

# 规格书 Specifications

WT-40@20-XXCOBL6-Y1



**莹光系列**  
High penetration series



镜片材料 PMMA 8N温度-40°C~+70°C

镜片材料 PC 温度-40°C~+90°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

Lens material PC Working temperature:-40°C~+90°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 optical characteristic.

## 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-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-35@17-60COBL6-Y1  | 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<br>Code          | 发光面<br>light-emitting<br>surface | 角度<br>FWHM | 尺寸<br>Size(L*W*H)mm | 标准效率<br>Typ.eff | 材质<br>Material |
|---------------------|----------------------------------|------------|---------------------|-----------------|----------------|
| WT-40@20-10COBL6-Y1 | ø6mm COB                         | 10°        | φ39.8×20            | 93%             | PMMA           |
| WT-40@20-15COBL6-Y1 | ø6mm COB                         | 15°        |                     | 93%             | PMMA           |
| WT-40@20-24COBL6-Y1 | ø6mm COB                         | 24°        |                     | 88%             | PC             |
| WT-40@20-36COBL6-Y1 | ø6mm COB                         | 36°        |                     | 88%             | PC             |
| WT-40@20-50COBL6-Y1 | ø6mm COB                         | 50°        |                     | 88%             | PC             |

## 产品配件 | Product accessories



|         |                  |                                                  |                 |
|---------|------------------|--------------------------------------------------|-----------------|
| 碗杯 (PC) | Lens Holder (PC) | (10°/15°) WT-F40H-15B<br>(24°/36°/50°) WT-F40H-B | D 40, H 16.4 mm |
|---------|------------------|--------------------------------------------------|-----------------|



|         |                 |                               |               |
|---------|-----------------|-------------------------------|---------------|
| 支架 (PC) | COB Holder (PC) | WT-F45H-C135/C16/C18/C19/C125 | D 31, H 3.5mm |
|---------|-----------------|-------------------------------|---------------|

## 产品尺寸 | Dimensions(Unit:mm)

| 透镜 Lens | 碗杯 Lens Holder | 支架 COB Holder |
|---------|----------------|---------------|
|         |                |               |

|                                                                                                                |  |             |               |                 |                                  |             |                   |             |
|----------------------------------------------------------------------------------------------------------------|--|-------------|---------------|-----------------|----------------------------------|-------------|-------------------|-------------|
| Shenzhen Wisertop Technology Co.,Ltd                                                                           |  |             |               |                 | PART NO.:<br>WT-40@20-XXCOBL6-Y1 |             | NAME:<br>LED LENS |             |
| TOLERANCE UNLESS OTHERWISE MARKED<br>DIMENSION:<br>ANGULAR<br>0~6:±0.05      0.2<br>6~30:±0.10<br>30~120:±0.15 |  |             |               |                 | MATERIAL:<br>PMMA/ PC            |             | SPEC:             |             |
|                                                                                                                |  |             |               |                 | APPR<br>OVED                     | CHECK<br>ED | DRAW<br>BY        | REV:<br>A01 |
| A3                                                                                                             |  | UNIT:<br>mm | SCALE:<br>1:1 | SHEET<br>1 OF 1 |                                  |             |                   | JOB NO:     |

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

## 装箱尺寸 | Packing (Unit:mm)

| 透镜 Lens                |             |
|------------------------|-------------|
| 产品尺寸Single Size(L*W*H) | φ39.8×20    |
| 包装尺寸Box Size(L*W*H)    | 170x230x380 |
| 外箱尺寸CTN Size(L*W*H)    | 390x245x395 |
| 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) | φ40×16.4 |
| 包装尺寸Box Size(L*W*H)    | 300x200  |
| 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)    | 300x200 |
| 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 Distribution Diagram

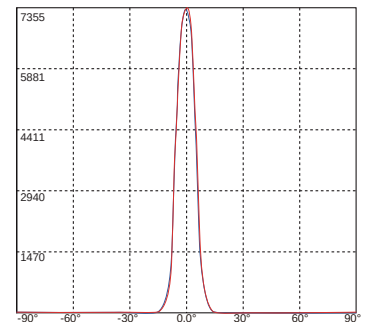
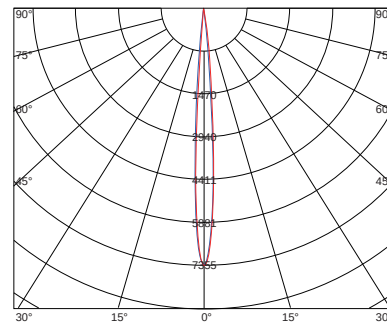
# OSRAM

WT-40@20-10COBL6-Y1

|                         |              |
|-------------------------|--------------|
| LED                     | 1202         |
| FWHM                    | 9.7°         |
| FWTM                    | 21.5°        |
| Peak intensity          | 16.371cd /lm |
| Efficiency              | 93 %         |
| Aluminum substrate size | 13.35×13.35  |

Average Beam Angle (50%):9.7°  
Radiation Intensity (Unit: cd)

— C0·C180 9.7°  
— C90·C270 9.7°



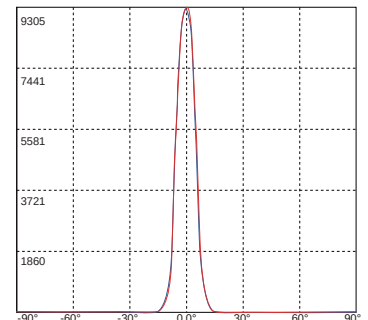
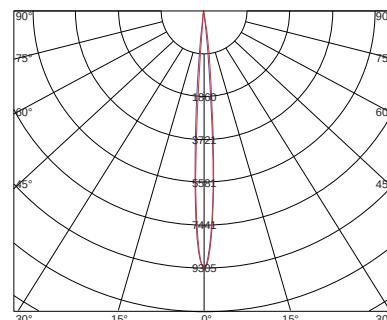
# PHILIPS

WT-40@20-10COBL6-Y1

|                         |             |
|-------------------------|-------------|
| LED                     | 1201/1202   |
| FWHM                    | 10.5°       |
| FWTM                    | 22.3°       |
| Peak intensity          | 17.65cd /lm |
| Efficiency              | 93 %        |
| Aluminum substrate size | 13.35×13.35 |

Average Beam Angle (50%):10.5°  
Radiation Intensity (Unit: cd)

— C0·C180 10.5°  
— C90·C270 10.5°



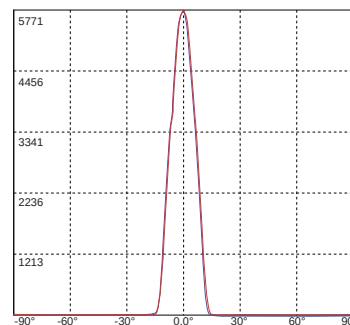
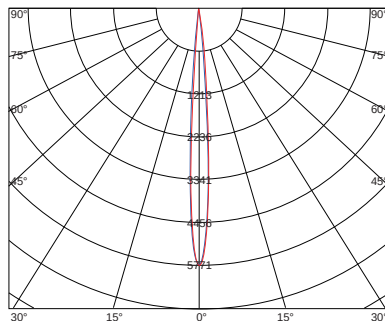


WT-40@20-10COBL6-Y1

|                         |             |
|-------------------------|-------------|
| LED                     | N6A/N6B/P6  |
| FWHM                    | 11.4°       |
| FWTM                    | 23.2°       |
| Peak intensity          | 15.49cd /lm |
| Efficiency              | 93 %        |
| Aluminum substrate size | 13.35×13.35 |

Average Beam Angle (50%): 11.4°  
Radiation Intensity (Unit: cd)

— C0·C180 11.4°  
— C90·C270 11.4°

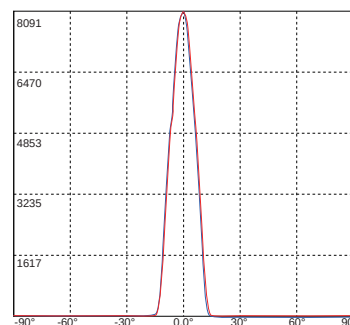
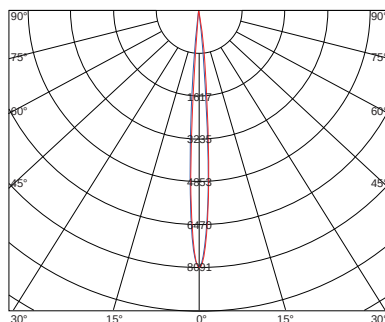


WT-40@20-10COBL6-Y1

|                         |              |
|-------------------------|--------------|
| LED                     | CXA1304      |
| FWHM                    | 10.8°        |
| FWTM                    | 22.6°        |
| Peak intensity          | 16.863cd /lm |
| Efficiency              | 93 %         |
| Aluminum substrate size | 13.5×13.5    |

Average Beam Angle (50%): 10.8°  
Radiation Intensity (Unit: cd)

— C0·C180 10.8°  
— C90·C270 10.8°

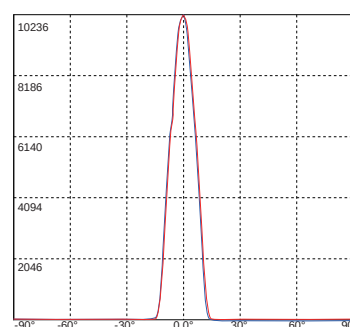
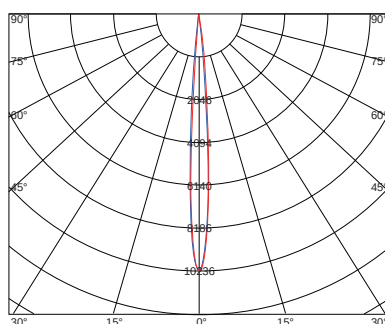


WT-40@20-10COBL6-Y1

|                         |              |
|-------------------------|--------------|
| LED                     | CXM-6        |
| FWHM                    | 11.5°        |
| FWTM                    | 23.3°        |
| Peak intensity          | 17.971cd /lm |
| Efficiency              | 93 %         |
| Aluminum substrate size | 13.5×13.5    |

Average Beam Angle (50%): 11.5°  
Radiation Intensity (Unit: cd)

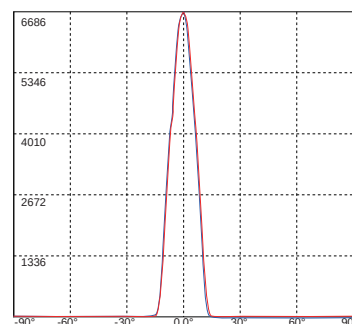
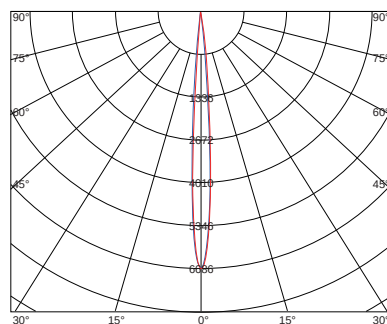
— C0·C180 11.5°  
— C90·C270 11.5°



|                                |            |
|--------------------------------|------------|
| <b>LED</b>                     | V6HD/C6    |
| <b>FWHM</b>                    | 10.9°      |
| <b>FWTM</b>                    | 22.7°      |
| <b>Peak intensity</b>          | 15.8cd /lm |
| <b>Efficiency</b>              | 93 %       |
| <b>Aluminum substrate size</b> | 13.5×13.5  |

Average Beam Angle (50%):10.9°  
Radiation Intensity (Unit: cd)

— C0·C180 10.9°  
— C90·C270 10.9°

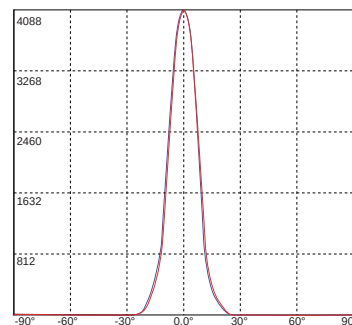
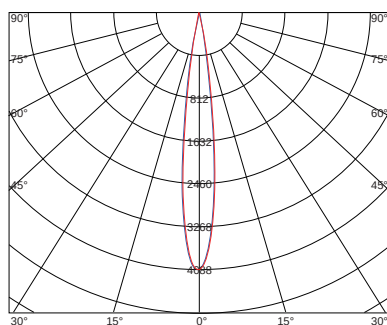


## OSRAM

|                                |             |
|--------------------------------|-------------|
| <b>LED</b>                     | 1202        |
| <b>FWHM</b>                    | 14.7°       |
| <b>FWTM</b>                    | 26.7°       |
| <b>Peak intensity</b>          | 11.35cd /lm |
| <b>Efficiency</b>              | 93 %        |
| <b>Aluminum substrate size</b> | 13.35×13.35 |

Average Beam Angle (50%):14.7°  
Radiation Intensity (Unit: cd)

— C0·C180 14.7°  
— C90·C270 14.7°

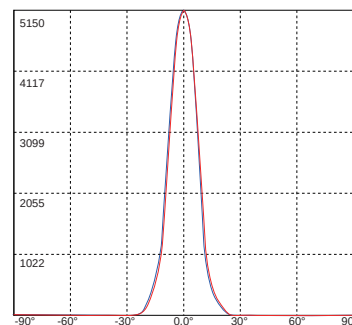
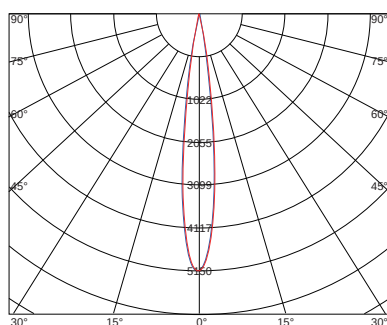


## PHILIPS

|                                |             |
|--------------------------------|-------------|
| <b>LED</b>                     | 1201/1202   |
| <b>FWHM</b>                    | 13.9°       |
| <b>FWTM</b>                    | 25.7°       |
| <b>Peak intensity</b>          | 11.93cd /lm |
| <b>Efficiency</b>              | 93 %        |
| <b>Aluminum substrate size</b> | 13.35×13.35 |

Average Beam Angle (50%):13.9°  
Radiation Intensity (Unit: cd)

— C0·C180 13.9°  
— C90·C270 13.9°





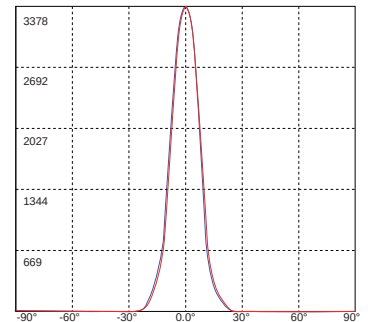
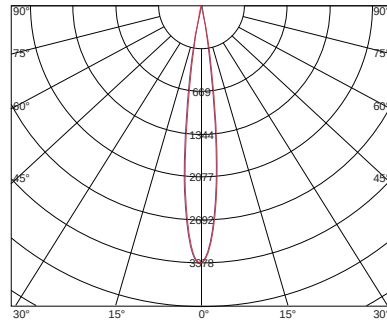


WT-40@20-15COBL6-Y1

|                         |              |
|-------------------------|--------------|
| LED                     | N6A/N6B/P6   |
| FWHM                    | 15.2°        |
| FWTM                    | 27°          |
| Peak intensity          | 10.435cd /lm |
| Efficiency              | 93 %         |
| Aluminum substrate size | 13.35×13.35  |

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

— C0·C180 15.2°  
— C90·C270 15.2°

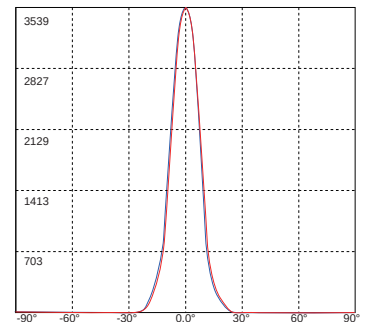
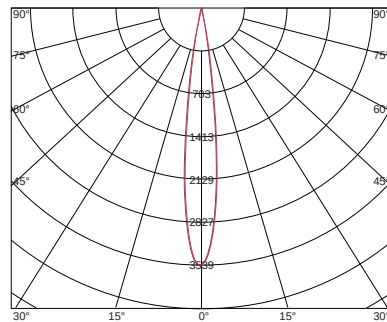


WT-40@20-15COBL6-Y1

|                         |             |
|-------------------------|-------------|
| LED                     | CXA1304     |
| FWHM                    | 13.1°       |
| FWTM                    | 24.6°       |
| Peak intensity          | 10.65cd /lm |
| Efficiency              | 93 %        |
| Aluminum substrate size | 13.5×13.5   |

Average Beam Angle (50%): 13.1°  
Radiation Intensity (Unit: cd)

— C0·C180 13.1°  
— C90·C270 13.1°

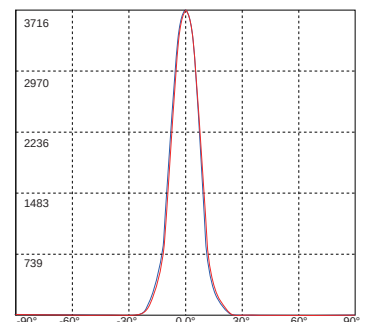
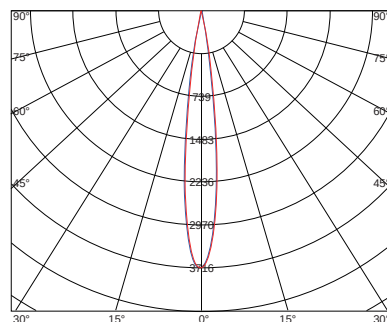


WT-40@20-15COBL6-Y1

|                         |             |
|-------------------------|-------------|
| LED                     | CXM-6       |
| FWHM                    | 14.4°       |
| FWTM                    | 26.3°       |
| Peak intensity          | 10.78cd /lm |
| Efficiency              | 93 %        |
| Aluminum substrate size | 13.5×13.5   |

Average Beam Angle (50%): 14.4°  
Radiation Intensity (Unit: cd)

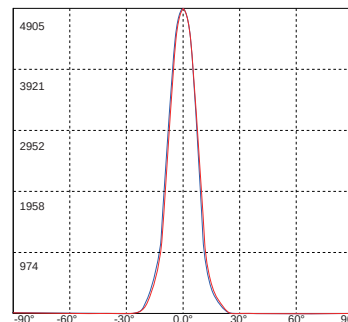
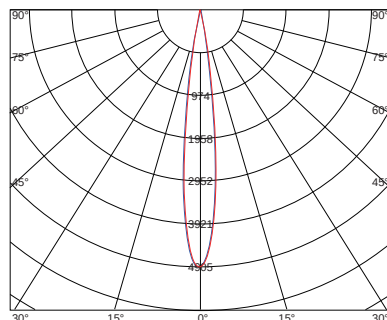
— C0·C180 14.4°  
— C90·C270 14.4°



|                                |             |
|--------------------------------|-------------|
| <b>LED</b>                     | V6HD/C6     |
| <b>FWHM</b>                    | 15.9°       |
| <b>FWTM</b>                    | 27.7°       |
| <b>Peak intensity</b>          | 11.76cd /lm |
| <b>Efficiency</b>              | 93 %        |
| <b>Aluminum substrate size</b> | 13.5×13.5   |

Average Beam Angle (50%):15.9°  
Radiation Intensity (Unit: cd)

— C0·C180 15.9°  
— C90·C270 15.9°

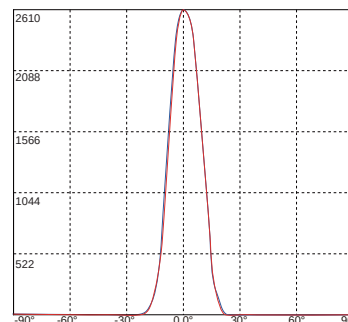
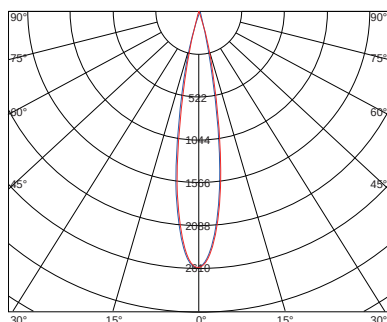


## OSRAM

|                                |             |
|--------------------------------|-------------|
| <b>LED</b>                     | 1202        |
| <b>FWHM</b>                    | 23.6°       |
| <b>FWTM</b>                    | 32.3°       |
| <b>Peak intensity</b>          | 5.12cd /lm  |
| <b>Efficiency</b>              | 88 %        |
| <b>Aluminum substrate size</b> | 13.35×13.35 |

Average Beam Angle (50%): 23.6°  
Radiation Intensity (Unit: cd)

— C0·C180 23.6°  
— C90·C270 23.6°

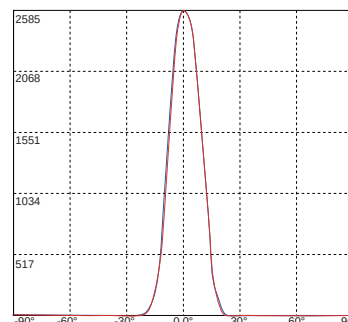
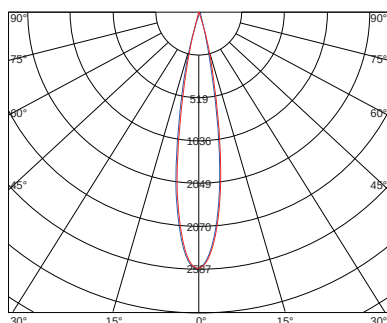


## PHILIPS

|                                |             |
|--------------------------------|-------------|
| <b>LED</b>                     | 1201/1202   |
| <b>FWHM</b>                    | 24.9°       |
| <b>FWTM</b>                    | 32.6°       |
| <b>Peak intensity</b>          | 5.113cd /lm |
| <b>Efficiency</b>              | 88 %        |
| <b>Aluminum substrate size</b> | 13.35×13.35 |

Average Beam Angle (50%):24.9°  
Radiation Intensity (Unit: cd)

— C0·C180 24.9°  
— C90·C270 24.9°





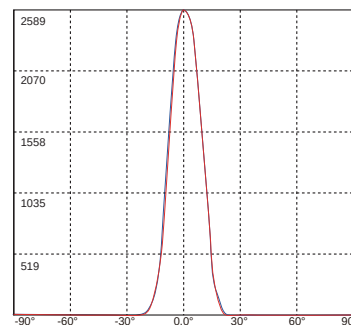
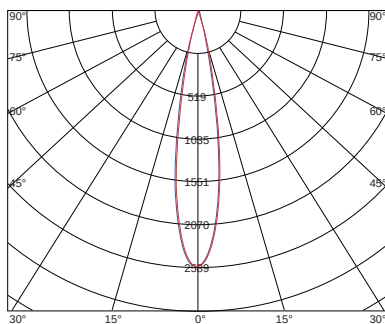


WT-40@20-24COBL6-Y1

|                         |             |
|-------------------------|-------------|
| LED                     | N6A/N6B/P6  |
| FWHM                    | 23.6°       |
| FWTM                    | 32.3        |
| Peak intensity          | 5.23cd /lm  |
| Efficiency              | 88 %        |
| Aluminum substrate size | 13.35×13.35 |

Average Beam Angle (50%): 23.6°  
Radiation Intensity (Unit: cd)

— C0 · C180 23.6°  
— C90 · C270 23.6°

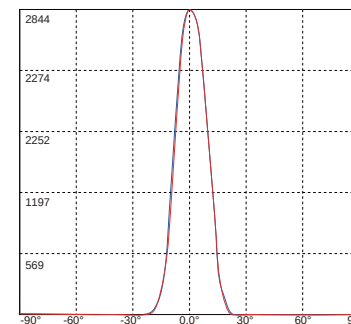
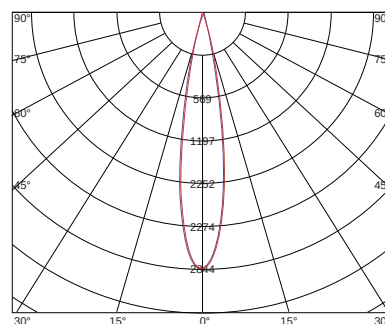


WT-40@20-24COBL6-Y1

|                         |           |
|-------------------------|-----------|
| LED                     | CXA1304   |
| FWHM                    | 23.1°     |
| FWTM                    | 31.5°     |
| Peak intensity          | 5.4cd /lm |
| Efficiency              | 88 %      |
| Aluminum substrate size | 13.5×13.5 |

Average Beam Angle (50%): 23.1°  
Radiation Intensity (Unit: cd)

— C0 · C180 23.1°  
— C90 · C270 23.1°

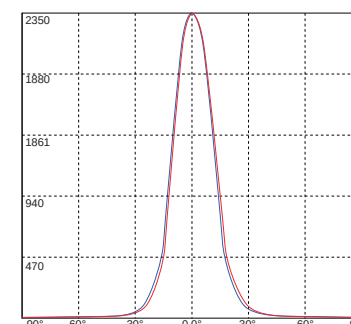
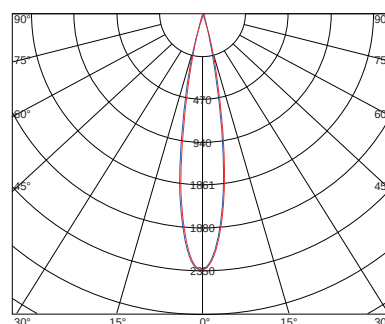


WT-40@20-24COBL6-Y1

|                         |             |
|-------------------------|-------------|
| LED                     | CXM-6       |
| FWHM                    | 24.5°       |
| FWTM                    | 33.7°       |
| Peak intensity          | 5.184cd /lm |
| Efficiency              | 88 %        |
| Aluminum substrate size | 13.5×13.5   |

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

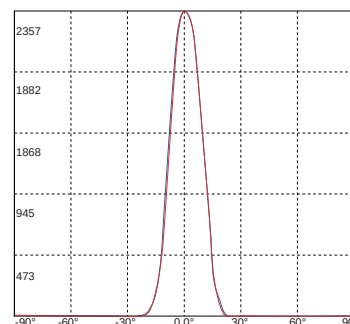
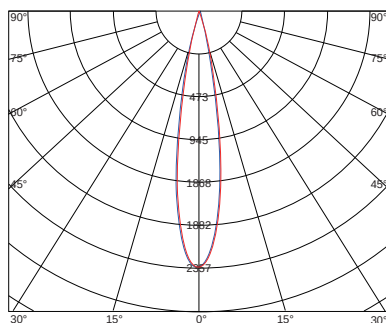
— C0 · C180 24.5°  
— C90 · C270 24.5°



|                                |             |
|--------------------------------|-------------|
| <b>LED</b>                     | V6HD/C6     |
| <b>FWHM</b>                    | 24.2°       |
| <b>FWTM</b>                    | 33.5°       |
| <b>Peak intensity</b>          | 5.342cd /lm |
| <b>Efficiency</b>              | 88 %        |
| <b>Aluminum substrate size</b> | 13.5×13.5   |

Average Beam Angle (50%):24.2°  
Radiation Intensity (Unit: cd)

— C0·C180 24.2°  
— C90·C270 24.2°

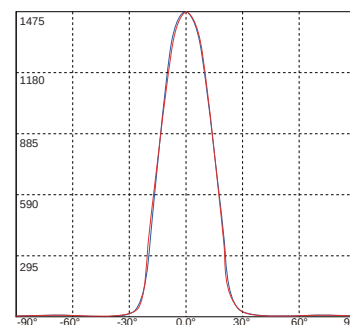
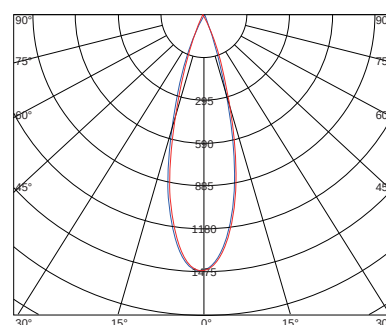


## PHILIPS

|                                |             |
|--------------------------------|-------------|
| <b>LED</b>                     | 1201/1202   |
| <b>FWHM</b>                    | 33.7°       |
| <b>FWTM</b>                    | 42.2        |
| <b>Peak intensity</b>          | 2.775cd /lm |
| <b>Efficiency</b>              | 88 %        |
| <b>Aluminum substrate size</b> | 13.35×13.35 |

Average Beam Angle (50%):33.7°  
Radiation Intensity (Unit: cd)

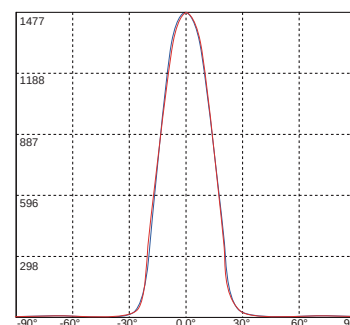
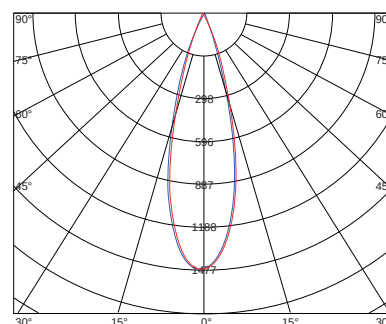
— C0·C180 33.7°  
— C90·C270 33.7°



|                                |             |
|--------------------------------|-------------|
| <b>LED</b>                     | N6A/N6B/P6  |
| <b>FWHM</b>                    | 34.2°       |
| <b>FWTM</b>                    | 43.3°       |
| <b>Peak intensity</b>          | 2.621cd /lm |
| <b>Efficiency</b>              | 88 %        |
| <b>Aluminum substrate size</b> | 13.35×13.35 |

Average Beam Angle (50%):34.2°  
Radiation Intensity (Unit: cd)

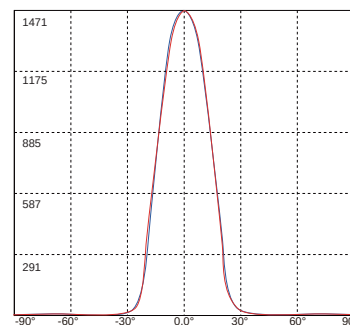
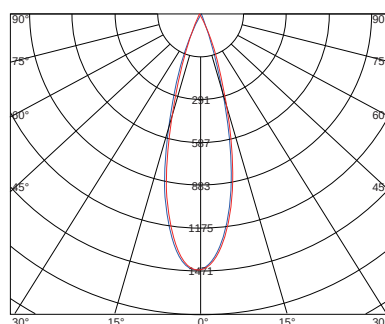
— C0·C180 34.2°  
— C90·C270 34.2°



|                         |             |
|-------------------------|-------------|
| LED                     | 1202        |
| FWHM                    | 32.8°       |
| FWTM                    | 41.3°       |
| Peak intensity          | 2.947cd /lm |
| Efficiency              | 88 %        |
| Aluminum substrate size | 13.35×13.35 |

Average Beam Angle (50%):32.8°  
Radiation Intensity (Unit: cd)

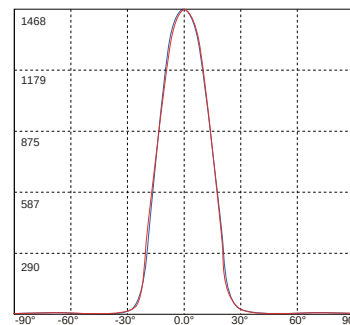
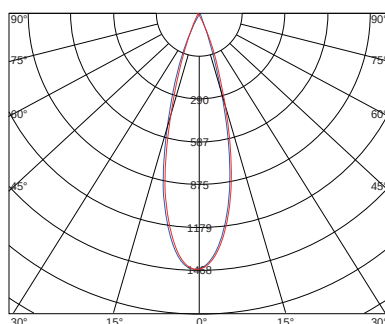
— C0·C180 32.8°  
— C90·C270 32.8°



|                         |             |
|-------------------------|-------------|
| LED                     | CXA1304     |
| FWHM                    | 34.6°       |
| FWTM                    | 43.1°       |
| Peak intensity          | 2.351cd /lm |
| Efficiency              | 88 %        |
| Aluminum substrate size | 13.5×13.5   |

Average Beam Angle (50%):34.6°  
Radiation Intensity (Unit: cd)

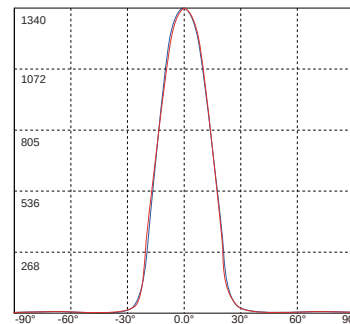
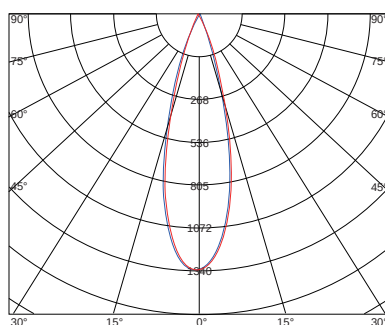
— C0·C180 34.6°  
— C90·C270 34.6°



|                         |            |
|-------------------------|------------|
| LED                     | CXM-6      |
| FWHM                    | 35.5°      |
| FWTM                    | 44°        |
| Peak intensity          | 2.28cd /lm |
| Efficiency              | 88 %       |
| Aluminum substrate size | 13.5×13.5  |

Average Beam Angle (50%):35.5°  
Radiation Intensity (Unit: cd)

— C0·C180 35.5°  
— C90·C270 35.5°



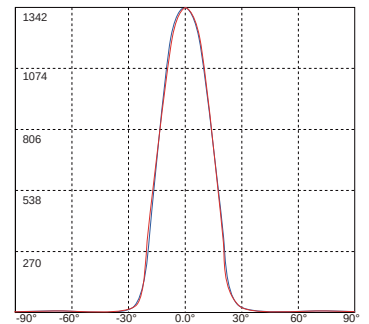
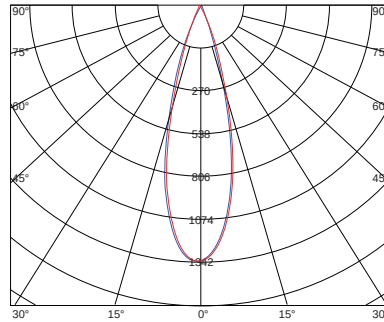


WT-40@20-36COBL6-Y1

|                         |             |
|-------------------------|-------------|
| LED                     | V6HD/C6     |
| FWHM                    | 35.2°       |
| FWTM                    | 43.7°       |
| Peak intensity          | 2.357cd /lm |
| Efficiency              | 88 %        |
| Aluminum substrate size | 13.5×13.5   |

Average Beam Angle (50%):35.2°  
Radiation Intensity (Unit: cd)

— C0·C180 35.2°  
— C90·C270 35.2°



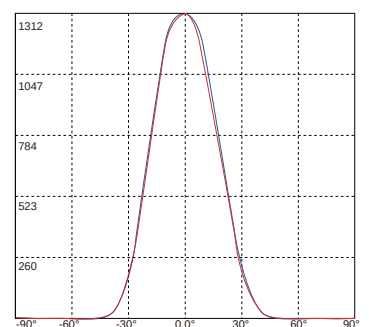
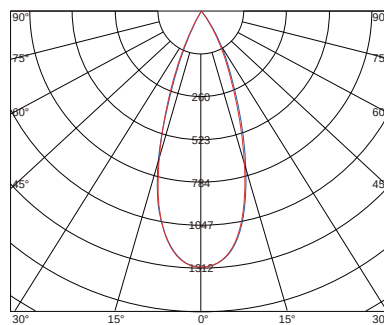
# PHILIPS

WT-40@20-50COBL6-Y1

|                         |             |
|-------------------------|-------------|
| LED                     | 1201/1202   |
| FWHM                    | 46.8°       |
| FWTM                    | 58.6°       |
| Peak intensity          | 1.801cd /lm |
| Efficiency              | 88 %        |
| Aluminum substrate size | 13.35×13.35 |

Average Beam Angle (50%):46.8°  
Radiation Intensity (Unit: cd)

— C0·C180 46.8°  
— C90·C270 46.8°

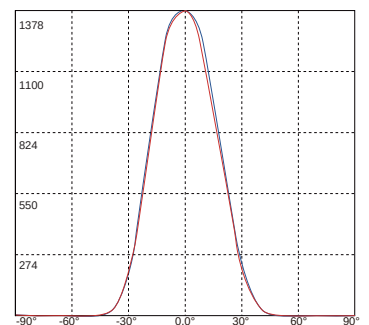
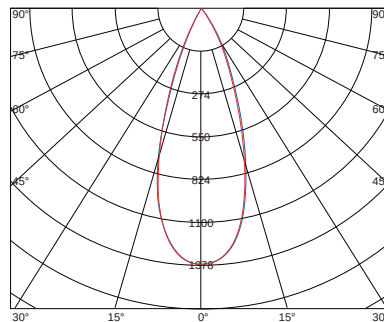


WT-40@20-50COBL6-Y1

|                         |             |
|-------------------------|-------------|
| LED                     | N6A/N6B/P6  |
| FWHM                    | 46.9°       |
| FWTM                    | 58.7°       |
| Peak intensity          | 1.861cd /lm |
| Efficiency              | 88 %        |
| Aluminum substrate size | 13.35×13.35 |

Average Beam Angle (50%):46.9°  
Radiation Intensity (Unit: cd)

— C0·C180 46.9°  
— C90·C270 46.9°



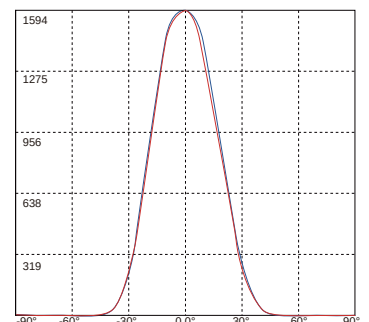
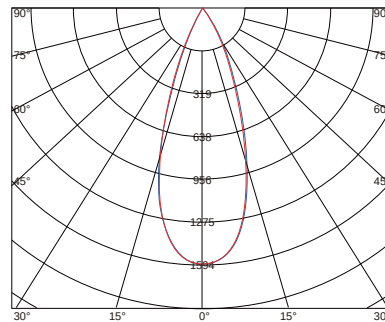
# OSRAM

WT-40@20-50COBL6-Y1

|                         |             |
|-------------------------|-------------|
| LED                     | 1202        |
| FWHM                    | 45.8°       |
| FWTM                    | 57.3°       |
| Peak intensity          | 2.156cd /lm |
| Efficiency              | 88 %        |
| Aluminum substrate size | 13.35×13.35 |

Average Beam Angle (50%):45.8°  
Radiation Intensity (Unit: cd)

— C0 · C180 45.8°  
— C90 · C270 45.8°



# CREE

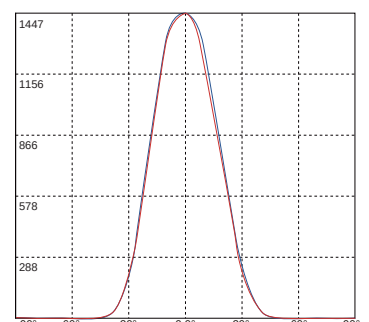
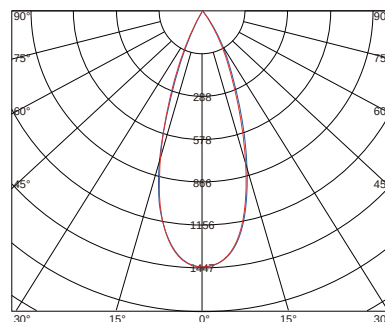
LEDs

WT-40@20-50COBL6-Y1

|                         |             |
|-------------------------|-------------|
| LED                     | CXA1304     |
| FWHM                    | 48.1°       |
| FWTM                    | 59.9°       |
| Peak intensity          | 1.972cd /lm |
| Efficiency              | 88 %        |
| Aluminum substrate size | 13.5×13.5   |

Average Beam Angle (50%):48.1°  
Radiation Intensity (Unit: cd)

— C0 · C180 48.1°  
— C90 · C270 48.1°



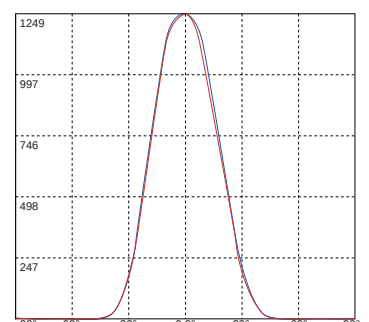
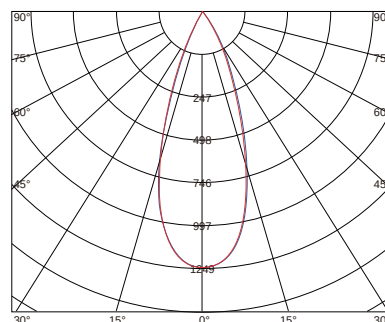
# LUMINUS

WT-40@20-50COBL6-Y1

|                         |             |
|-------------------------|-------------|
| LED                     | CXM-6       |
| FWHM                    | 45.5°       |
| FWTM                    | 57.3°       |
| Peak intensity          | 1.782cd /lm |
| Efficiency              | 88 %        |
| Aluminum substrate size | 13.5×13.5   |

Average Beam Angle (50%):45.5°  
Radiation Intensity (Unit: cd)

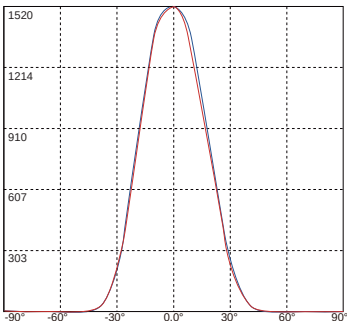
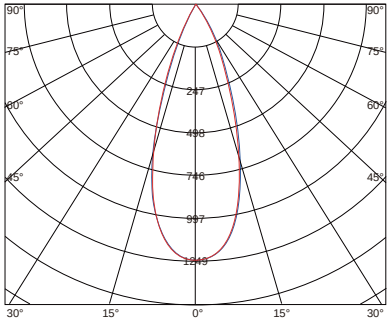
— C0 · C180 45.5°  
— C90 · C270 45.5°



|                         |             |
|-------------------------|-------------|
| LED                     | V6HD/C6     |
| FWHM                    | 47.2°       |
| FWTM                    | 59.1°       |
| Peak intensity          | 2.104cd /lm |
| Efficiency              | 88 %        |
| Aluminum substrate size | 13.5×13.5   |

Average Beam Angle (50%):47.2°  
Radiation Intensity (Unit: cd)

— C0·C180 47.2°  
— C90·C270 47.2°





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