



Product Model Number

CKO-CH15-075033-4401

✓ Model Number Definitions

CKO-XXXX-XXXXXX-XXXX

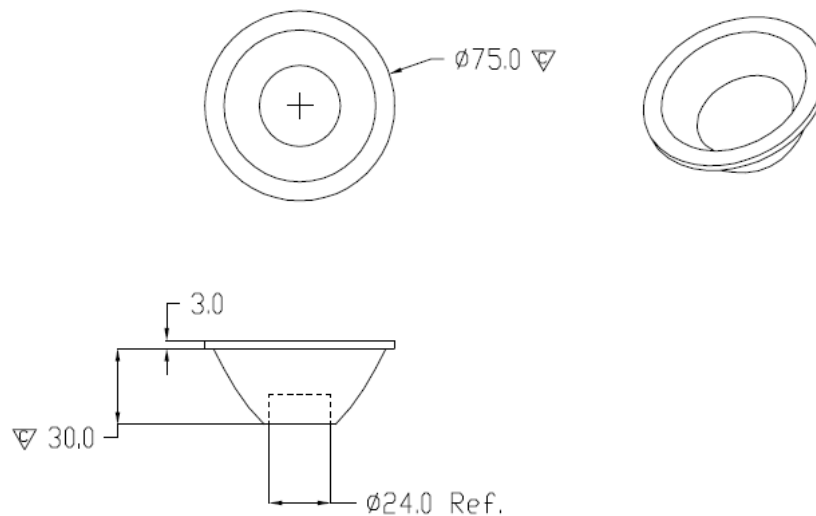


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation
Ex:
CH→CoB High Intensity
CC→CoB Compact
CS→Soft Shading for CoB LED
HC→Holder for CoB LED

- C. Identity Code
- D. Lens / Fixture Size
Ex: 075026=Φ75mm / Thickness=26mm (round up)
- C. Serial Numbers

The lens datasheet is applicable for **Philips LED**, that manufactured by Chun Kuang Optics Corp.

✓ Dimensions (mm) : Φ75 x 33



▽:Critical Dimension



✓ Optical Characteristics – Angle Performances

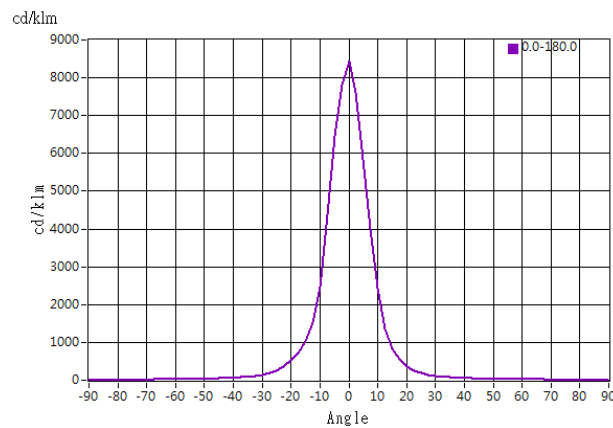
Philips	LED LES (mm)	FWHM (degrees)	Field Angle (degrees)
Fortimo SLM 1203 L09 G6	Φ9	14°	31°
Fortimo SLM 1203 L09 G6_DL	Φ9	14°	28°
Fortimo SLM 1203 L09 G6_PI	Φ9	14°	28°
Fortimo SLM PW 1204 L09 G7	Φ9	14°	28°
Fortimo SLM 1201 L09 G7N	Φ9.8	15°	34°
Fortimo SLM 1202 L09 G7N	Φ9.8	16°	38°
Fortimo SLM 1203 L09 G7N	Φ9.8	15°	35°
Fortimo SLM 1204 L09 G7N	Φ9.8	16°	36°
Fortimo SLM 1205 L13 G7	Φ13	20°	42°
Fortimo SLM PW 1205 L13 G6	Φ13	20°	43°
Fortimo SLM PW 1205 L13 G6_DL	Φ13	21°	42°
Fortimo SLM PW 1205 L13 G6_PI	Φ13	21°	42°
Fortimo SLM 1205 L15 G7N	Φ14.5	22°	44°
Fortimo SLM 1206 L15 G7N	Φ14.5	21°	46°
Fortimo SLM 1208 L15 G7N	Φ14.5	21°	46°
Fortimo SLM 1210 L15 G7N	Φ14.5	21°	43°
Fortimo SLM 1208 L15 G7	Φ15	22°	46°
Fortimo SLM 1208 L15 G6	Φ15	22°	45°
Fortimo SLM 1208 L15 G6_DL	Φ15	22°	45°
Fortimo SLM 1208 L15 G6_PI	Φ15	22°	45°
Fortimo SLM 1211 L19 G6	Φ19	26°	56°
Fortimo SLM 1211 L19 G6_DL	Φ19	27°	56°
Fortimo SLM 1211 L19 G6_PI	Φ19	27°	56°



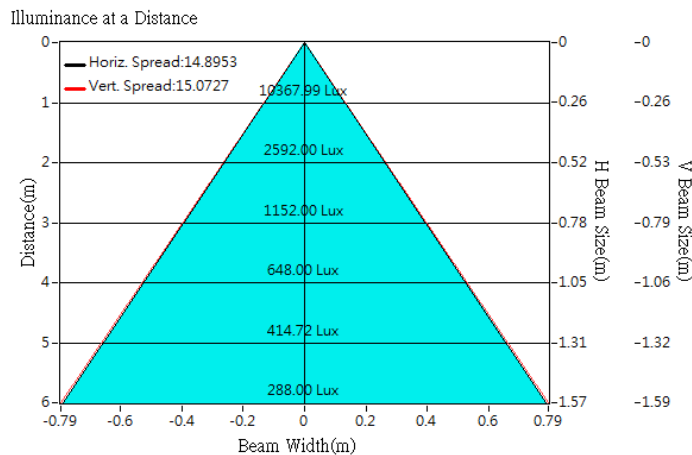
Optical Characteristics

Model Number	CKO-CH15-075033-4401		
LED	Fortimo SLM 1203 L09 G6		
LES / LED Size	Φ 9 mm		
FWHM (D50)	14°		
Field Angle (D10)	31°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1226 lm	Measured @10.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

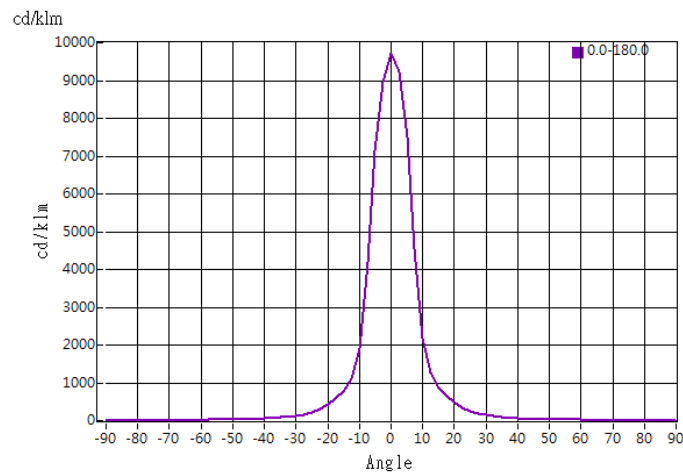




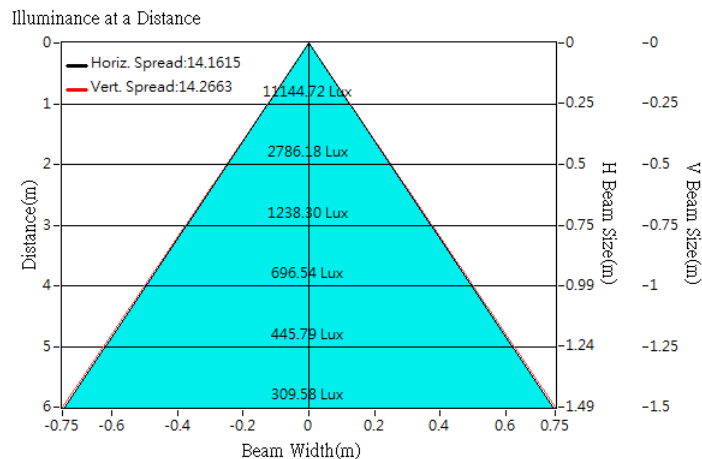
Optical Characteristics

Model Number	CKO-CH15-075033-4401		<p>"H" definition</p>
LED	Fortimo SLM C 1203 L09 1619 G6_PI		
LES / LED Size	Φ 9 mm		
FWHM (D50)	14°		
Field Angle (D10)	28°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1145 lm	Measured @10.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

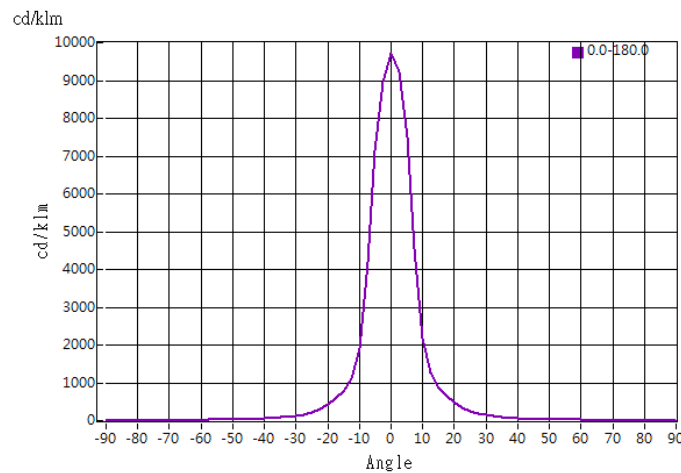




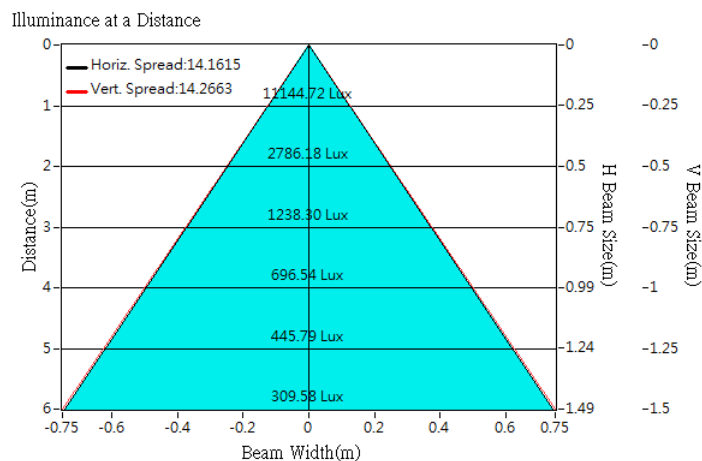
Optical Characteristics

Model Number	CKO-CH15-075033-4401		<p>"H" definition</p>
LED	Fortimo SLM C 1203 L09 1619 G6_DL		
LES / LED Size	Φ 9 mm		
FWHM (D50)	14°		
Field Angle (D10)	28°		
H (distance)	3.5mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1145 lm	Measured @10.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

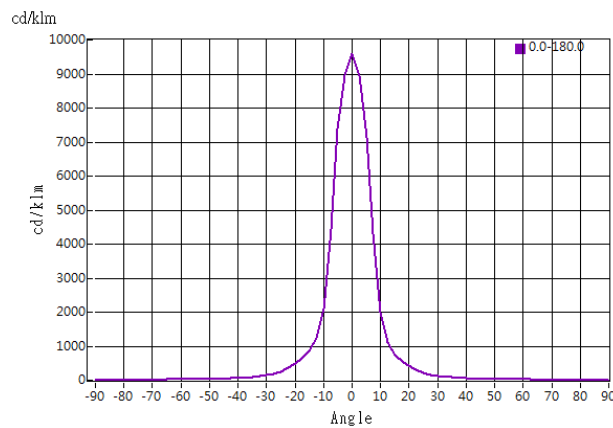




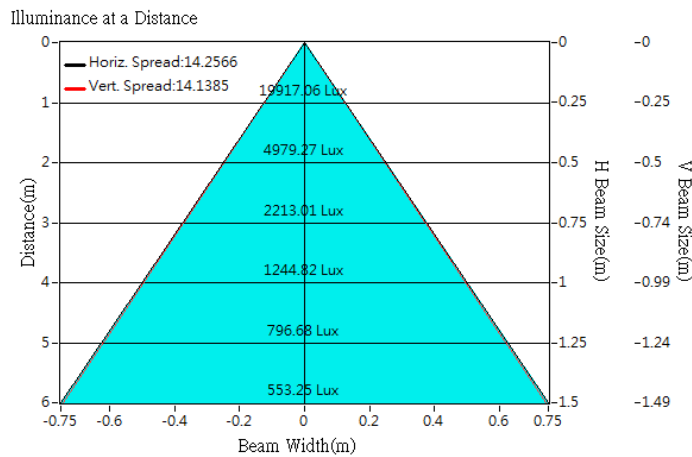
Optical Characteristics

Model Number	CKO-CH15-075033-4401		
LED	Fortimo SLM 1204 L09 G7		
LES / LED Size	Φ 9 mm		
FWHM (D50)	14°		
Field Angle (D10)	28°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2074 lm	Measured @21.6 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

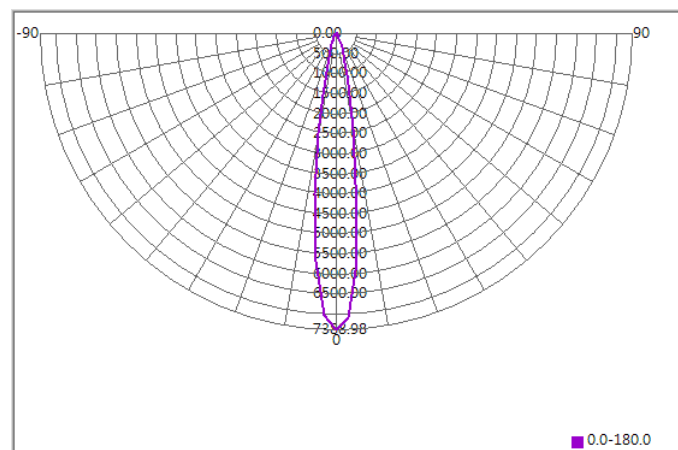




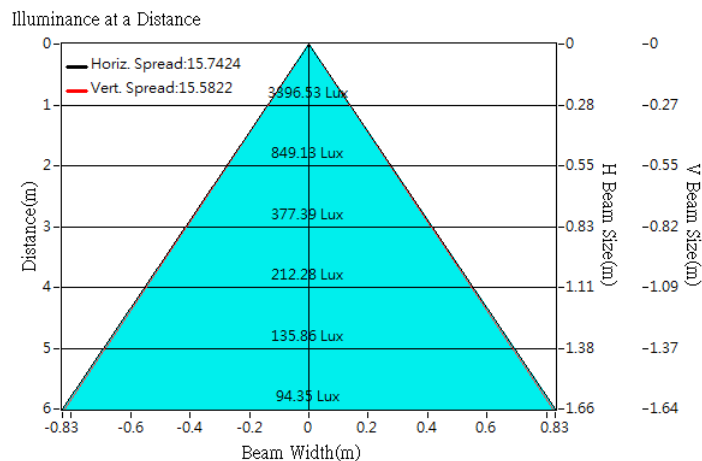
Optical Characteristics

Model Number	CKO-CH15-075033-4401		<p>"H" definition</p>
LED	Fortimo SLM 1201 L09 G7N		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	15°		
Field Angle (D10)	34°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	460 lm	Measured @3.0 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

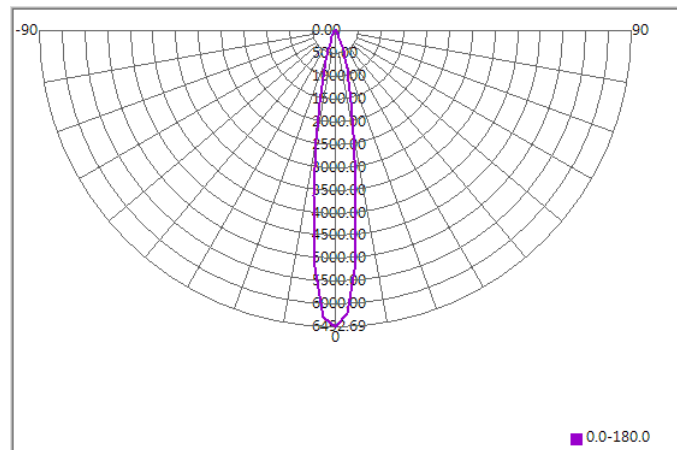




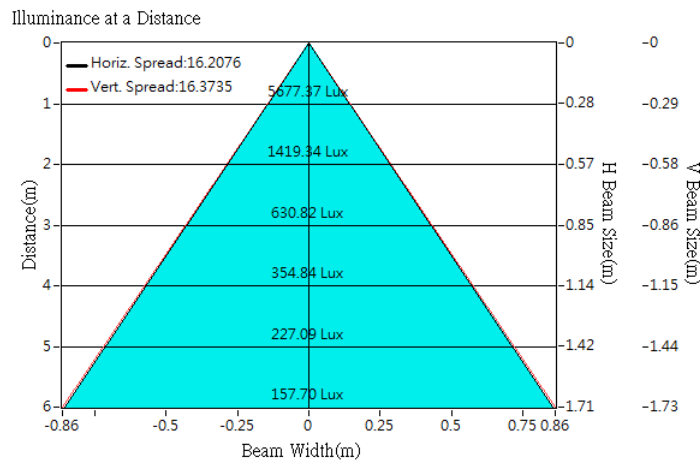
Optical Characteristics

Model Number	CKO-CH15-075033-4401		<p>"H" definition</p> <p>LES</p> <p>CoB</p> <p>"H" mm (distance)</p>
LED	Fortimo SLM 1202 L09 G7N		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	16°		
Field Angle (D10)	38°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	874 lm	Measured @6.1 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

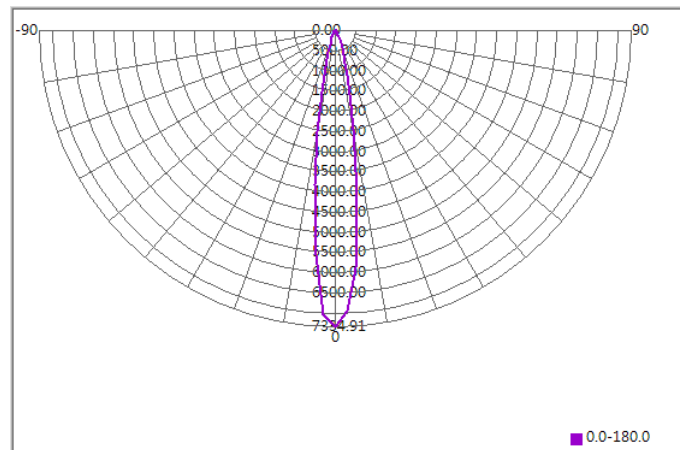




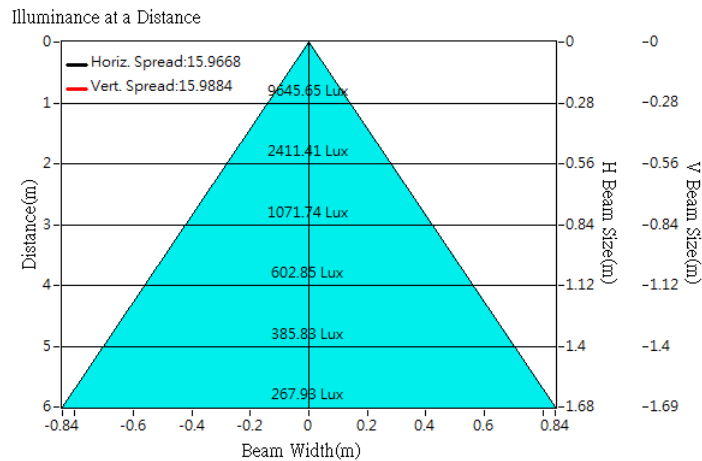
Optical Characteristics

Model Number	CKO-CH15-075033-4401		
LED	Fortimo SLM 1203 L09 G7N		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	15°		
Field Angle (D10)	35°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1315 lm	Measured @9.2 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

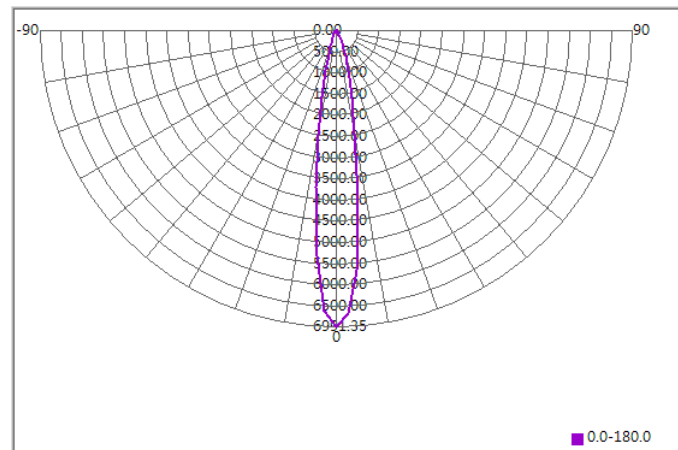




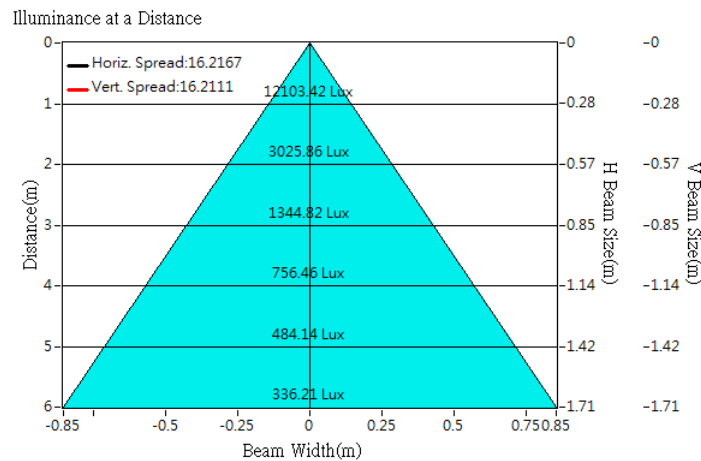
Optical Characteristics

Model Number	CKO-CH15-075033-4401		<p>"H" definition</p> <p>LES</p> <p>CoB</p> <p>"H" mm (distance)</p>
LED	Fortimo SLM 1204 L09 G7N		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	16°		
Field Angle (D10)	36°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1731 lm	Measured @12.2 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

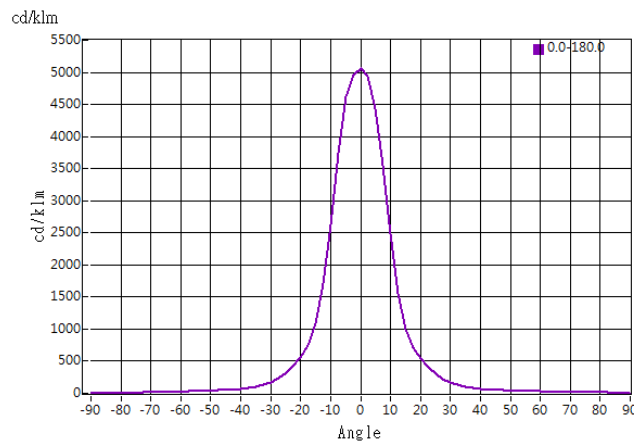




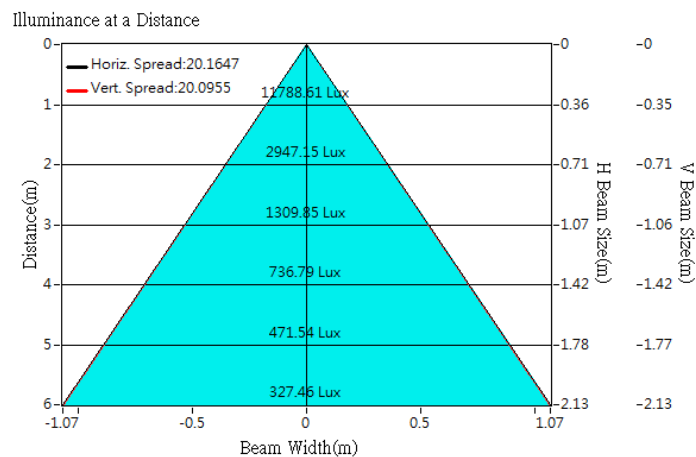
Optical Characteristics

Model Number	CKO-CH15-075033-4401		
LED	Fortimo SLM 1205 L13 G7		
LES / LED Size	Φ 13 mm		
FWHM (D50)	20°		
Field Angle (D10)	42°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2332 lm	Measured @17.6 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

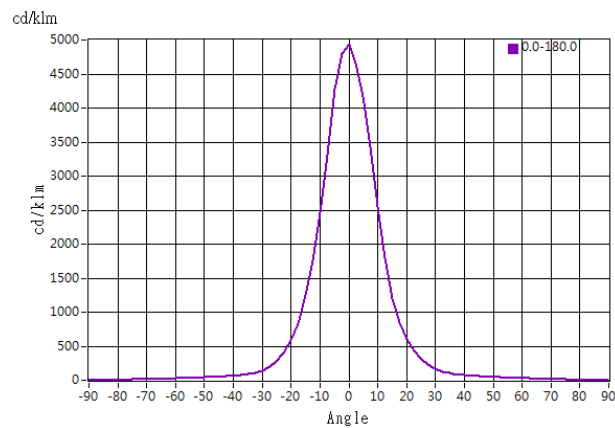




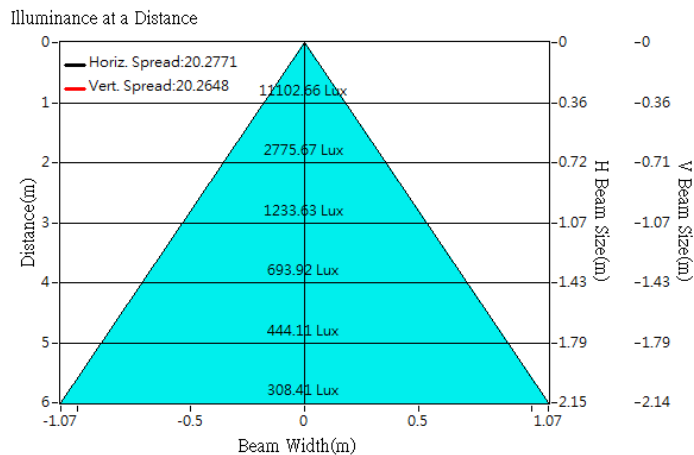
Optical Characteristics

Model Number	CKO-CH15-075033-4401		<p>"H" definition</p>
LED	Fortimo SLM 1205 L13 G6		
LES / LED Size	Φ 13 mm		
FWHM (D50)	20°		
Field Angle (D10)	43°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2246 lm	Measured @ 17.4W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

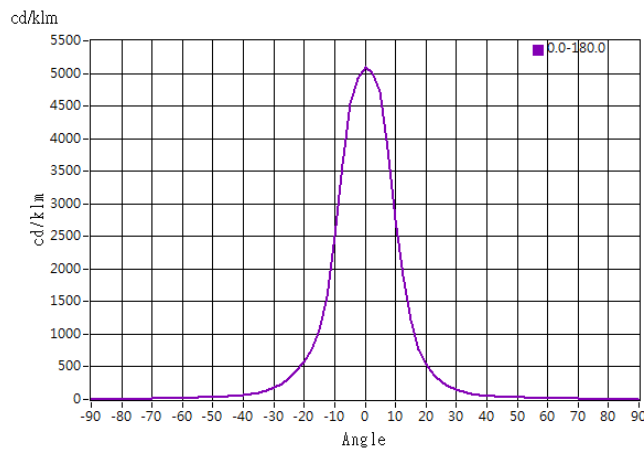




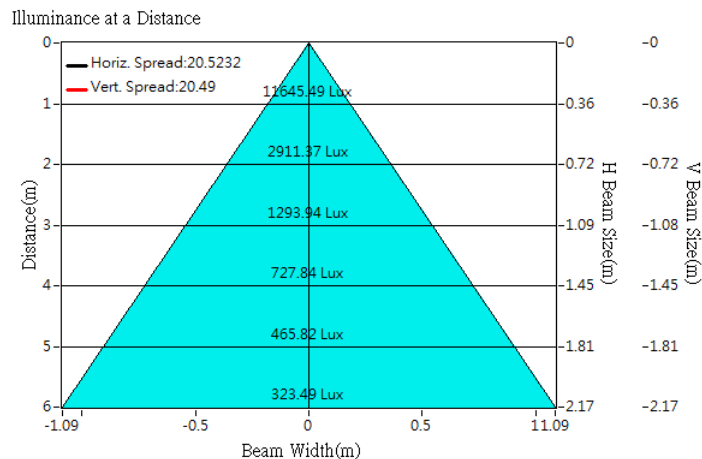
Optical Characteristics

Model Number	CKO-CH15-075033-4401		<p>"H" definition</p>
LED	Fortimo SLM PW 1205 L13 G6_PI		
LES / LED Size	Φ 13 mm		
FWHM (D50)	21°		
Field Angle (D10)	42°		
H (distance)	3.5mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2283 lm	Measured @17.4 W	
Material	PC / UL94V2		

cd/klm

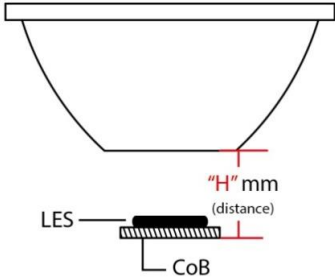


Illuminance At Distances

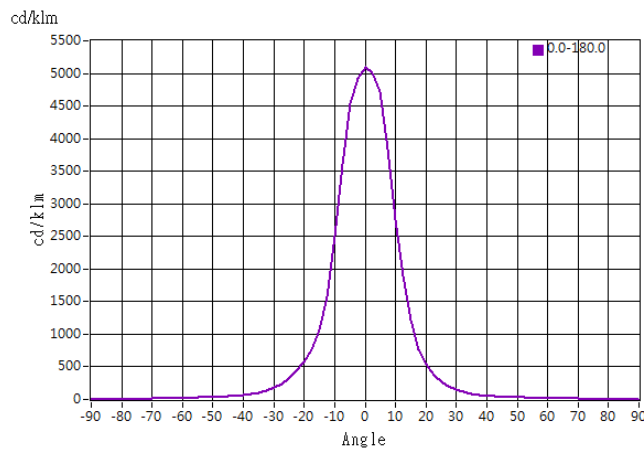




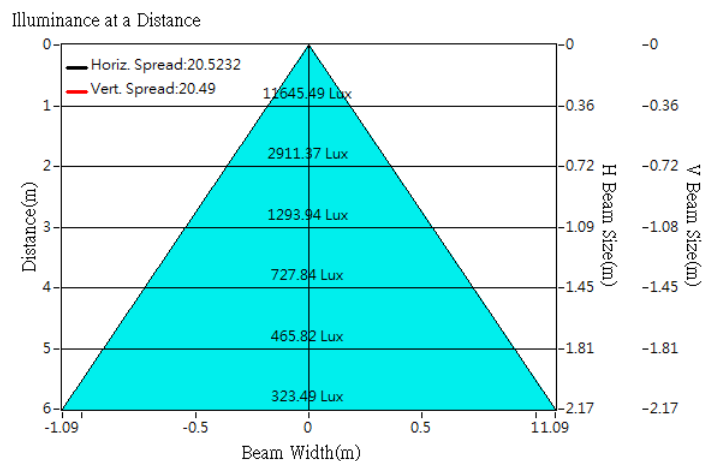
Optical Characteristics

Model Number	CKO-CH15-075033-4401		<p>"H" definition</p> 
LED	Fortimo SLM PW 1205 L13 G6_DL		
LES / LED Size	Φ 13 mm		
FWHM (D50)	21°		
Field Angle (D10)	42°		
H (distance)	3.5mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2283 lm	Measured @17.4 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

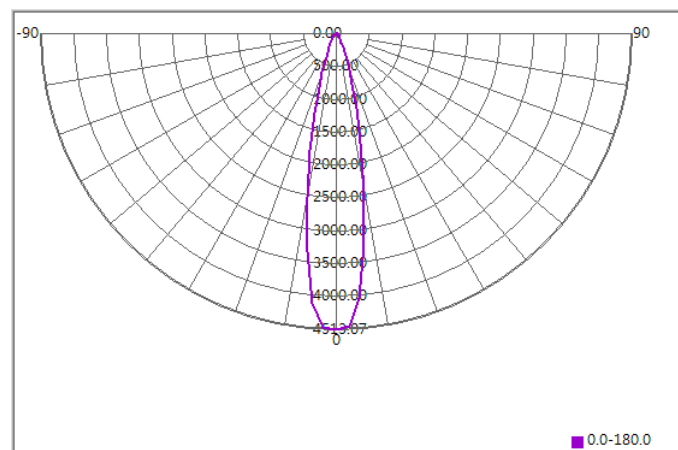




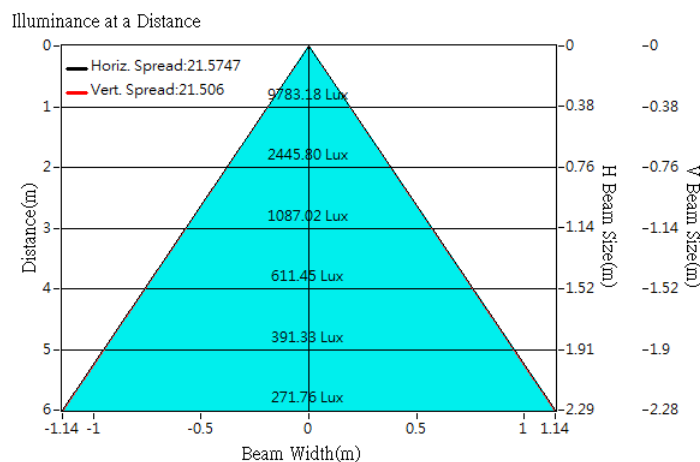
Optical Characteristics

Model Number	CKO-CH15-075033-4401		<p>"H" definition</p> <p>LES CoB "H" mm (distance)</p>
LED	Fortimo SLM 1205 L15 G7N		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	22°		
Field Angle (D10)	44°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2167 lm	Measured @15.4 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

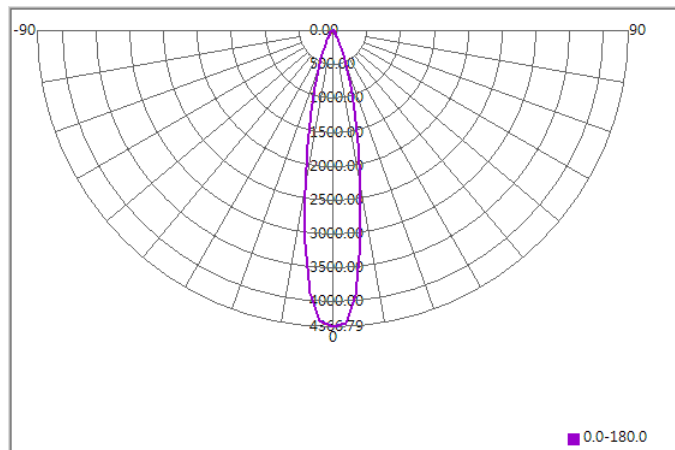




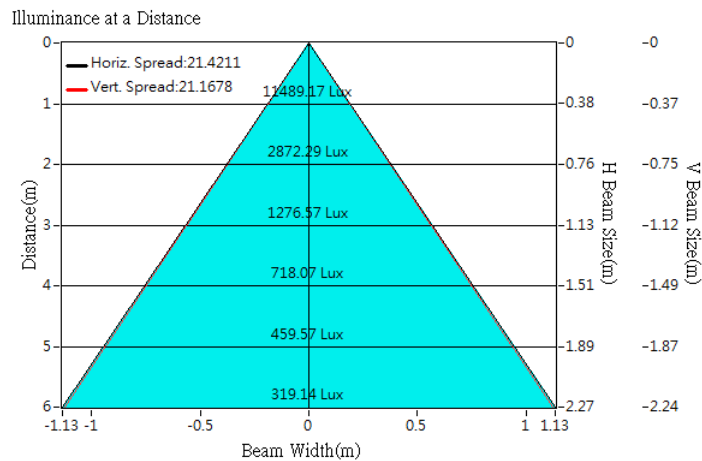
Optical Characteristics

Model Number	CKO-CH15-075033-4401		
LED	Fortimo SLM 1206 L15 G7N		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	21°		
Field Angle (D10)	46°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2631 lm	Measured @18.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

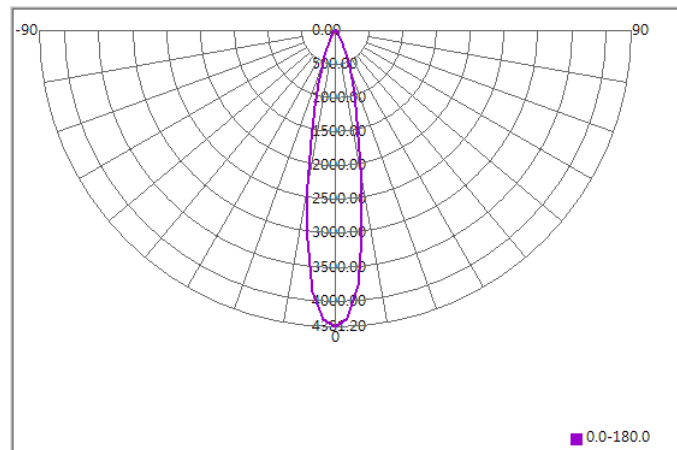




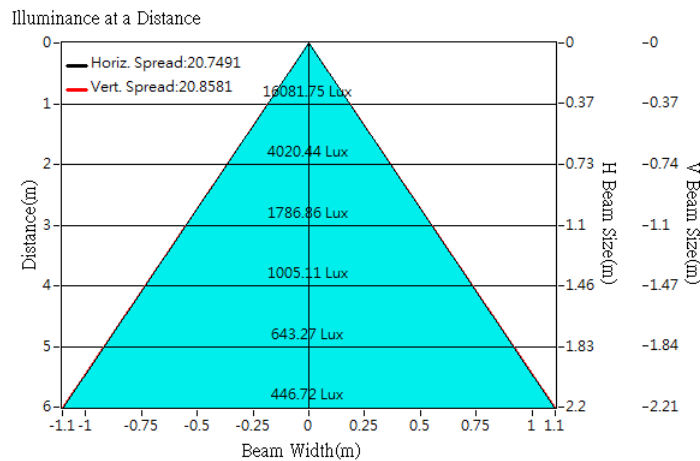
Optical Characteristics

Model Number	CKO-CH15-075033-4401		<p>"H" definition</p>
LED	Fortimo SLM 1208 L15 G7N		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	21°		
Field Angle (D10)	46°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	3670 lm	Measured @24.7 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

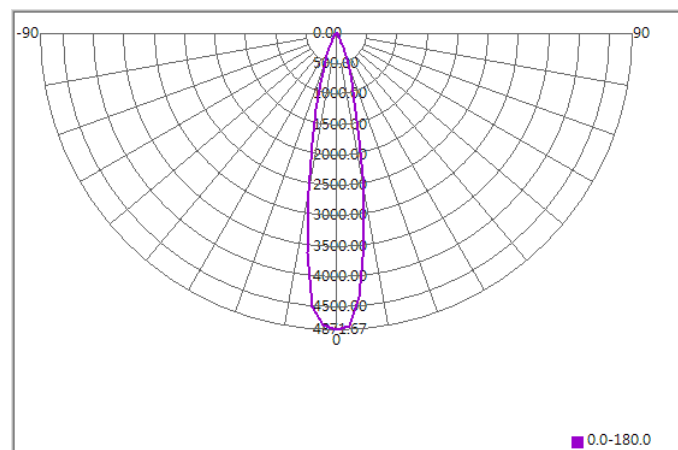




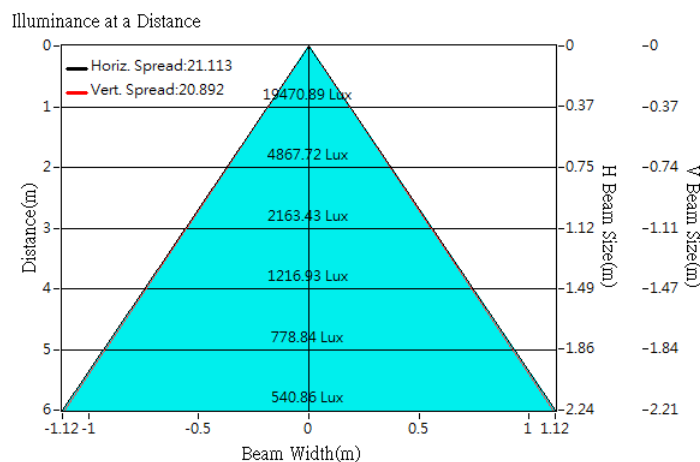
Optical Characteristics

Model Number	CKO-CH15-075033-4401		<p>"H" definition</p> <p>LES</p> <p>CoB</p>
LED	Fortimo SLM 1210 L15 G7N		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	21°		
Field Angle (D10)	43°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	3997 lm	Measured @31.8 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

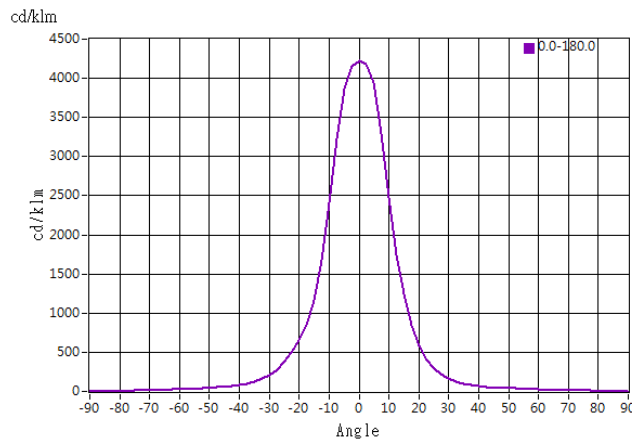




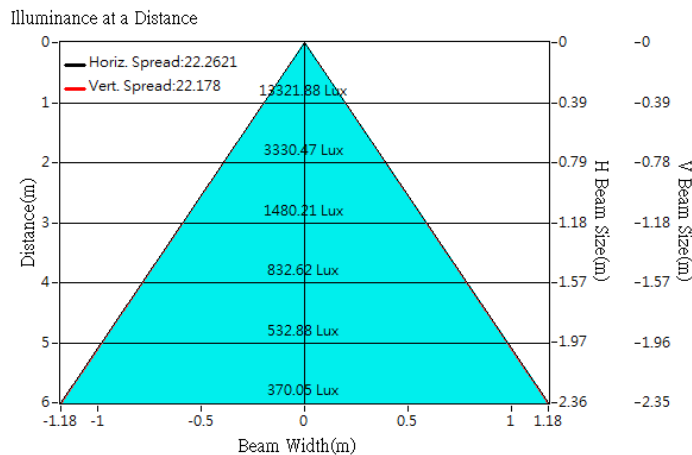
Optical Characteristics

Model Number	CKO-CH15-075033-4401		<p>"H" definition</p>
LED	Fortimo SLM 1208 L15 G7		
LES / LED Size	Φ 15 mm		
FWHM (D50)	22°		
Field Angle (D10)	46°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	3154 lm	Measured @25.9 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

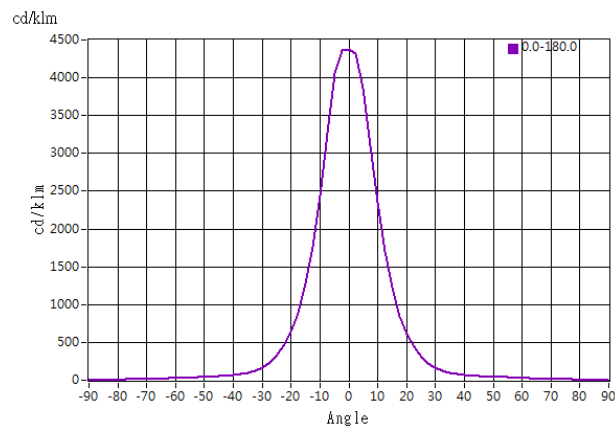




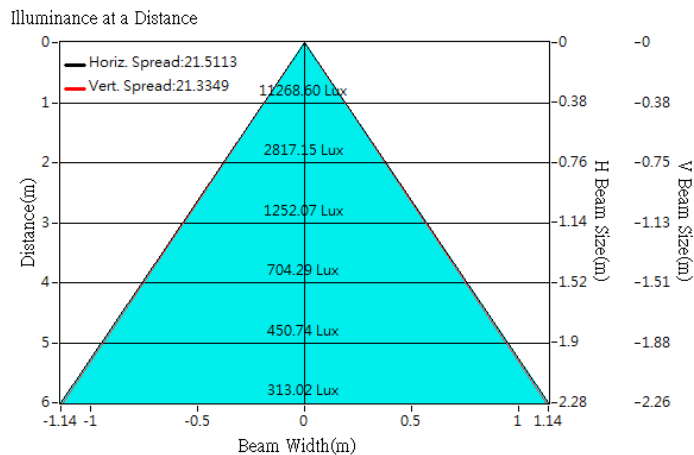
Optical Characteristics

Model Number	CKO-CH15-075033-4401		
LED	Fortimo SLM 1208 L15 G6		
LES / LED Size	Φ 15 mm		
FWHM (D50)	22°		
Field Angle (D10)	45°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2573 lm	Measured @26.8 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

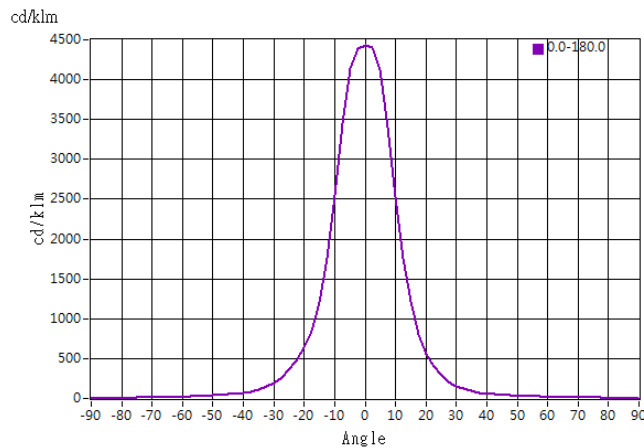




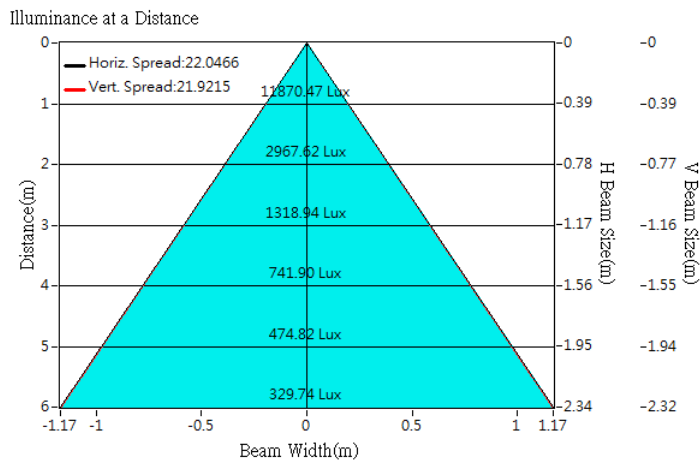
Optical Characteristics

Model Number	CKO-CH15-075033-4401		<p>"H" definition</p>
LED	Fortimo SLM 1208 L15 G6_PI		
LES / LED Size	Φ 15 mm		
FWHM (D50)	22°		
Field Angle(D10)	45°		
H (distance)	3.5mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2675 lm	Measured @26.8 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

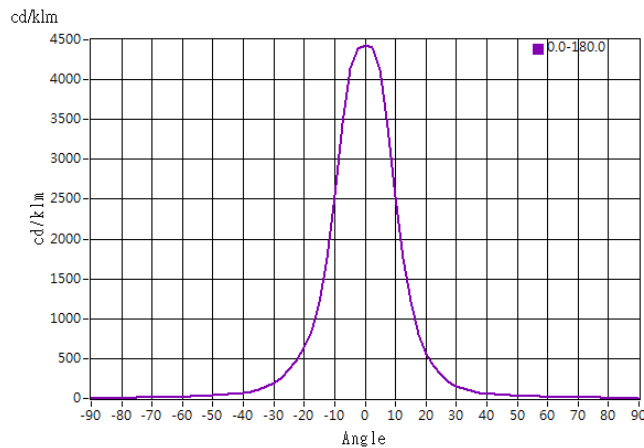




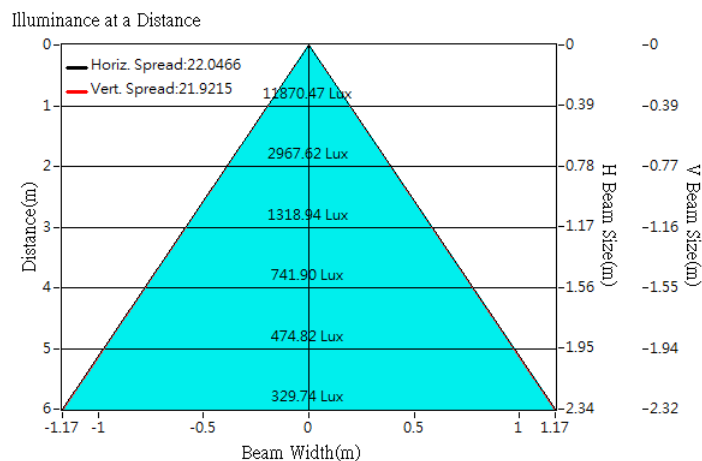
Optical Characteristics

Model Number	CKO-CH15-075033-4401		<p>"H" definition</p>
LED	Fortimo SLM 1208 L15 G6_DL		
LES / LED Size	Φ 15 mm		
FWHM (D50)	22°		
Field Angle(D10)	45°		
H (distance)	3.5mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2675 lm	Measured @26.8 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

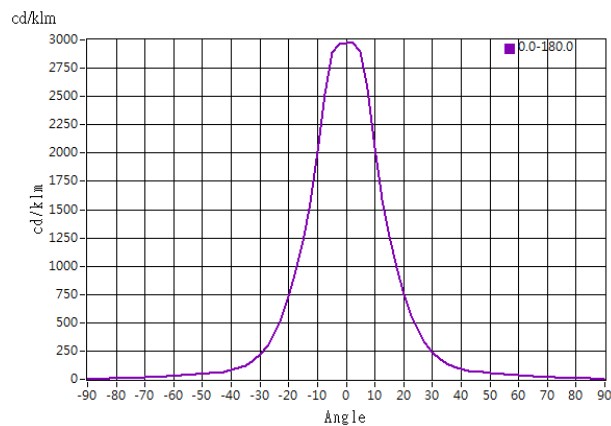




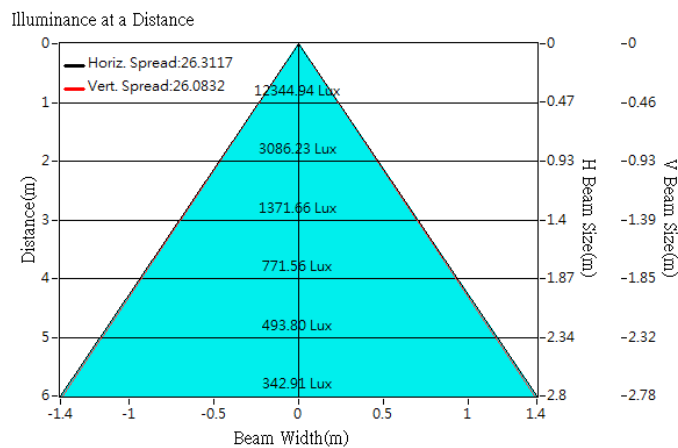
Optical Characteristics

Model Number	CKO-CH15-075033-4401		
LED	Fortimo SLM 1211 L19 G6		
LES / LED Size	Φ 19 mm		
FWHM (D50)	26°		
Field Angle (D10)	56°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	4156 lm	Measured @ 36.1 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

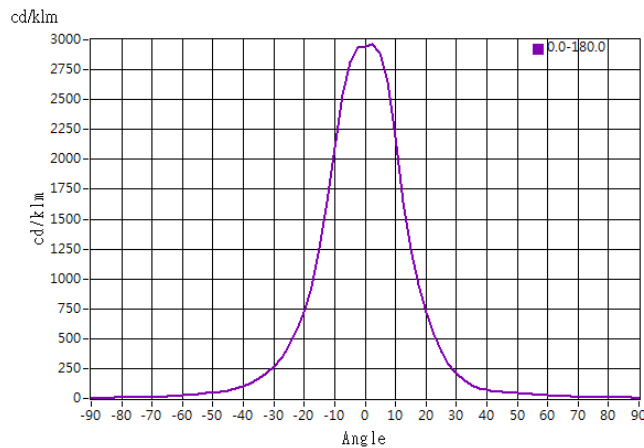




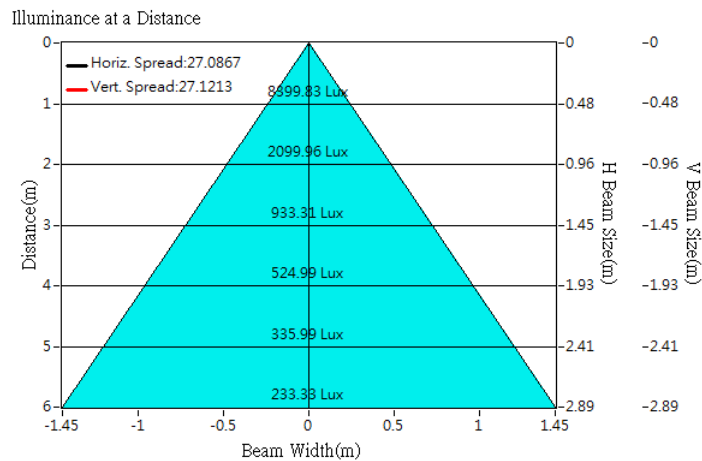
Optical Characteristics

Model Number	CKO-CH15-075033-4401		
LED	Fortimo SLM 1211 L19 G6_DL		
LES / LED Size	Φ 19 mm		
FWHM (D50)	27°		
Field Angle (D10)	56°		
H (distance)	3.5mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2855 lm	Measured @35.6 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

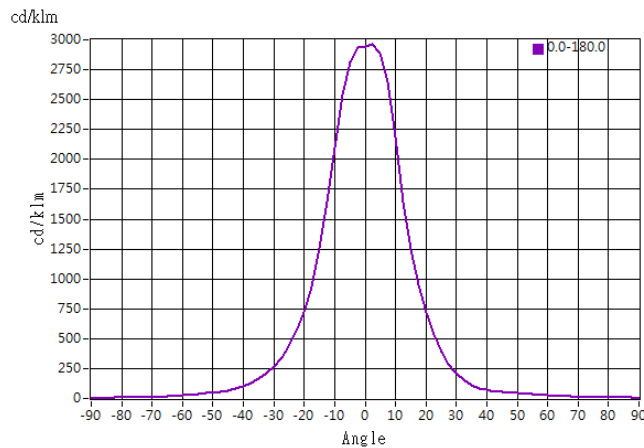




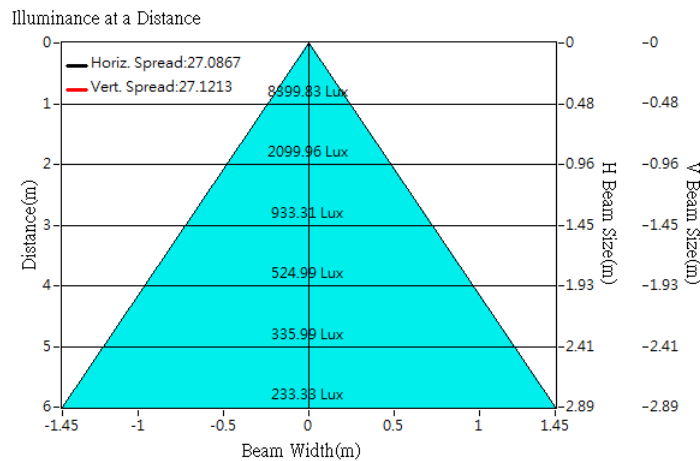
Optical Characteristics

Model Number	CKO-CH15-075033-4401		<p>"H" definition</p>
LED	Fortimo SLM 1211 L19 G6_PI		
LES / LED Size	Φ 19 mm		
FWHM (D50)	27°		
Field Angle (D10)	56°		
H (distance)	3.5mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2855 lm	Measured @35.6 W	
Material	PC / UL94V2		

cd/klm

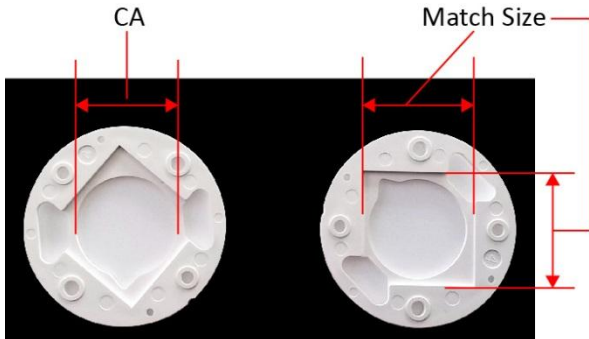


Illuminance At Distances





Lens Accessories - CoB Holder



Example of LES Area & LED Size
Dimension Locations

Product Model	Match Size (mm)	CA (mm)	Material	Applicability
CKO-HC14-161911-0501	16.3 x 19.3	Φ 11.9	PBT	Philips 1202
CKO-HC14-161911-0501	16.3 x 19.3	Φ 11.9	PBT	Philips 1203
CKO-HC14-202419-0502	20.3 x 24.3	Φ 19.2	PBT	Philips 1204
CKO-HC14-202419-0502	20.3 x 24.3	Φ 19.2	PBT	Philips 1205