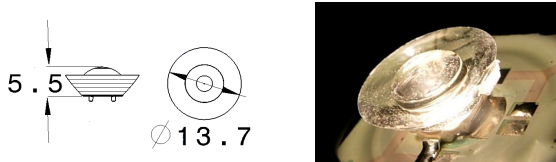


## FEATURES AND PATTERN

### 13 mm SERIES - 18° Half Angle - Part number 0-003s

|                       |                          |
|-----------------------|--------------------------|
| Lens Reference        | DBM13A-30F-GDW-2         |
| Tested with LED       | Golden Dragon Warm White |
| HAD*                  | 18 deg                   |
| Curve Type            | FLAT                     |
| Lens Material         | PMMA HT                  |
| Operating temperature | -40°C+110°C              |

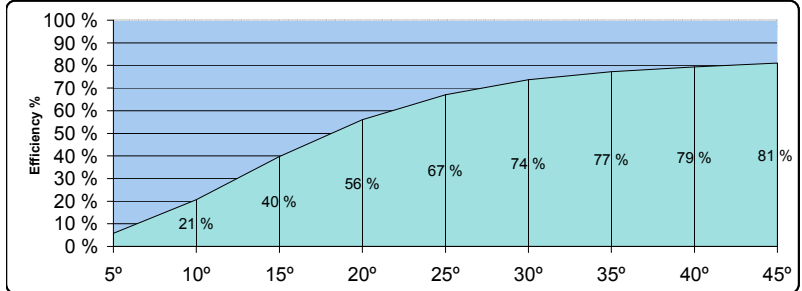


\*HAD = Half Angle Divergence



## OPTICAL EFFICIENCY

|                        |        |
|------------------------|--------|
| Half Angle Divergence: | 18 deg |
| HAD Efficiency:        | 50 %   |
| Collection Efficiency: | 92 %   |

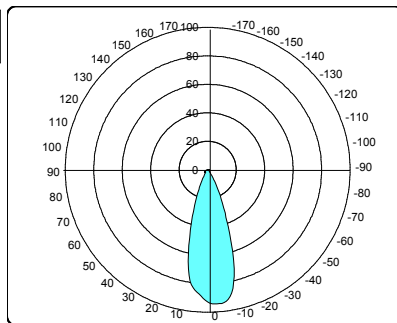


## OUTPUT DISTRIBUTION

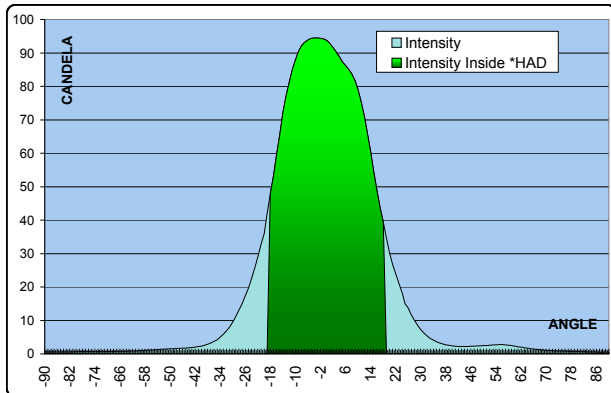
LED FLUX: 25 Lumens at 350mA

POLAR GRAPHIC

Max intensity  
94Cd



CARTESIAN GRAPHIC

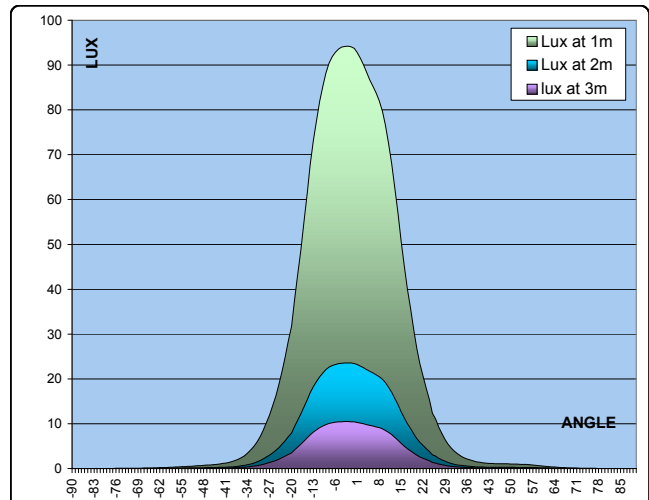


## ILLUMINANCE

LED FLUX: 25 Lumens at 350mA

ILLUMINANCE VALUES AT VARIOUS DISTANCES

| RANGE                                     | 1.0 m  | 2.0 m  | 3.0 m  |
|---|--------|--------|--------|
| ILLUMINANCE                               | 94 Lux | 23 Lux | 10 Lux |
| MULTIPLICATOR RATE<br>LED+LENS / LED ONLY | 6.5 X  |        |        |



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