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## KCLP series REFLECTORS for Acriche® and P7® LEDs

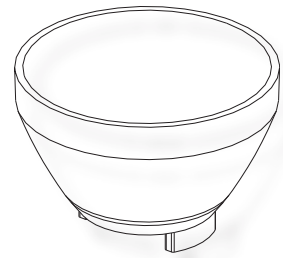


### KCLP Series

- High efficiency
- Available in 2 different beams
- Ø 23mm and Ø 28mm Standard

### Typical applications are

- Lamps
- Architectural lighting
- Most applications where a compact light source is required



### DESCRIPTION:

The KCLP series offers two reflectors designed for Acriche® LEDs. These REFLECTORS have been studied by using software for optical simulation in order to get the narrow and medium beam with a homogeneous central spot.

### REPORT:

From 1 m ± 0,02 distance, we have measured Luminous Intensity emitted by LED. Such measurements have been repeated with the same test conditions but coupling LEDs to the lens Khatod cod. KCLP23CR, KCLP23ST, KCLP28ACR and KCLP28AST.

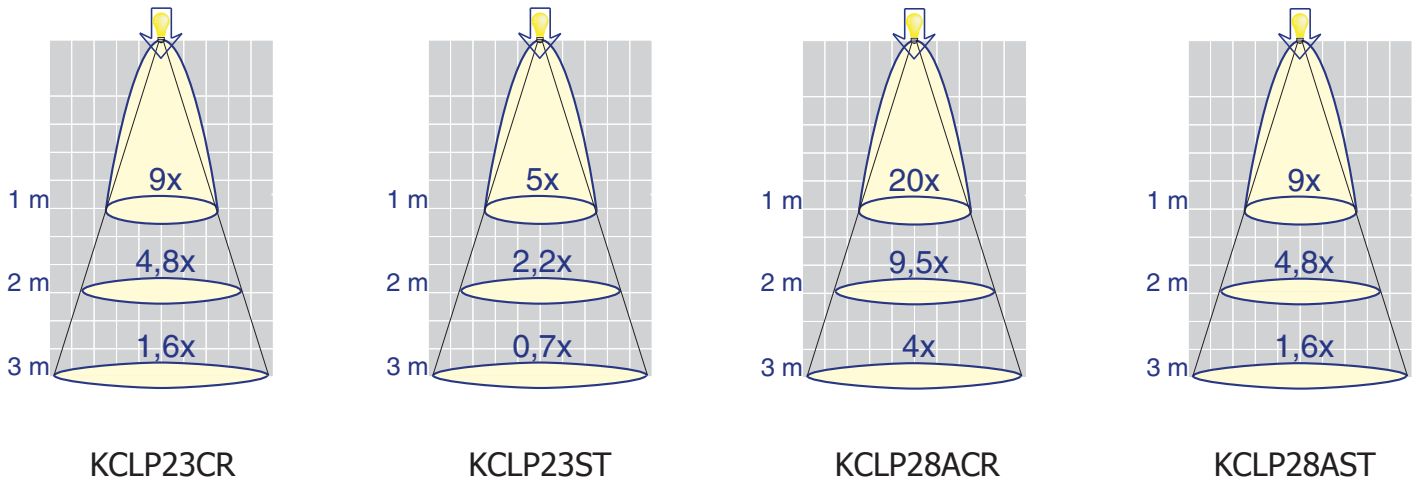
### MEASURED DATA:

Column 1 shows p/n of the Lenses, column 2 shows Luminous Intensity detected measuring LEDs without lens, column 3 shows Luminous Intensity detected on LEDs coupled with lens, column 4 shows the difference (X\*) between col. 2 and col. 3

Lens Type	LED Lux from 1 Mt (ftc From 1 Mt)	LED + REFLECTORS Lux from 1Mt (ftc From 1 Mt)	X*
KCLP23CR (20°)	50,3 (4,64 ftc)	470 (43,38 ftc)	9
KCLP23ST (40°)	50,3 (4,64 ftc)	260 (24,00 ftc)	5
KCLP28ACR (12°)	50,3 (4,64 ftc)	1030 (95,06 ftc)	20
KCLP28AST (35°)	50,3 (4,64 ftc)	450 (41,53 ftc)	9

Test carried out after 5 min. of operation of the LED  
Measurements carried out with Luxometer mod LUX-1337 of **ISO-TEC** and **MINOLTA** mod LS – 150  
\* X is the value of measurement of the LED brightness at 1 meter distance, without optic devices applied to the LED.

## White LED Illuminance Chart



\* X is the value of measurement of the LED brightness at 1 meter distance, without optic devices applied to the LED.

### Test conditions:

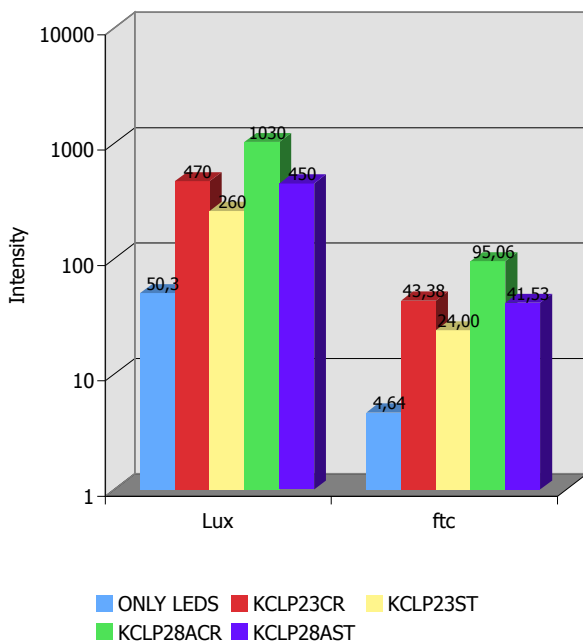
Room Luminous Intensity :0 Lumen

Room Temperature: 32° C

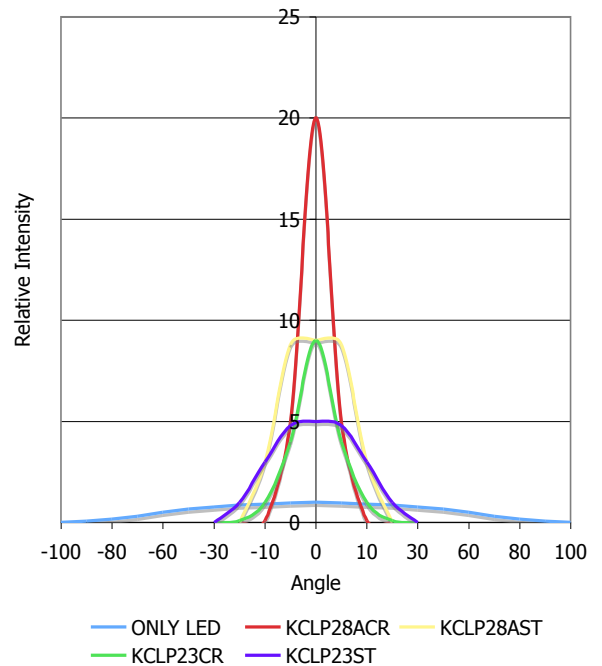
LED temperature after 10 min. : ~ 48 °C

The diagram demonstrates the performance of the Khatod optoelectronic reflectors

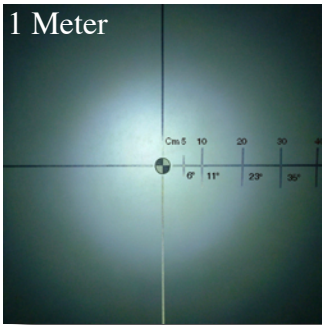
Intensity to 1 Meter



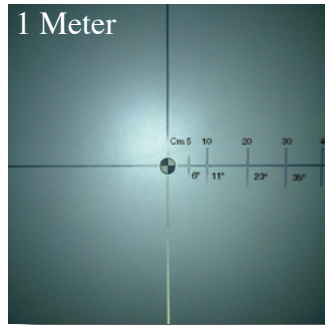
Spectrum Distribution



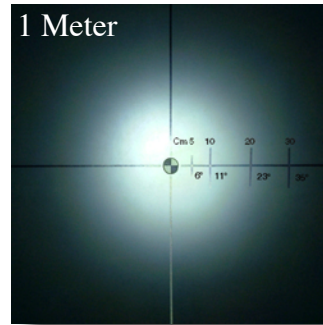
Photos:



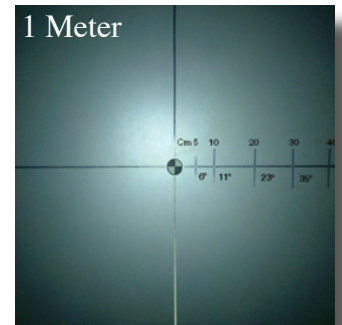
KCLP23CR



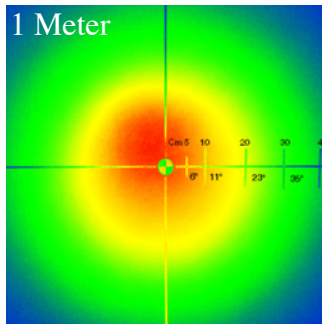
KCLP23ST



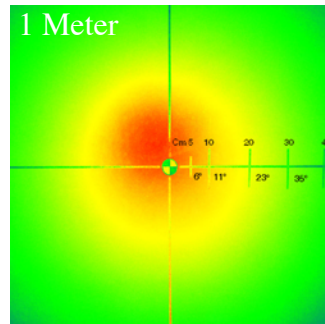
KCLP28ACR



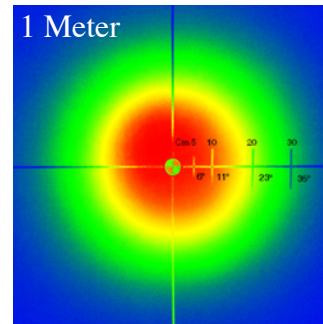
KCLP28AST



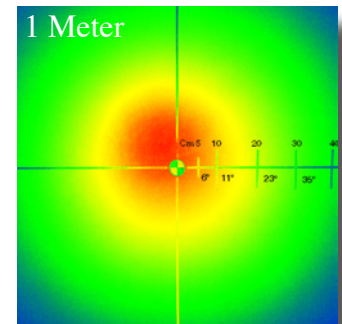
KCLP23CR  
spectro metric analysis



KCLP23ST  
spectro metric analysis



KCLP28ACR  
spectro metric analysis



KCLP28AST  
spectro metric analysis

Measurements carried out with Luxometer mod LUX-1337. Room Luminous Intensity: 0 Lumen. Camera mod. Fujifilm S7000

Ordering part number:

KCLP XX XX

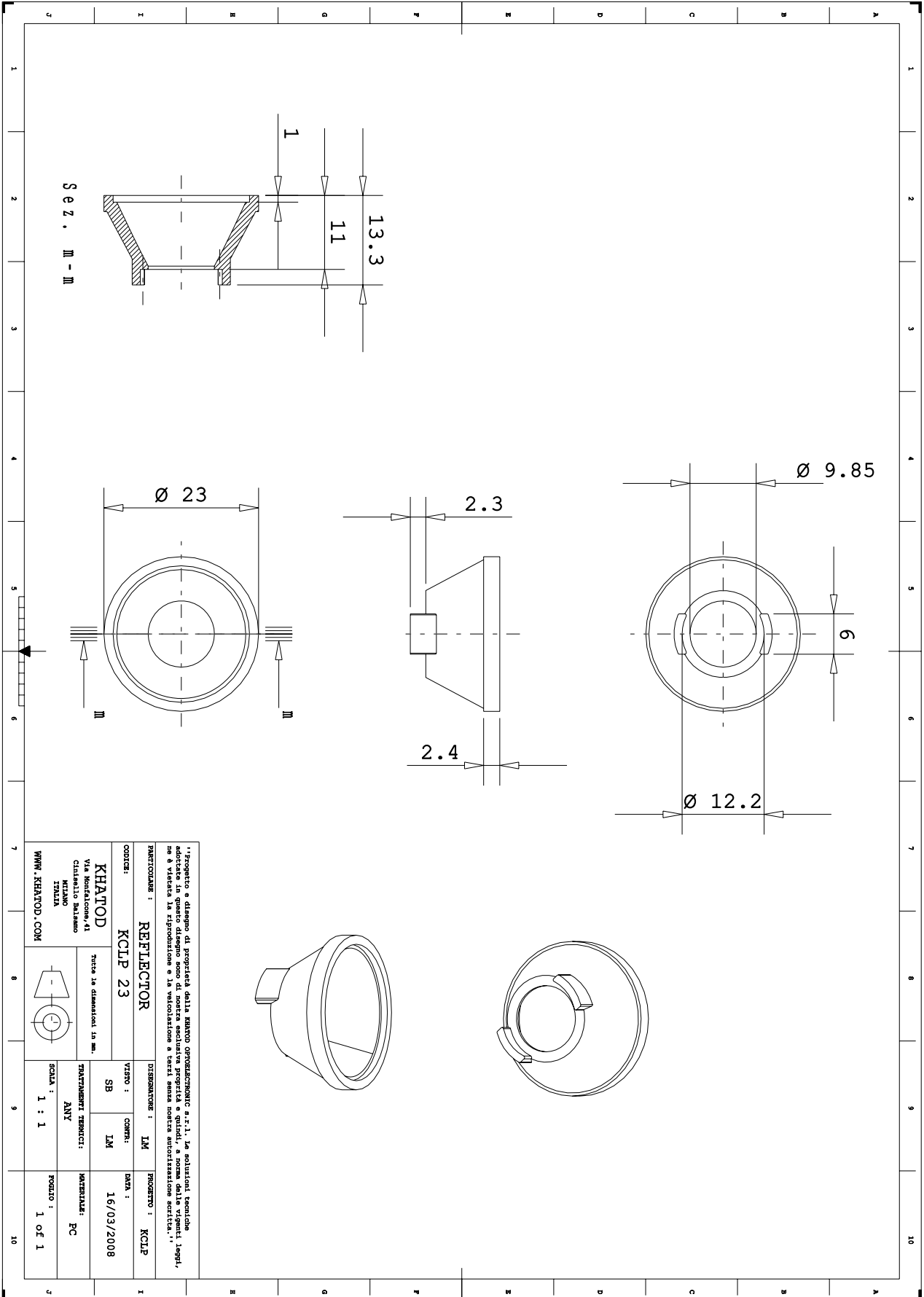
CR = metalized (Narrow beam)

ST = embossed surface (Medium beam)

23 = Ø 23 mm

28A = Ø 27,5 mm

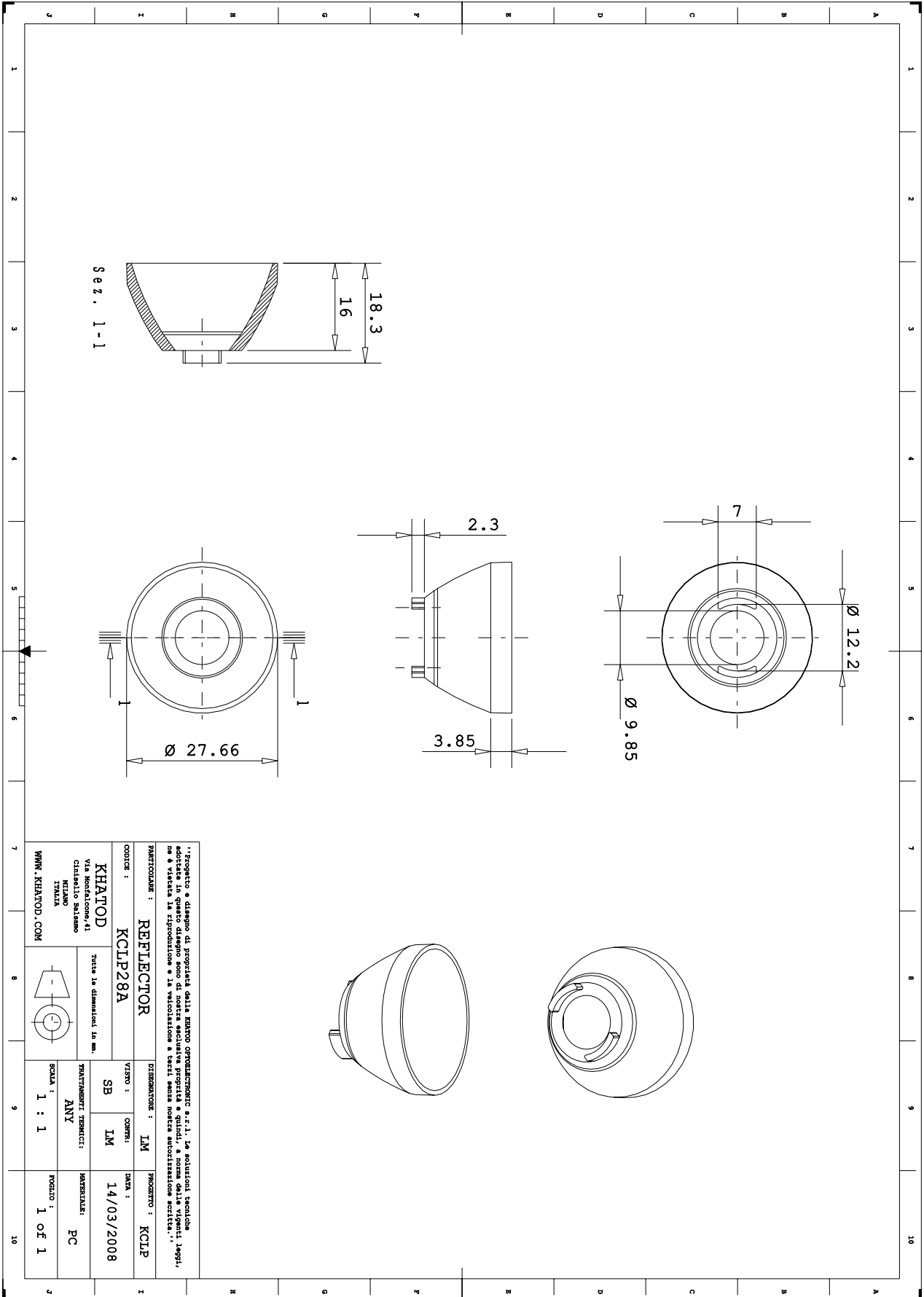
Drawing.



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<b>REPERICIONE :</b> <b>REFLECTOR</b> <b>KCIIP 23</b>			
<b>CONDIZIONI :</b> KHATOD Via Montecorona, 41 Cinisello Balsamo MILANO ITALIA WWW.KHATOD.COM	<b>DISPENSARE :</b> IM		<b>PROGETTO :</b> KCIIP
	<b>STATO :</b> SB	<b>COMPR. :</b> IM	<b>DATA :</b> 16/03/2008
Tratto da disegni in mm.	<b>TRATTAMENTI TERMICI :</b> ANY	<b>MATERIALE :</b> PC	<b>Foglio :</b> 1 OF 1
<b>SCALA :</b> 1 : 1			

Drawing.



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PARTICOLARE : REFLECTOR		DISSEGNIATORE : IM		PROGETTO : KCIIP	
CODICE : KCIIP28A		VIZIO : SB		DATA : 14/03/2008	
KHATOD MILANO Via Montalcorno,41 Città del Sole Salorno 13044 WWW.KHATOD.COM		TRATTAZIONE TERMICA : ANY		MATERIALE : PC	
Tutte le dimensioni in mm.		SCALA : 1 : 1		FOGLIO : 1 OF 1	

## Reflectors characteristics

Parameter	Symbol	Rating	Unit
Reflector Material	PC Polycarbonate, Aluminium reflective coating with protective clear-coat	--	--
Operating Temperature	Topr	-40 to +120	°C
Storage Temperature	Tstg	-40 to +120	°C

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*For technical specification on LEDs please refer to Seoul Semiconductor<sup>®</sup> datasheet or visit [www.seoulsemicon.com](http://www.seoulsemicon.com)*

### Notes:

Please note that small defects in the reflective coating, flow lines and weld lines on the surfaces of the reflectors are acceptable if the optical performance of the reflectors is within the specification described in the section "OPTICAL CHARACTERISTICS"

- Should you require further information, please contact Khatod for advice.
- All reflectors testing must be subject to identical conditions as Khatod test condition.

### **KHATOD REFLECTORS Use And Maintenance**

- DO NOT HANDLE OR INSTALL REFLECTORS 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 REFLECTORS

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