

標 示 章		海灣國際科技股份有限公司 Baytek International Technology	文件 編號	
			版次	1.7
			頁次	共 18 頁

BT-OLS-MPSD16W SERIES

POWERLED Module

AR111 Series

Lead (Pb) Free Product – RoHS Compliant

BIT Lighting System

16W AR111 Module

Technical Datasheet

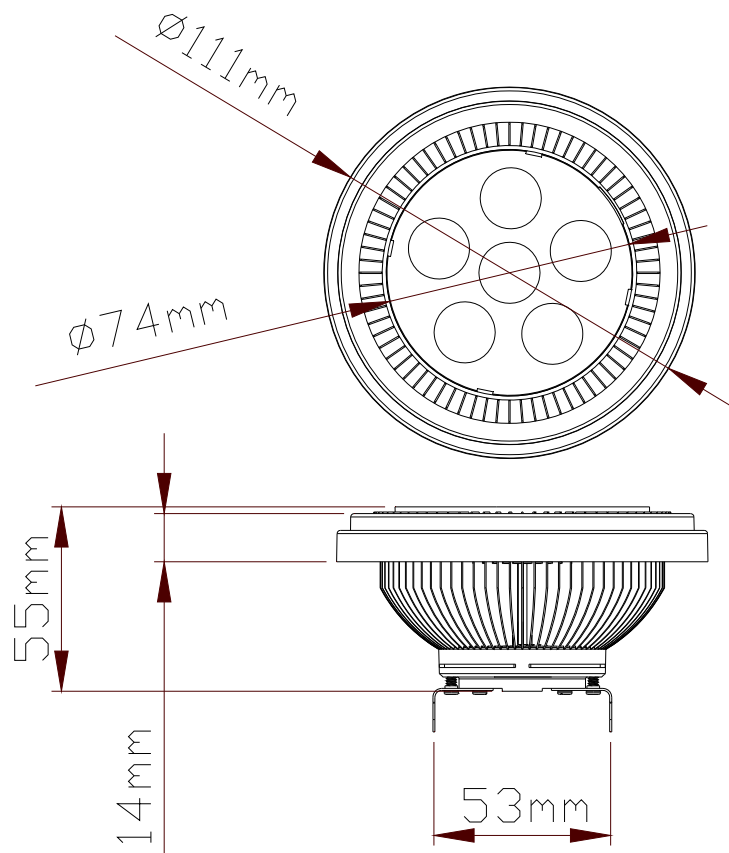
Version 1.7



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)

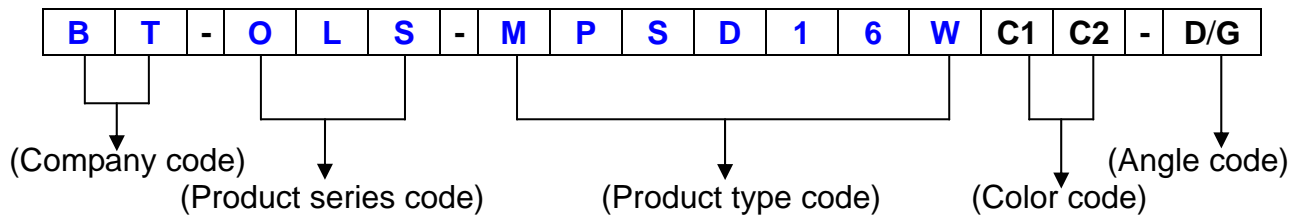
Mechanical Dimensions



Notes

- Do not use in outdoor or wet/humid areas or in totally enclosed fixtures.
- Net weight 0.2 Kg.

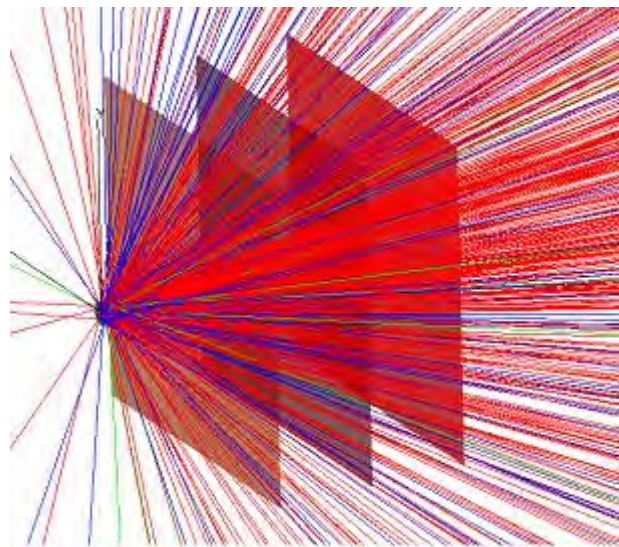
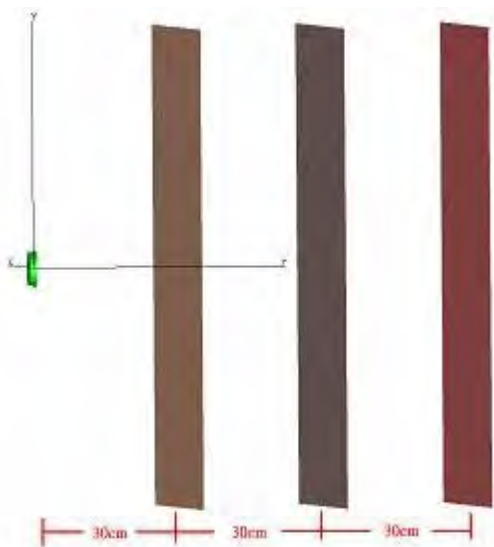
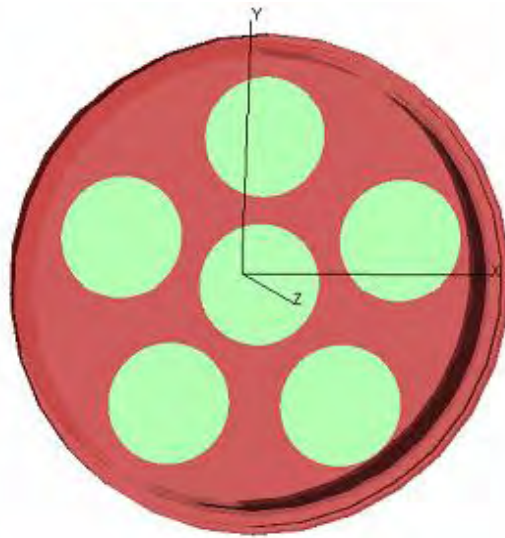
AR111 Module series Nomenclature



Electronics Specifications

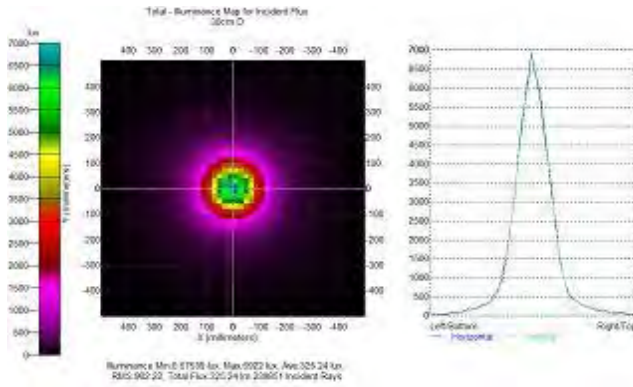
Parameters	OLS-MPSD16WWW	OLS-MPSD16WNW
Electrical		
Input Voltage	12 Vac	
LEDs	16W (6 LED High Power)	
Power Consumption	< 16W	
Housing	Aluminum	
Base	---	
Optical		
Lumen Output	WW : 480 / NW : 560	
Operating Life	> 35,000 hrs	
Beam Angle	25 deg(D) / 40 deg(G)	
Environment		
Operation Temperature	-20 ~ +50 °C	
Storage Temperature	-40 ~ +60 °C	
Operation Humidity	10 ~ 90 %	

AR111 warm white 25 degree simulation

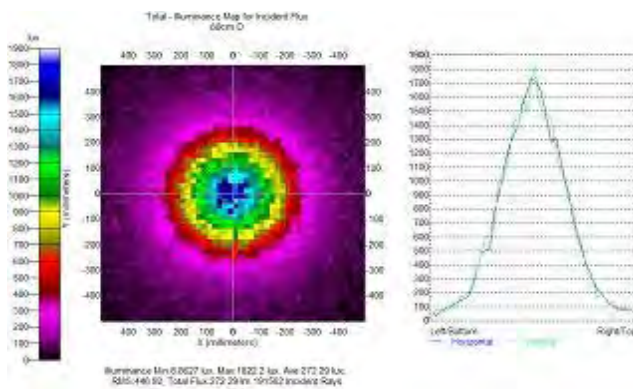


Total LEDs : 6 pcs
Each LED flux : 80 lm
Angular : 25 degree
Detector : 300mm ; 600mm ; 900mm

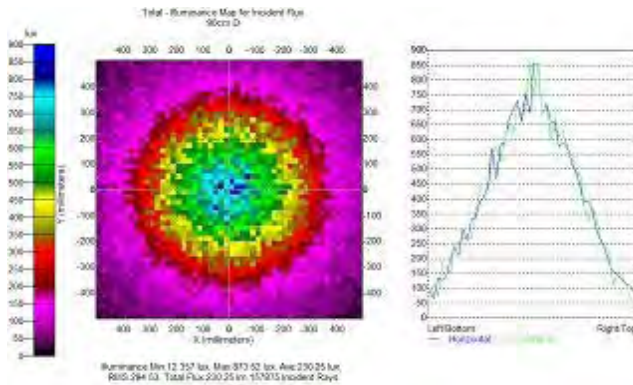
Illumination



300mm :
Average Illumination : **26500** lux
(presume photo sensor detector
size : 20 x 20 mm)



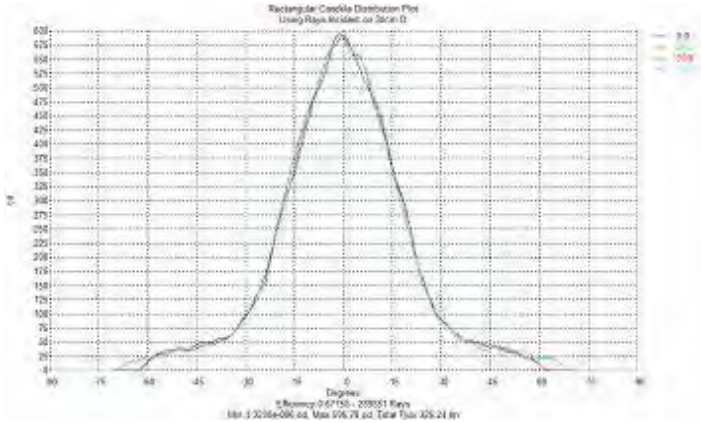
600mm :
Average Illumination : **6943.6** lux
(presume photo sensor detector
size : 20 x 20 mm)



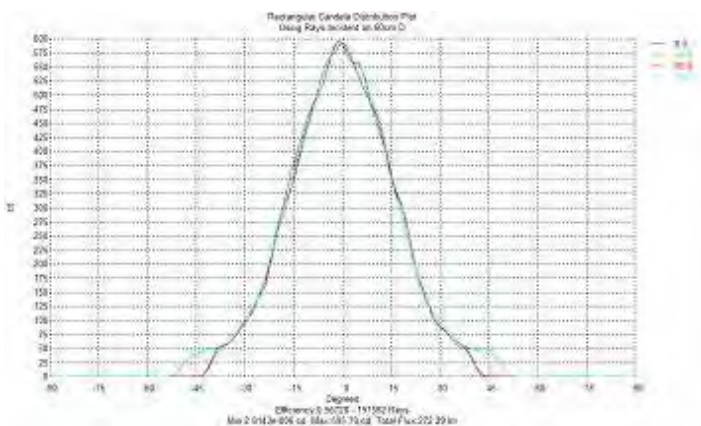
900mm :
Average Illumination : **3023.1** lux
(presume photo sensor detector
size : 20 x 20 mm)

- ◆ Average Illumination(300mm) \cong Average Illumination(600mm) x **3.82**
 \cong Average Illumination(900mm) x **8.77**
- ◆ Actuality Illumination detect from 1000mm is **4280** lux

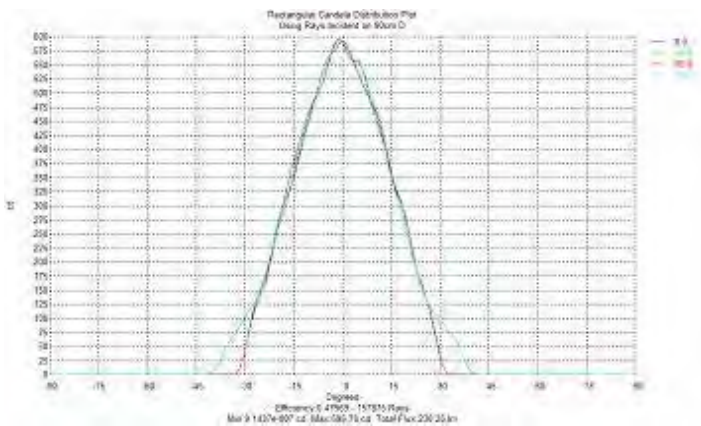
Radiation Pattern



300mm :
Beam angular : 36 degree

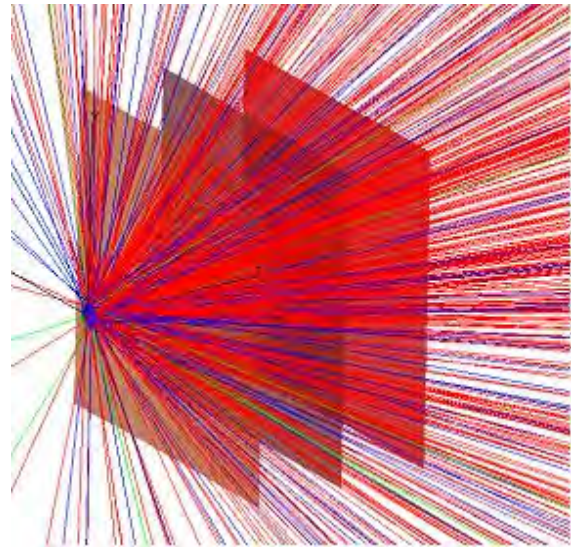
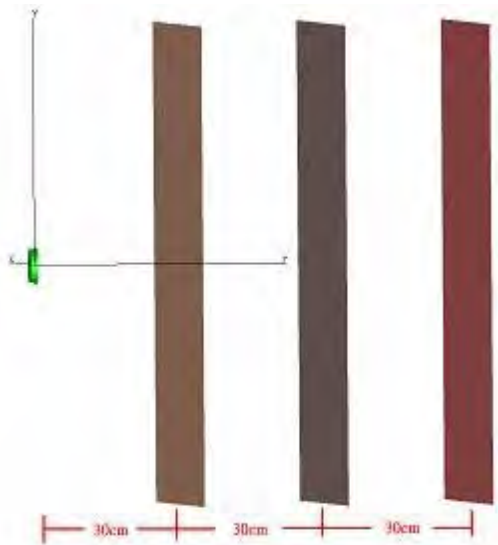
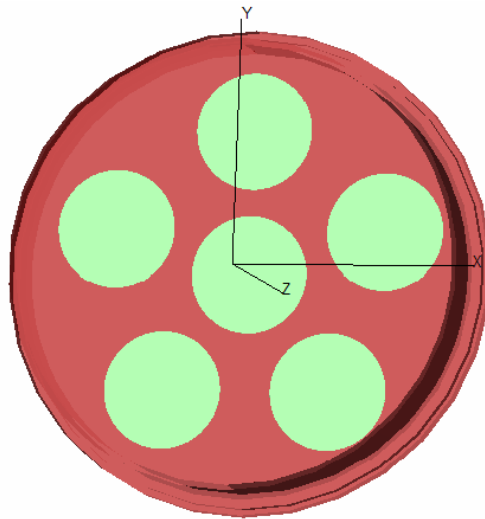


600mm :
Beam angular : 36 degree



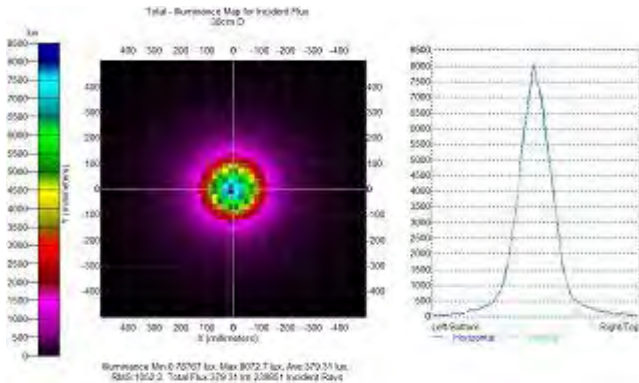
900mm :
Beam angular : 36 degree

AR111 normal white 25 degree simulation

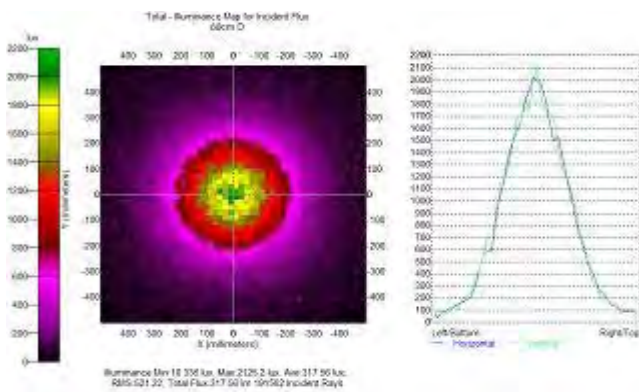


Total LEDs : 6 pcs
Each LED flux : 93.3 lm
Angular : 25 degree
Detector : 300mm ; 600mm ; 900mm

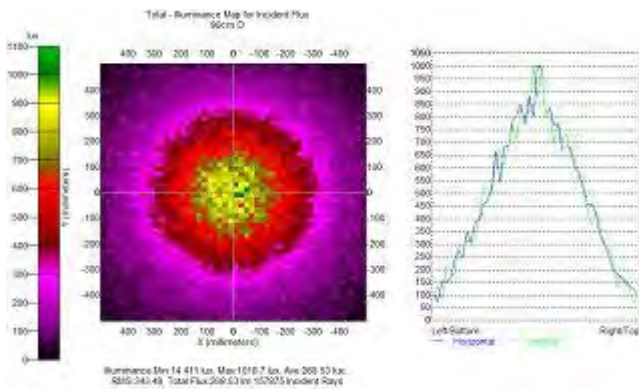
Illumination



300mm :
Average Illumination : **30905.5 lux**
(presume photo sensor detector
size : 20 x 20 mm)



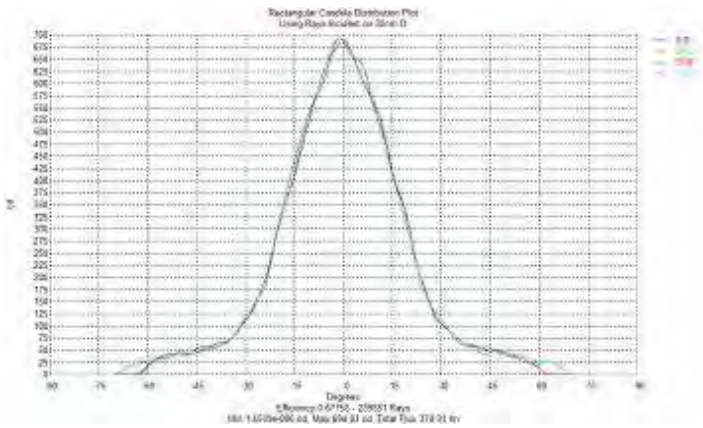
600mm :
Average Illumination : **8098 lux**
(presume photo sensor detector
size : 20 x 20 mm)



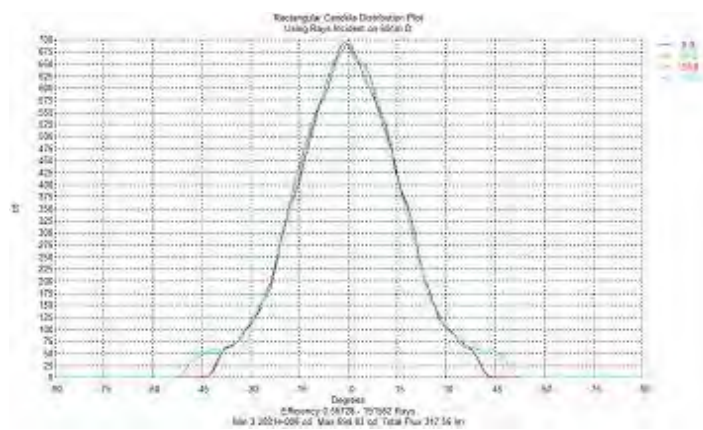
900mm :
Average Illumination : **3525.7 lux**
(presume photo sensor detector
size : 20 x 20 mm)

- ◆ Average Illumination(300mm) \cong Average Illumination(600mm) x 3.81
 \cong Average Illumination(900mm) x 8.77
- ◆ Actuality Illumination detect from 1000mm is **3685 lux**

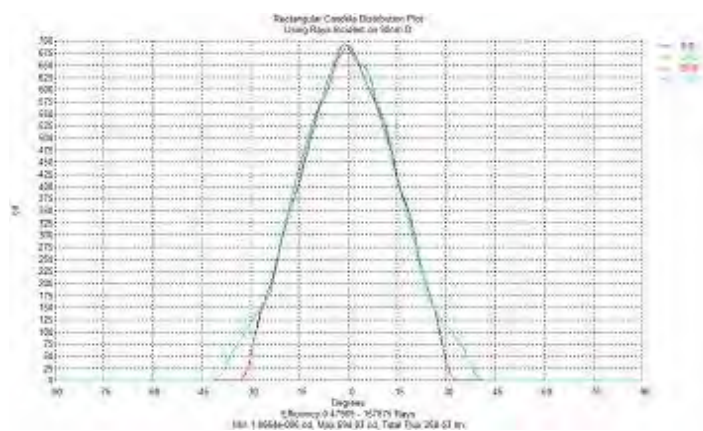
Radiation Pattern



300mm :
Beam angular : 36 degree

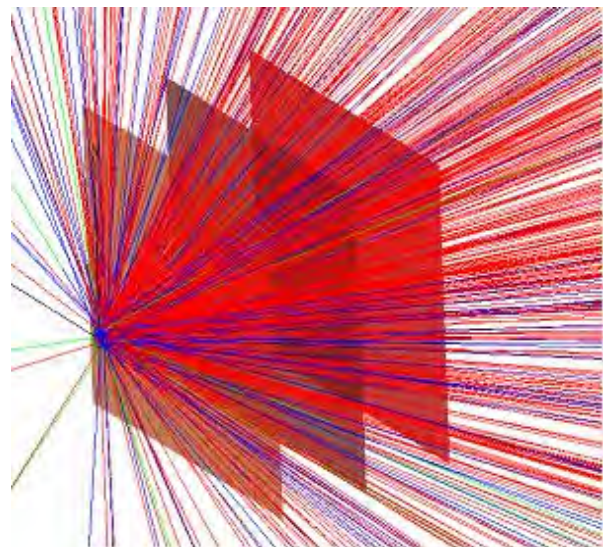
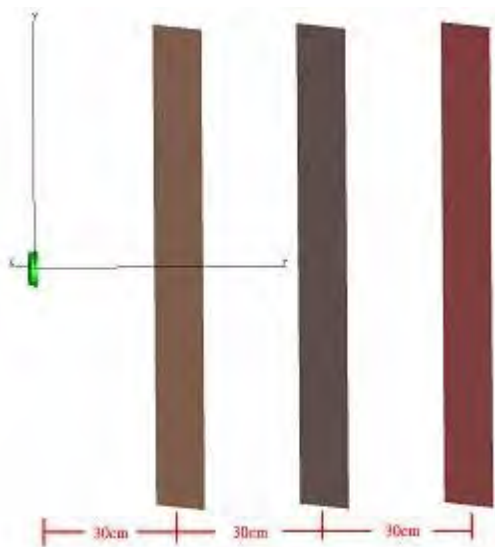
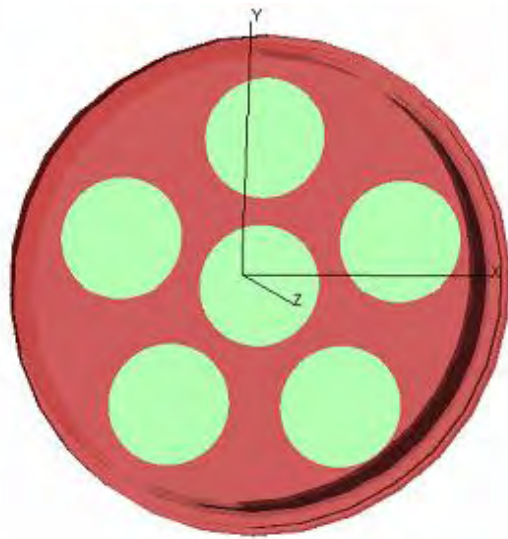


600mm :
Beam angular : 36 degree



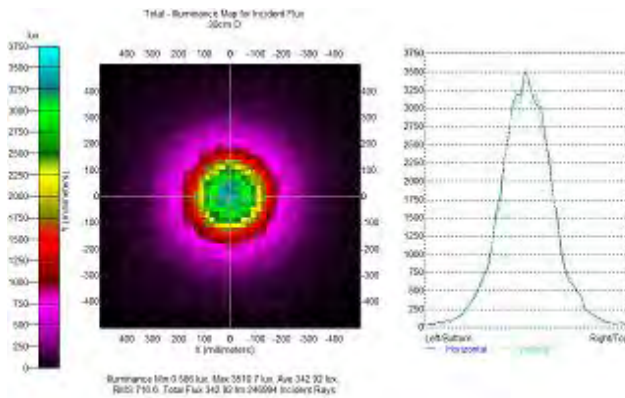
900mm :
Beam angular : 36 degree

AR111 warm white 40 degree simulation

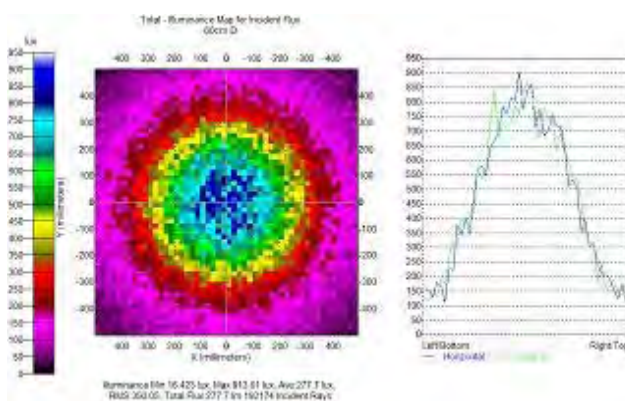


Total LEDs : 6 pcs
Each LED flux : 80 lm
Angular : 40 degree
Detector : 300mm ; 600mm ; 900mm

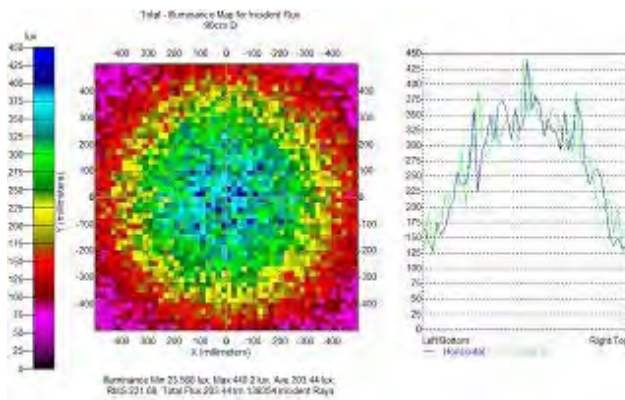
Illumination



300mm :
Average Illumination : **13625** lux
(presume photo sensor detector size : 20 x 20 mm)



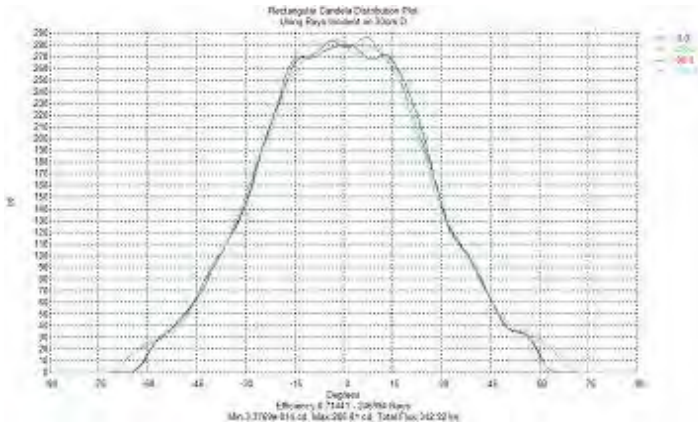
600mm :
Average Illumination : **3305.2** lux
(presume photo sensor detector size : 20 x 20 mm)



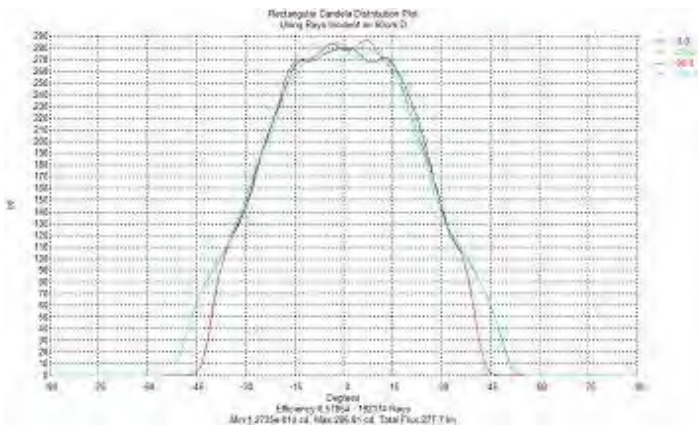
900mm :
Average Illumination : **1494.5** lux
(presume photo sensor detector size : 20 x 20 mm)

- ◆ Average Illumination(300mm) \cong Average Illumination(600mm) x 4.12
 \cong Average Illumination(900mm) x 9.12
- ◆ Actuality illumination detect from 1000mm is **2150** lux

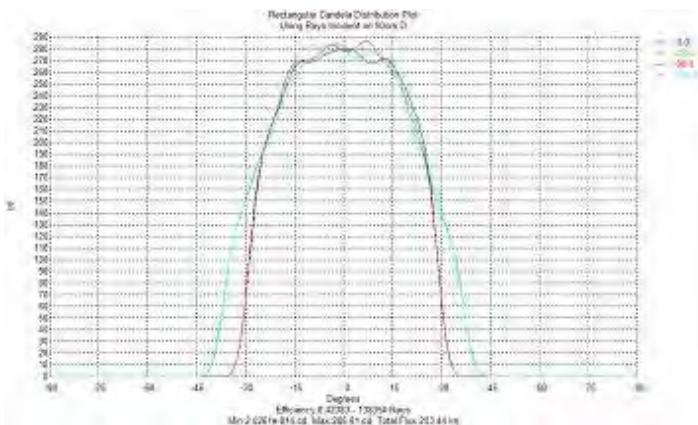
Radiation Pattern



300mm :
Beam angular : 60 degree

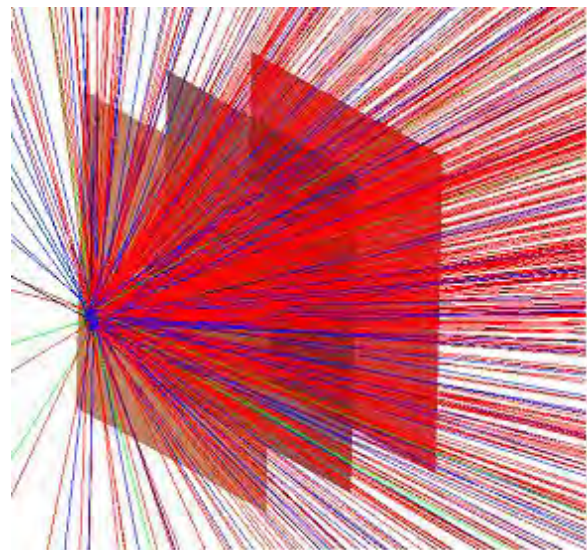
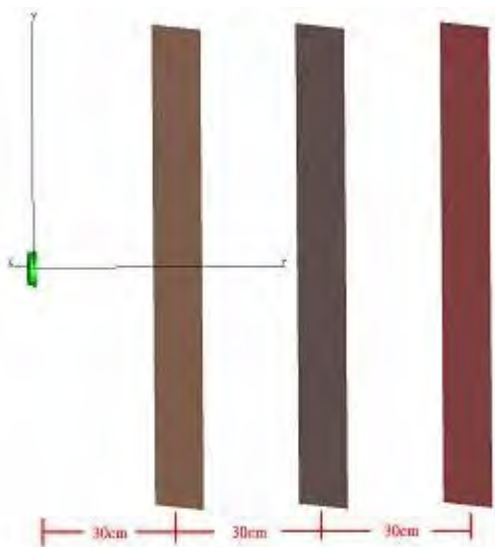
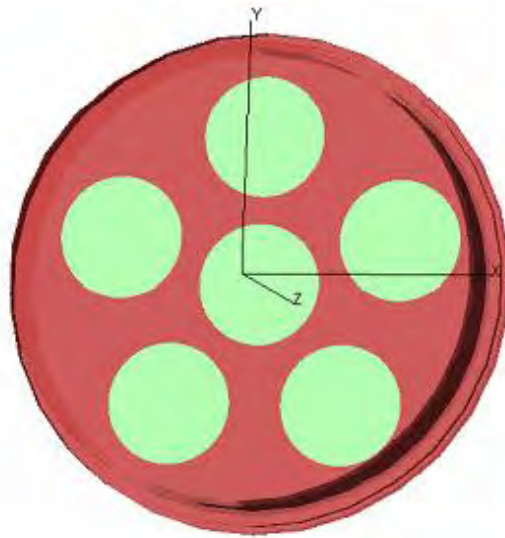


600mm :
Beam angular : 60 degree



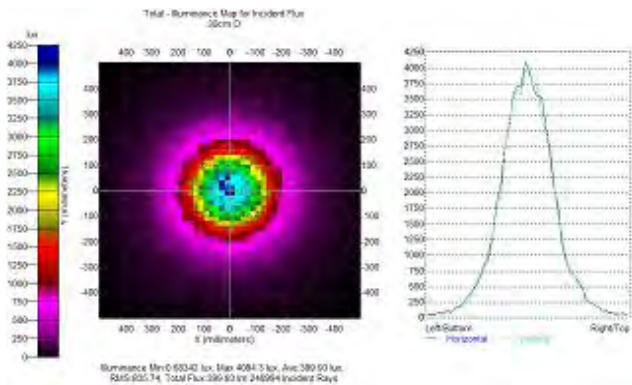
900mm :
Beam angular : 60 degree

AR111 normal white 40 degree simulation

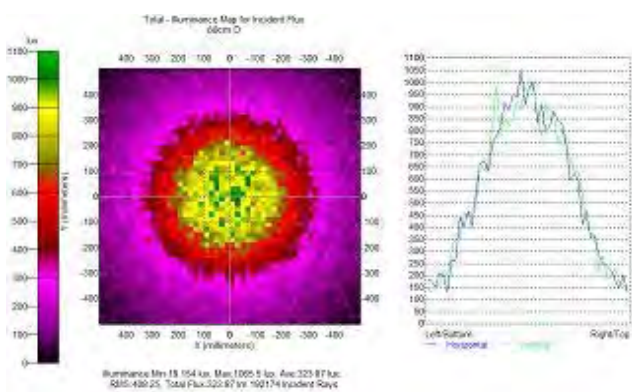


Total LEDs : 6 pcs
Each LED flux : 93.3 lm
Angular : 40 degree
Detector : 300mm ; 600mm ; 900mm

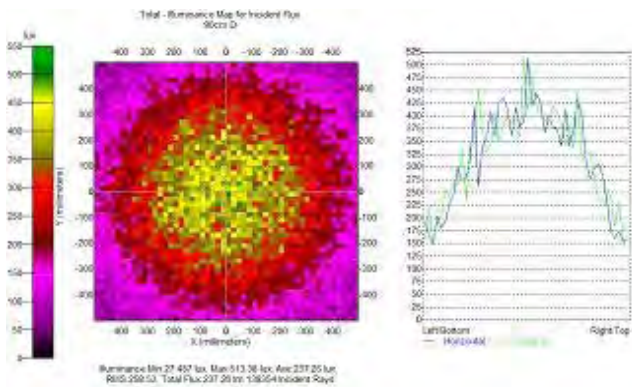
Illumination



300mm :
Average Illumination : **15890.1 lux**
(presume photo sensor detector size : 20 x 20 mm)



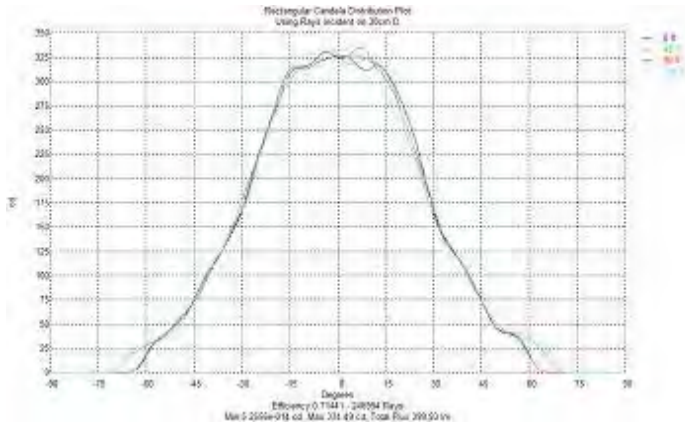
600mm :
Average Illumination : **3854.6 lux**
(presume photo sensor detector size : 20 x 20 mm)



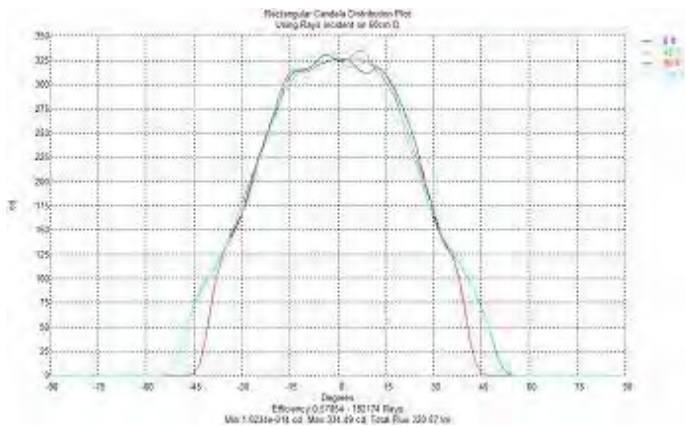
900mm :
Average Illumination : **1743 lux**
(presume photo sensor detector size : 20 x 20 mm)

- ◆ Average Illumination(300mm) \div Average Illumination(600mm) x **4.12**
 \div Average Illumination(900mm) x **9.12**
- ◆ Actuality Illumination detect from 1000mm is **1367 lux**

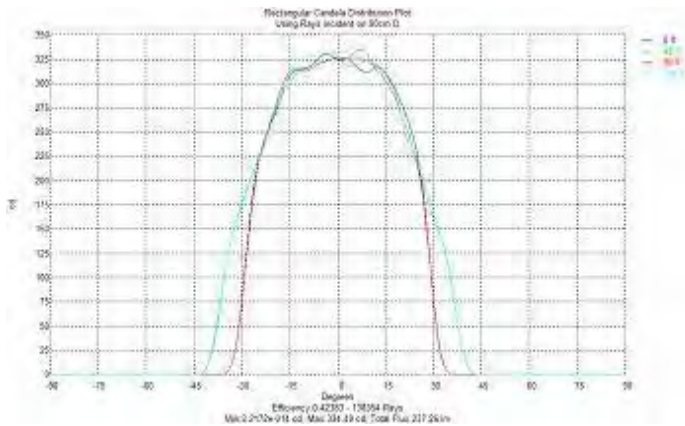
Radiation Pattern



300mm :
Beam angular : 60 degree

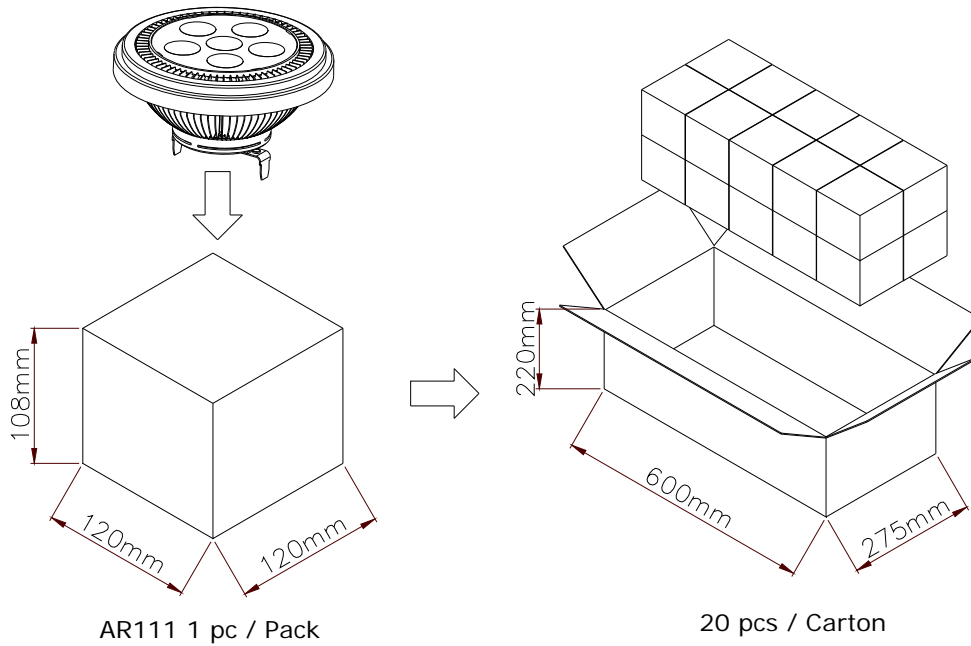


600mm :
Beam angular : 60 degree



900mm :
Beam angular : 60 degree

Packing Pack, Carton Dimensions



AR111

Pack Dimensions : 120mm(length)*120mm(width)*108mm(height)

Carton Dimensions : 600mm(length)*275mm(width)*220mm(height)

	Weight	Dimension
Unit	0.2 Kg (1 pc net weight)	refer page 3
Pack	0.31 Kg (1 pc with Pack)	120mm(length)* 120mm(width)* 108mm(height)
Carton	7.2 Kg (20 pcs with Carton)	600mm(length)* 275mm(width)* 220mm(height)

