

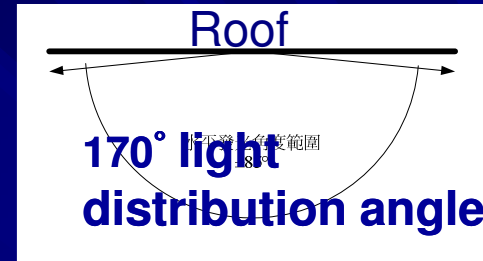
LED Mini-ceiling lamp



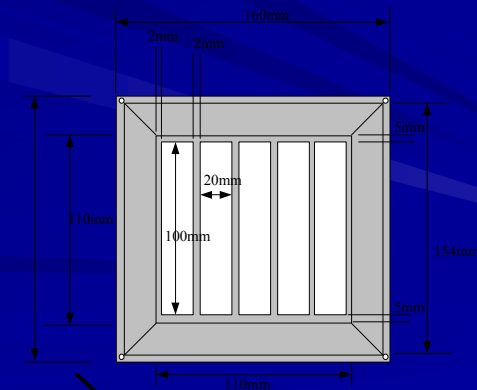
Shape



Real image of Focal Diffuser™ optics compare with traditional optics on High Power light module



- Dimension : 160x160mm Depth 2.5cm
- Total luminous flux : 500 -550lm
- FLUX Distribution : Compare to Compact Fluorescent Lamp of 23 watt
- Energy consumption : 10W
Light efficiency: 50lm/W
- High efficiency anti-glare optical treatment for LED
80-90% (Focal Diffuser™ Optics Inside)
- Stainless steel /Alumina/ABS/PC/PMMA All recyclable
- Operation temperature 45-55°C



Dimension of square lamp

Show room case



40W total



40W total

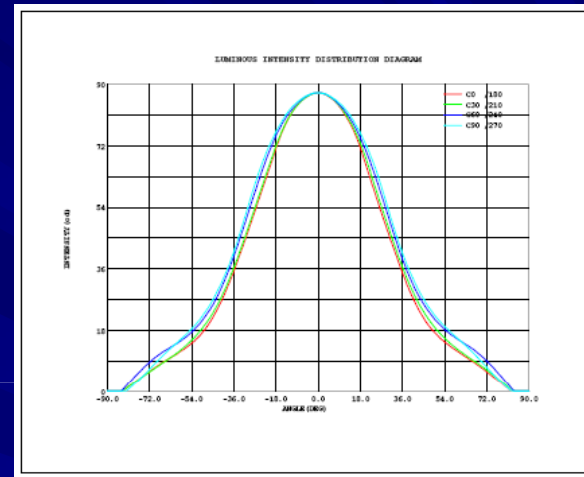
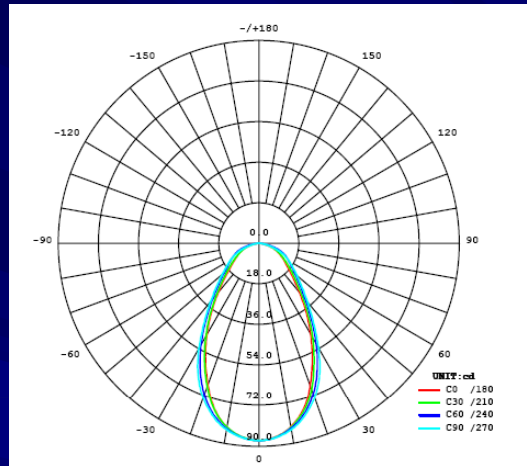
Tube	UNIT	Original luminaires (Compact Fluorescent Lamp)	Royal light LED mini ceiling lamp
Electricity consumption	w	23	10
Power consumption/day	12 HRS	276	120
30 DAY	KW	8.3	3.6
cost/30 DAY	NT\$	24.9	10.8
Carbon /30 DAY	Kg	5.81	2.52
Power saving ratio	%	56.6%	
Total Lighting efficiency	%	50	95
Luminous	lm	600	550
General life	hrs	10000	30000

★cost 3NT/ ★1kw= 1000w × 1hrs ★carbon 0.7kg/kw

Data from ITRI Material & Chemical engineering Research Laboratories

Tube	General LED Lamp	Royal Light mini downing light
Light type	Projection set light (15/30/60/130°)	WIDE LIGHTING RANGE (170°)
Anti-glare optical treatment	Clear/glare or weak	Focal Diffuser™ / 85-90% Uniformity of Light source
Power dissipation/(W)	10W	10W
Luminous efficiency (PS.1)	30-50 lm/W	40-50 lm/W
Application	Internal lighting	Internal lighting
LED USE	High efficiency high watt	General efficiency low watt
cost	>4 NT \$ /lm	<2.5 NT\$ /lm

Ps. The calculation of efficiency of Lamp included light source and lampshade



LIGHT INTENSITY DISTRIBUTION