



## Product Model Number

CKO-CH15-075033-4403

### ✓ Model Number Definitions

**CKO-XXXX-XXXXXX-XXXX**

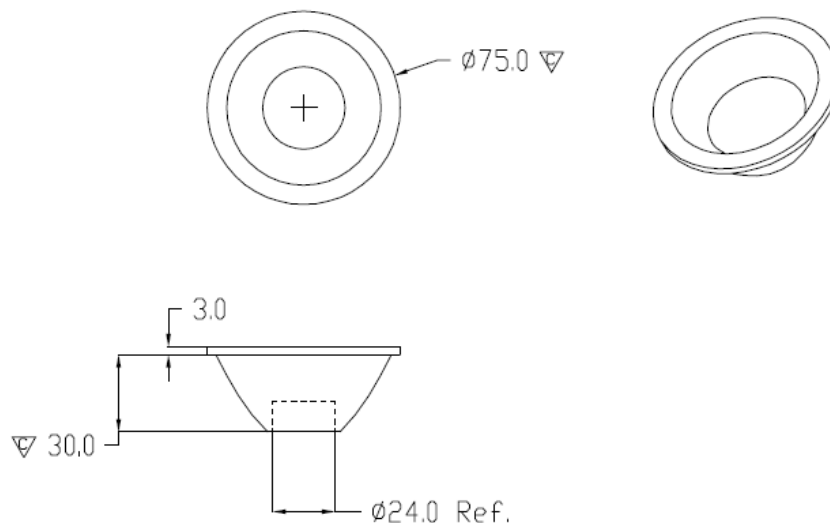


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation  
Ex:  
CH→CoB High Intensity  
CC→CoB Compact  
CS→Soft Shading for CoB LED  
HC→Holder for CoB LED

- 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

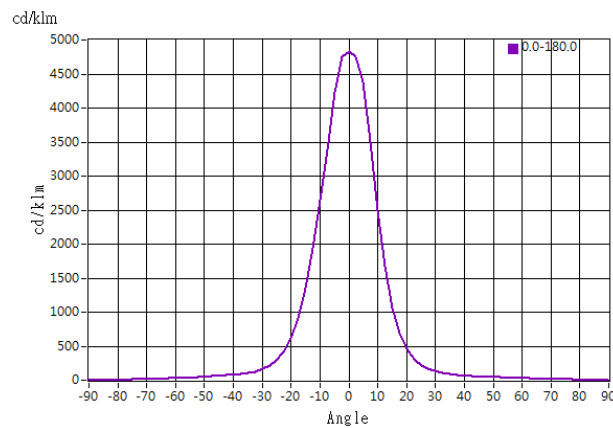
Philips	LED LES (mm)	FWHM (degrees)	Field Angle (degrees)
Fortimo SLM 1203 L09 G6	Φ9	21°	41°
Fortimo SLM 1203 L09 G6_DL	Φ9	19°	40°
Fortimo SLM 1203 L09 G6_PI	Φ9	19°	40°
Fortimo SLM PW 1204 L09 G7	Φ9	19°	39°
Fortimo SLM 1201 L09 G7N	Φ9.8	20°	41°
Fortimo SLM 1202 L09 G7N	Φ9.8	21°	43°
Fortimo SLM 1203 L09 G7N	Φ9.8	21°	43°
Fortimo SLM 1204 L09 G7N	Φ9.8	21°	42°
Fortimo SLM 1205 L13 G7	Φ13	25°	49°
Fortimo SLM PW 1205 L13 G6	Φ13	24°	50°
Fortimo SLM PW 1205 L13 G6_DL	Φ13	24°	49°
Fortimo SLM PW 1205 L13 G6_PI	Φ13	24°	49°
Fortimo SLM 1205 L15 G7N	Φ14.5	25°	52°
Fortimo SLM 1206 L15 G7N	Φ14.5	25°	53°
Fortimo SLM 1208 L15 G7N	Φ14.5	25°	52°
Fortimo SLM 1210 L15 G7N	Φ14.5	25°	50°
Fortimo SLM 1208 L15 G7	Φ15	26°	53°
Fortimo SLM 1208 L15 G6	Φ15	25°	53°
Fortimo SLM 1208 L15 G6_DL	Φ15	26°	53°
Fortimo SLM 1208 L15 G6_PI	Φ15	26°	53°
Fortimo SLM 1211 L19 G6	Φ19	29°	63°
Fortimo SLM 1211 L19 G6_DL	Φ19	30°	63°
Fortimo SLM 1211 L19 G6_PI	Φ19	30°	63°



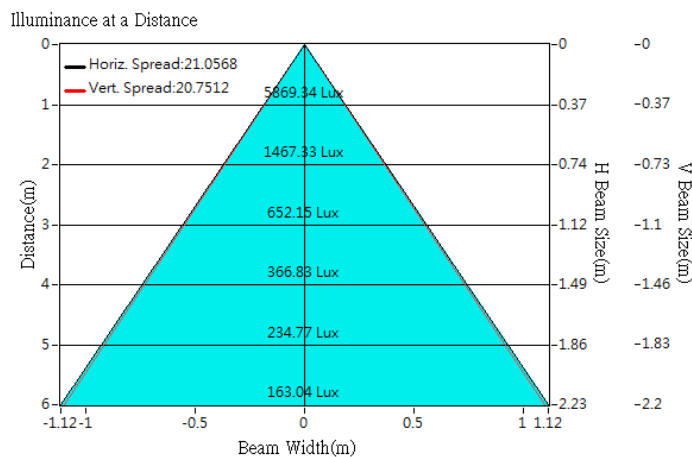
## Optical Characteristics

Model Number	CKO-CH15-075033-4403		<p>"H" definition</p>
LED	Fortimo SLM 1203 L09 G6		
LES / LED Size	Φ 9 mm		
FWHM (D50)	21°		
Field Angle (D10)	41°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1216 lm	Measured @ 10.5W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

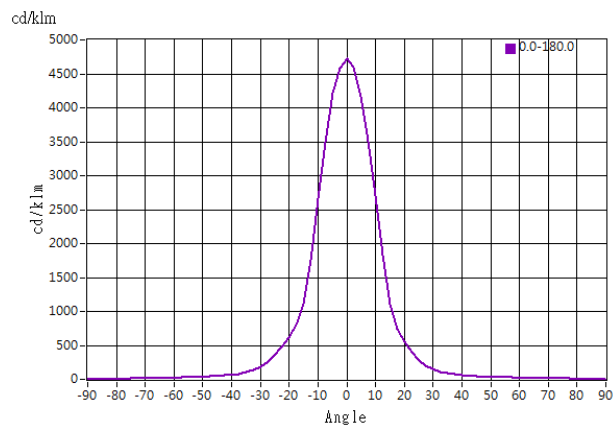




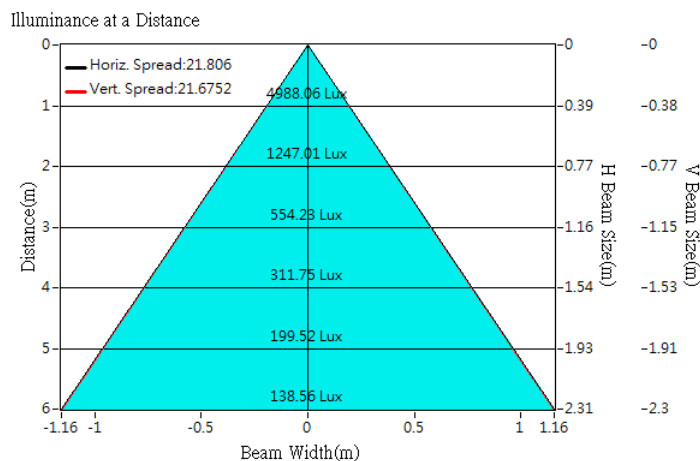
## Optical Characteristics

Model Number	CKO-CH15-075033-4403		
LED	Fortimo SLM 1203 L09 G6_DL		
LES / LED Size	Φ 9 mm		
FWHM (D50)	19°		
Field Angle (D10)	40°		
H (distance)	3.5mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1056 lm	Measured @ 10.5 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

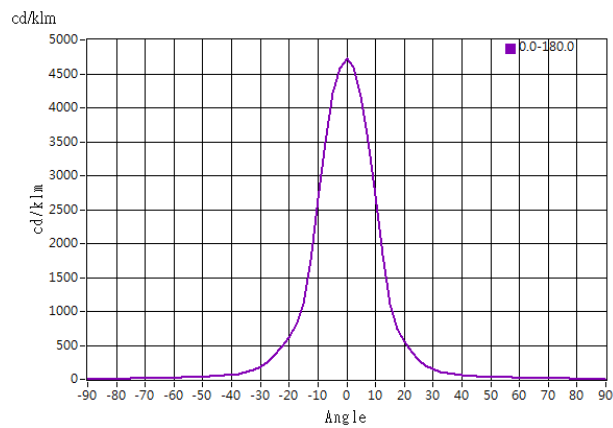




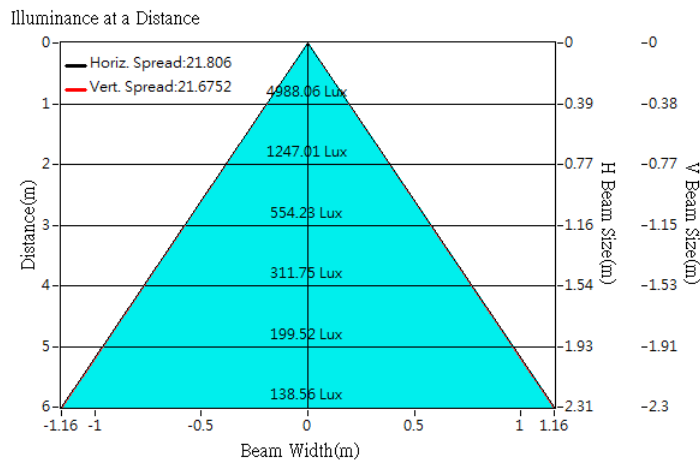
## Optical Characteristics

Model Number	CKO-CH15-075033-4403		<p>"H" definition</p>
LED	Fortimo SLM 1203 L09 G6_PI		
LES / LED Size	Φ 9 mm		
FWHM (D50)	19°		
Field Angle (D10)	40°		
H (distance)	3.5mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1056 lm	Measured @ 10.5 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

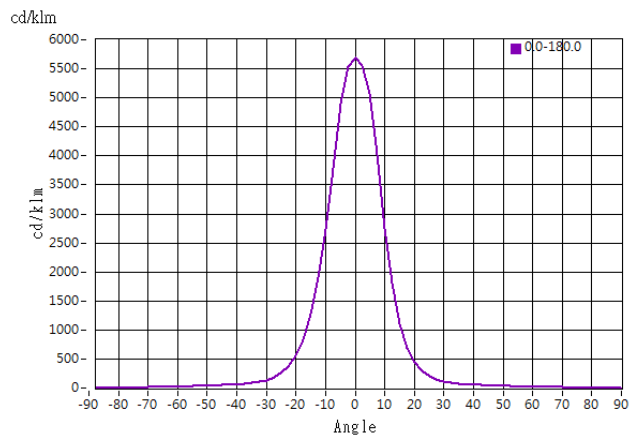




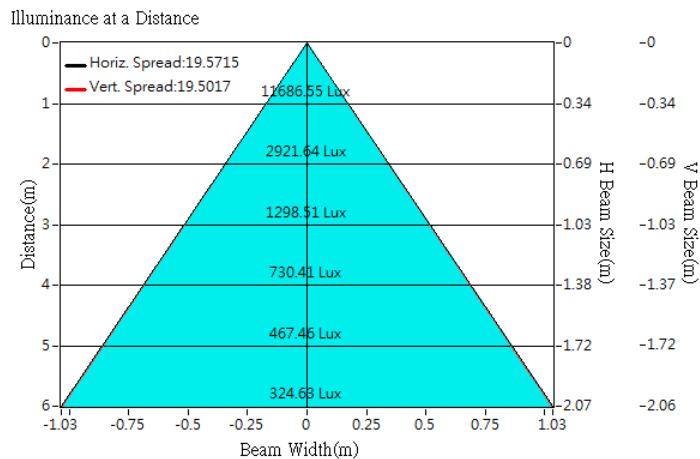
## Optical Characteristics

Model Number	CKO-CH15-075033-4403		<p>"H" definition</p>
LED	Fortimo SLM 1204 L09 G7		
LES / LED Size	Φ 9 mm		
FWHM (D50)	19°		
Field Angle (D10)	39°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2055 lm	Measured @21.6 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

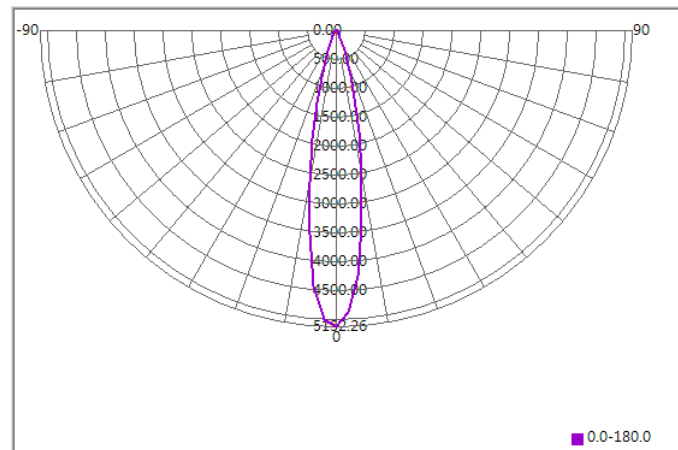




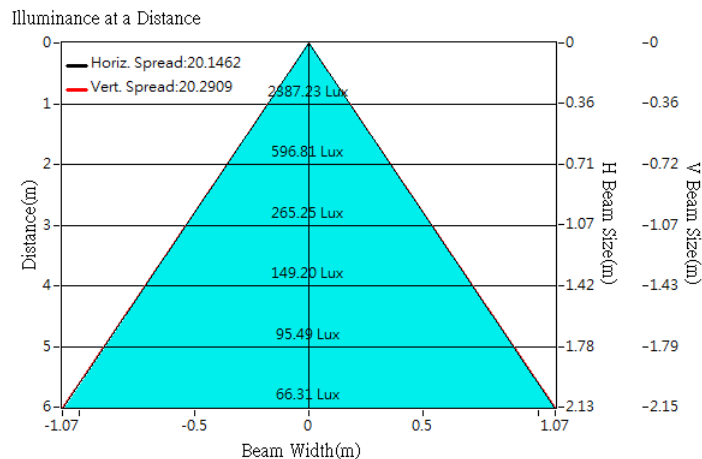
## Optical Characteristics

Model Number	CKO-CH15-075033-4403		<p>"H" definition</p>
LED	Fortimo SLM 1201 L09 G7N		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	20°		
Field Angle (D10)	41°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	465 lm	Measured @3.0W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

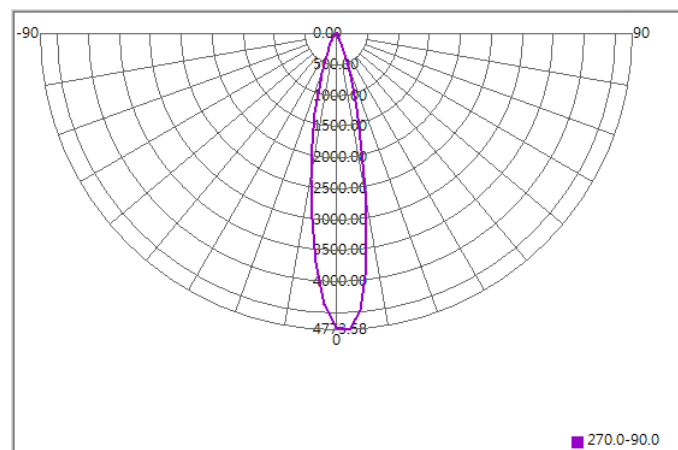




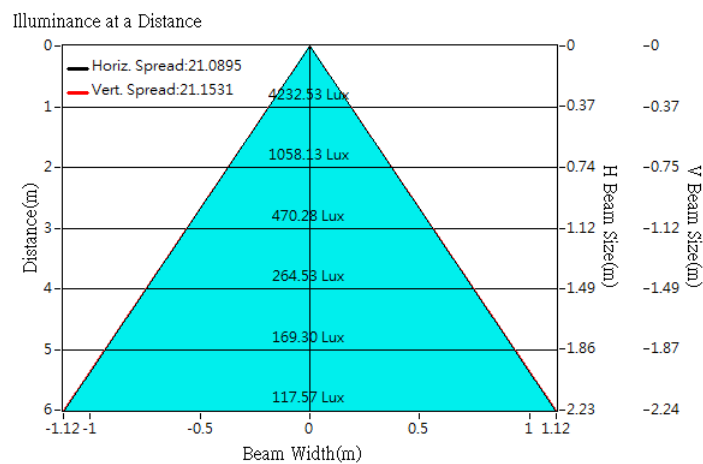
## Optical Characteristics

Model Number	CKO-CH15-075033-4403		<p>"H" definition</p> <p>LES CoB "H" mm (distance)</p>
LED	Fortimo SLM 1202 L09 G7N		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	21°		
Field Angle (D10)	43°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	894 lm	Measured @6.1 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

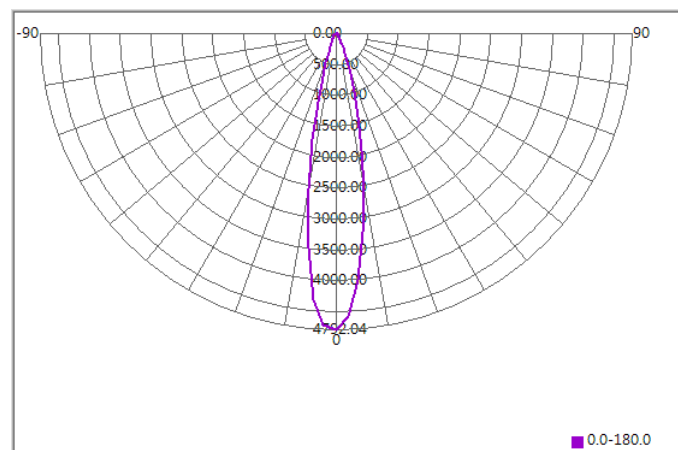




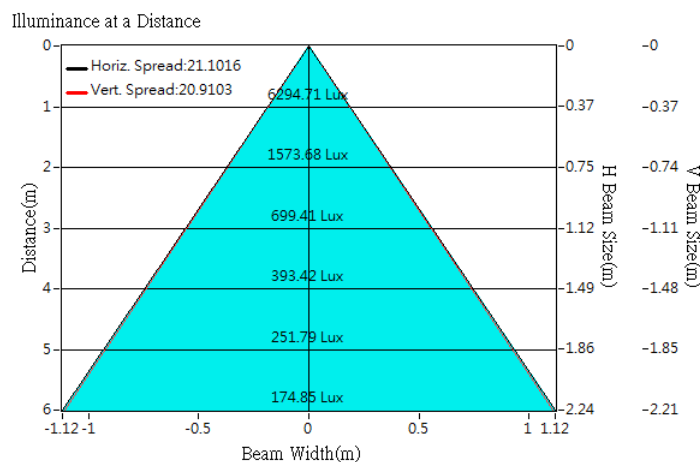
## Optical Characteristics

Model Number	CKO-CH15-075033-4403		<p>"H" definition</p> <p>LES</p> <p>CoB</p> <p>"H" mm (distance)</p>
LED	Fortimo SLM 1203 L09 G7N		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	21°		
Field Angle (D10)	43°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1313 lm	Measured @9.2 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

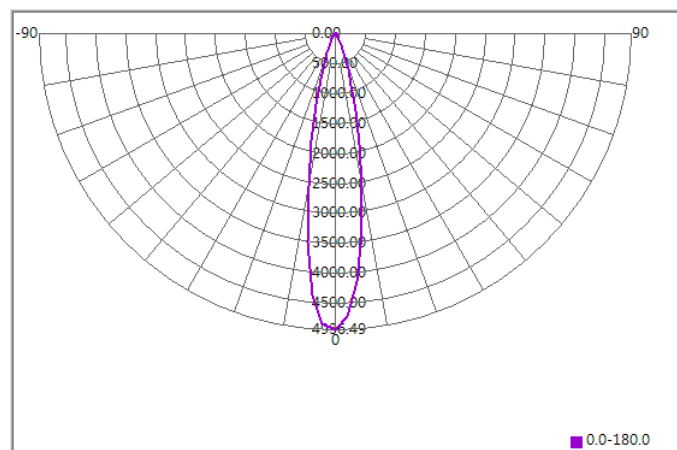




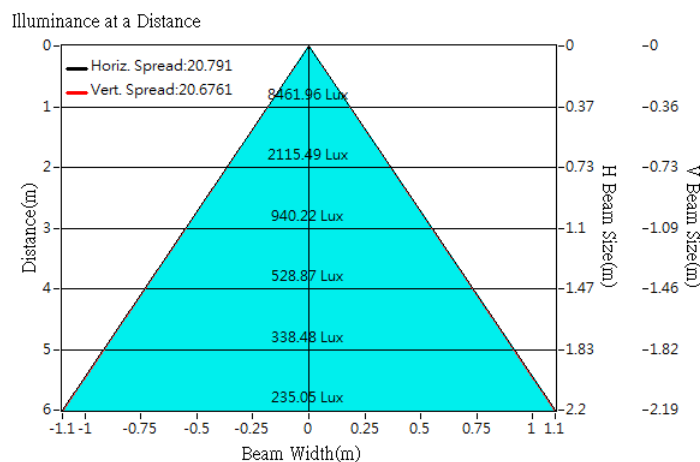
## Optical Characteristics

Model Number	CKO-CH15-075033-4403		
LED	Fortimo SLM 1204 L09 G7N		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	21°		
Field Angle (D10)	42°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1714 lm	Measured @12.2 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

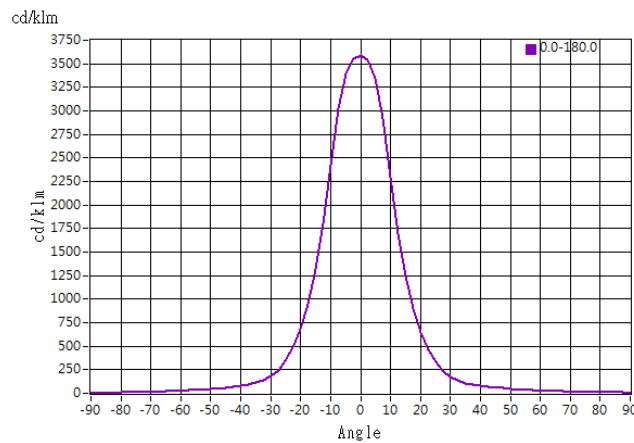




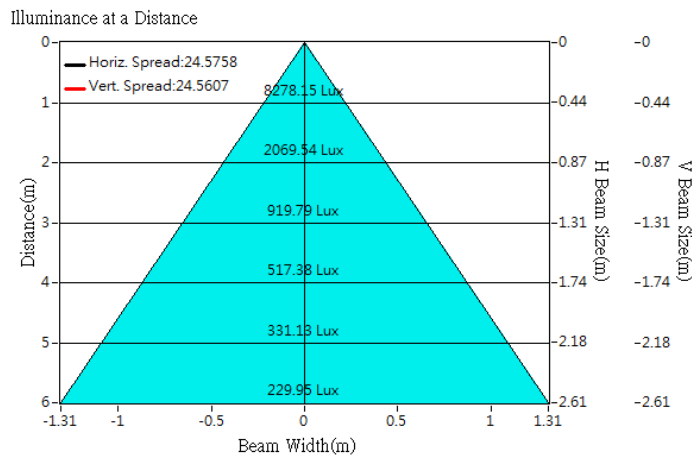
## Optical Characteristics

Model Number	CKO-CH15-075033-4403		
LED	Fortimo SLM 1205 L13 G7		
LES / LED Size	Φ 13 mm		
FWHM (D50)	25°		
Field Angle (D10)	49°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2304 lm	Measured @17.6 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

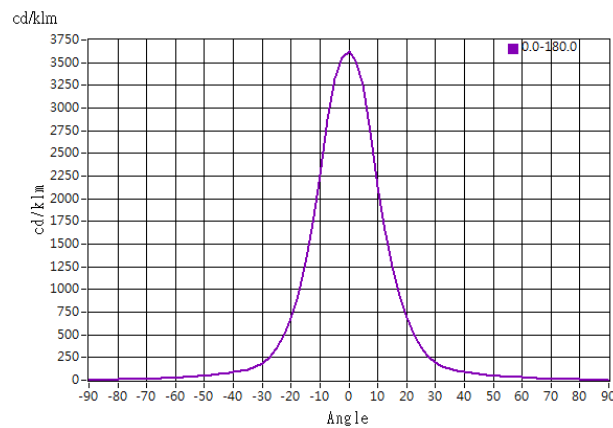




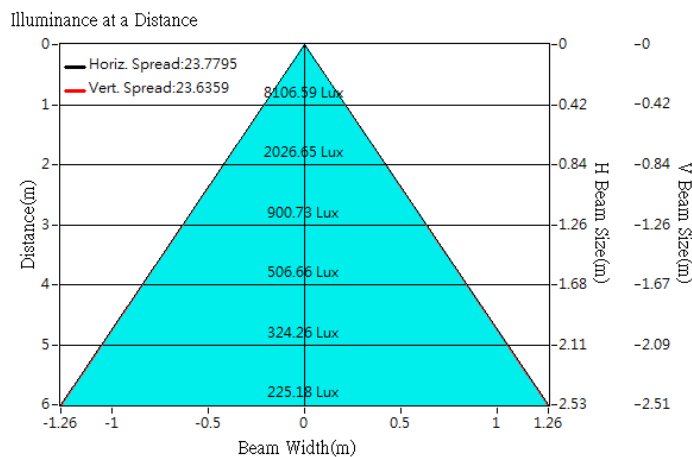
## Optical Characteristics

Model Number	CKO-CH15-075033-4403		<p>"H" definition</p>
LED	Fortimo SLM 1205 L13 G6		
LES / LED Size	Φ 13 mm		
FWHM (D50)	24°		
Field Angle (D10)	50°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2237 lm	Measured @ 17.4W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

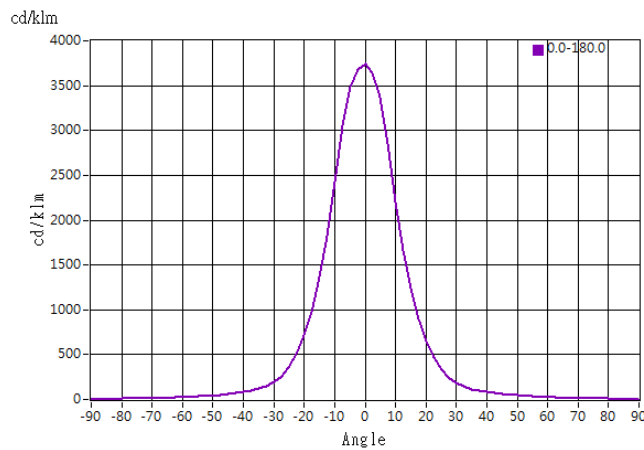




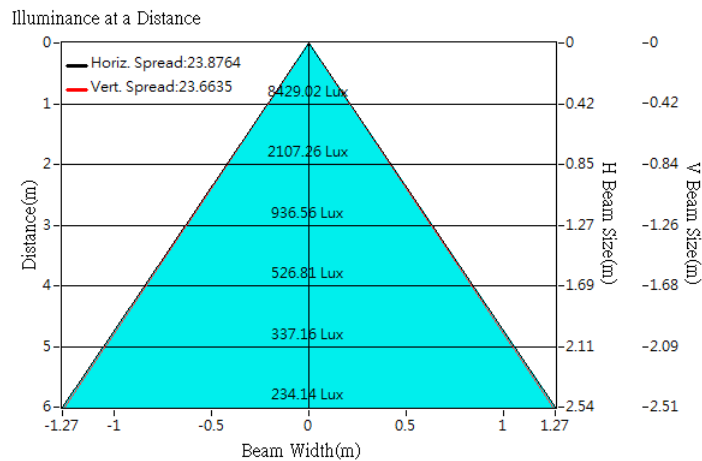
## Optical Characteristics

Model Number	CKO-CH15-075033-4403		
LED	Fortimo SLM PW 1205 L13 G6_PI		
LES / LED Size	Φ 13 mm		
FWHM (D50)	24°		
Field Angle (D10)	49°		
H (distance)	3.5mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2256 lm	Measured @ 17.4W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

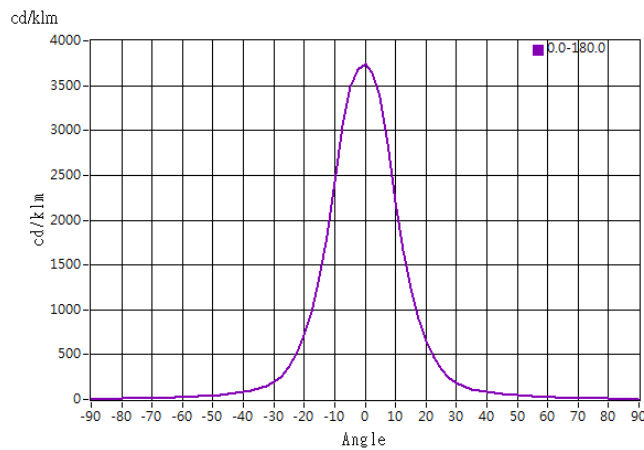




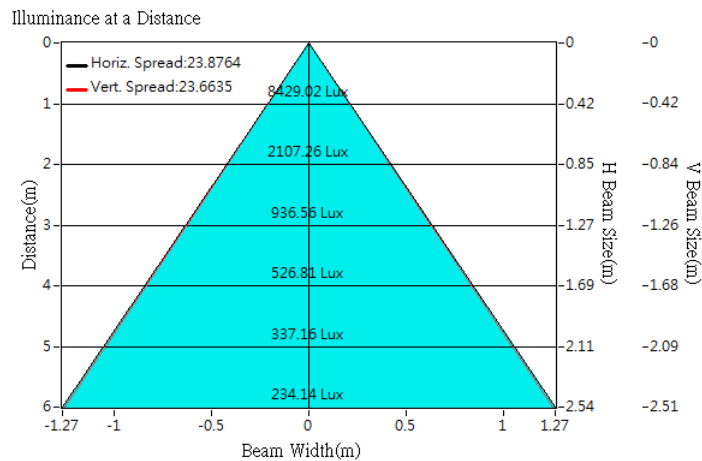
## Optical Characteristics

Model Number	CKO-CH15-075033-4403		<p>"H" definition</p>
LED	Fortimo SLM PW 1205 L13 G6_DL		
LES / LED Size	Φ 13 mm		
FWHM (D50)	24°		
Field Angle (D10)	49°		
H (distance)	3.5mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2256 lm	Measured @ 17.4W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

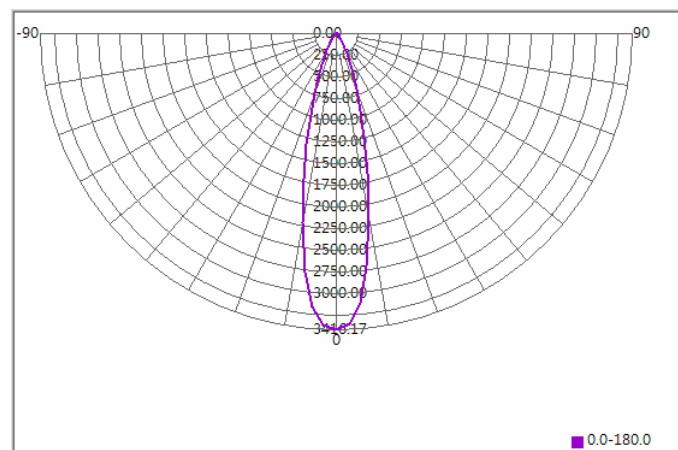




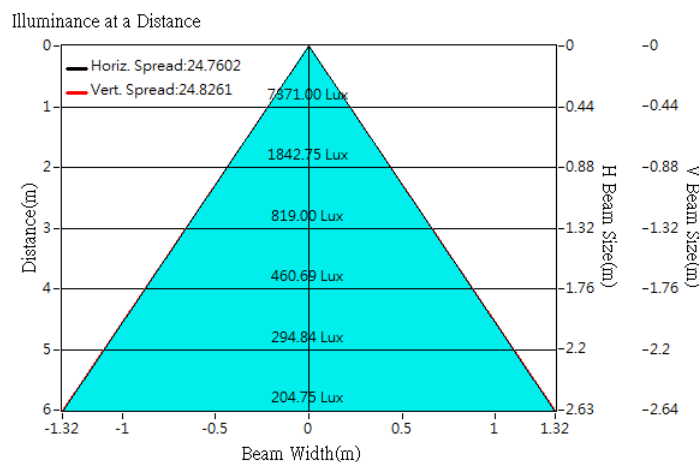
## Optical Characteristics

Model Number	CKO-CH15-075033-4403		<p>"H" definition</p> <p>LES CoB</p>
LED	Fortimo SLM 1205 L15 G7N		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	25°		
Field Angle (D10)	52°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2157 lm	Measured @15.4 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

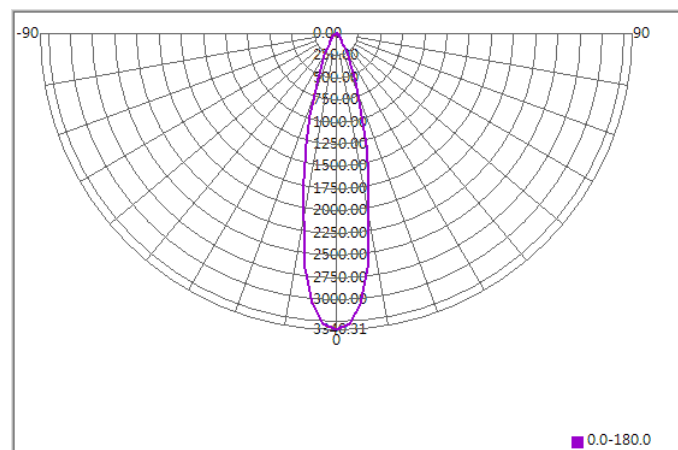




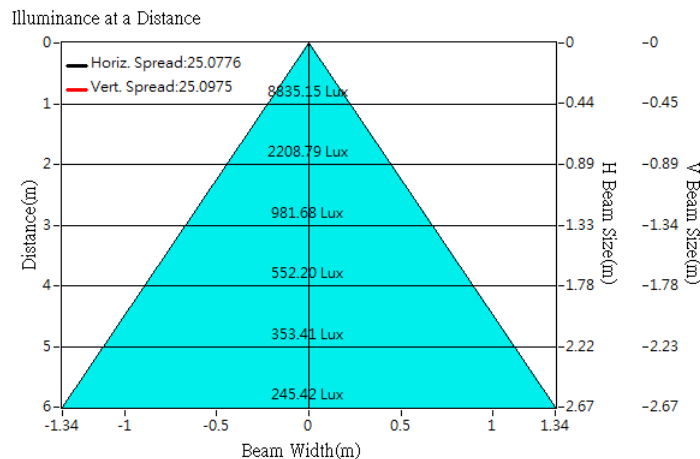
## Optical Characteristics

Model Number	CKO-CH15-075033-4403		<p>"H" definition</p> <p>LES</p> <p>CoB</p>
LED	Fortimo SLM 1206 L15 G7N		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	25°		
Field Angle (D10)	53°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2645 lm	Measured @18.5 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

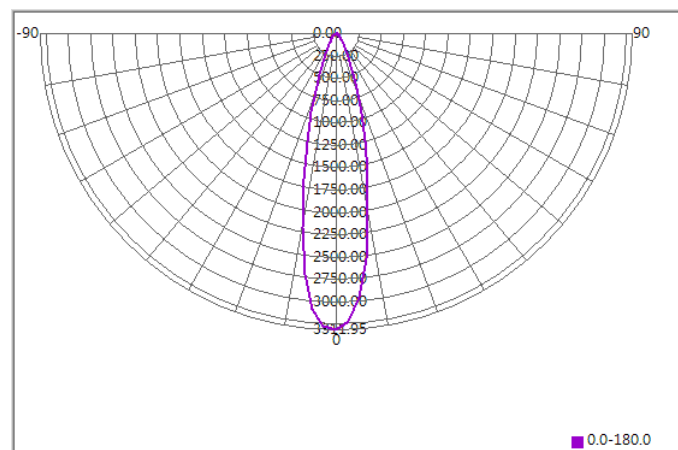




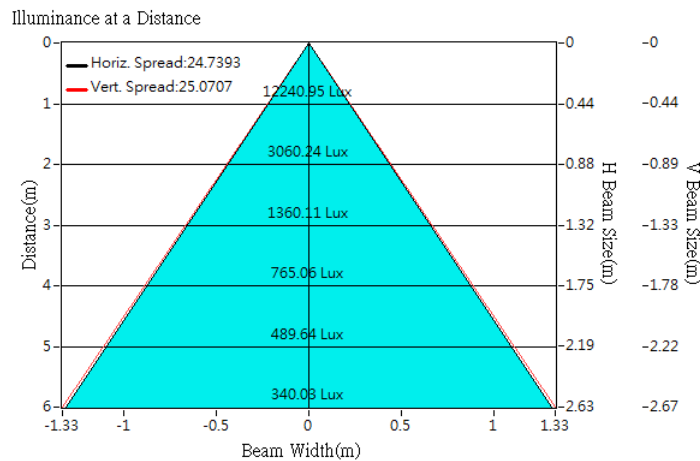
## Optical Characteristics

Model Number	CKO-CH15-075033-4403		<p>"H" definition</p>
LED	Fortimo SLM 1208 L15 G7N		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	25°		
Field Angle (D10)	52°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	3695 lm	Measured @24.7 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

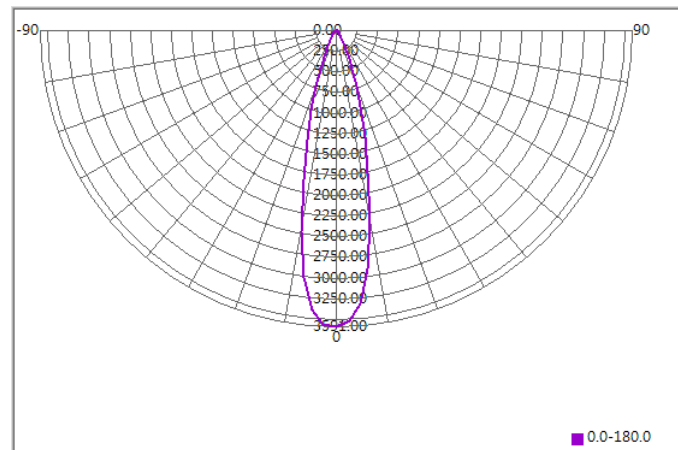




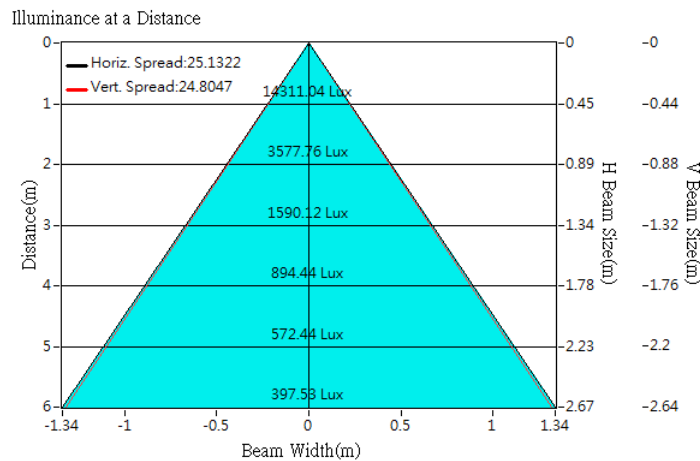
## Optical Characteristics

Model Number	CKO-CH15-075033-4403		<p>"H" definition</p> <p>LES CoB "H" mm (distance)</p>
LED	Fortimo SLM 1210 L15 G7N		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	25°		
Field Angle (D10)	50°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	3985 lm	Measured @31.6 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

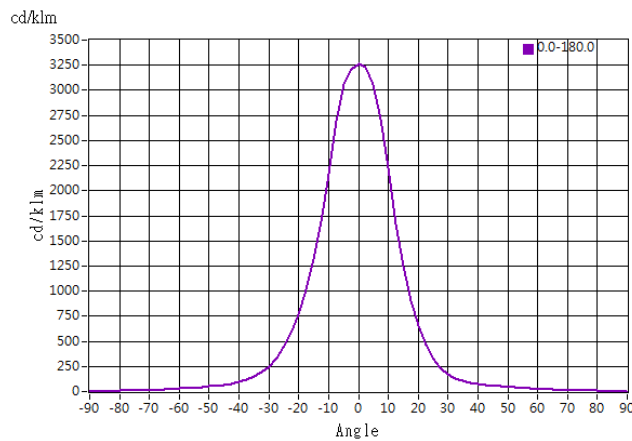




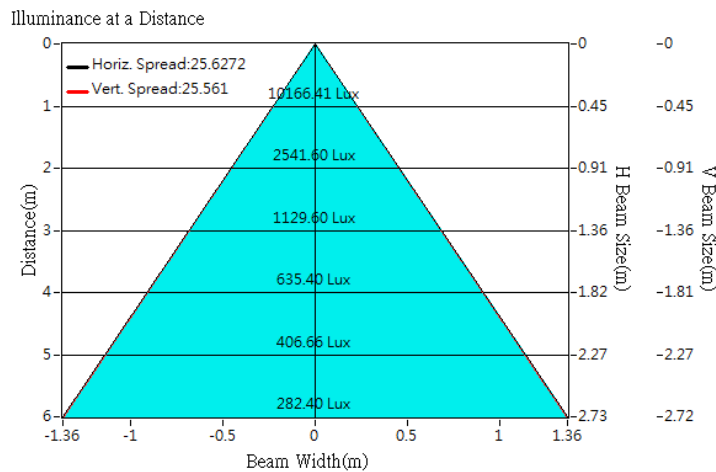
## Optical Characteristics

Model Number	CKO-CH15-075033-4403		<p>"H" definition</p> <p>LES CoB</p>
LED	Fortimo SLM 1208 L15 G7		
LES / LED Size	Φ 15 mm		
FWHM (D50)	26°		
Field Angle (D10)	53°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	3114 lm	Measured @25.9 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

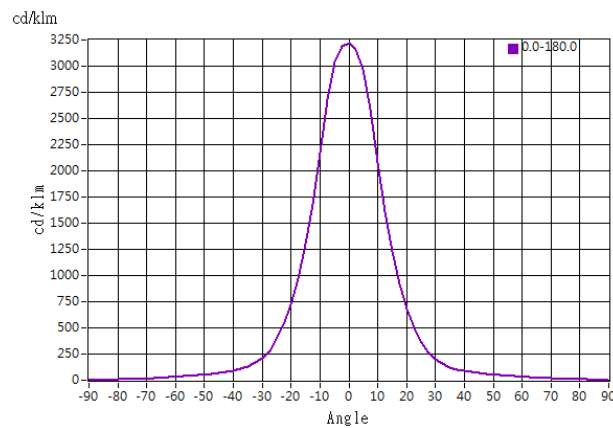




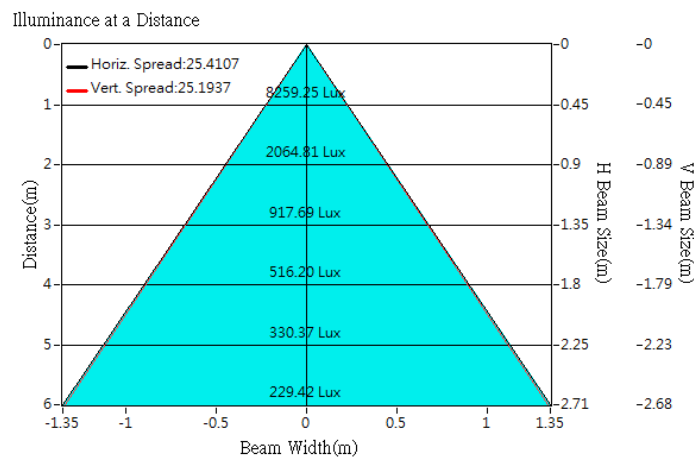
## Optical Characteristics

Model Number	CKO-CH15-075033-4403		<p>"H" definition</p>
LED	Fortimo SLM 1208 L15 G6		
LES / LED Size	Φ 15 mm		
FWHM (D50)	25°		
Field Angle (D10)	53°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2564 lm	Measured @26.8 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

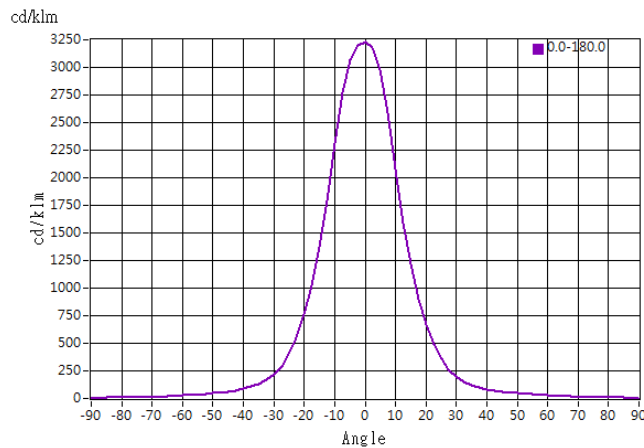




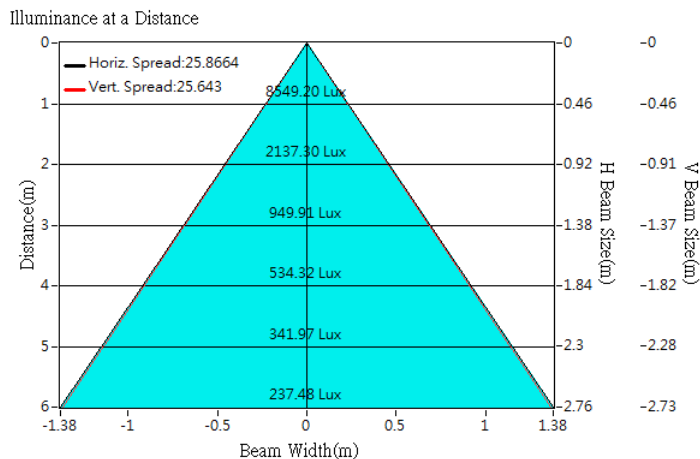
## Optical Characteristics

Model Number	CKO-CH15-075033-4403		
LED	Fortimo SLM 1208 L15 G6_PI		
LES / LED Size	Φ 15 mm		
FWHM (D50)	26°		
Field Angle (D10)	53°		
H (distance)	3.5mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2643 lm	Measured @27 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

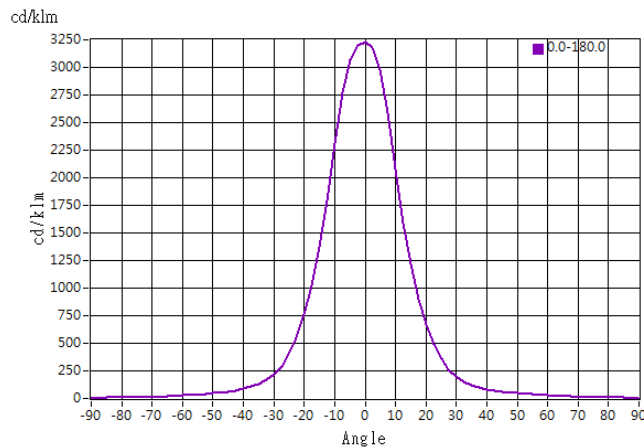




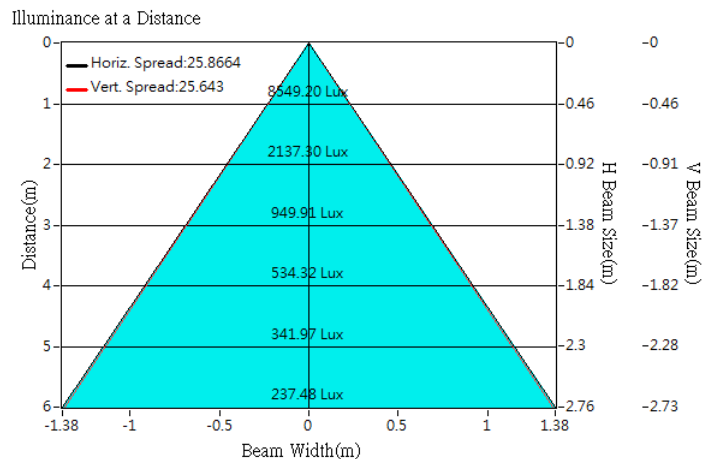
## Optical Characteristics

Model Number	CKO-CH15-075033-4403		
LED	Fortimo SLM 1208 L15 G6_DL		
LES / LED Size	Φ 15 mm		
FWHM (D50)	26°		
Field Angle (D10)	53°		
H (distance)	3.5mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2643 lm	Measured @27 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

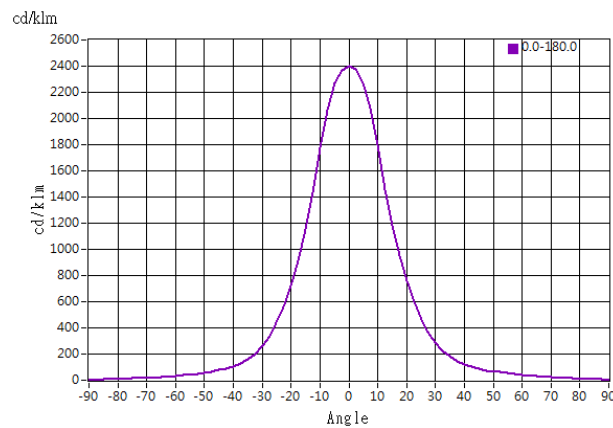




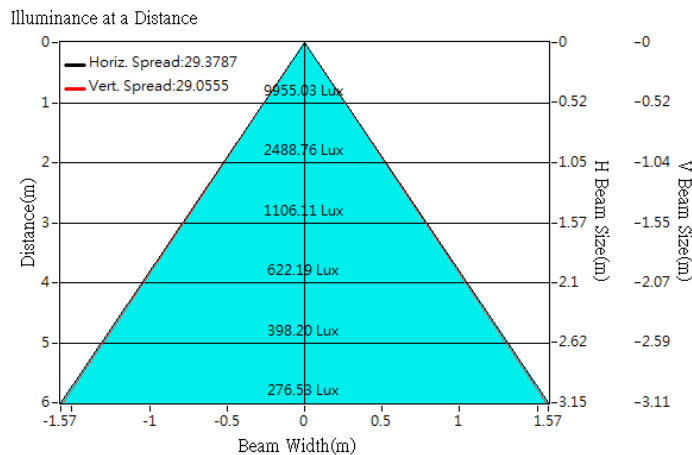
## Optical Characteristics

Model Number	CKO-CH15-075033-4403		<p>"H" definition</p>
LED	Fortimo SLM 1211 L19 G6		
LES / LED Size	Φ 19 mm		
FWHM (D50)	29°		
Field Angle (D10)	63°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	4146 lm	Measured @36 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

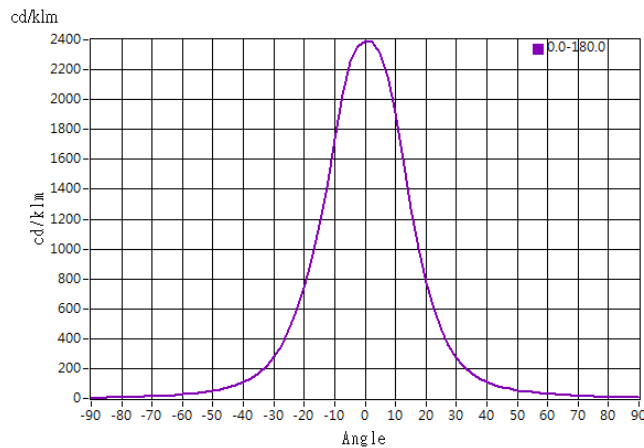




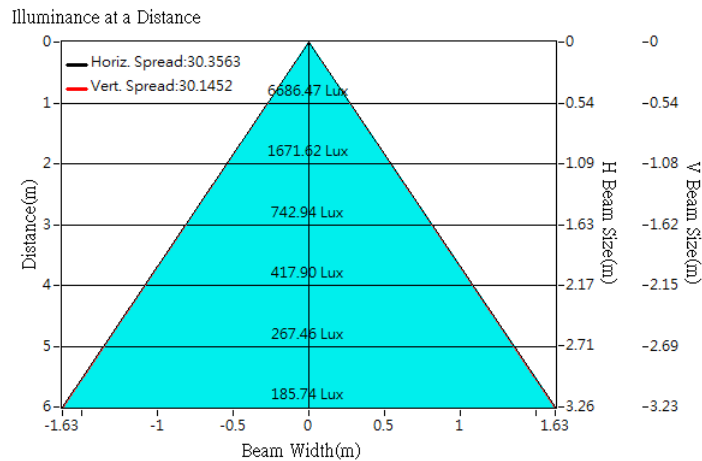
## Optical Characteristics

Model Number	CKO-CH15-075033-4403		
LED	Fortimo SLM 1211 L19 G6_PI		
LES / LED Size	Φ 19 mm		
FWHM (D50)	30°		
Field Angle (D10)	63°		
H (distance)	3.5mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2795 lm	Measured @36 W	
Material	PC / UL94V2		

## cd/klm



## Illuminance At Distances

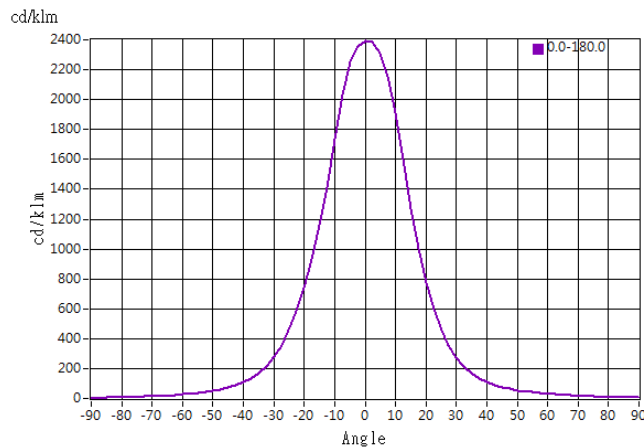




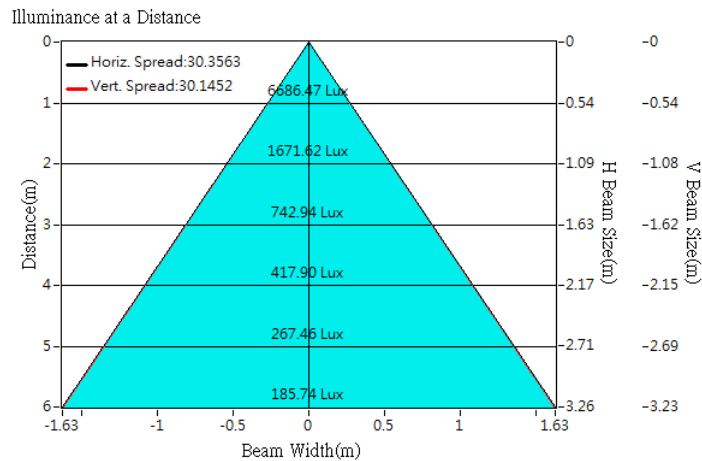
## Optical Characteristics

Model Number	CKO-CH15-075033-4403		
LED	Fortimo SLM 1211 L19 G6_DL		
LES / LED Size	Φ 19 mm		
FWHM (D50)	30°		
Field Angle (D10)	63°		
H (distance)	3.5mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2795 lm	Measured @36 W	
Material	PC / UL94V2		

## cd/klm

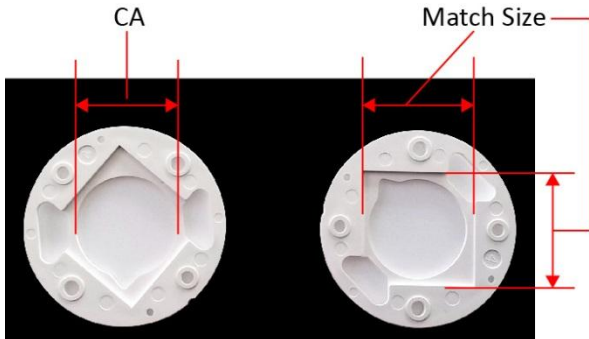


## Illuminance At Distances





## 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	<b>Philips 1202</b>
CKO-HC14-161911-0501	16.3 x 19.3	Φ 11.9	PBT	<b>Philips 1203</b>
CKO-HC14-202419-0502	20.3 x 24.3	Φ 19.2	PBT	<b>Philips 1204</b>
CKO-HC14-202419-0502	20.3 x 24.3	Φ 19.2	PBT	<b>Philips 1205</b>