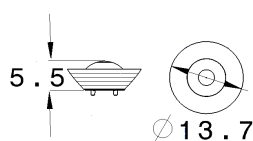


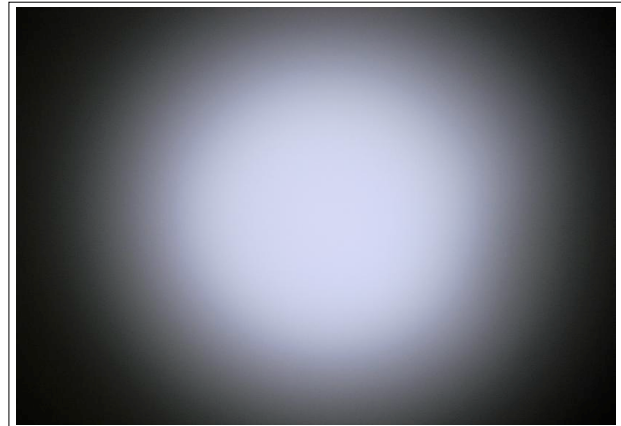
FEATURES AND PATTERN

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

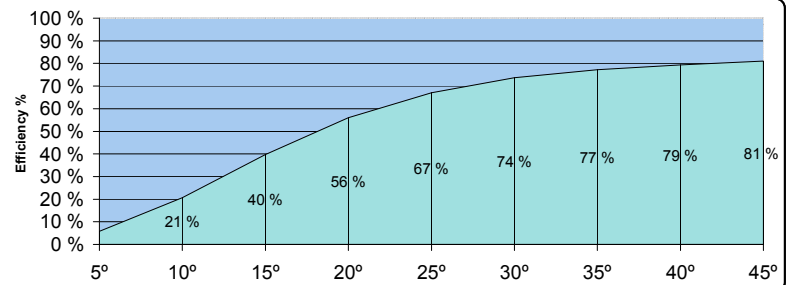


OPTICAL EFFICIENCY

Half Angle Divergence: 18 deg

HAD Efficiency: 50 %

Collection Efficiency: 92 %

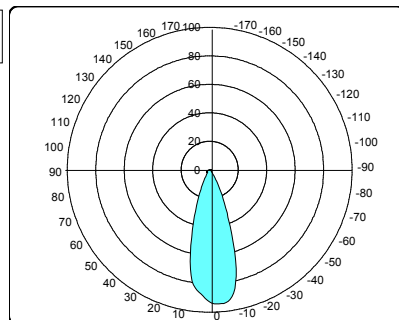


OUTPUT DISTRIBUTION

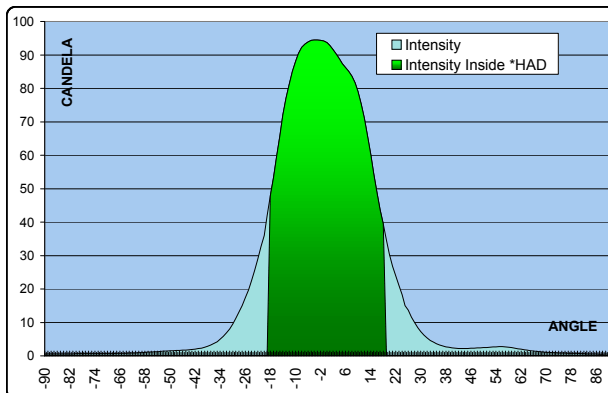
LED FLUX: 25 Lumens at 350mA

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 LED+LENS / LED ONLY	6.5 X		

