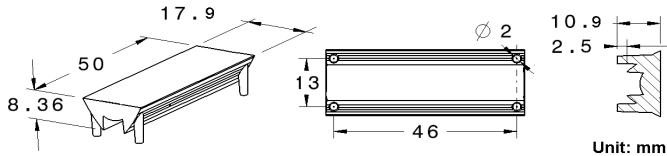
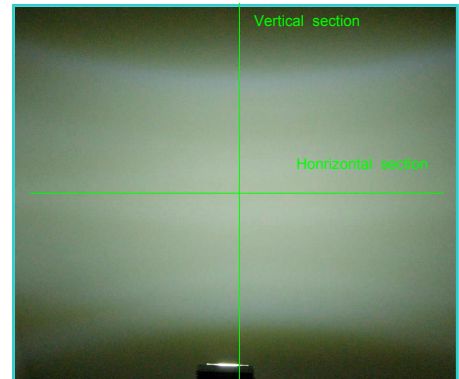


RECTANGULAR LENS - 30° HALF ANGLE - Part number C-001

Lens Reference	DBM17A-30F-L100W-1
Tested with LED	Citizen Orion CL-L100 Cool White
LED Flux vendor data	245 Lumens at 350 mA and Ta=25°C
HAD*	30 deg
Curve Type	FLAT
Lens Material	PMMA HT
Operating temperature	-40°C+110°C



*HAD = Half Angle Divergence



OPTICAL EFFICIENCY

LED Flux*: 210 Lumens

Collected Flux*: 193 lumens

Collection Efficiency : 92%

*Ta=25°C, 350mA, Captured view: (-90°;+90°) horizontal and vertical. Measurements of the Led and Led+Lens done in the same conditions.

OUTPUT DISTRIBUTION

-Driving Current: 350 mA

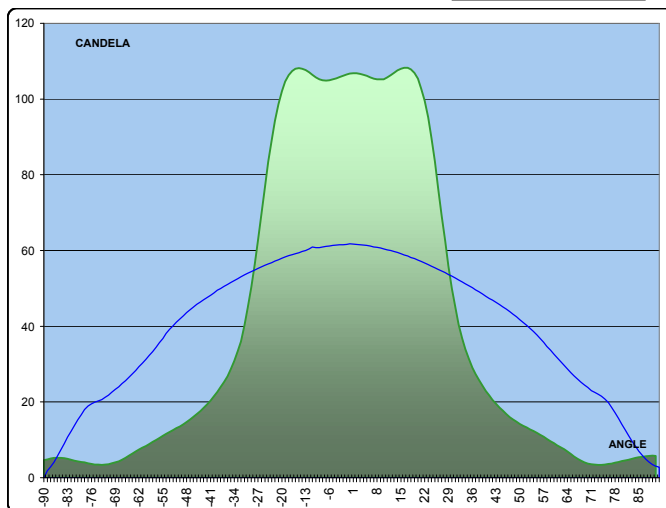
-LED without lens:

-Ta= 25°C

-LED + LENS:

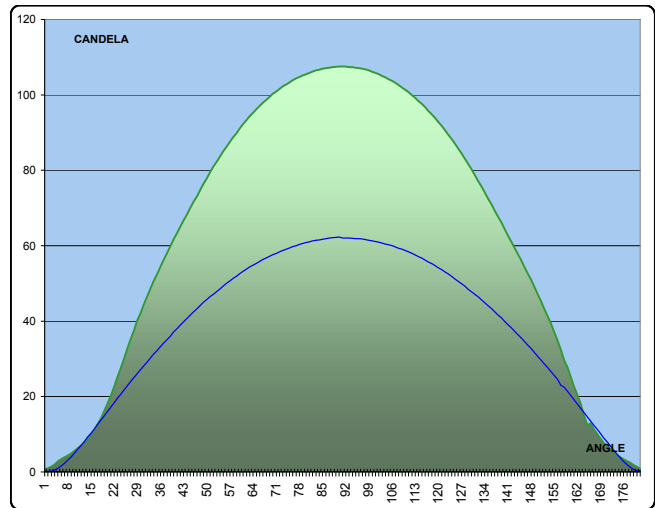
VERTICAL DISTRIBUTION

CARTESIAN GRAPHIC



HORIZONTAL DISTRIBUTION

CARTESIAN GRAPHIC



ILLUMINANCE

LED + LENS lab measurement

-Driving Current: 350 mA

-Ta= 25°C

IN AXIS ILLUMINANCE VALUES AT VARIOUS DISTANCES

RANGE	1.0 m	2.0 m	3.0 m
ILLUMINANCE	107 Lux	27 Lux	12 Lux
MULTIPLICATOR RATE LED+LENS / LED ONLY	1.6 X		