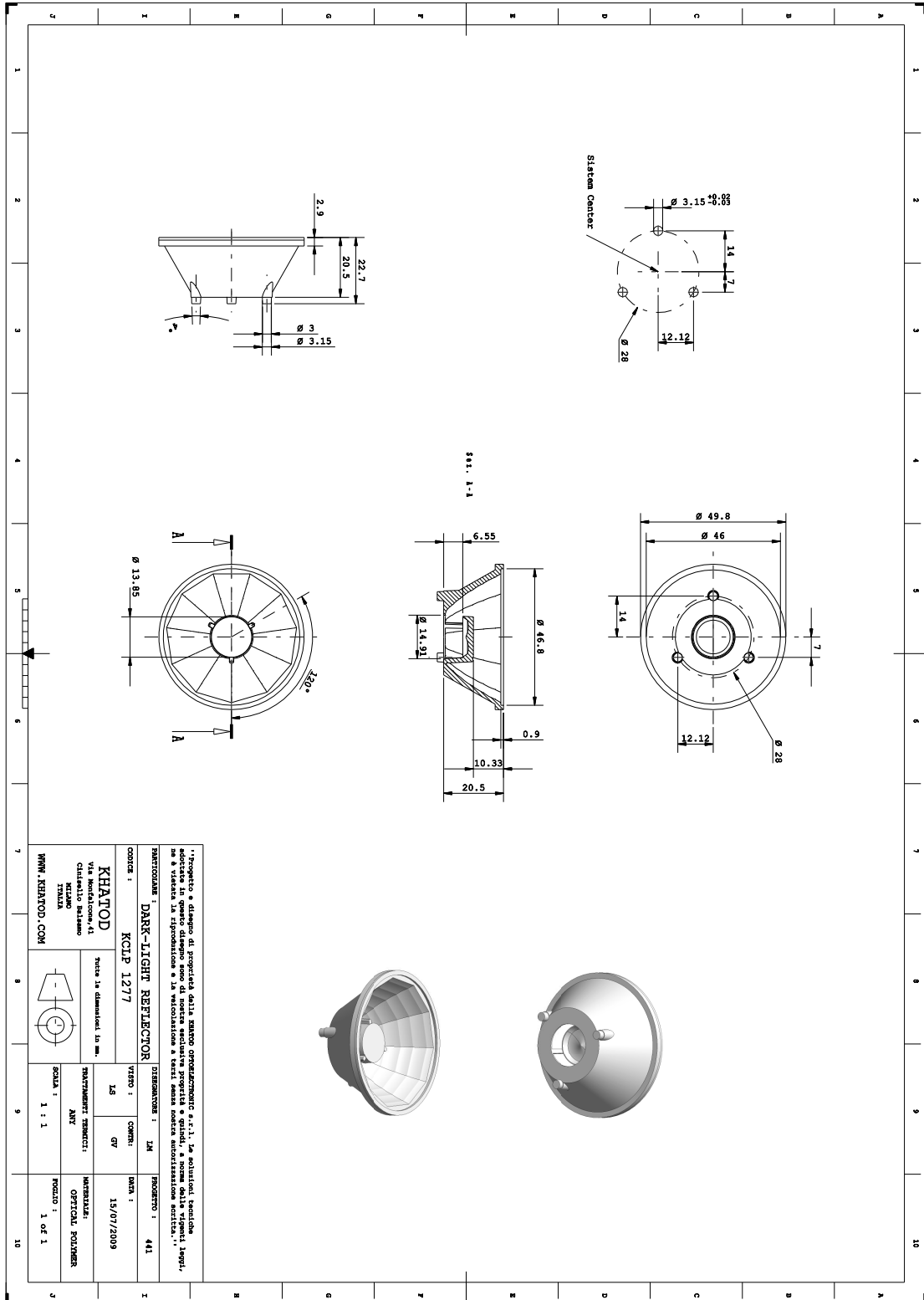
5 Illuminance Map



6 Isolux / Isocandela Plots



7 Drawing



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PARTICOLARE : DARK-LIGHT REFLECTOR		DISEGNO : IM		PROGETTO : 441	
CODICE : KCLP 1277		VITINO : L4		DATA : 15/07/2009	
Khatod Via Montalione, 41 Castello Salsomaggiore ITALIA WWW.KHATOD.COM		TRATTAMENTI SPECIFICI : ANV		MATERIALE : OPTICAL POLYMER	
Scala : 1 : 1		FOGLIO : 1 of 1			

8 Materials

Material	T _{op}	T _{stg}
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
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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