



CLP series REFLECTORS for Lambertian



CLP Series

- High efficiency
- Available in 2 different beams
- Ø 17mm and Ø 20mm Standard

Typical applications are

- Portable lighting (flashlights, bicycle, ...)
- Lamps
- Architectural lighting
- Most applications where a compact light source is required



DESCRIPTION:

The CLP series offers two reflectors designed for Lambertian LEDs.

These REFLECTORS have been studied by using software for optical simulation in order to get the narrow and medium beam with a perfect homogeneous central spot.

REPORT:

From 1 m $\pm$ 0,02 distance, we have measured Luminous Intensity emitted by LED.

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*
CLP17CR (6°)	11,25 (1,04 ftc)	388 (35,81 ftc)	35
CLP20CR (6°)	11,25 (1,04 ftc)	580 (53,55 ftc)	52

Test carried out after 5 min. of operation of the LED to 350 mA ~ , local power source **GOSSSEN KONSTANTER** mod 3226-K118
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.



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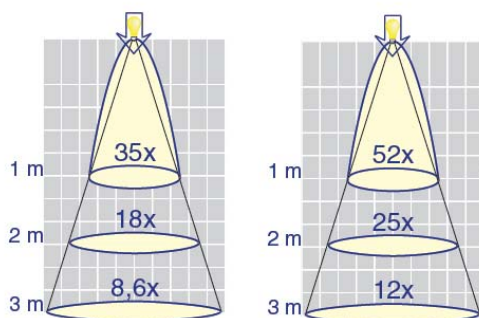
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White LED Illuminance Chart



CLP17CR

CLP20CR

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

Test conditions:

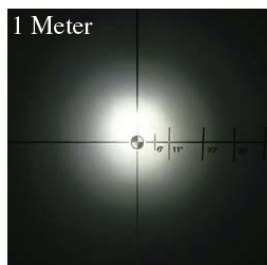
Test current: 350 mA / LED

Room Luminous Intensity : 0 Lumen

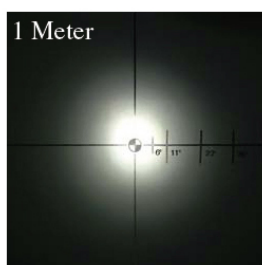
Room Temperature: 23° C

LED temperature after 10 min. : ~ 42 °C

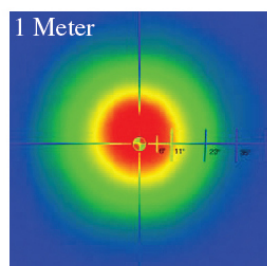
Photos:



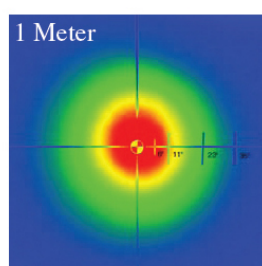
CLP17CR



CLP20CR



CLP17CR
Spectro Metric Analysis



CLP20CR
Spectro Metric Analysis

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



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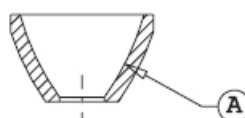
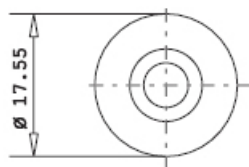
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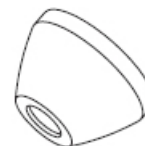
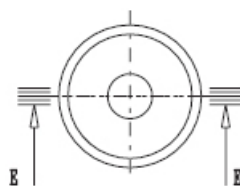
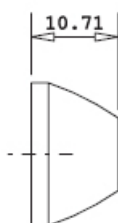
Drawing CLP17CR:

NOTE :

- Reflector mounted to an emitter
- For Lambertian emitter
- 'A' = Optical surface treatment



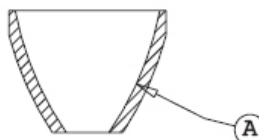
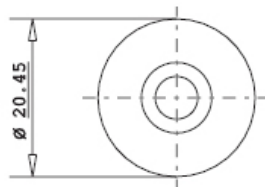
Sez. E-E



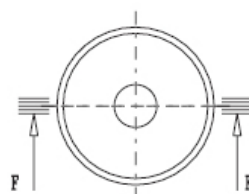
Drawing CLP20CR:

NOTE :

- Reflector mounted to an emitter
- For Lambertian emitter
- 'A' = Optical surface treatment



Sez. F-F





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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