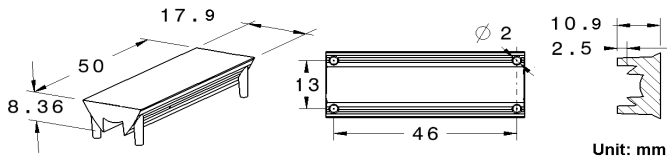
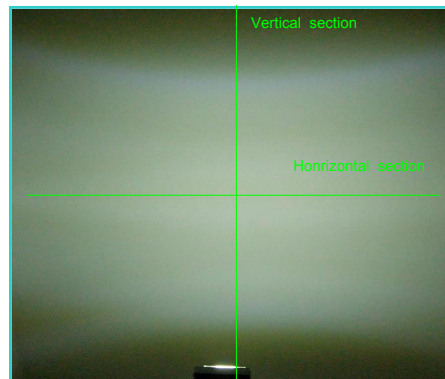


### RECTANGULAR LENS - 30° HALF ANGLE - Part number C-001

|                       |                                  |
|-----------------------|----------------------------------|
| 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

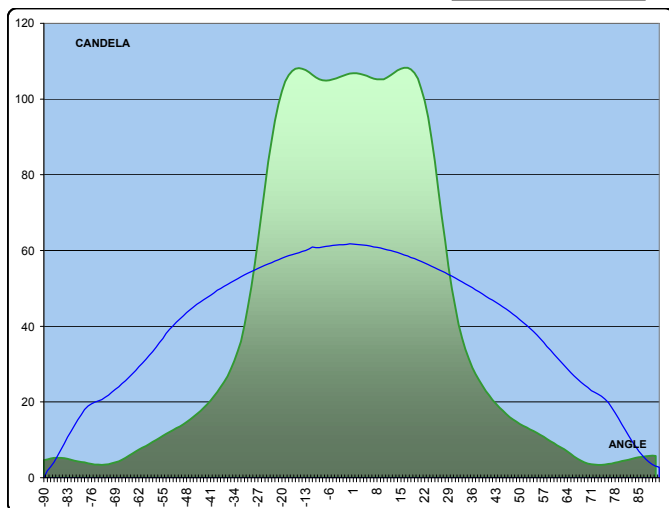
-LED without lens:

-Ta= 25°C

-LED + LENS:

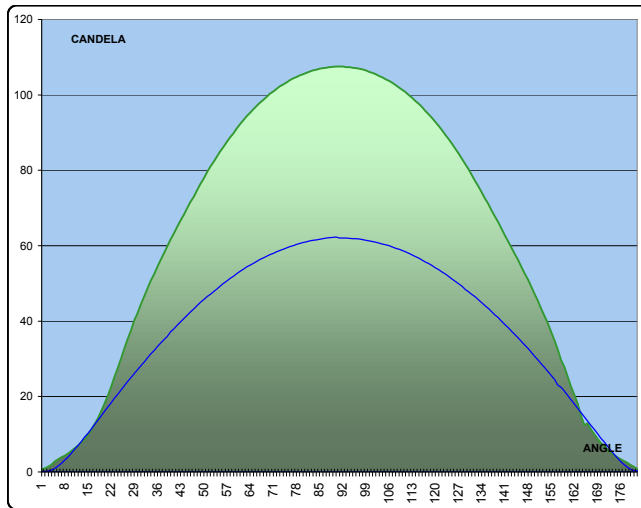
### VERTICAL DISTRIBUTION

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   |        |        |