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CODE NUMBER: 120000000953

SUBJECT: KCLP1473ST - Reflector for Power LEDs



Images shown above is Indicative only

- Fit for major COB LEDs
- Made in PCHT for special coating treatment
- Innovative vacuum coating treatment, specific for optical reflector systems
- High lighting efficiency over 85%
- Excellent luminous flux
- Innovative design
- Easy fixing onto the PCB by twist & lock block system
- Complying with UL94 Specifications
- Complying with Zhaga Standards

Typical Applications:

KCLP series is suitable for any application in Wide Area Lighting, Indoor and Outdoor:

- Industrial Lighting : Warehouses, Laboratories, Sheds, Garages, Machine Shops, etc.
- Indoor Lighting : Outlets & Shop Centers, Exhibition Areas, Offices, Hospital Wards, Passages, Aisles, etc.
- Outdoor Lighting : Parking Areas, Pathways, Petrol & Service Stations, Gardens, Playgrounds, Canopies, etc.
- Architectural Lighting : Entertainment & Decorative, Shop Windows, Halls & Entrances, Lamps , etc.

The Optical Reflector Systems from Khatod ensure the highest lighting efficiency thanks to our exclusive vacuum coating plant, specific for optical treatments .

The new reflectors from Khatod are provided with a special adaptor, customized for the major COB LEDs, allowing an immediate easy assembling of the reflector by a simple twist & lock block system.

The concept is very simple: first the adaptor is fixed onto the PCB while the reflector is then fixed by simply twisting and locking it onto the adaptor.

The Optical Reflector Systems from Khatod assure the highest in design and the easiest in usability, and guarantee the most efficient and cost-effective optical solution

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1 Light Source Model

Parameter	Symbol	Value	Unit
Lens / Reflector Model	-	KCLP1473ST	-
Material (More info on page 9)	-	PC, ALUMINIUM	-
Dimensions	-	See page 8	-
Source Model	-	BRIDGELUX BXRA-W3000	-
Number of Sources	N	1	-
Power Supply Type	-	ISO TECH ISP3303	-
Driver Type	-	-	-
Driving Voltage	V_F	-	V
Driving Current	I_F	2100	mA
Nominal Flux	Φ	3400×1	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	-	02-May-2012	-

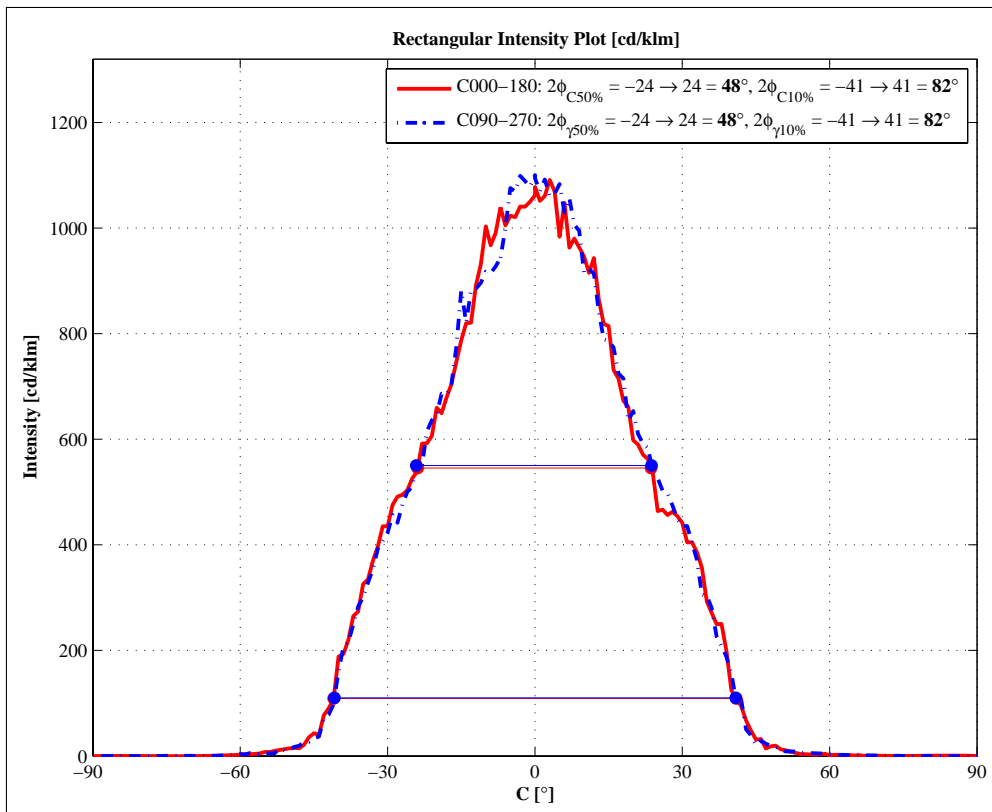
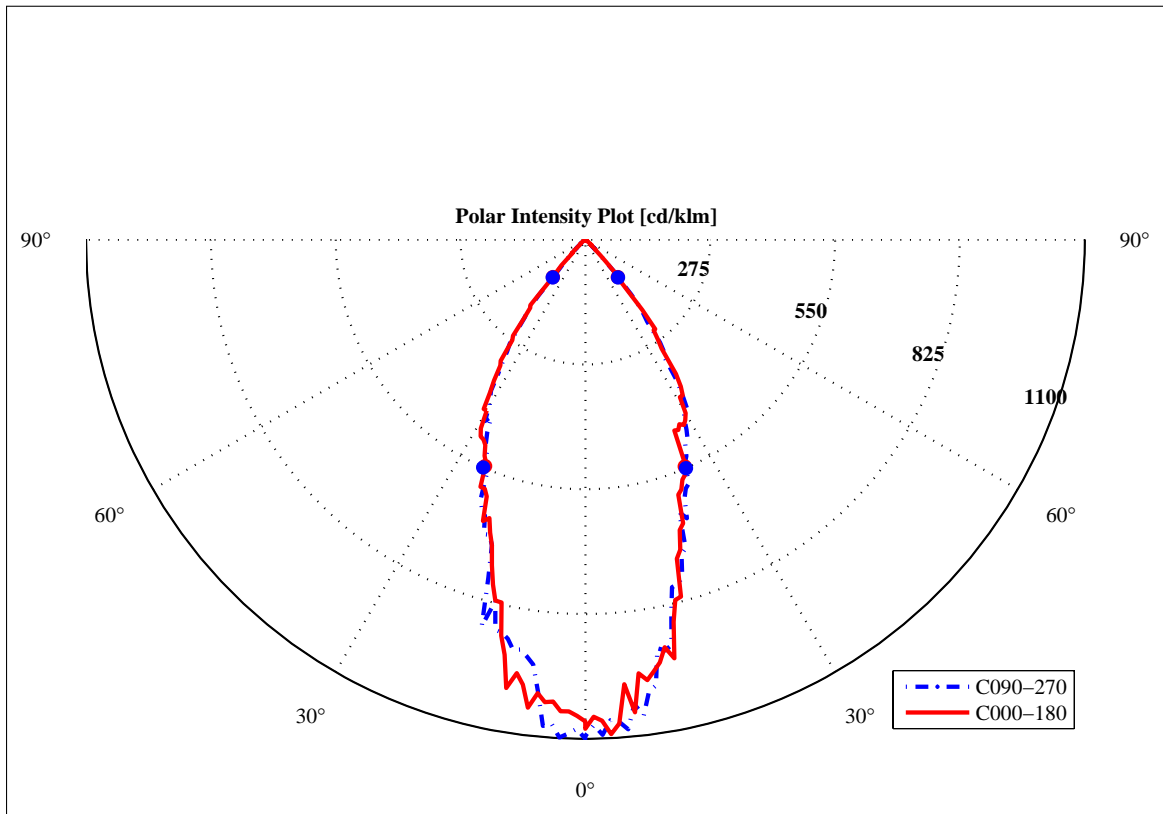
3 Results

Parameter	Symbol	Value	Unit
Total Flux	Φ	3400	lm
Max Intensity	I_{max}	3800	cd
Max Illuminance at 5 m	E_{max}	152	lx
C-Viewing Angle at 50% I_{max}	$2\phi_C$	48	°
γ -Viewing Angle at 50% I_{max}	$2\phi_\gamma$	48	°
C-Viewing Angle at 10% I_{max}	$2\phi_{C10\%}$	82	°
γ -Viewing Angle at 10% I_{max}	$2\phi_{\gamma10\%}$	82	°
General Optical Measurement Tolerance	-	±10%	-

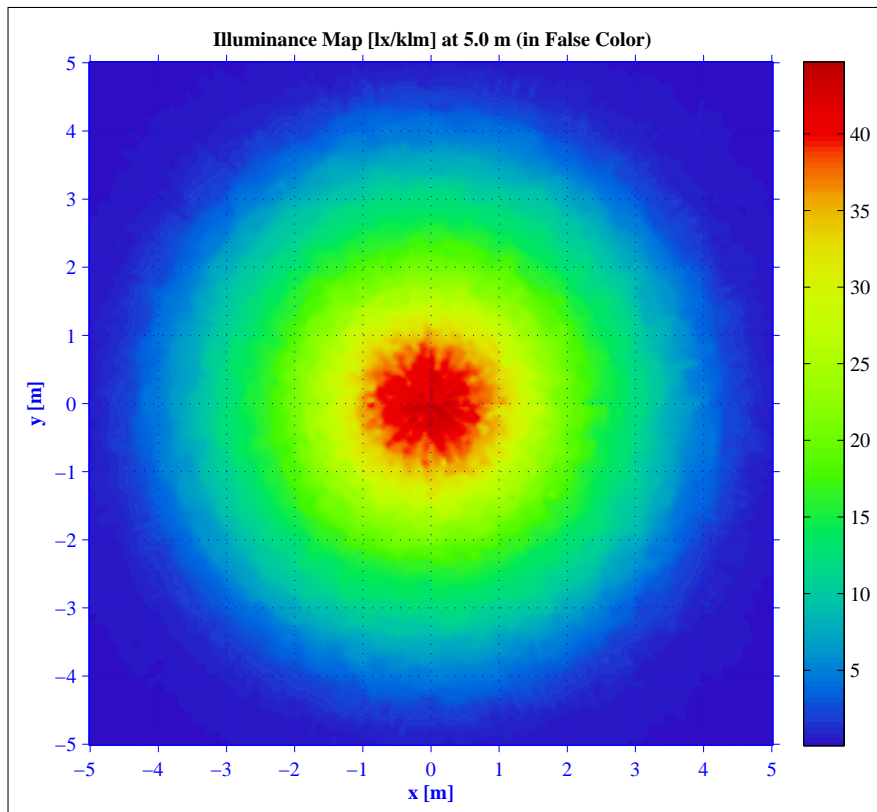
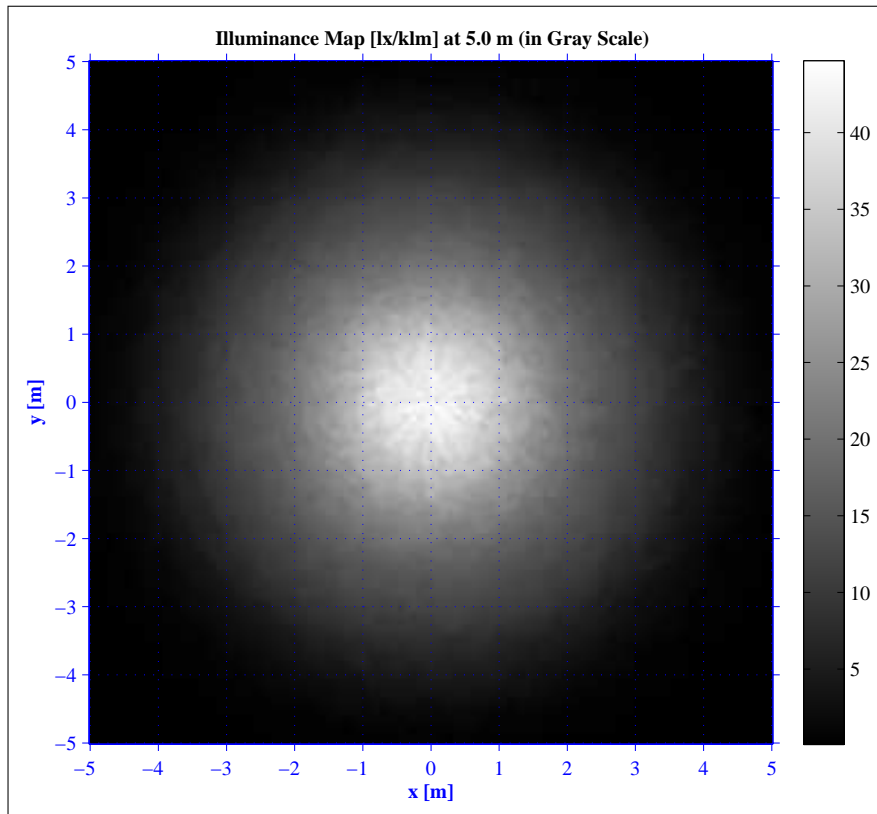
NOTES:

- 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.

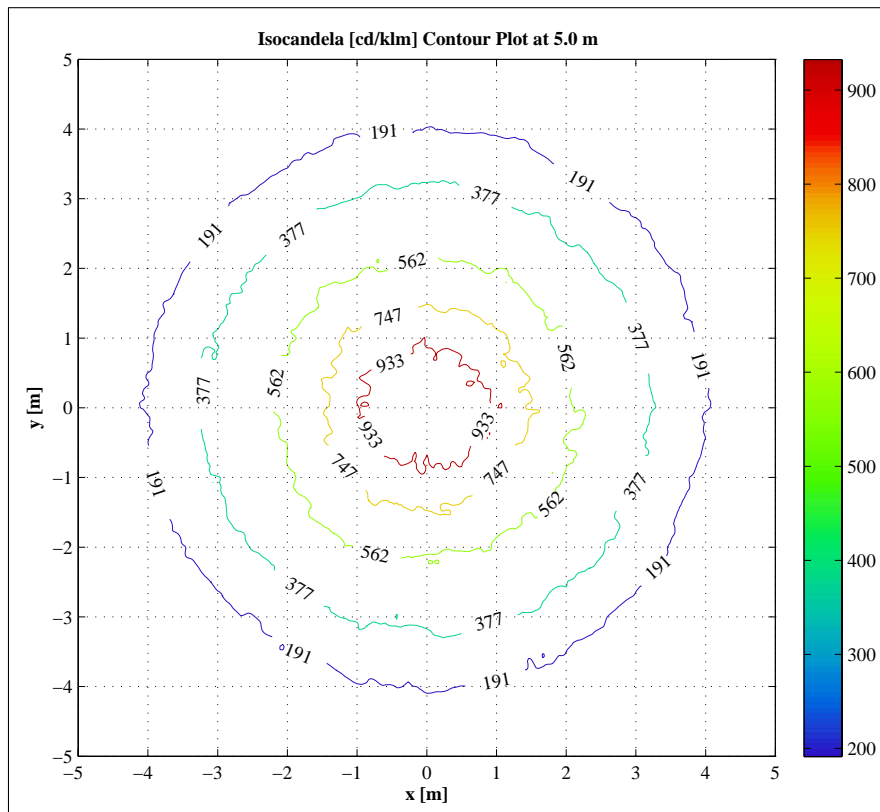
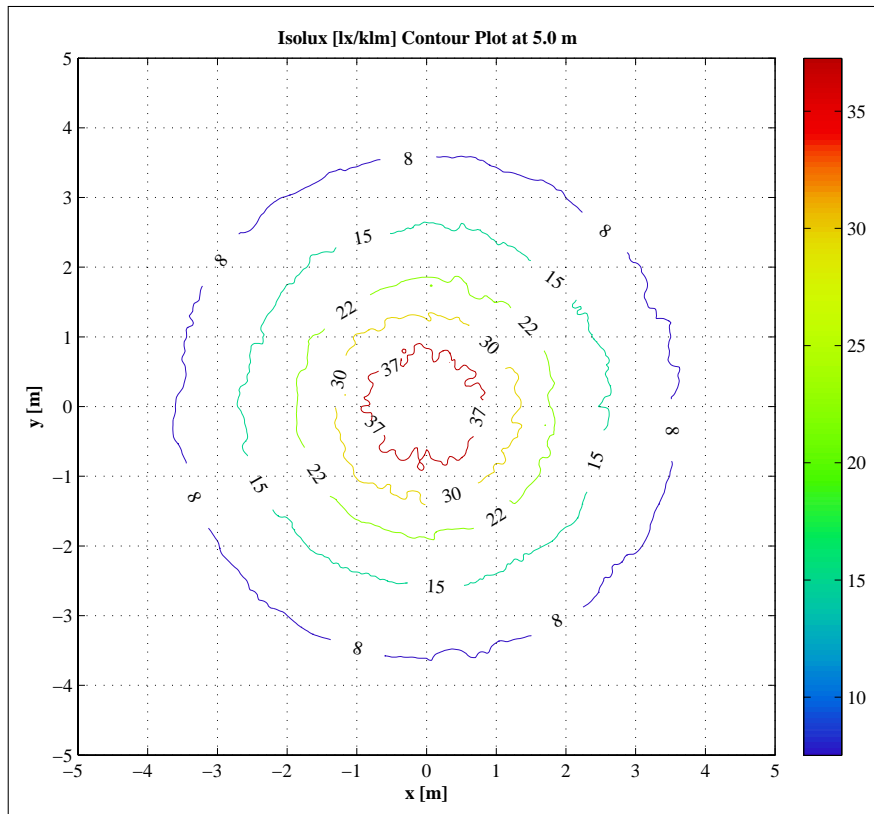
4 Intensity Plot



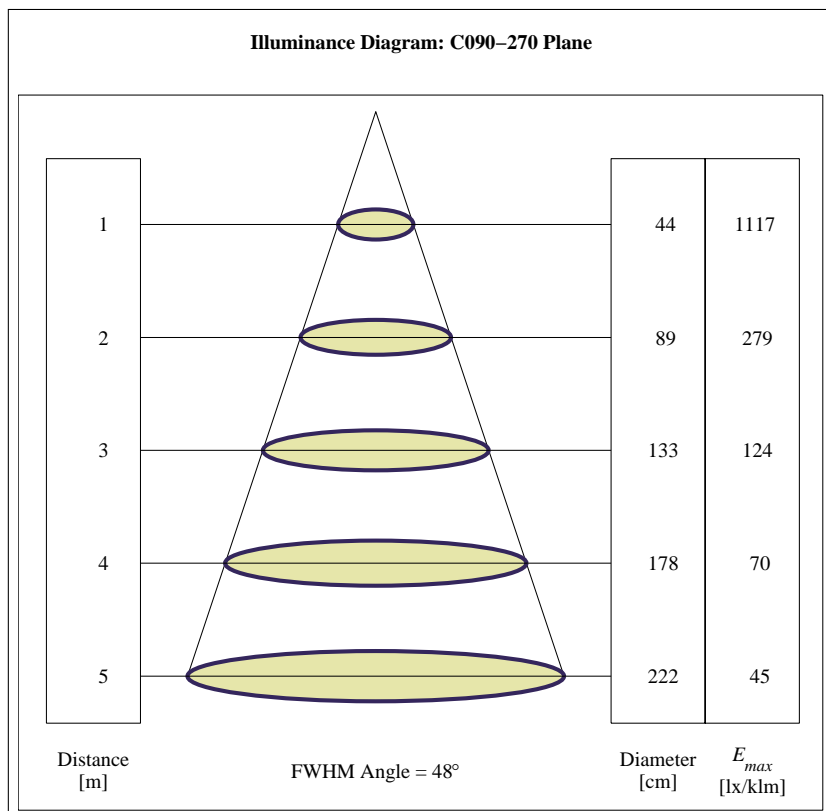
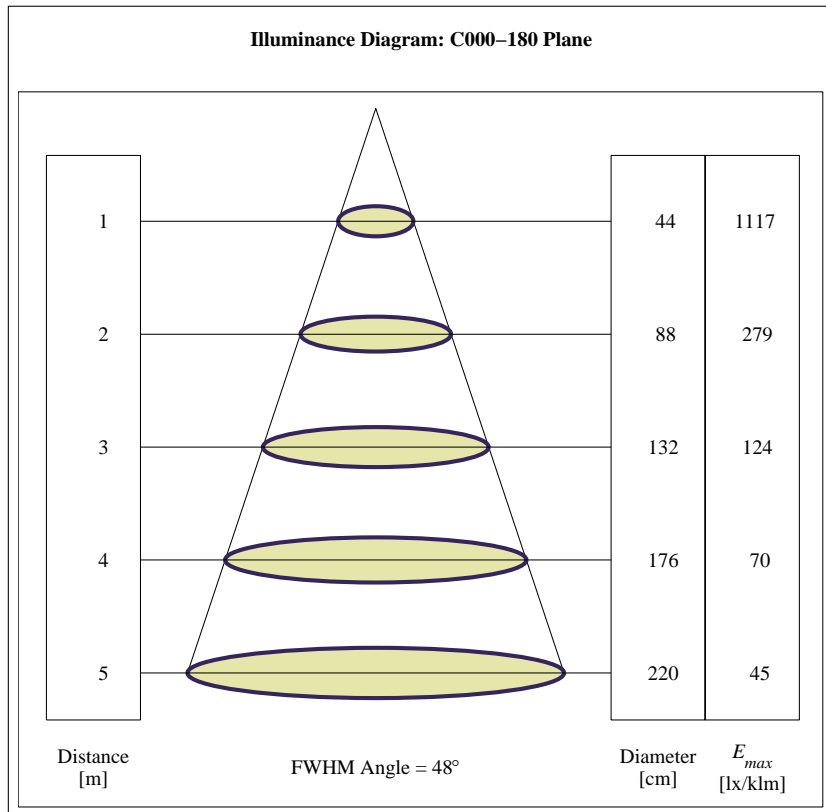
5 Illuminance Map



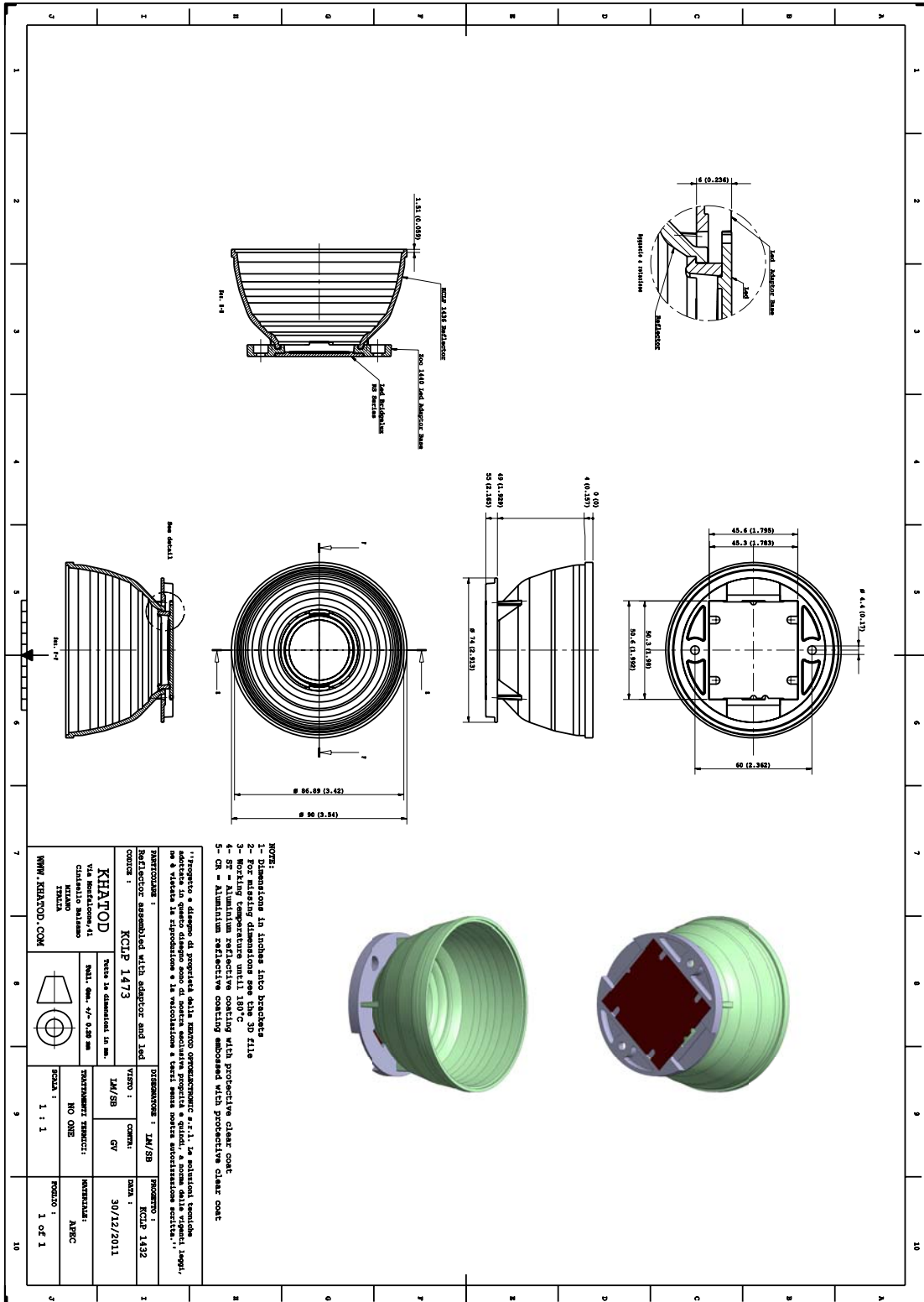
6 Isolux / Isocandela Plots



7 Illuminance Diagram



8 Drawing



9 Use and Maintenance

Reflector characteristics

Parameter	Symbol	Rating	Unit
Reflector Material	PC , Aluminium Reflective Coating with protective clear coat	--	--
Holder Material	--	--	--
Operating Temperature	Topr	-40 to +180	°C
Storage Temperature	Tstg	-30 to +80	°C

Notes:

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 "OPTICAL CHARACTERISTICS"

- 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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KHATOD LENS 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

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