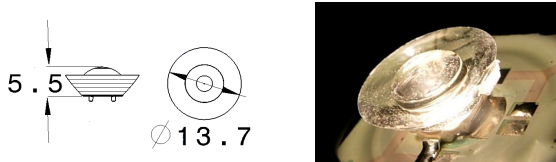


FEATURES AND PATTERN

13 mm SERIES - 16° Half Angle - Part number 0-003

Lens Reference	DBM13A-30F-GDW-2
Tested with LED	Golden Dragon Warm White
HAD*	16 deg
Curve Type	FLAT
Lens Material	PMMA HT
Operating temperature	-40°C+110°C

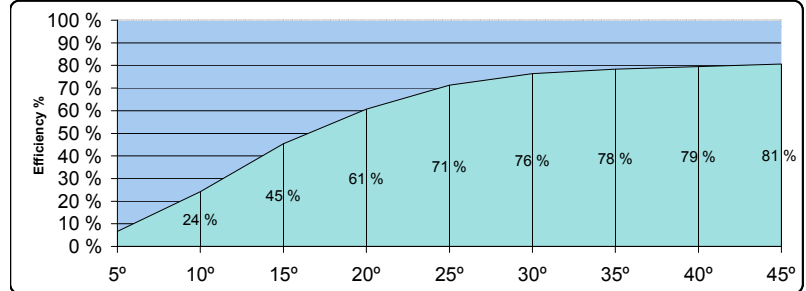


*HAD = Half Angle Divergence



OPTICAL EFFICIENCY

Half Angle Divergence:	16 deg
HAD Efficiency:	49 %
Collection Efficiency:	89 %

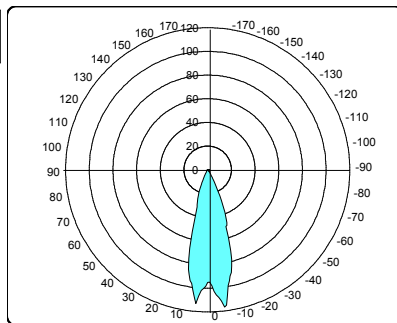


OUTPUT DISTRIBUTION

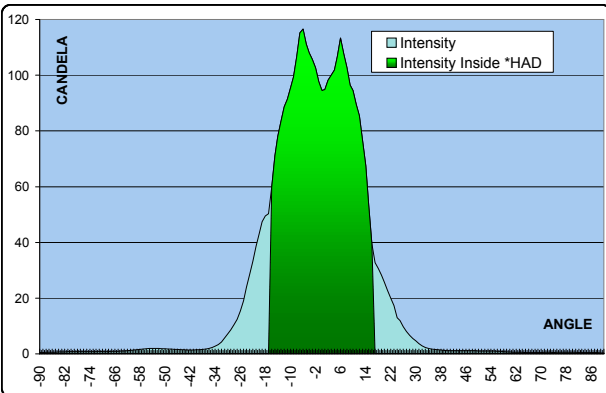
LED FLUX: 25 Lumens at 350mA

POLAR GRAPHIC

Max intensity
117Cd



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	95 Lux	24 Lux	11 Lux
MULTIPLICATOR RATE LED+LENS / LED ONLY	6.5 X		

