

# 规格书 Specifications

WT-45@22-XXCOBLX-Y1



**莹光系列**  
High penetration series



镜片材料 PMMA 8N温度-40°C~+70°C

透光率 400nm~900nm>90%

需要LF, 用温和的水和软布清洁镜片。

切勿在镜片上酒精及使用任何商业清洁溶剂。

请戴手套处理或安装镜片, 皮肤油脂可能会损坏镜片或其光学特性。

Lens material PMM working temperature:-40°C~+70°C

If necessary,Clean lenses with water or wet softcloth.

Never use any commercial cleaning solvents on lenses as alcohol.

When assembly, wearing gloves please,skin oils may damage lens or affect optial characterisitic.

## 莹光系列 | High penetration series

WT-20@10-15COBL3-Y1	φ19.8×9.48mm	15°	WT-25@12-15COBL4-Y1	φ24.8×12.5mm	15°	WT-25@12-15COBL4-Y2	φ24.8×12.5mm	15°
WT-20@10-24COBL3-Y1	φ19.8×9.48mm	24°	WT-25@12-24COBL4-Y1	φ24.8×12.5mm	24°	WT-25@12-24COBL4-Y2	φ24.8×12.5mm	24°
WT-20@10-36COBL3-Y1	φ19.8×9.48mm	36°	WT-25@12-36COBL4-Y1	φ24.8×12.5mm	36°	WT-25@12-36COBL4-Y2	φ24.8×12.5mm	36°
WT-20@10-50COBL3-Y1	φ19.8×9.48mm	50°	WT-25@12-60COBL4-Y1	φ24.8×12.5mm	50°	WT-25@12-60COBL4-Y2	φ24.8×12.5mm	50°
WT-29@14-15COBL6-Y1	φ28.8×14.5mm	15°	WT-35@17-10COBL3-Y1	φ34.8×13.85mm	10°	WT-35@17-15COBL6-Y2	φ34.8×17.55mm	15°
WT-29@14-24COBL6-Y1	φ28.8×14.5mm	24°	WT-35@17-15COBL6-Y1	φ34.8×17.55mm	15°	WT-35@17-24COBL6-Y2	φ34.8×17.55mm	24°
WT-29@14-36COBL6-Y1	φ28.8×14.5mm	36°	WT-35@17-24COBL6-Y1	φ34.8×17.55mm	24°	WT-35@17-36COBL6-Y2	φ34.8×17.55mm	36°
WT-29@14-50COBL6-Y1	φ28.8×14.5mm	50°	WT-35@17-36COBL6-Y1	φ34.8×17.55mm	36°	WT-35@17-50COBL6-Y2	φ34.8×17.55mm	50°
WT-40@20-10COBL6-Y1	φ39.8×20mm	10°	WT-45@22-10COBL6-Y1	φ44.8×17.75mm	10°	WT-50@24-10COBL9-Y1	φ49.8×19.05mm	10°
WT-40@20-15COBL6-Y1	φ39.8×20mm	15°	WT-45@22-15COBL9-Y1	φ44.8×19.05mm	15°	WT-50@24-15COBL9-Y1	φ49.8×20.28mm	15°
WT-40@20-24COBL6-Y1	φ39.8×20mm	24°	WT-45@22-24COBL9-Y1	φ44.8×22.5mm	24°	WT-50@24-24COBL9-Y1	φ49.8×23.85mm	24°
WT-40@20-36COBL6-Y1	φ39.8×20mm	36°	WT-45@22-36COBL9-Y1	φ44.8×22.5mm	36°	WT-50@24-36COBL9-Y1	φ49.8×23.85mm	36°
WT-40@20-50COBL6-Y1	φ39.8×20mm	50°	WT-45@22-50COBL9-Y1	φ44.8×22.5mm	50°	WT-50@24-50COBL9-Y1	φ49.8×23.85mm	50°
WT-55@26-15COBL11-Y1	φ54.8×26.25mm	15°	WT-62@30-15COBL11-Y1	φ61.8×29.6mm	15°	WT-68@33-15COBL11-Y1	φ67.8×32.5mm	15°
WT-55@26-24COBL11-Y1	φ54.8×26.25mm	24°	WT-62@30-24COBL11-Y1	φ61.8×29.6mm	24°	WT-68@33-24COBL11-Y1	φ67.8×32.5mm	24°
WT-55@26-36COBL11-Y1	φ54.8×26.25mm	36°	WT-62@30-36COBL11-Y1	φ61.8×29.6mm	36°	WT-68@33-36COBL11-Y1	φ67.8×32.5mm	36°
WT-55@26-50COBL11-Y1	φ54.8×26.25mm	50°	WT-62@30-50COBL11-Y1	φ61.8×29.6mm	50°	WT-68@33-50COBL11-Y1	φ67.8×32.5mm	50°
WT-75@36-15COBL14-Y1	φ74.8×35.8mm	15°						
WT-75@36-24COBL14-Y1	φ74.8×35.8mm	24°						
WT-75@36-36COBL14-Y1	φ74.8×35.8mm	36°						
WT-75@36-50COBL14-Y1	φ74.8×35.8mm	50°						

### 技术参数 | Specifications



型号 Code	发光面 light-emitting surface	角度 FWHM	尺寸 Size(L*W*H)mm	标准效率 Typ.eff	材质 Material
WT-45@22-10COBL6-Y1	φ4/φ6mm COB	10°	φ44.8×17.75	93%	PMMA
WT-45@22-15COBL9-Y1	φ6mm COB	15°	φ44.8×19.05	93%	PMMA
WT-45@22-24COBL9-Y1	φ9mm COB	24°	φ44.8×22.5	93%	PMMA
WT-45@22-36COBL9-Y1	φ9mm COB	36°	φ44.8×22.5	93%	PMMA
WT-45@22-50COBL9-Y1	φ9mm COB	50°	φ44.8×22.5	93%	PMMA

### 产品配件 | Product accessories



碗杯 (PC)	Lens Holder (PC)	(10° ) WT-F45H-10B (15°)WT-F45H-15B	D 45, H 19.3 mm
碗杯 (PC)	Lens Holder (PC)	(24° 36°)WT-F45Y-B	D 44.96, H 18.6 mm



支架 (PC)	COB Holder (PC)	(10° 15°)WT-F45H-C135	D 31, H 3.5mm
支架 (PC)	COB Holder (PC)	(24° 36°)WT-F45H-C135/C16/C18/C19	D 31, H 3.5mm

### 产品尺寸 | Dimensions(Unit:mm)

透镜 Lens		碗杯 Lens Holder		支架 COB Holder	
WT-45@22-10COBL6-Y1	φ44.8×17.75	(10° 15°)WT-F45H-15B	D 45, H 19.3 mm	(10° 15°)WT-F45H-C135	D 31, H 3.5mm
WT-45@22-15COBL9-Y1	φ44.8×19.05	(24° 36°)WT-F45Y-B	D 44.96, H 18.6 mm	(24° 36°)WT-F45H-C135	D 31, H 3.5mm
WT-45@22-24/36/60COBL9-Y1	φ44.8×22.5			/C16/C18/C19	

Shenzhen Wisertop Technology Co.,Ltd				PART NO.: WT-45@22-XXCOBLX-Y1		NAME: LED LENS	
TOLERANCE UNLESS OTHERWISE MARKEDDIMENSION: ANGULAR 0.2 0~6:±0.05 6~30:±0.10 30~120:±0.15				MATERIAL: PMMA		SPEC:	
				APPR OVED	CHECK ED	DRAW BY	REV: A01
A3	UNIT: mm	SCALE: 1:1	SHEET 1OF1				

线性	等级	F	M	C	
0-3		±0.05	±0.1	±0.2	— 直线度
>3-6		±0.05	±0.1	±0.2	▭ 平面度
>6-16		±0.1	±0.15	±0.3	○ 圆度
>16-30		±0.1	±0.2	±0.5	⊘ 圆柱度
>30-120		±0.15	±0.3	±0.8	⌒ 线轮廓度
>120-315		±0.2	±0.5	±1.2	⌒ 面轮廓度
>315-1000		±0.5	±0.8	±2.0	// 平行度
>1000-2000		±1.0	±1.2	±3.0	⊥ 垂直度
角度		±60°			≡ 对称度
					◎ 同轴度

## 装箱尺寸 | Packing (Unit:mm)

透镜 Lens	
产品尺寸Single Size(L*W*H)	φ44.8×17.75 φ44.8×19.05 φ44.8×22.5
包装尺寸Box Size(L*W*H)	250×230×380
外箱尺寸CTN Size(L*W*H)	390×245×395
装箱数量PCS/CTN	680pcs

注：透镜使用吸塑托盘包装

灯杯 Holder	
产品尺寸Single Size(L*W*H)	φ45×19.3 φ44.96×18.6
包装尺寸Box Size(L*W*H)	300×200
外箱尺寸CTN Size(L*W*H)	/
装箱数量PCS/CTN	2400pcs

注：灯杯使用袋装

支架 PTape	
产品尺寸Single Size(L*W*H)	φ31×3.5
包装尺寸Box Size(L*W*H)	300×200
外箱尺寸CTN Size(L*W*H)	/
装箱数量PCS/CTN	8400pcs

注：支架使用袋装

## 配光曲线 | Luminance Diatribution Diagram

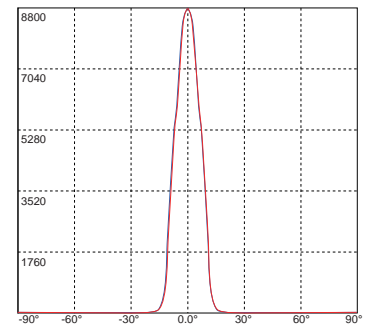
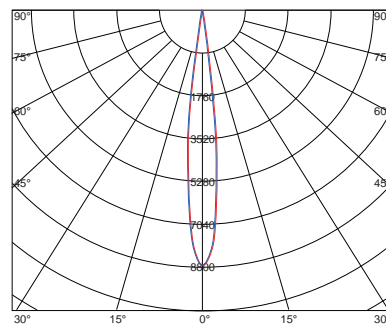


WT-45@22-10COBL6-Y1

LED	CXM-4
FWHM	10.7°
FWTM	17.1°
Peak intensity	15.3 cd /lm
Efficiency	93 %
Aluminum substrate size	13.5×13.5

Average Beam Angle (50%):10.7°  
Radiation Intensity (Unit: cd)

— C0·C180 10.7°  
— C90·C270 10.7°

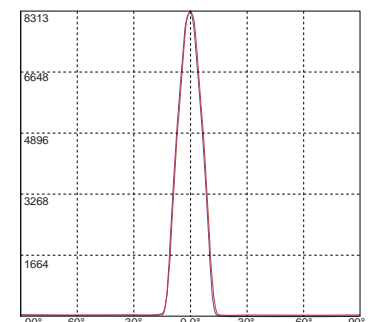
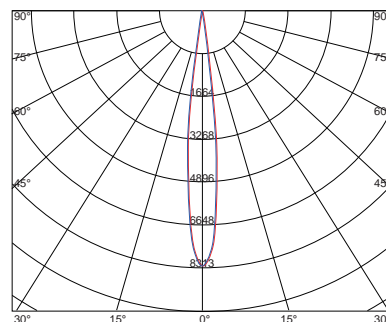


WT-45@22-10COBL6-Y1

LED	V4HD
FWHM	11.9°
FWTM	18.5°
Peak intensity	15.242cd /lm
Efficiency	93 %
Aluminum substrate size	13.5×13.5

Average Beam Angle (50%):11.9°  
Radiation Intensity (Unit: cd)

— C0·C180 11.9°  
— C90·C270 11.9°



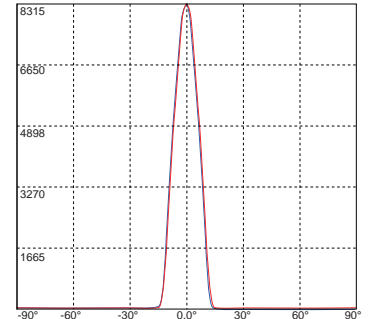
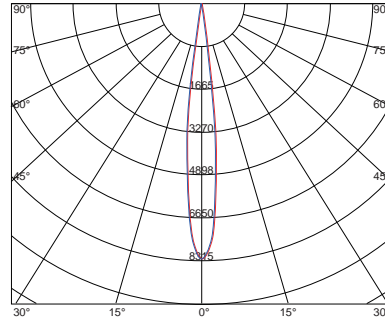


WT-45@22-10COBL6-Y1

LED	P4
FWHM	11.7°
FWTM	18.4°
Peak intensity	15.31cd /lm
Efficiency	93 %
Aluminum substrate size	13.5×13.5

Average Beam Angle (50%):11.7°  
Radiation Intensity (Unit: cd)

— C0·C180 11.7°  
— C90·C270 11.7°



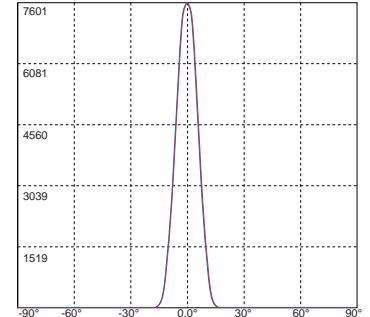
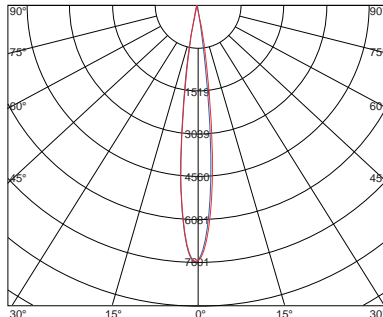
# OSRAM

WT-45@22-15COBL9-Y1

LED	1202
FWHM	14.8°
FWTM	23.6°
Peak intensity	7.69cd /lm
Efficiency	93 %
Aluminum substrate size	13.35×13.35

Average Beam Angle (50%):14.8°  
Radiation Intensity (Unit: cd)

— C0·C180 14.8°  
— C90·C270 14.8°



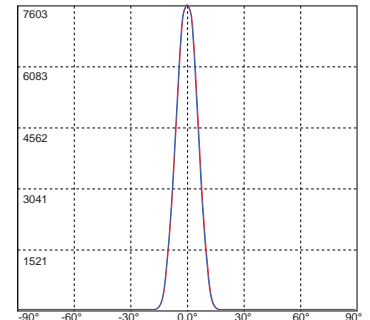
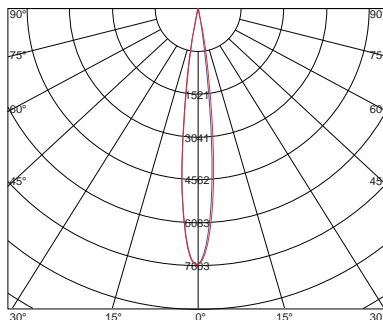
# PHILIPS

WT-45@22-15COBL9-Y1

LED	1201/1202
FWHM	15°
FWTM	23.8°
Peak intensity	7.841cd /lm
Efficiency	93 %
Aluminum substrate size	13.35×13.35

Average Beam Angle (50%): 15°  
Radiation Intensity (Unit: cd)

— C0·C180 15°  
— C90·C270 15°



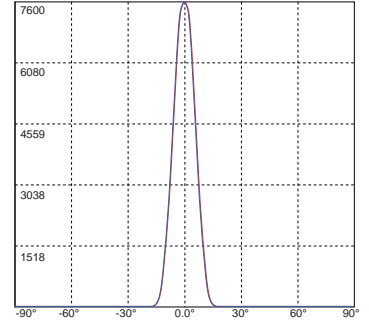
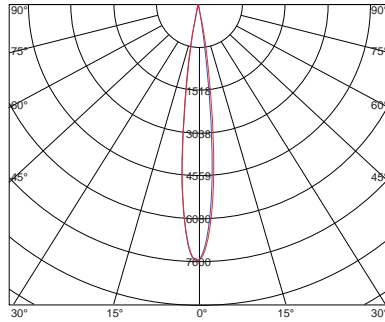


WT-45@22-15COBL9-Y1

<b>LED</b>	N6A/N6B/P6
<b>FWHM</b>	14.6°
<b>FWTM</b>	23.5°
<b>Peak intensity</b>	7.65cd /lm
<b>Efficiency</b>	93 %
<b>Aluminum substrate size</b>	13.35×13.35

Average Beam Angle (50%): 14.6°  
Radiation Intensity (Unit: cd)

— C0 · C180 14.6°  
— C90 · C270 14.6°

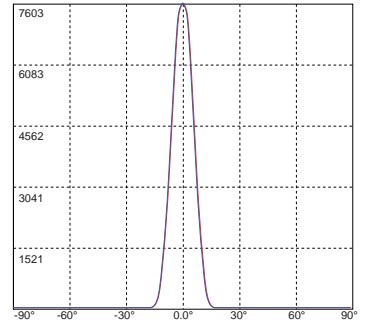
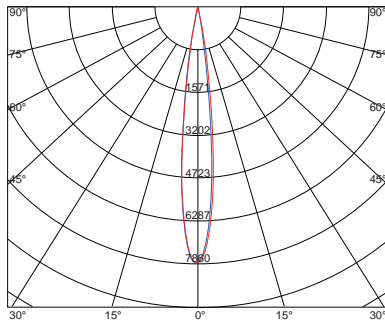


WT-45@22-15COBL9-Y1

<b>LED</b>	CXA1304
<b>FWHM</b>	14.1°
<b>FWTM</b>	22.7°
<b>Peak intensity</b>	8.217cd /lm
<b>Efficiency</b>	93 %
<b>Aluminum substrate size</b>	13.35×13.35

Average Beam Angle (50%): 14.1°  
Radiation Intensity (Unit: cd)

— C0 · C180 14.1°  
— C90 · C270 14.1°

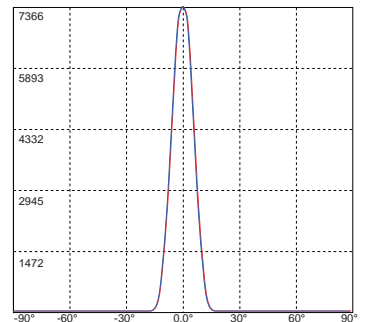
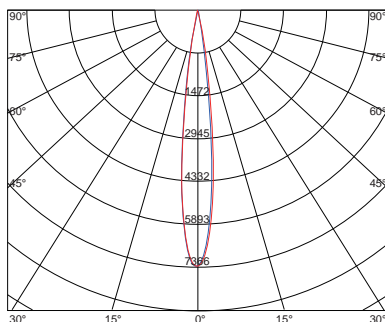


WT-45@22-15COBL9-Y1

<b>LED</b>	CXM-6
<b>FWHM</b>	15.5°
<b>FWTM</b>	24.9°
<b>Peak intensity</b>	8.433cd /lm
<b>Efficiency</b>	93 %
<b>Aluminum substrate size</b>	13.35×13.35

Average Beam Angle (50%): 15.5°  
Radiation Intensity (Unit: cd)

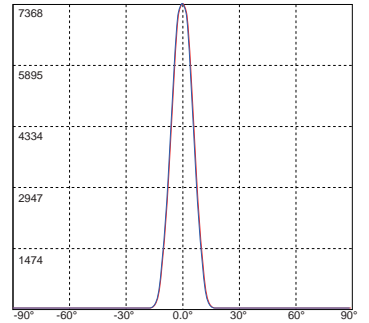
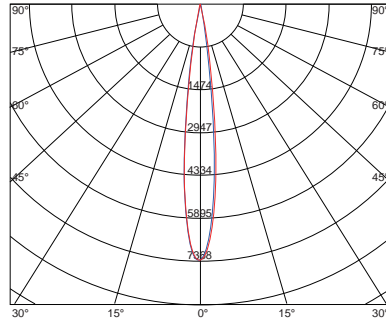
— C0 · C180 15.5°  
— C90 · C270 15.5°



<b>LED</b>	V6HD/C6
<b>FWHM</b>	15.2°
<b>FWTM</b>	24.7°
<b>Peak intensity</b>	8.591cd /lm
<b>Efficiency</b>	93 %
<b>Aluminum substrate size</b>	13.35×13.35

Average Beam Angle (50%): 15.2°  
Radiation Intensity (Unit: cd)

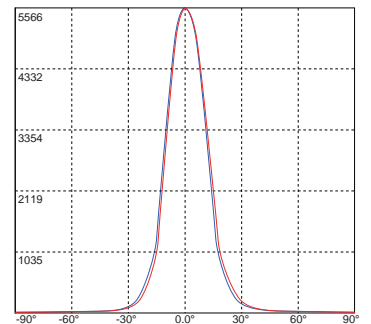
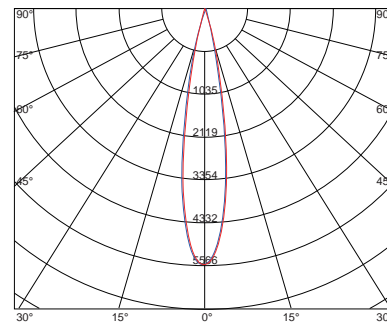
— C0 · C180 15.2°  
— C90 · C270 15.2°



<b>LED</b>	CXM-9
<b>FWHM</b>	24.6°
<b>FWTM</b>	33.8°
<b>Peak intensity</b>	5.723cd /lm
<b>Efficiency</b>	93 %
<b>Aluminum substrate size</b>	15×15

Average Beam Angle (50%): 24.6°  
Radiation Intensity (Unit: cd)

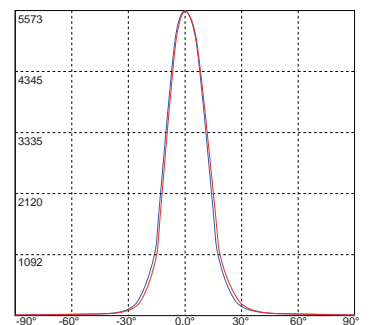
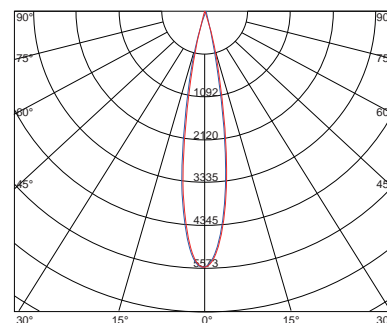
— C0 · C180 24.6°  
— C90 · C270 24.6°



<b>LED</b>	C8
<b>FWHM</b>	24.3°
<b>FWTM</b>	31°
<b>Peak intensity</b>	5.881cd /lm
<b>Efficiency</b>	93 %
<b>Aluminum substrate size</b>	15.85×15.85

Average Beam Angle (50%): 24.3°  
Radiation Intensity (Unit: cd)

— C0 · C180 24.3°  
— C90 · C270 24.3°



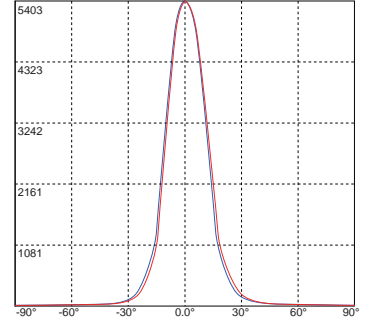
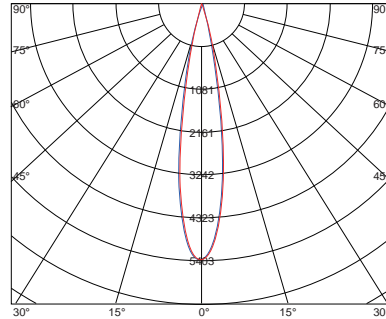
# PHILIPS

WT-45@22-24COBL9-Y1

<b>LED</b>	1203/1204
<b>FWHM</b>	24.6°
<b>FWTM</b>	33.3°
<b>Peak intensity</b>	5.563cd /lm
<b>Efficiency</b>	93 %
<b>Aluminum substrate size</b>	15.85×15.85

Average Beam Angle (50%): 24.6°  
Radiation Intensity (Unit: cd)

— C0 · C180 24.6°  
— C90 · C270 24.6°



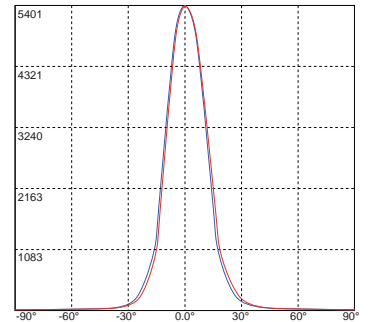
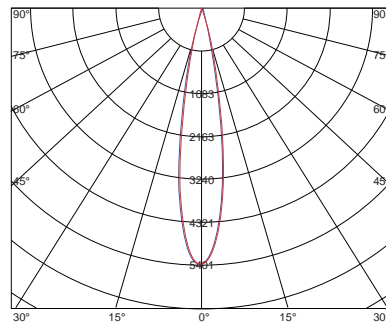
# OSRAM

WT-45@22-24COBL9-Y1

<b>LED</b>	1203/1204
<b>FWHM</b>	24.5°
<b>FWTM</b>	33.1°
<b>Peak intensity</b>	5.423cd /lm
<b>Efficiency</b>	93 %
<b>Aluminum substrate size</b>	15.85×15.85

Average Beam Angle (50%): 24.5°  
Radiation Intensity (Unit: cd)

— C0 · C180 24.5°  
— C90 · C270 24.5°



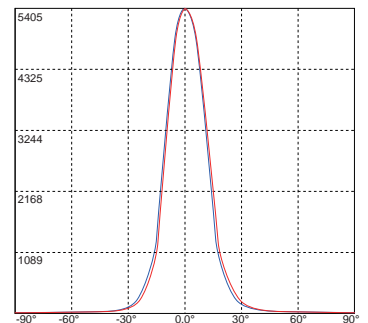
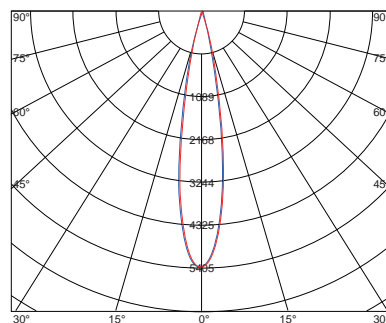
# SEOUL

WT-45@22-24COBL9-Y1

<b>LED</b>	N9A/N9B/P9A/P9B
<b>FWHM</b>	24.3°
<b>FWTM</b>	33.5°
<b>Peak intensity</b>	5.469cd /lm
<b>Efficiency</b>	93 %
<b>Aluminum substrate size</b>	15.85×15.85

Average Beam Angle (50%): 24.3°  
Radiation Intensity (Unit: cd)

— C0 · C180 24.3°  
— C90 · C270 24.3°

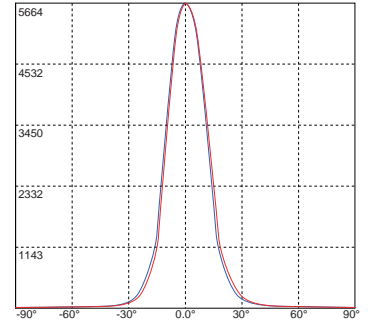
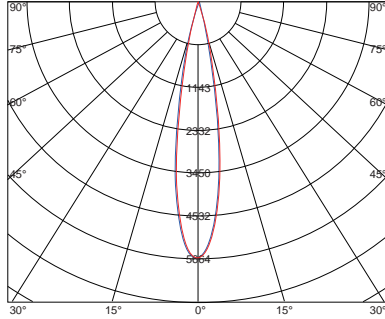




LED	CXA1507
FWHM	23.8°
FWTM	30.1°
Peak intensity	5.639cd /lm
Efficiency	93 %
Aluminum substrate size	15.85×15.85

Average Beam Angle (50%): 23.8°  
Radiation Intensity (Unit: cd)

— C0 · C180 23.8°  
— C90 · C270 23.8°

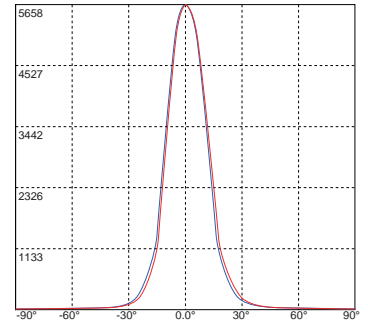
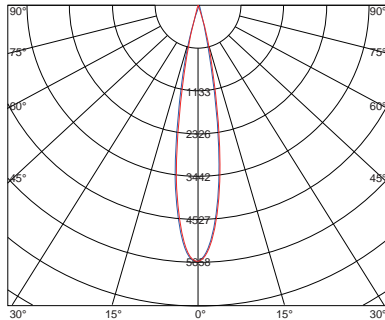


## CITIZEN

LED	CLU02Q
FWHM	24.8°
FWTM	34.3°
Peak intensity	5.567cd /lm
Efficiency	93 %
Aluminum substrate size	15.85×15.85

Average Beam Angle (50%): 24.8°  
Radiation Intensity (Unit: cd)

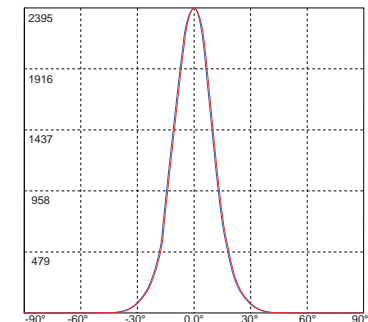
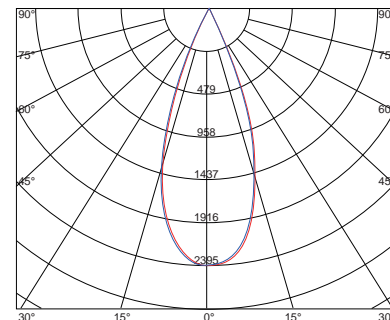
— C0 · C180 24.8°  
— C90 · C270 24.8°



LED	CXM-9
FWHM	36.5°
FWTM	44.7°
Peak intensity	2.7cd /lm
Efficiency	93 %
Aluminum substrate size	15×15

Average Beam Angle (50%): 36.5°  
Radiation Intensity (Unit: cd)

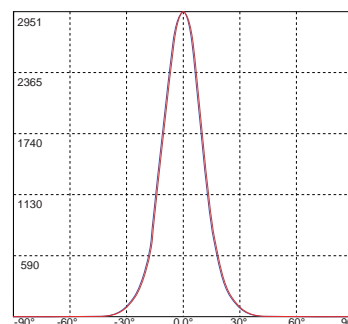
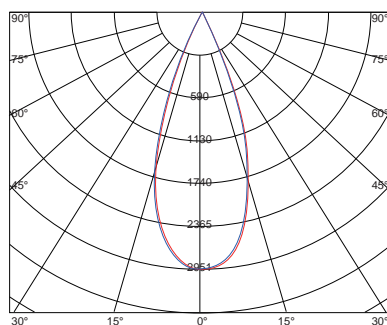
— C0 · C180 36.5°  
— C90 · C270 36.5°



<b>LED</b>	C8
<b>FWHM</b>	35.7°
<b>FWTM</b>	45°
<b>Peak intensity</b>	3.058cd /lm
<b>Efficiency</b>	93 %
<b>Aluminum substrate size</b>	15.85×15.85

Average Beam Angle (50%): 35.7°  
Radiation Intensity (Unit: cd)

— C0 · C180 35.7°  
— C90 · C270 35.7°

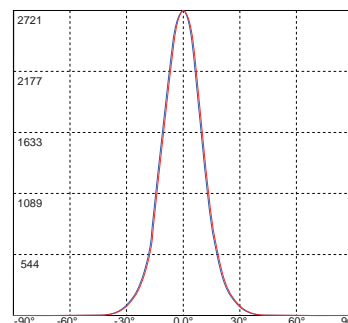
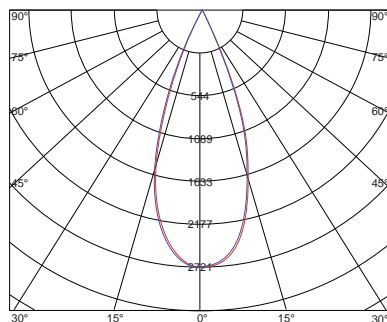


## PHILIPS

<b>LED</b>	1203/1204
<b>FWHM</b>	36°
<b>FWTM</b>	44.7°
<b>Peak intensity</b>	2.74cd /lm
<b>Efficiency</b>	93 %
<b>Aluminum substrate size</b>	15.85×15.85

Average Beam Angle (50%): 36°  
Radiation Intensity (Unit: cd)

— C0 · C180 36°  
— C90 · C270 36°

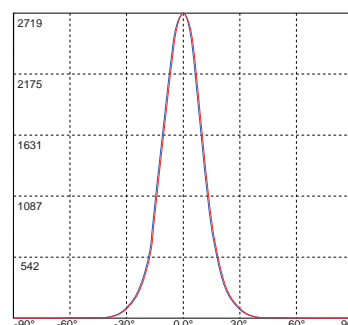
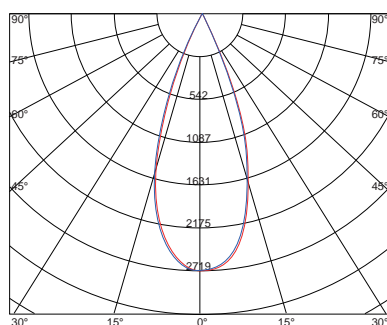


## OSRAM

<b>LED</b>	1203/1204
<b>FWHM</b>	35.9°
<b>FWTM</b>	44.6°
<b>Peak intensity</b>	2.6cd /lm
<b>Efficiency</b>	93 %
<b>Aluminum substrate size</b>	15.85×15.85

Average Beam Angle (50%): 35.9°  
Radiation Intensity (Unit: cd)

— C0 · C180 35.9°  
— C90 · C270 35.9°



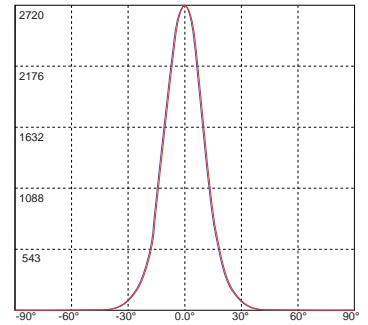
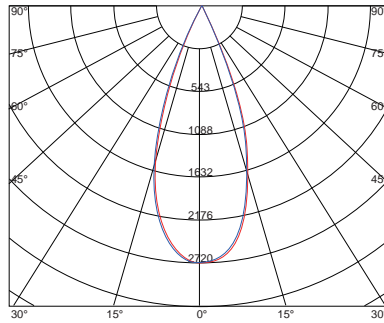


WT-45@22-36COBL9-Y1

<b>LED</b>	N9A/N9B/P9A/P9B
<b>FWHM</b>	35.7°
<b>FWTM</b>	44.4°
<b>Peak intensity</b>	2.646cd /lm
<b>Efficiency</b>	93 %
<b>Aluminum substrate size</b>	15.85×15.85

Average Beam Angle (50%): 35.7°  
Radiation Intensity (Unit: cd)

— C0 · C180 35.7°  
— C90 · C270 35.7°

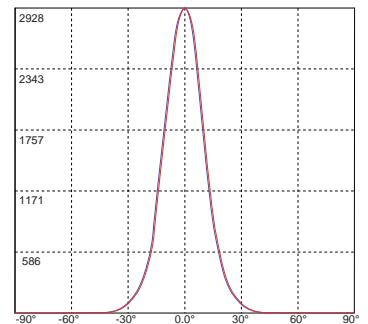
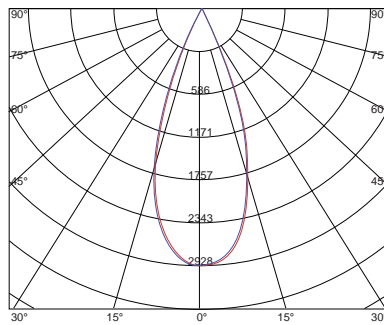


WT-45@22-36COBL9-Y1

<b>LED</b>	CXA1507
<b>FWHM</b>	36.5°
<b>FWTM</b>	44.2°
<b>Peak intensity</b>	2.816cd /lm
<b>Efficiency</b>	93 %
<b>Aluminum substrate size</b>	15.85×15.85

Average Beam Angle (50%): 36.5°  
Radiation Intensity (Unit: cd)

— C0 · C180 36.5°  
— C90 · C270 36.5°



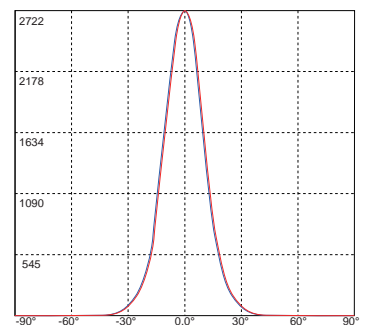
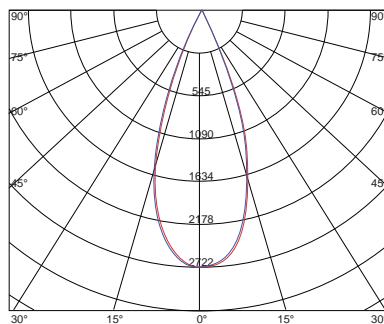
# CITIZEN

WT-45@22-36COBL9-Y1

<b>LED</b>	CLU02Q
<b>FWHM</b>	36.5°
<b>FWTM</b>	45.2°
<b>Peak intensity</b>	2.744cd /lm
<b>Efficiency</b>	93 %
<b>Aluminum substrate size</b>	15.85×15.85

Average Beam Angle (50%): 36.5°  
Radiation Intensity (Unit: cd)

— C0 · C180 36.5°  
— C90 · C270 36.5°



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