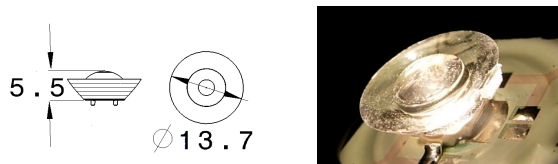


FEATURES AND PATTERN

13 mm SERIES - 30° Half Angle - Part number 0-001

Lens Reference	DBM13A-30F-GDW-2
Tested with LED	Golden Dragon Warm White
HAD*	29 deg
Curve Type	FLAT
Lens Material	PMMA HT
Operating temperature	-40°C+110°C



*HAD = Half Angle Divergence

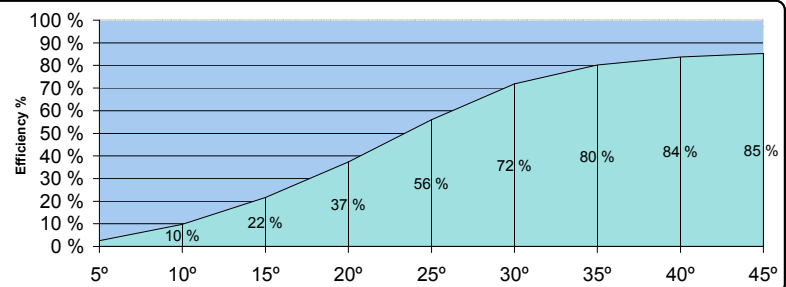


OPTICAL EFFICIENCY

Half Angle Divergence: 29 deg

HAD Efficiency: 69 %

Collection Efficiency: 93 %

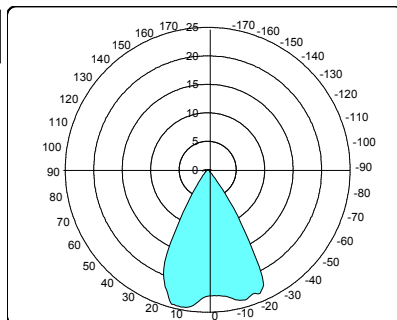


OUTPUT DISTRIBUTION

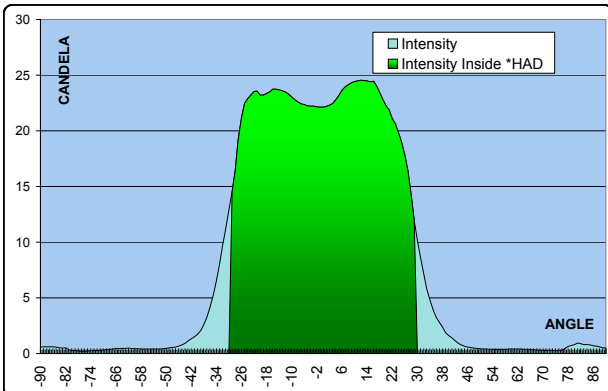
LED FLUX: 25 Lumens at 350mA

POLAR GRAPHIC

Max intensity
25Cd



CARTESIAN GRAPHIC

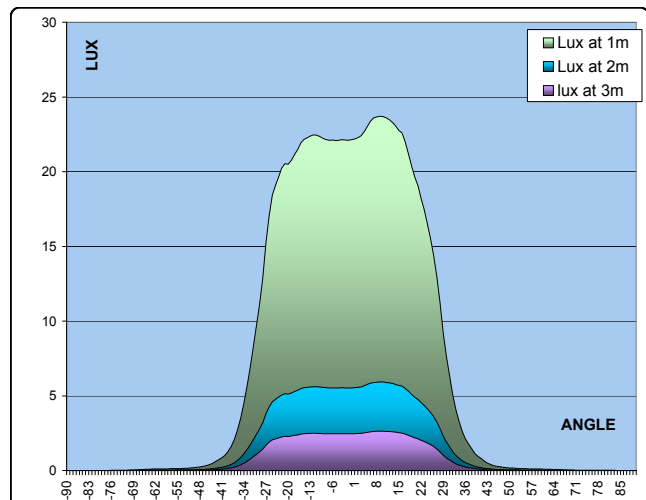


ILLUMINANCE

LED FLUX: 25 Lumens at 350mA

ILLUMINANCE VALUES AT VARIOUS DISTANCES

RANGE	1.0 m	2.0 m	3.0 m
ILLUMINANCE	22 Lux	6 Lux	2 Lux
MULTIPLICATOR RATE LED+LENS / LED ONLY	2.6 X		



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