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# BT-OLS-MPSC16W SERIES

POWER LED Module

PAR38 Series

Lead (Pb) Free Product – RoHS Compliant

**BIT Lighting System**

**16W PAR38 Module**

**Technical Datasheet**

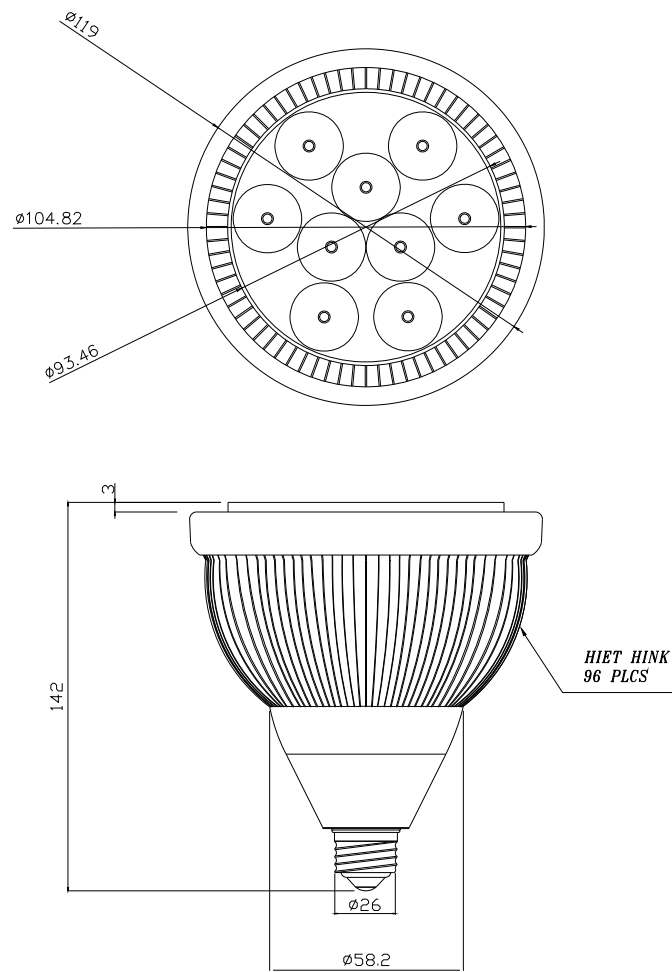
**Version 1.6**



## Features

- High power LED retrofit lamps
- High luminous intensity output
- Min. 70% lumen maintenance after 35,000 hrs
- Higher energy efficiency than incandescent and halogen lamps
- Cool beam (no UV or thermal radiation)

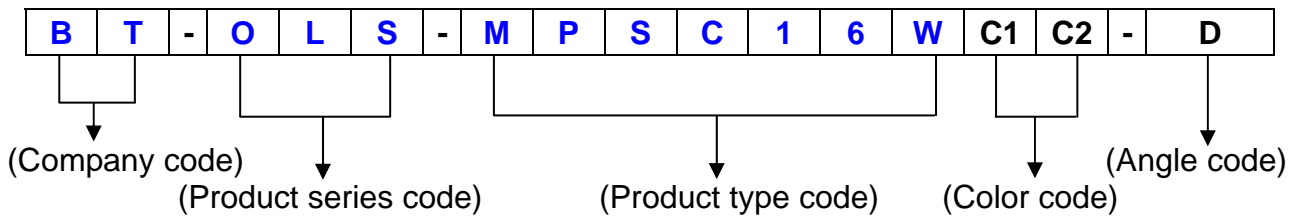
## Mechanical Dimensions



### Notes

- Do not use in outdoor or wet/humid areas or in totally enclosed fixtures.
- Net weight 0.41 Kg.

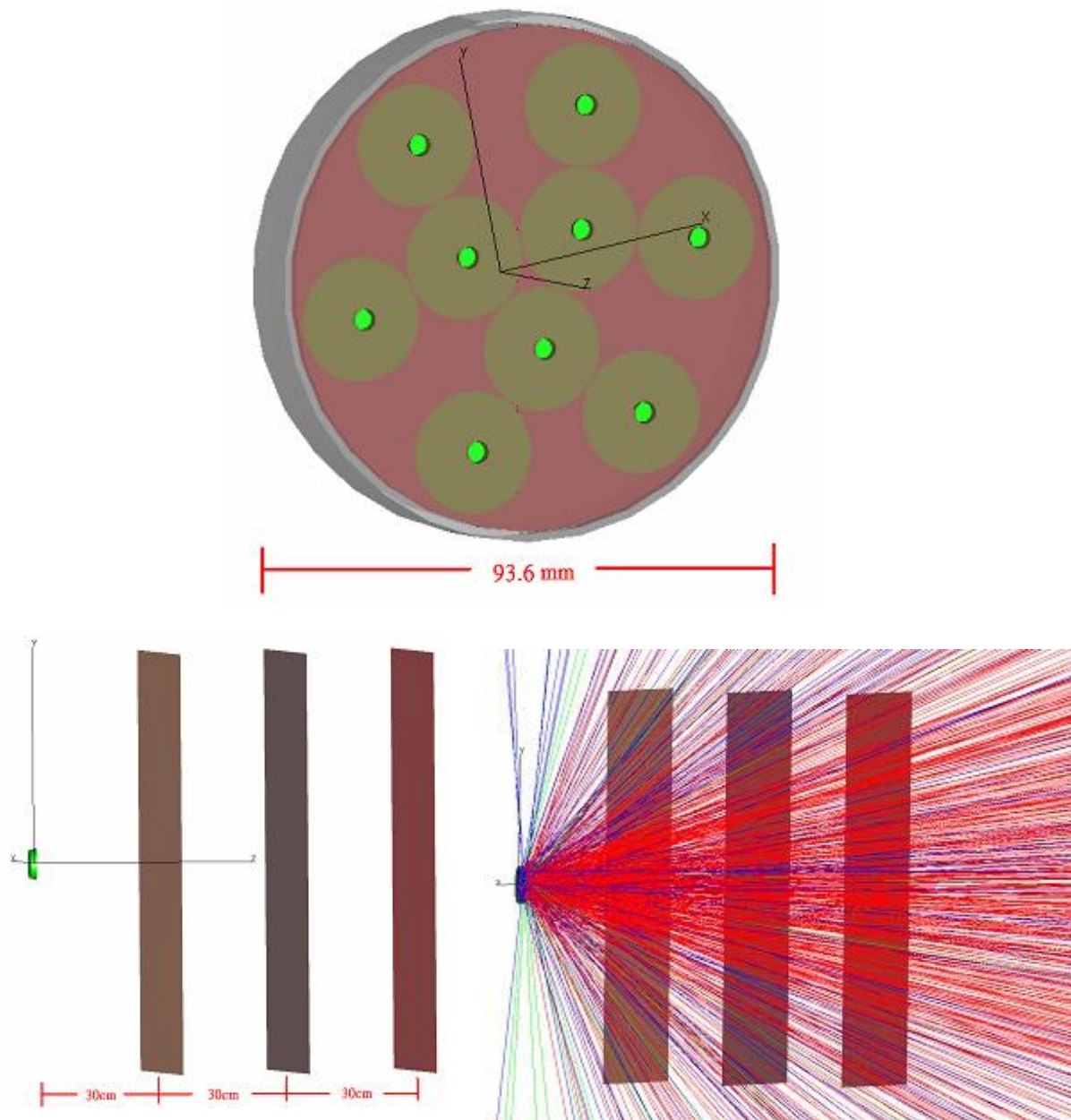
## PAR38 Series Nomenclature



## Electronics Specifications

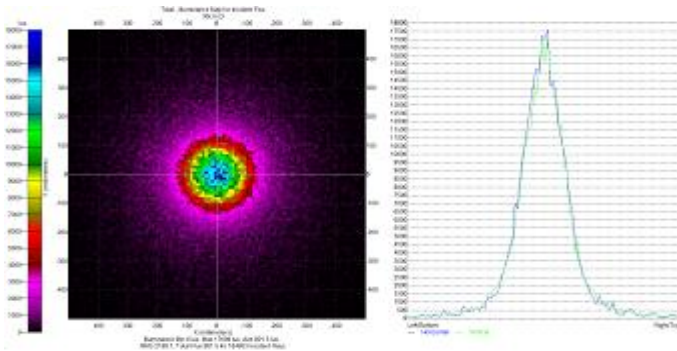
Parameters	OLS-MPSC16WNW	OLS-MPSC16WWW
<b>Electrical</b>		
Input Voltage	90~264 Vac	
LEDs	16W ( 9 LED High Power )	
Power Consumption	< 16W	
Housing	Aluminum	
Base	E27	
<b>Optical</b>		
Lumen Output	WW : 540 / NW : 620	
Operating Life	> 35,000 hrs	
Beam Angle	25 deg(D)	
<b>Environment</b>		
Operation Temperature	-20 ~ +50 °C	
Storage Temperature	-40 ~ +60 °C	
Operation Humidity	10 ~ 90 %	

# PAR 38 warm white 25 degree simulation

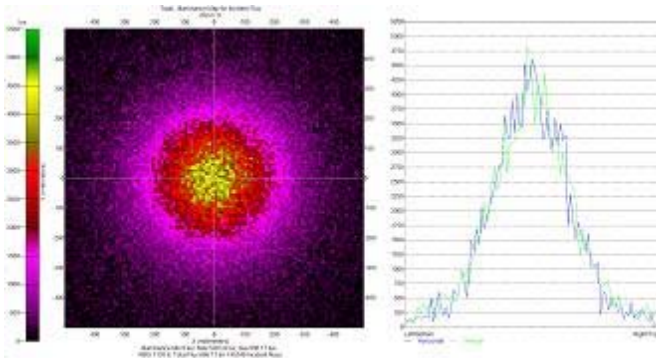


Total LEDs : 9 pcs  
Each LED flux : 130 lm  
Angular : 25 degree  
Detector : 300mm ; 600mm ; 900mm

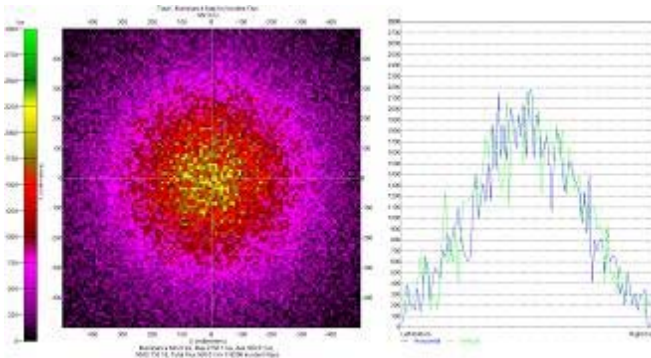
# Illumination



300mm :  
Average Illumination : **28212.1** lux  
( presume photo sensor detector  
size : 30 x 30 mm)



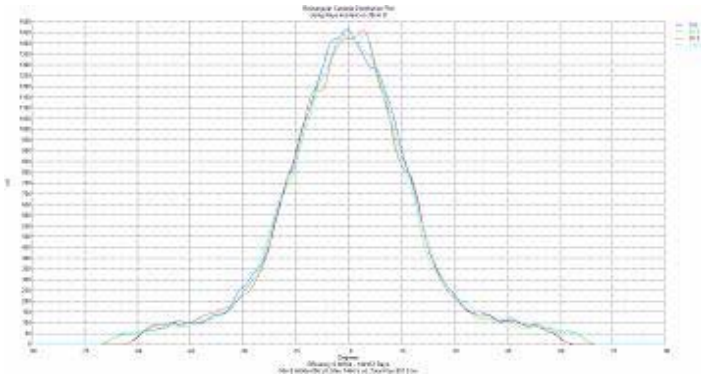
600mm :  
Average Illumination : **7361.7** lux  
( presume photo sensor detector  
size : 30 x 30 mm)



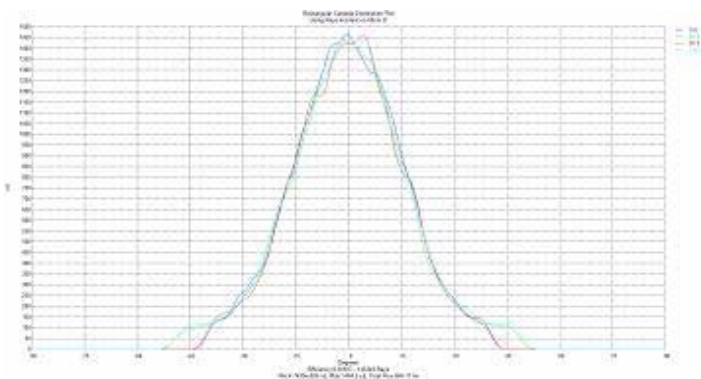
900mm :  
Average Illumination : **3251.2** lux  
( presume photo sensor detector  
size : 30 x 30 mm)

- ◆ Average Illumination(300mm)  $\cong$  Average Illumination(600mm) x **3.83**  
 $\cong$  Average Illumination(900mm) x **8.68**
- ◆ Actuality Illumination detect from 1000mm is **3380** lux

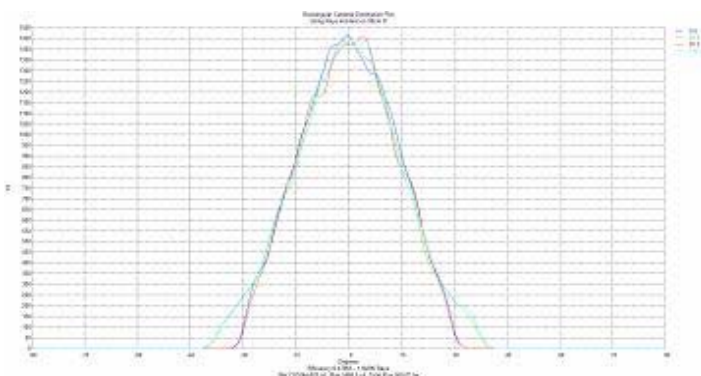
# Radiation Pattern



300mm :  
Beam angular : 36 degree

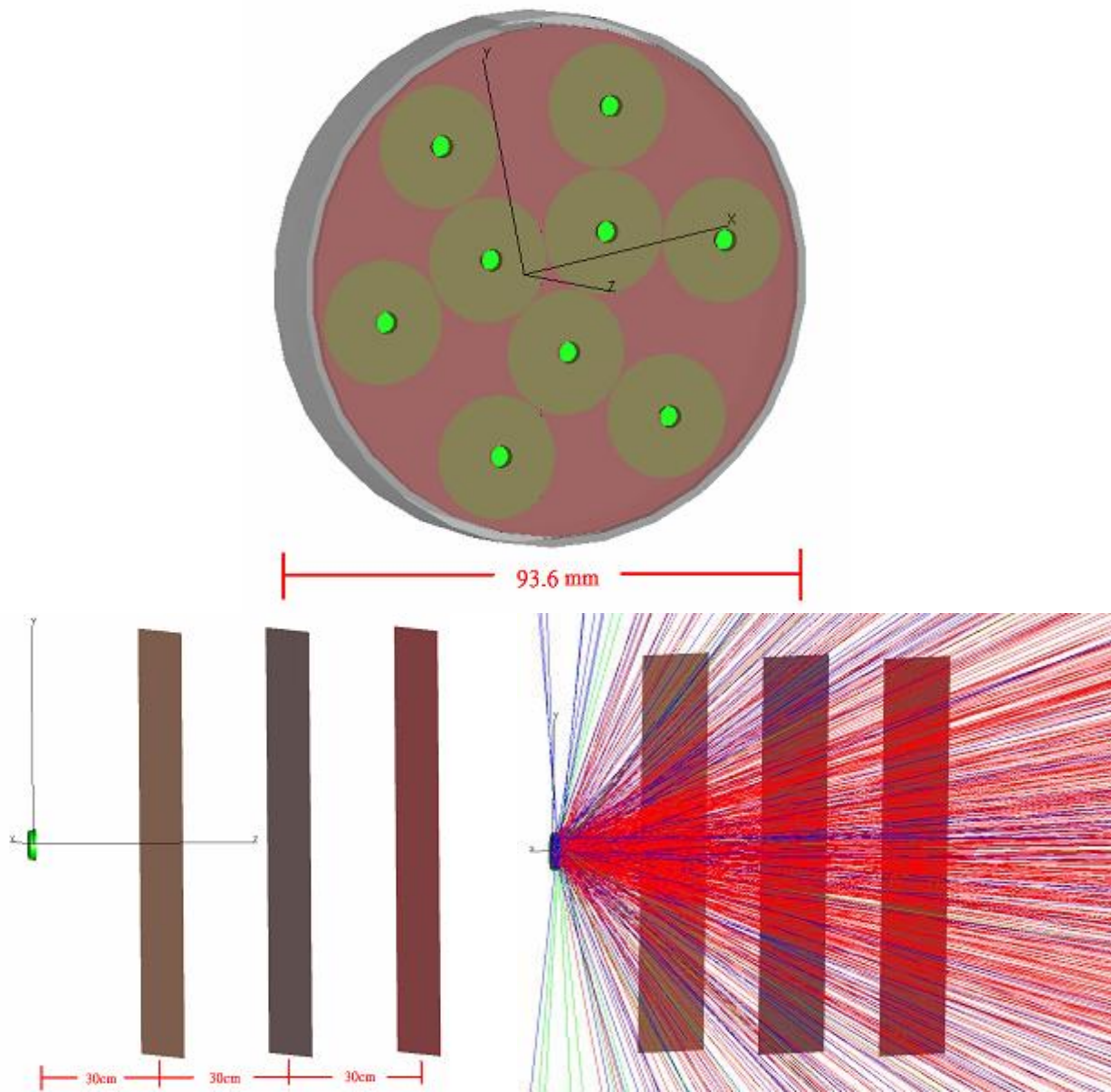


600mm :  
Beam angular : 36 degree



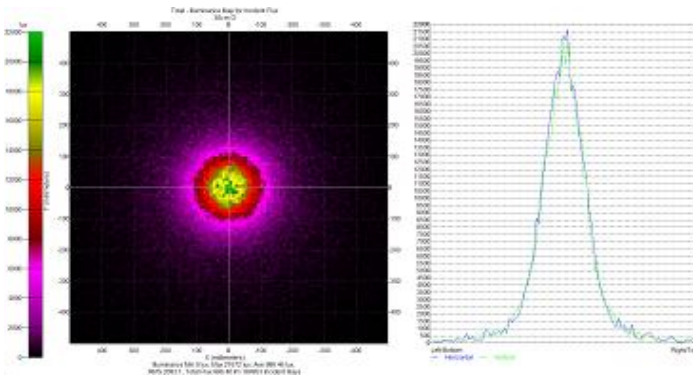
900mm :  
Beam angular : 36 degree

# PAR 38 normal white 25 degree simulation

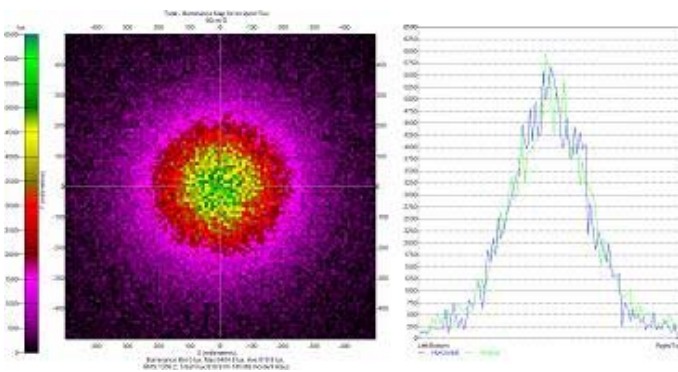


Total LEDs : 9 pcs  
Each LED flux : 160 lm  
Angular : 25 degree  
Detector : 300mm ; 600mm ; 900mm

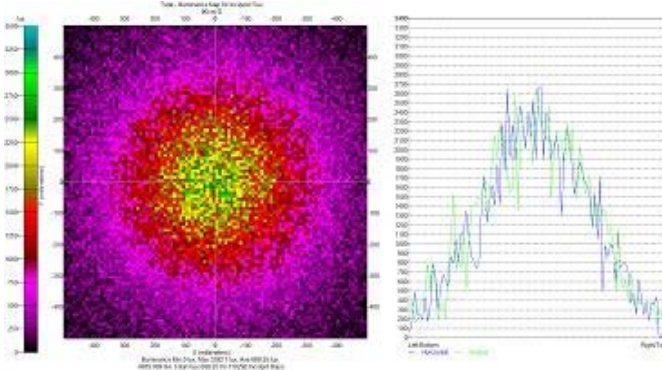
# Illumination



300mm :  
Average Illumination : **34722.7** lux  
( presume photo sensor detector  
size : 30 x 30 mm)



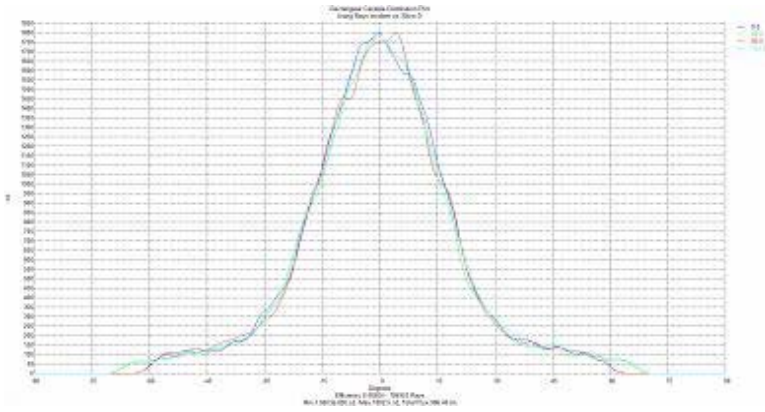
600mm :  
Average Illumination : **9060.6** lux  
( presume photo sensor detector  
size : 30 x 30 mm)



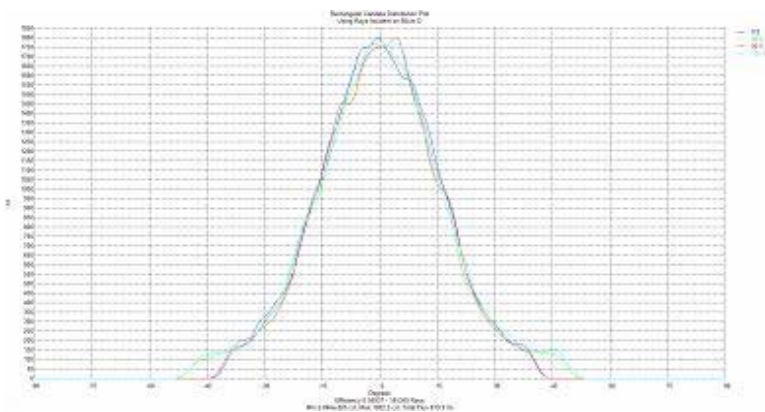
900mm :  
Average Illumination : **4001.5** lux  
( presume photo sensor detector  
size : 30 x 30 mm)

- ◆ Average Illumination(300mm)  $\doteq$  Average Illumination(600mm) x **3.83**  
 $\doteq$  Average Illumination(900mm) x **8.68**
- ◆ Actuality Illumination detect from 1000mm is **4250** lux

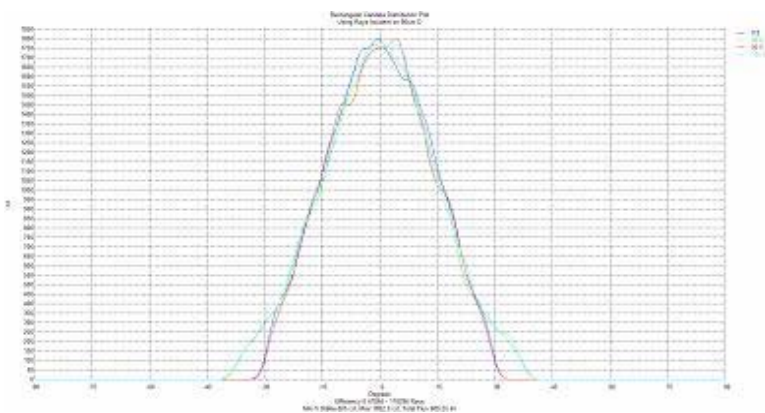
# Radiation Pattern



300mm :  
Beam angular : 36 degree

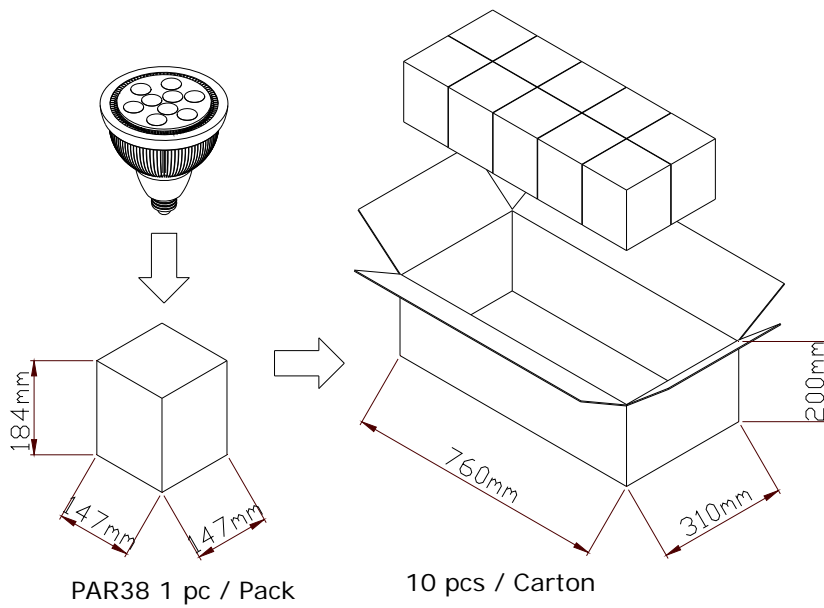


600mm :  
Beam angular : 36 degree



900mm :  
Beam angular : 36 degree

## Packing Pack, Carton Dimension



PAR38

Pack Dimensions : 147mm(length)\*147mm(width)\*184mm(height)

Carton Dimensions : 760mm(length)\*310mm(width)\*200mm(height)

	Weight	Dimension
<b>Unit</b>	0.41 Kg ( 1 pc net weight)	refer page 3
<b>Pack</b>	0.59 Kg ( 1 pc with Pack)	147mm(length)* 147mm(width)* 184mm(height)
<b>Carton</b>	6.60 Kg ( 10 pcs with Carton)	760mm(length)* 310mm(width)* 200mm(height)

