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Test Report

Number: 17000000739 Optics: PIXEL06 Source: NICHIA NCSL119BT-V1(R70)



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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 Coat-	-
		ings	
Dimensions	-	See page 7	-
Source Model	-	NICHIA NCSL119BT-	-
		V1(R70)	
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	143×6	lm

2 Measurement Setup

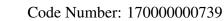
Parameter	Symbol	Value	Unit
Operator	-	Simone Bassi	-
Goniophotometer Type	-	KLX12M	-
Measurement Distance	Z.	5	m
Room Temperature	Т	25	°C
Date	-	2017-Jun-30	-

3 Results

Parameter	Symbol	Value	Unit
Total Flux	Φ	858	lm
Max Intensity	I _{max}	799	cd
Max Illuminance at 5 m	E _{max}	32	lx
C-Viewing Angle at 50% <i>I</i> _{max}	2φ _C	56	0
γ -Viewing Angle at 50% I_{max}	2φ _γ	55	0
C-Viewing Angle at 10% <i>I</i> _{max}	2φ _{C10%}	85	0
γ -Viewing Angle at 10% I_{max}	$2\phi_{\gamma 10\%}$	85	0
General Optical Measurement Tolerance	-	±10%	-

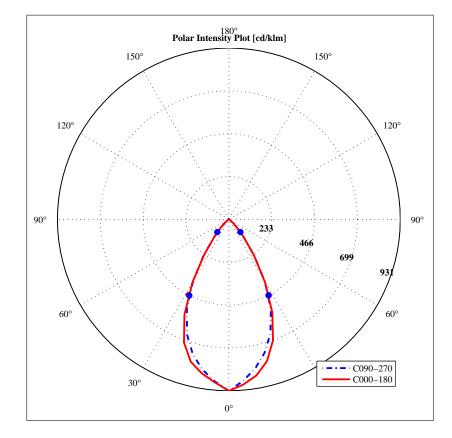
NOTES:

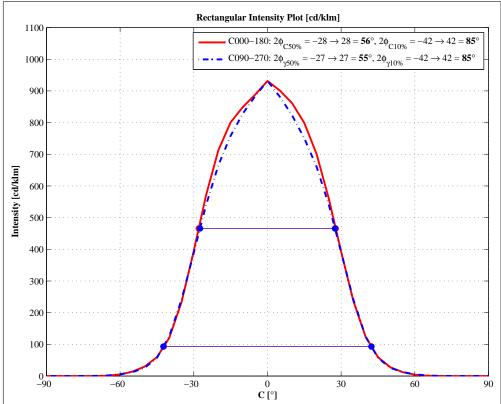
• Intensity (I) and illuminance (E) data are normalized by 1000 lm



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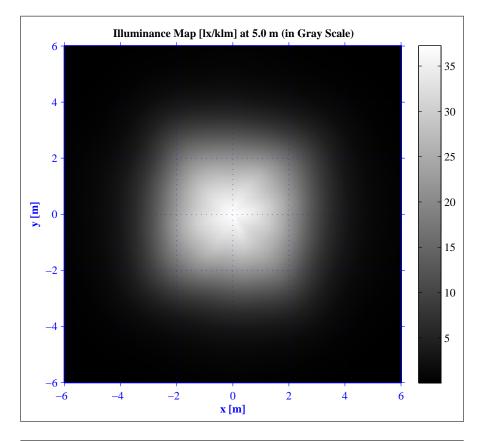
4 Intensity Plot

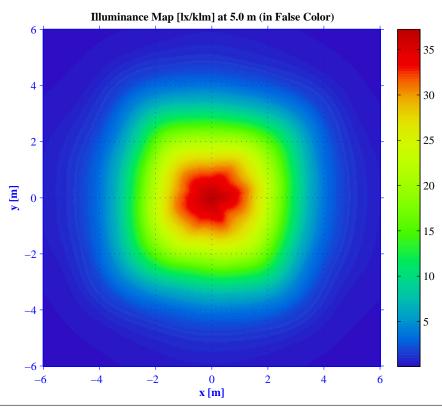






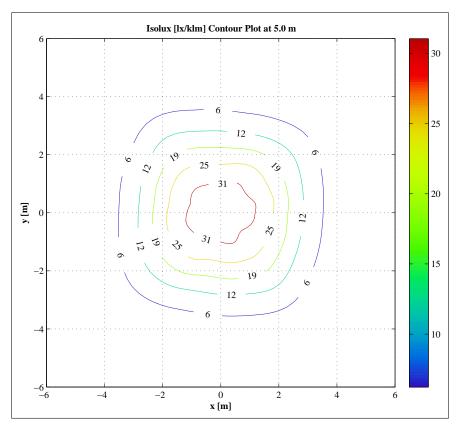
5 Illuminance Map

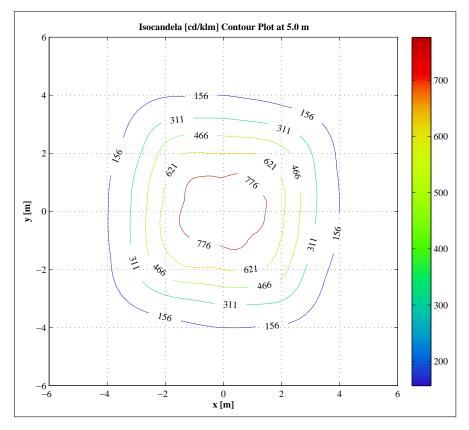






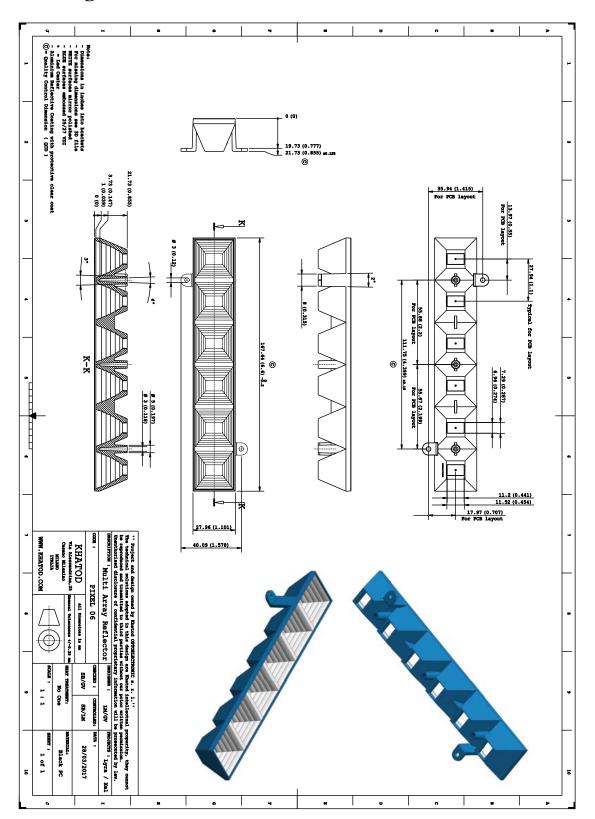
6 Isolux / Isocandela Plots







7 Drawing





8 Materials

Material	T _{op}	T _{stg}
PMMA	$-40^{\circ} \cdots 85^{\circ} C$	$-40^{\circ} \cdots 85^{\circ} C$
PMMA HT	$-40^{\circ}\cdots 110^{\circ}C$	$-40^{\circ} \cdots 85^{\circ} C$
PC	$-40^{\circ}\cdots 120^{\circ}C$	$-40^{\circ}\cdots 120^{\circ}C$
PC + Aluminum Coating with	$-40^{\circ}\cdots 120^{\circ}C$	$-40^{\circ}\cdots120^{\circ}C$
protective Clear Coat		
APEC + Aluminum Coating	$-40^{\circ}\cdots 180^{\circ}C$	$-40^{\circ}\cdots 180^{\circ}C$
with protective Clear Coat		
ABS	$-35^{\circ}\cdots70^{\circ}C$	$-35^{\circ}\cdots70^{\circ}\mathrm{C}$
SILICONE	$-45^{\circ}\cdots150^{\circ}C$	−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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