

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
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BT-OLS-MPSEXXX-A SERIES

TUBE LAMP Module
Fluorescent PLCLED
Lead (Pb) Free Product – RoHS Compliant

BIT Lighting System
Fluorescent PLCLED
Technical Datasheet
Version 1.7

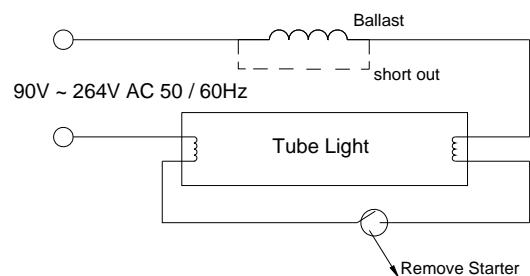
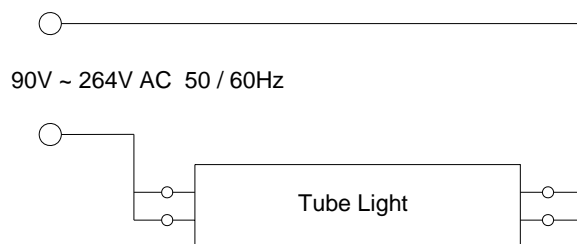


Features

- Energy-saving
- Low lighting dissipation/sink
- High-brightness
- Environment protection
- Long lifespan
- Eyes protection
- Anti-vibration

Installation

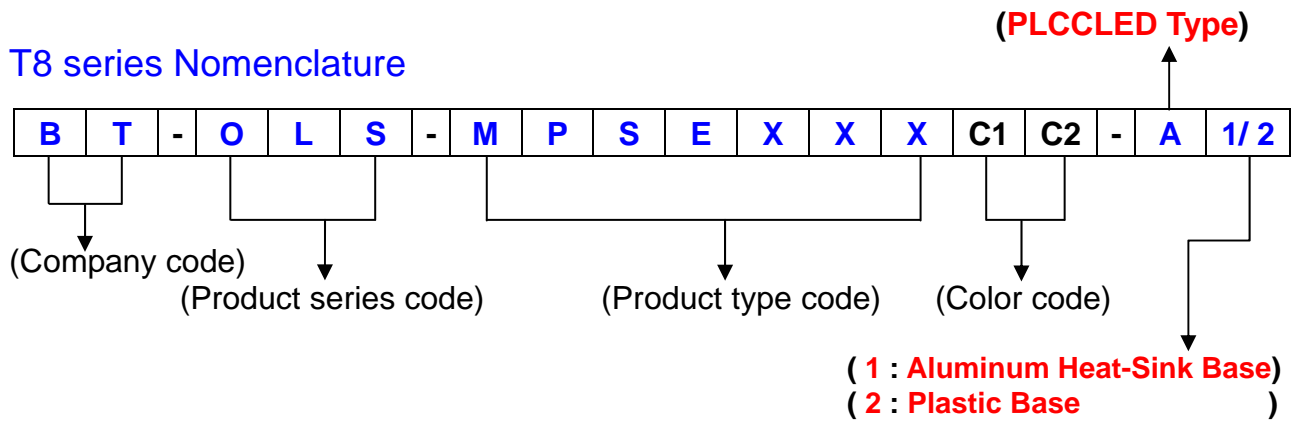
Installation Schematic



Notes

- Please ensure working voltage conforms to that marked on the label attached on the tube.
- This product is directly connected to the power supply, no ballast or starter is needed.
- Important; before replacing the existing fluorescent tube, the ballast and starter must be remove.
- The product is only for indoor lighting purpose.

T8 series Nomenclature



Parameter of Module

Model	Power	Main Parameter
MPSE100NW-A1 MPSE100NW-A2	10W	LED view angle : 120°
		Working temp : -30 ~ +85 °C
		Reserve temp : -40 ~ +100 °C
		CRI > 80
		Input V : Full rang AC power
		Work frequency : 50 ~ 60 Hz
		Size : L587mm * 30mm
		Luminous flux : 180 Lux
		Wave length : 6500 ± 300 K
		Power factor > 0.9
		PC type : PC / FR4
MPSE100WW-A1 MPSE100WW-A2	10W	LED view angle : 120°
		Working temp : -30 ~ +85 °C
		Reserve temp : -40 ~ +100 °C
		CRI > 80
		Input V: Full rang AC power
		Work frequency : 50 ~ 60 Hz
		Size : L587mm * 30mm
		Luminous flux : 120 Lux
		Wave length : 3200 ± 300 K
		Power factor > 0.9
		PC type : PC / FR4

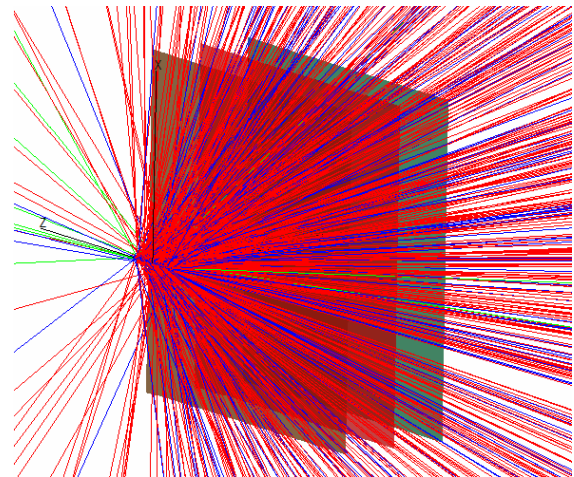
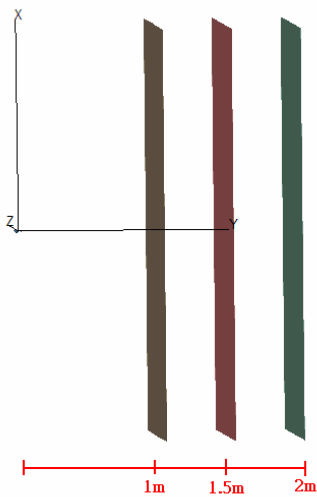
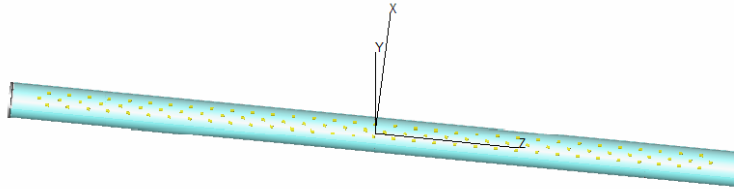
Parameter of Module

Model	Power	Main Parameter
MPSE200NW-A1 MPSE200NW-A2	20W	LED view angle : 120°
		Working temp : -30 ~ +85 °C
		Reserve temp : -40 ~ +100 °C
		CRI > 80
		Input V: Full rang AC power
		Work frequency : 50 ~ 60 Hz
		Size : L1198mm * 30mm
		Luminous flux : 380 Lux
		Wave length : 6500 ± 300 K
		Power factor > 0.9
		PC type : PC / FR4
		Weight : 0.475 Kg for MPSE200NW-A1 0.375 Kg for MPSE200NW-A2
MPSE200WW-A1 MPSE200WW-A2	20W	LED view angle : 120°
		Working temp : -30 ~ +85 °C
		Reserve temp : -40 ~ +100 °C
		CRI > 80
		Input V: Full rang AC power
		Work frequency : 50 ~ 60 Hz
		Size : L1198mm * 30mm
		Luminous flux : 280 Lux
		Wave length : 3200 ± 300 K
		Power factor > 0.9
		PC type : PC / FR4
		Weight : 0.475 Kg for MPSE200WW-A1 0.375 Kg for MPSE200WW-A2

Parameter of Module

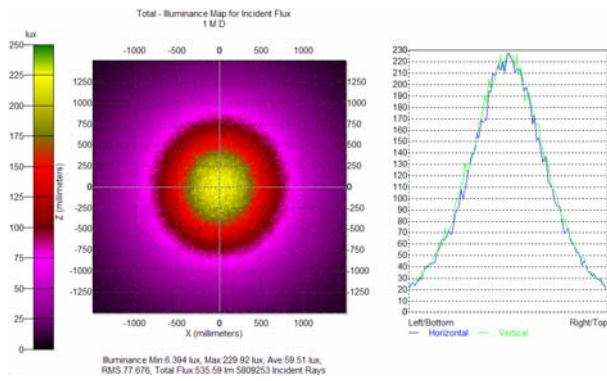
Model	Power	Main Parameter
MPSE324NW-A1 MPSE324NW-A2	25W	LED view angle : 120°
		Working temp : -30 ~ +85 °C
		Reserve temp : -40 ~ +100 °C
		CRI > 80
		Input V: Full rang AC power
		Work frequency : 50 ~ 60 Hz
		Size : L1498mm * 30mm
		Luminous flux : 430 Lux
		Wave length : 6500 ± 300 K
		Power factor > 0.9
		PC type : PC / FR4
MPSE324WW-A1 MPSE324WW-A2	25W	LED view angle : 120°
		Working temp : -30 ~ +85 °C
		Reserve temp : -40 ~ +100 °C
		CRI > 80
		Input V: Full rang AC power
		Work frequency : 50 ~ 60 Hz
		Size : L1498mm * 30mm
		Luminous flux : 330 Lux
		Wave length : 3200 ± 300 K
		Power factor > 0.9
		PC type : PC / FR4

T8 (60cm) simulation

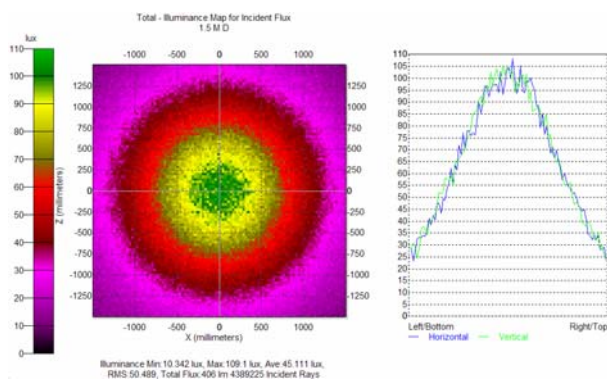


Each LED flux : 6.5 lm
Angular : 120 degree
Detector : 1000mm ; 1500mm ; 2000mm

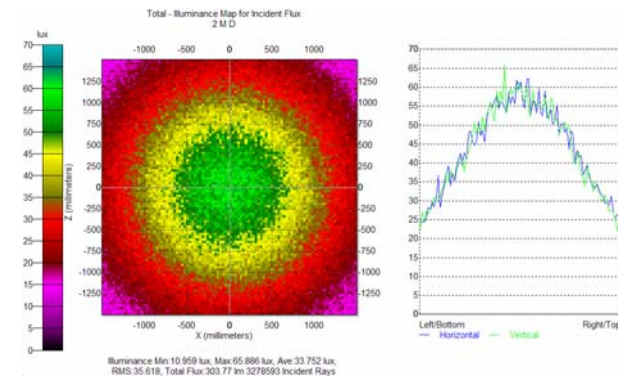
Illumination



1000mm :
Center average Illumination : **229.9 lux**



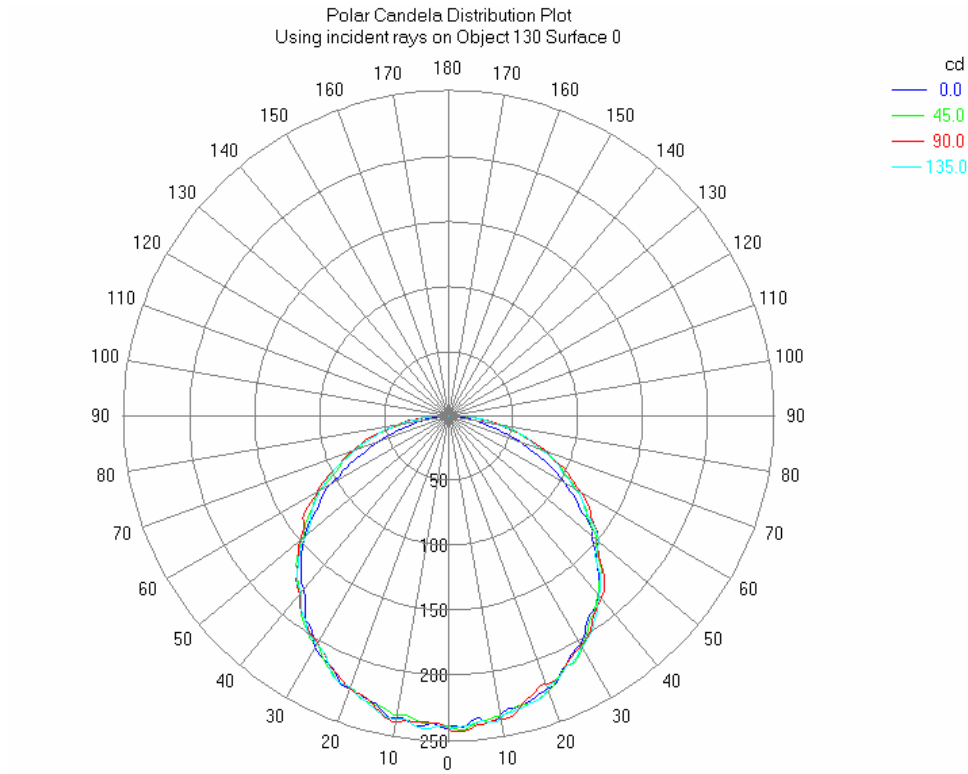
1500mm :
Center average Illumination : **109.1 lux**



2000mm :
Center average Illumination : **65.9 lux**

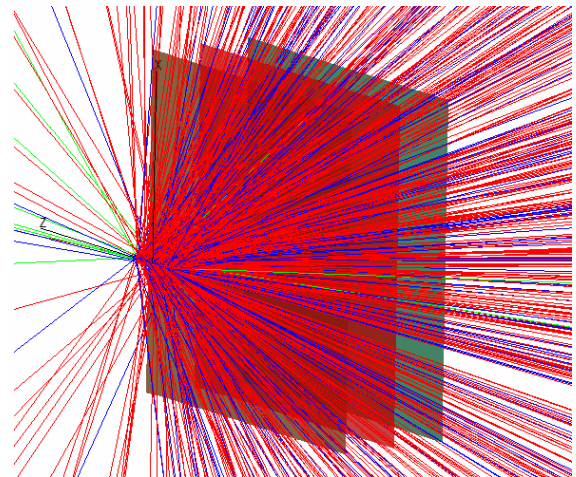
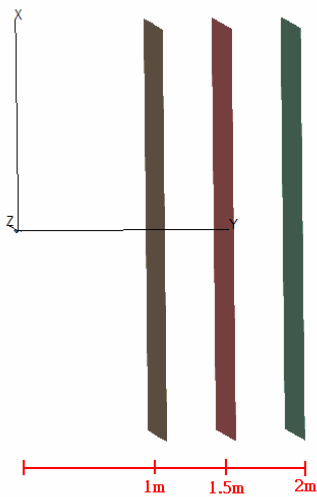
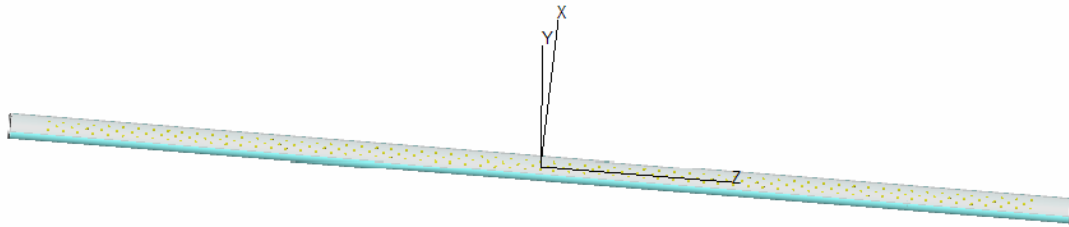
- ◆ Average Illumination(1000mm) \cong Average Illumination(1500mm) x 2.09
- \cong Average Illumination(2000mm) x 3.48

Radiation Pattern



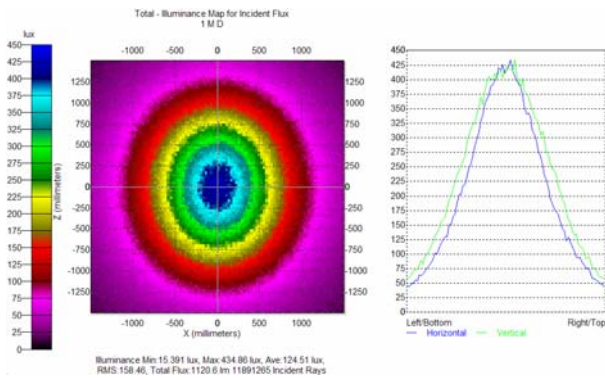
Beam angle: 120 deg

T8 (120cm) simulation

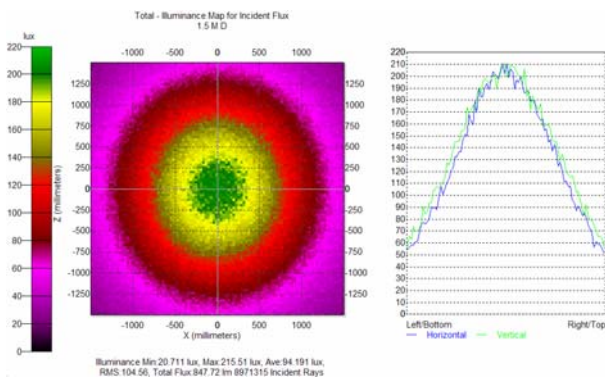


Each LED flux : 6.5 lm
Angular : 120 degree
Detector : 1000mm ; 1500mm ; 2000mm

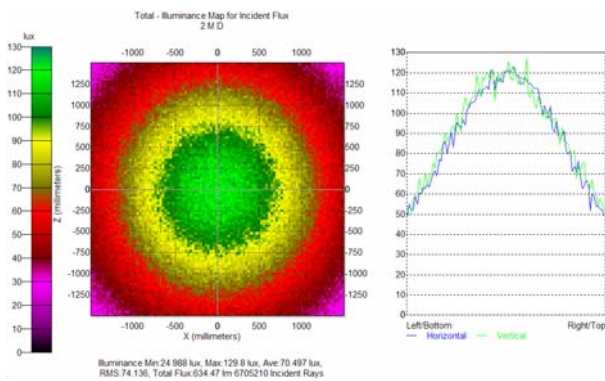
Illumination



1000mm :
Center average Illumination : **434.8 lux**



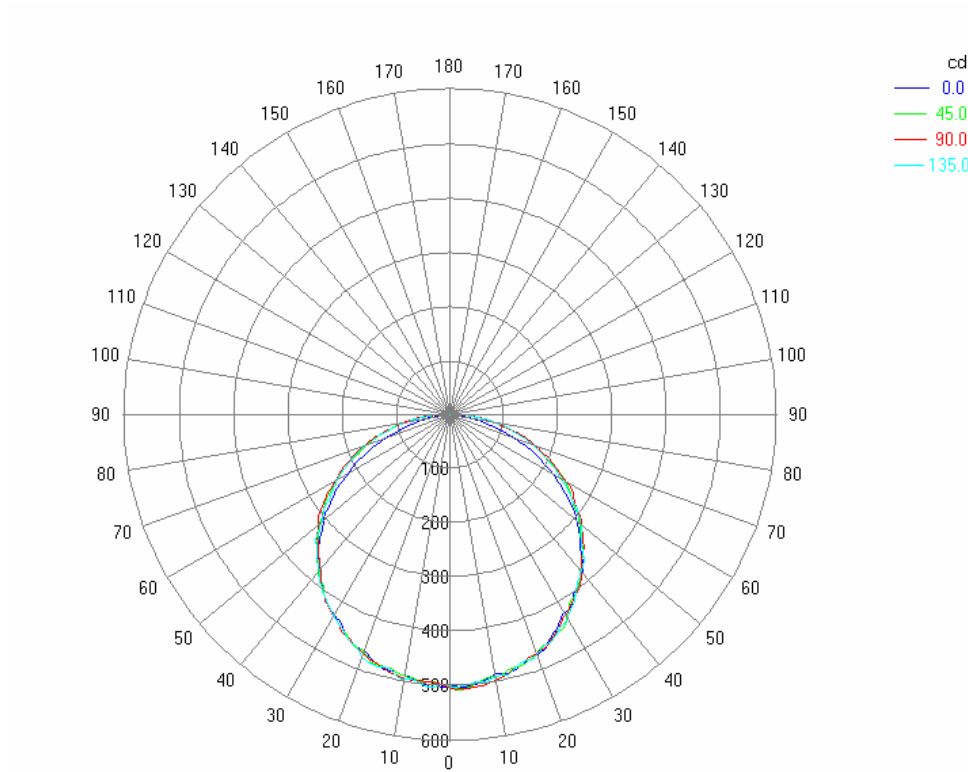
1500mm :
Center average Illumination : **215.5 lux**



2000mm :
Center average Illumination : **129.8 lux**

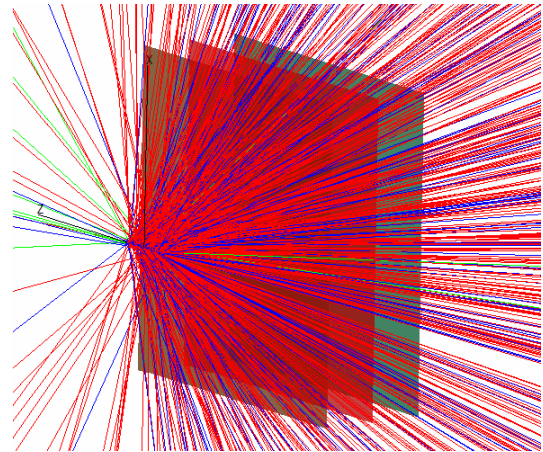
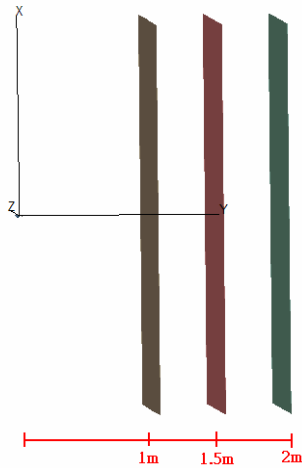
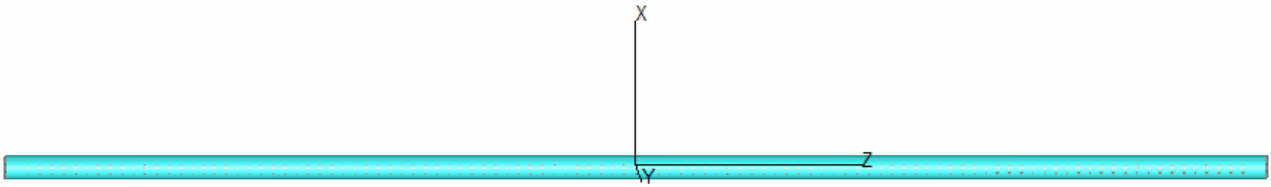
- ◆ Average Illumination(1000mm) \doteq Average Illumination(1500mm) x 2.01
- \doteq Average Illumination(2000mm) x 3.35

Radiation Pattern



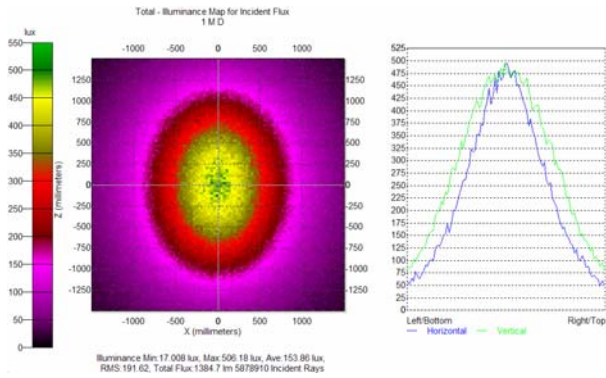
Beam angle: 120 deg

T8 (150cm) simulation

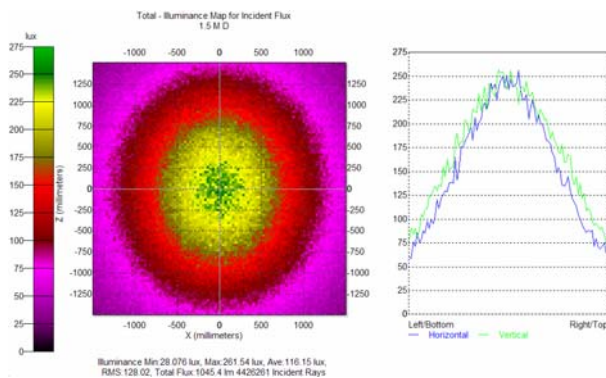


Each LED flux : 6.5 lm
Angular : 120 degree
Detector : 1000mm ; 1500mm ; 2000mm

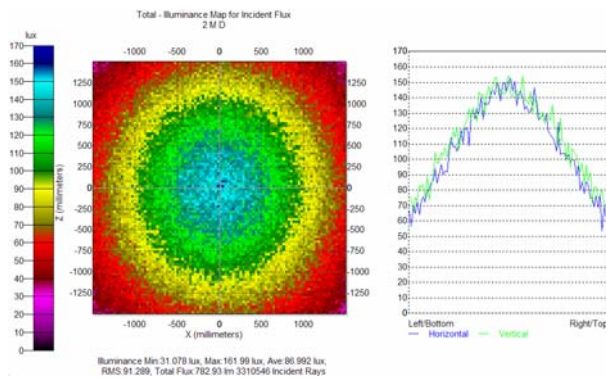
Illumination



1000mm :
Center average Illumination : **506.18** lux



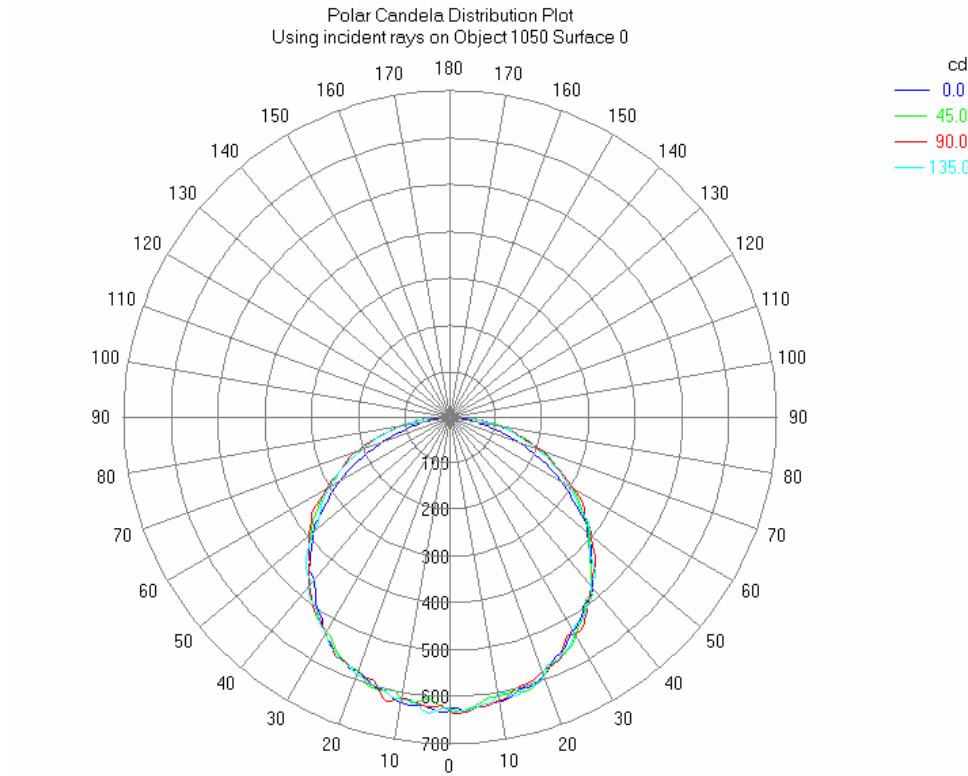
1500mm :
Center average Illumination : **261.54** lux



2000mm :
Center average Illumination : **161.99** lux

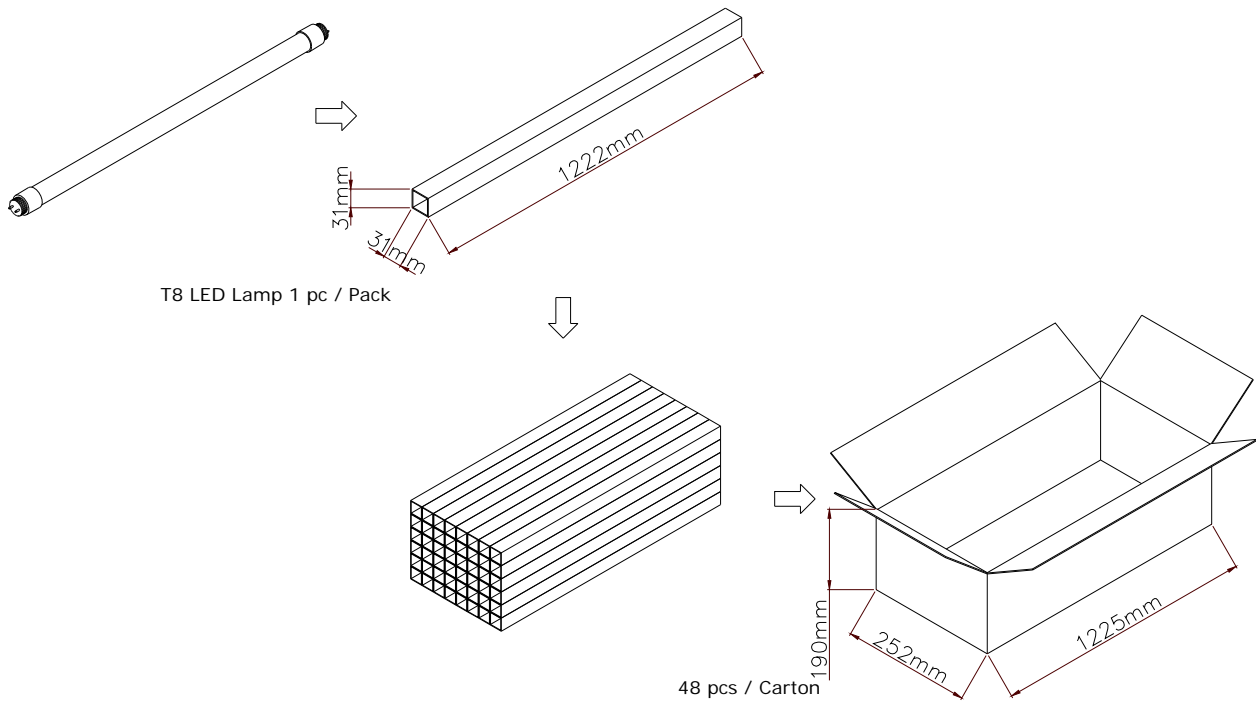
◆ Average Illumination(1000mm) \doteq Average Illumination(1500mm) x 1.93
 \doteq Average Illumination(2000mm) x 3.12

Radiation Pattern



Beam angle: 120 deg

Packing Pack, Carton Dimension for BT-OLS-MPSE200 series



T8 LED Lamp (120cm)

Pack Dimensions : 1222mm(length)*31mm(width)*31mm(height)

Carton Dimensions : 1225mm(length)*252mm(width)*190mm(height)

BT-OLS-MPSE200NW-A1 and BT-OLS-MPSE200WW-A1

	Weight	Dimension
Unit	0.475Kg (1 pc net weight)	1198mm(length)* 30mm(diameter)
Pack	0.585Kg (1 pc with Pack)	1222mm(length)* 31mm(width)* 31mm(height)
Carton	29.4Kg (48 pcs with Carton)	1225mm(length)* 252mm(width)* 190mm(height)

BT-OLS-MPSE200NW-A2 and BT-OLS-MPSE200WW-A2

	Weight	Dimension
Unit	0.375Kg (1 pc net weight)	1198mm(length)* 30mm(diameter)
Pack	0.485Kg (1 pc with Pack)	1222mm(length)* 31mm(width)* 31mm(height)
Carton	24.6Kg (48 pcs with Carton)	1225mm(length)* 252mm(width)* 190mm(height)

