



Product Model Number

CKO-SA15-075033-4009

✓ Model Number Definitions

CKO-XXXX-XXXXXX-XXXX

(A)

(B)

(C)

(D)

(E)

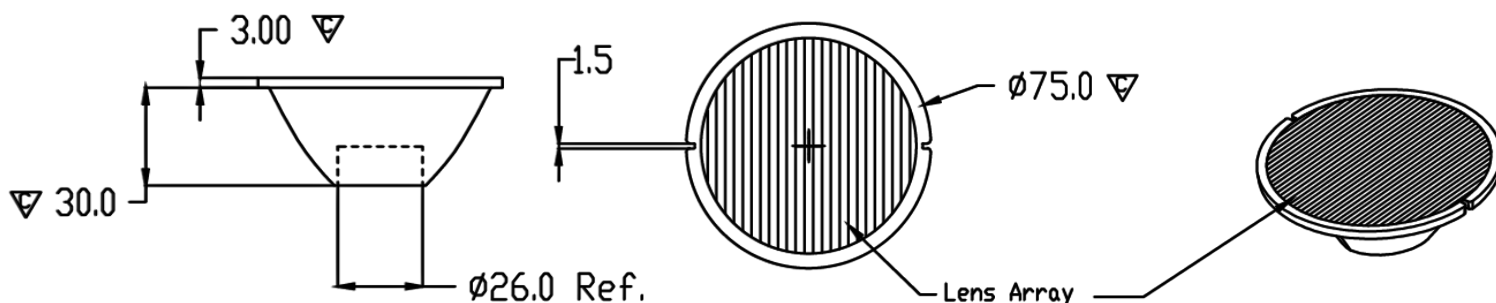


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation
Ex:
CH→CoB High Intensity
CC→CoB Compact
CS→Soft Shading for CoB LED
HC→Holder for CoB LED

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

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

✓ Dimensions (mm) : Φ75 x 33



▽:Critical Dimension

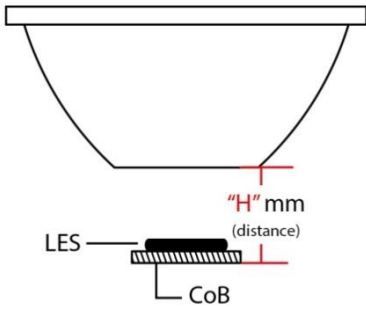


✓ Optical Characteristics – Angle Performances

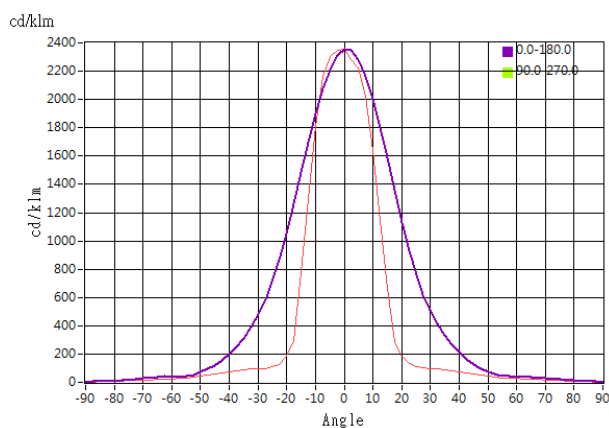
Philips	LED LES (mm)	FWHM (degrees)	Field Angle (degrees)
Fortimo SLM 1203 L09 G6	Φ9	25°x38°	38°x77°
Fortimo SLM PW 1204 L09 G7	Φ9	30°x39°	40°x78°
Fortimo SLM 1203 L09 G7N	Φ9.8	27°x38°	38°x74°
Fortimo SLM 1205 L13 G7	Φ13	31°x39°	44°x79°
Fortimo SLM PW 1205 L13 G6	Φ13	27°x39°	41°x78°
Fortimo SLM PW 1205 L13 G6_DL	Φ13	30°x40°	45°x79°
Fortimo SLM PW 1205 L13 G6_PI	Φ13	30°x40°	45°x79°
Fortimo SLM 1205 L15 G7N	Φ14.5	29°x39°	44°x77°
Fortimo SLM 1206 L15 G7N	Φ14.5	30°x39°	44°x78°
Fortimo SLM 1210 L15 G7N	Φ14.5	28°x39°	43°x77°
Fortimo SLM 1208 L15 G7	Φ15	30°x39°	45°x78°
Fortimo SLM 1208 L15 G6	Φ15	28°x39°	44°x79°
Fortimo SLM 1208 L15 G6_DL	Φ15	30°x40°	46°x80°
Fortimo SLM 1208 L15 G6_PI	Φ15	30°x40°	46°x80°
Fortimo SLM 1211 L19 G6	Φ19	32°x41°	52°x82°
Fortimo SLM 1211 L19 G6_DL	Φ19	33°x41°	53°x83°
Fortimo SLM 1211 L19 G6_PI	Φ19	33°x41°	53°x83°



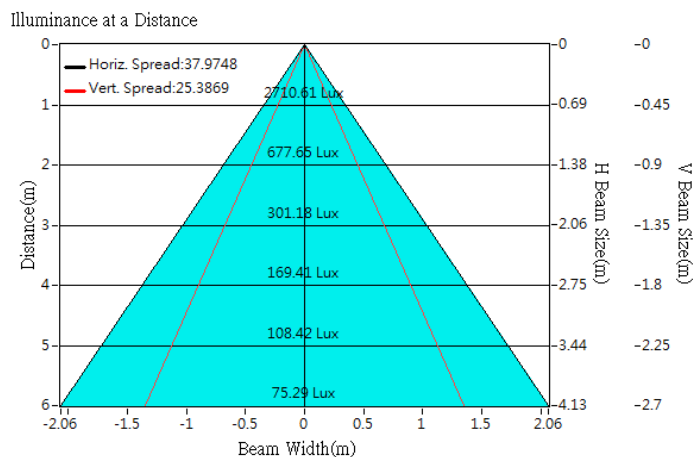
Optical Characteristics

Model Number	CKO-SA15-075033-4009		
LED	Fortimo SLM 1203 L09 G6		
LES / LED Size	Φ 9 mm		
FWHM (D50)	25°x38°		
Field Angle (D10)	38°x77°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1150 lm	Measured @ 10.5 W	
Material	PC / UL94V2		

cd/klm

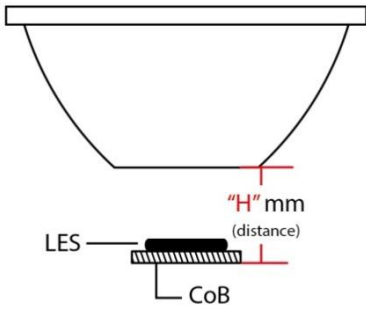


Illuminance At Distances

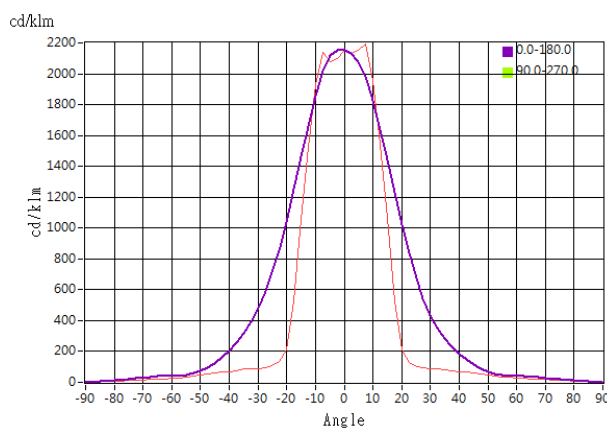




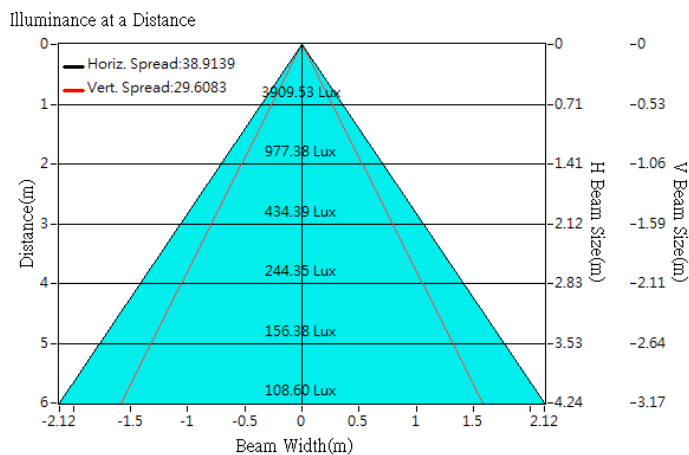
Optical Characteristics

Model Number	CKO-SA15-075033-4009		"H" definition
LED	Fortimo SLM PW 1204 L09 G7		
LES / LED Size	Φ 9 mm		
FWHM (D50)	30°x39°		
Field Angle (D10)	40°x78°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1816 lm	Measured @ 21.6 W	
Material	PC / UL94V2		

cd/klm

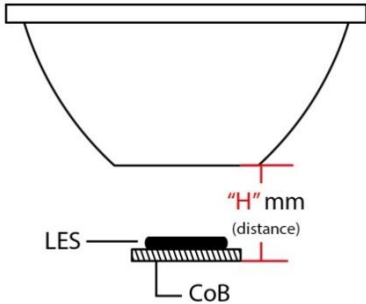


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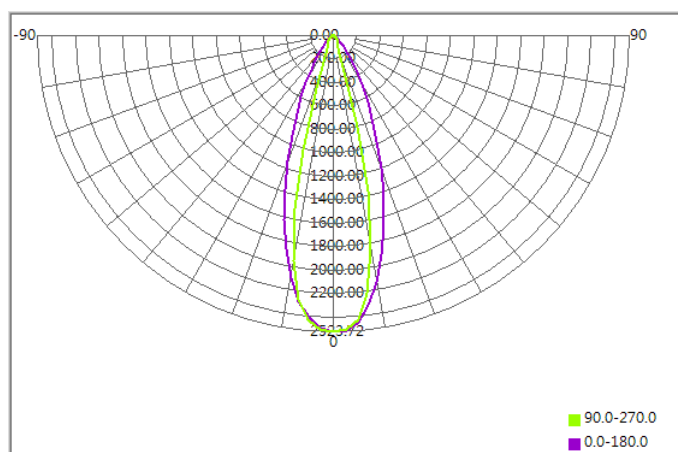




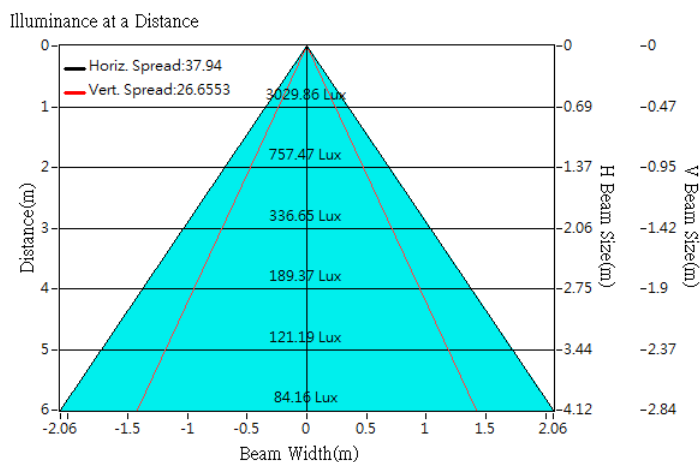
Optical Characteristics

Model Number	CKO-SA15-075033-4009		
LED	Fortimo SLM 1203 L09 G7N		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	27°x38°		
Field Angle (D10)	38°x74°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	1200 lm	Measured @ 9.2 W	
Material	PC / UL94V2		

cd/klm

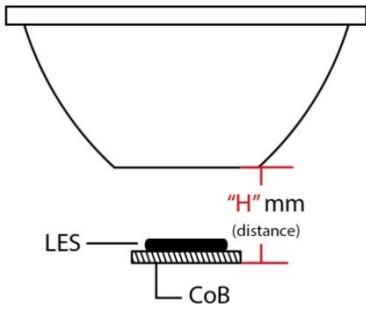


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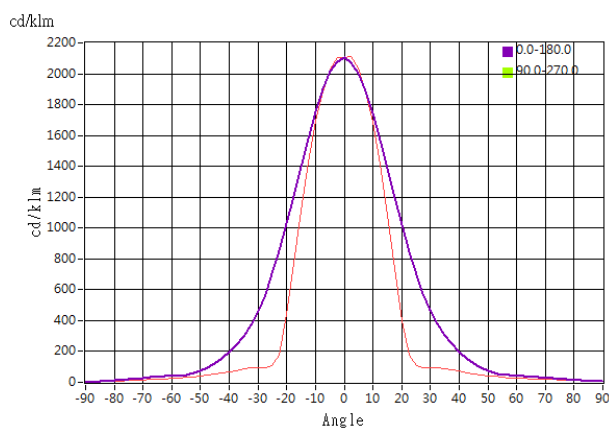




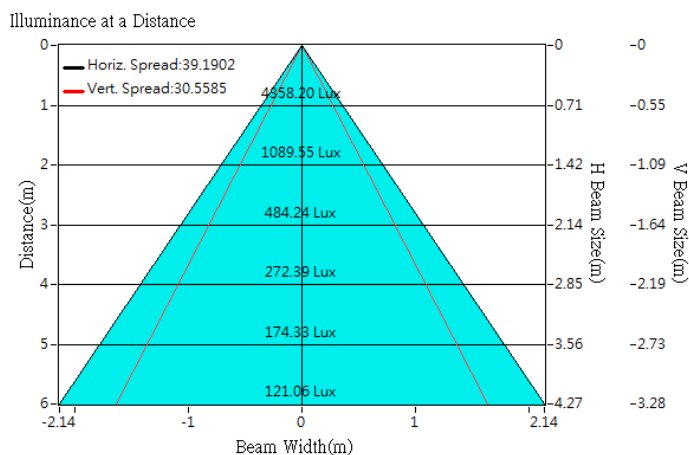
Optical Characteristics

Model Number	CKO-SA15-075033-4009		
LED	Fortimo SLM 1205 L13 G7		
LES / LED Size	Φ 13 mm		
FWHM (D50)	31°x39°		
Field Angle (D10)	44°x79°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2070 lm	Measured @ 17.6 W	
Material	PC / UL94V2		

cd/klm

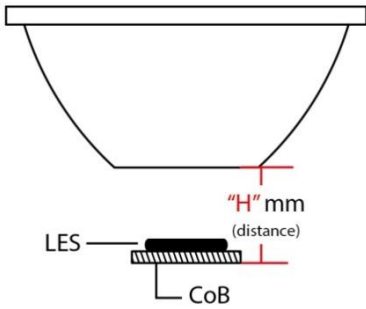


Illuminance At Distances

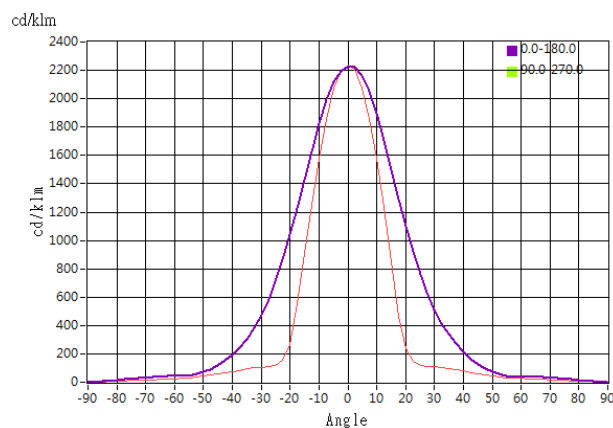




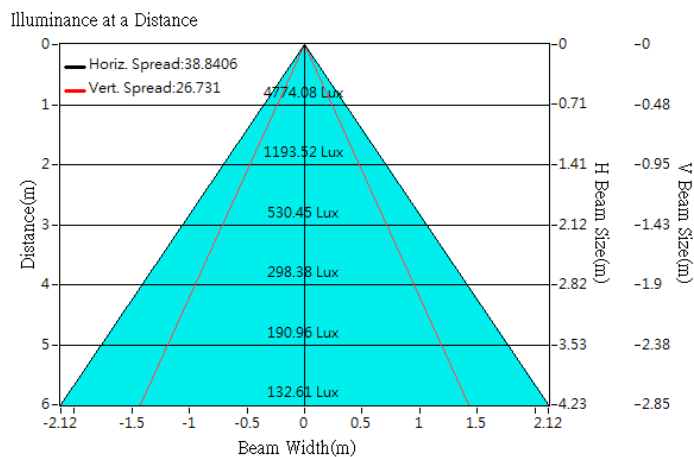
Optical Characteristics

Model Number	CKO-SA15-075033-4009		
LED	Fortimo SLM 1205 L13 G6		
LES / LED Size	Φ 13 mm		
FWHM (D50)	27°x39°		
Field Angle (D10)	41°x78°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2139 lm	Measured @ 17.4 W	
Material	PC / UL94V2		

cd/klm

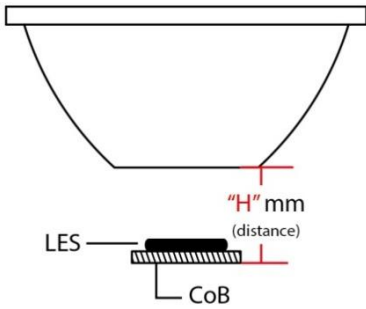


Illuminance At Distances

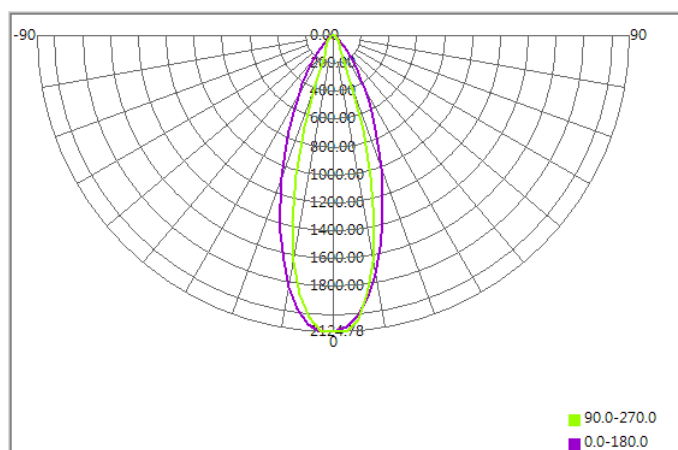




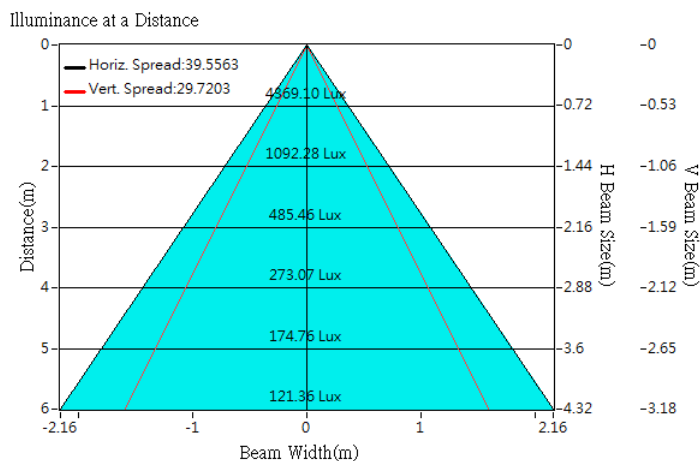
Optical Characteristics

Model Number	CKO-SA15-075033-4009		“H” definition 
LED	Fortimo SLM C 1205 L13 2024 G6_DL		
LES / LED Size	Φ 13 mm		
FWHM (D50)	30°x40°		
Field Angle (D10)	45°x79°		
H (distance)	3.5 mm		
Dimension	Φ =75 mm, Thickness= 33mm		
Luminous Flux	2056 lm	Measured @ 17.3 W	
Material	PC / UL94V2		

cd/klm

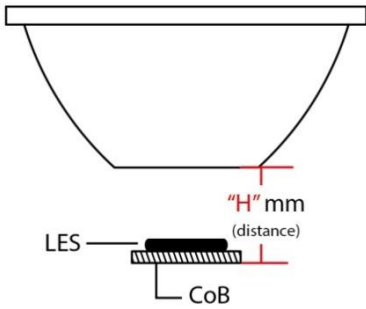


Illuminance At Distances

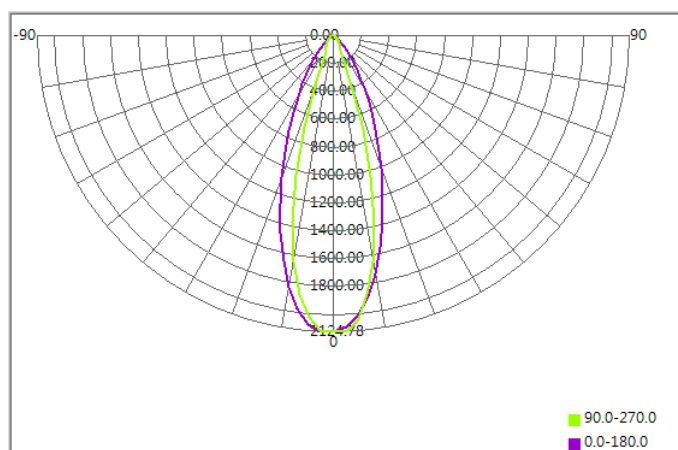




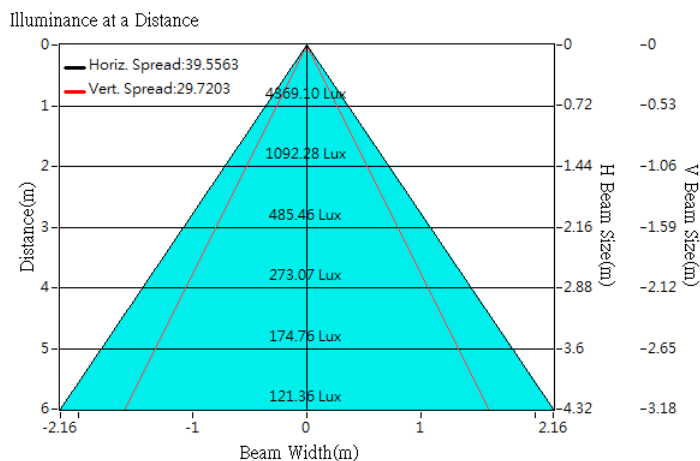
Optical Characteristics

Model Number	CKO-SA15-075033-4009		“H” definition 
LED	Fortimo SLM C 1205 L13 2024 G6_PI		
LES / LED Size	Φ 13 mm		
FWHM (D50)	30°x40°		
Field Angle (D10)	45°x79°		
H (distance)	3.5 mm		
Dimension	Φ =75 mm, Thickness= 33mm		
Luminous Flux	2056 lm	Measured @ 17.3 W	
Material	PC / UL94V2		

cd/klm

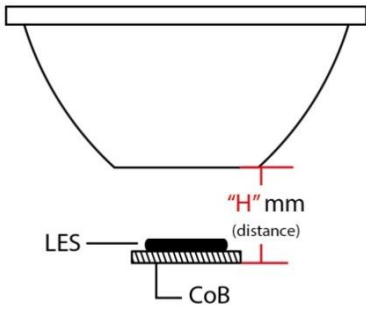


Illuminance At Distances

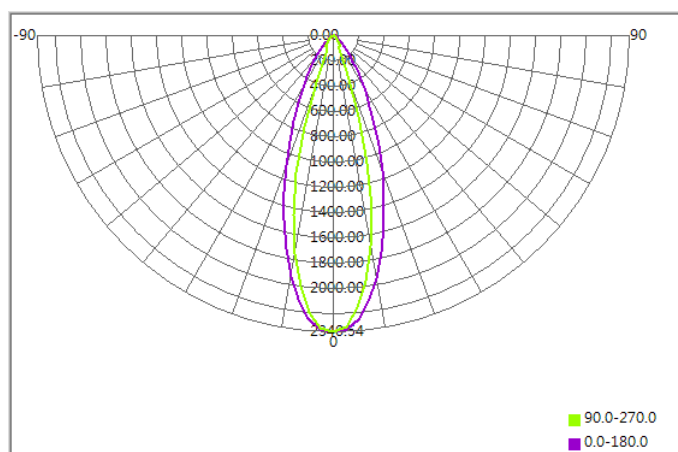




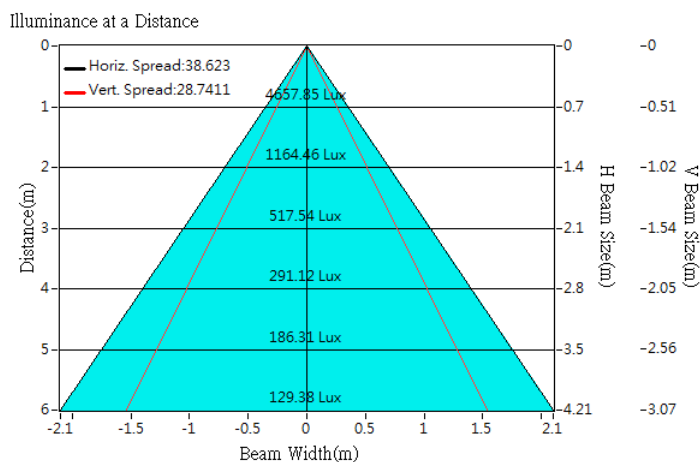
Optical Characteristics

Model Number	CKO-SA15-075033-4009		
LED	Fortimo SLM 1205 L15 G7N		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	29°x39°		
Field Angle (D10)	44°x77°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	1990 lm	Measured @ 15.3 W	
Material	PC / UL94V2		

cd/klm

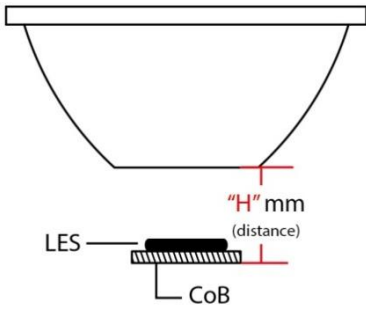


Illuminance At Distances

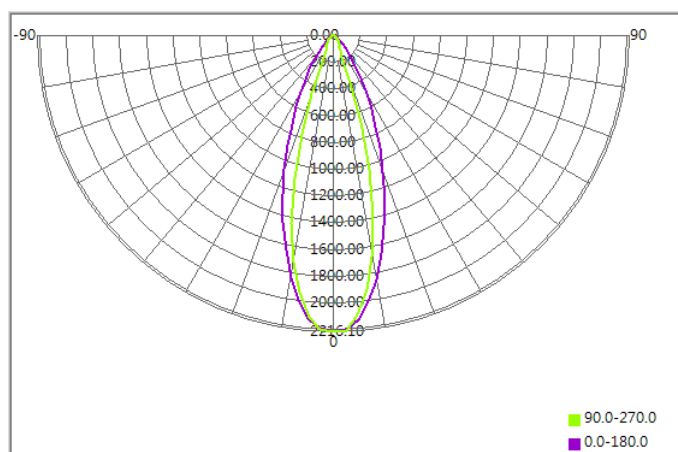




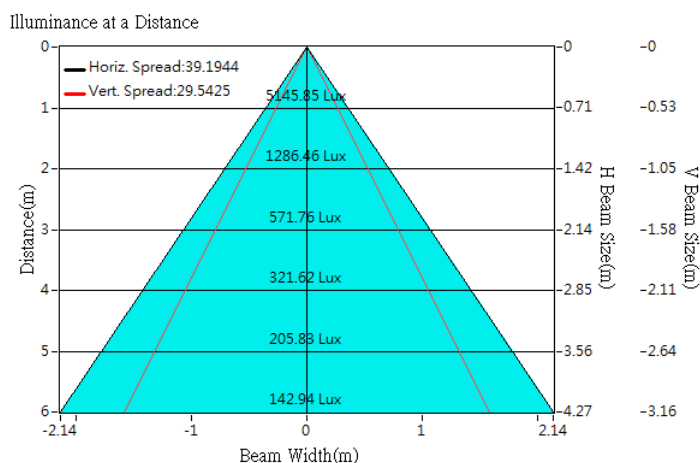
Optical Characteristics

Model Number	CKO-SA15-075033-4009		“H” definition 
LED	Fortimo SLM 1206 L15 G7N		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	30°x39°		
Field Angle (D10)	44°x78°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	2322 lm	Measured @19.3W	
Material	PC / UL94V2		

cd/klm

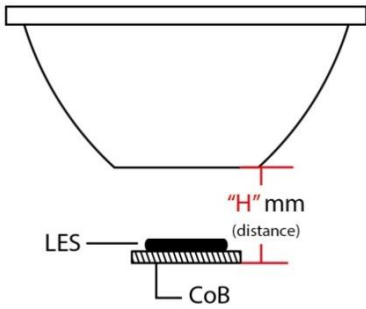


Illuminance At Distances

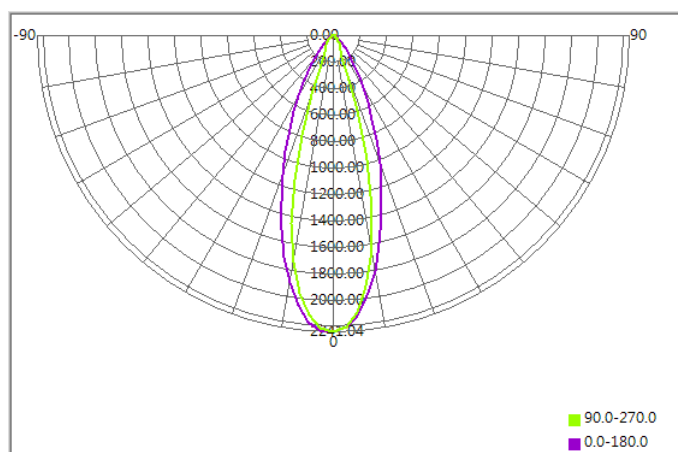




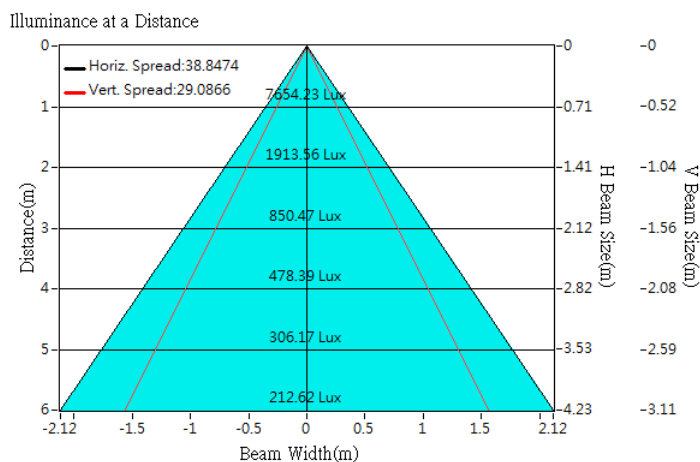
Optical Characteristics

Model Number	CKO-SA15-075033-4009		
LED	Fortimo SLM 1208 L15 G7N		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	30°x39°		
Field Angle (D10)	45°x78°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	3415 lm	Measured @ 24.7 W	
Material	PC / UL94V2		

cd/klm

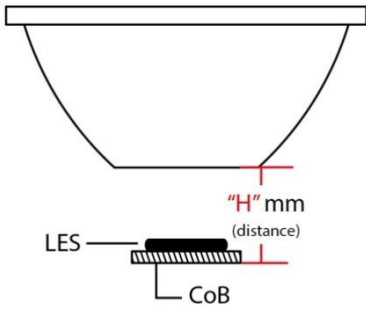


Illuminance At Distances

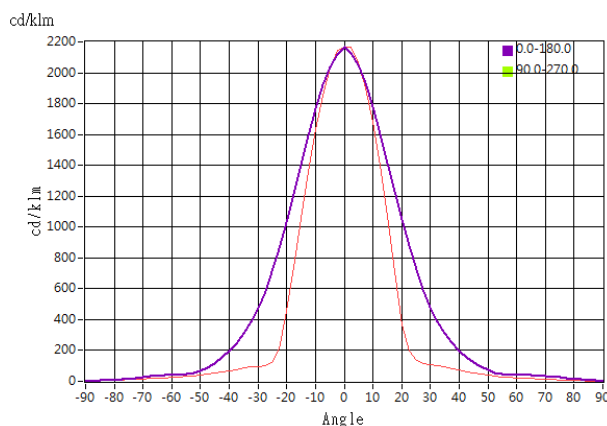




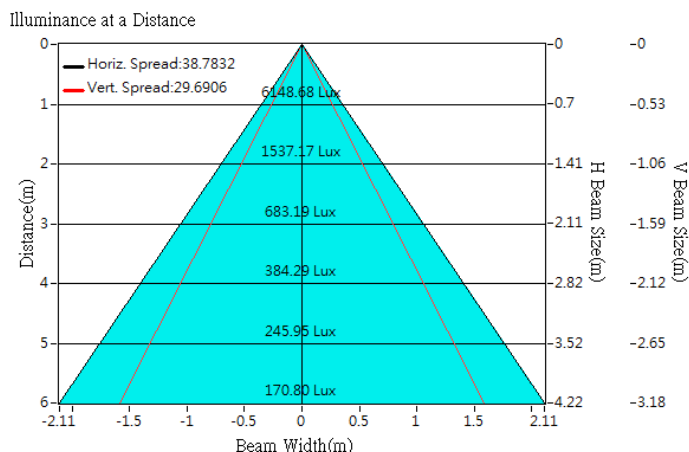
Optical Characteristics

Model Number	CKO-SA15-075033-4009		
LED	Fortimo SLM 1208 L15 G7		
LES / LED Size	Φ 15 mm		
FWHM (D50)	30°x39°		
Field Angle (D10)	45°x78°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2839 lm	Measured @ 25.8 W	
Material	PC / UL94V2		

cd/klm

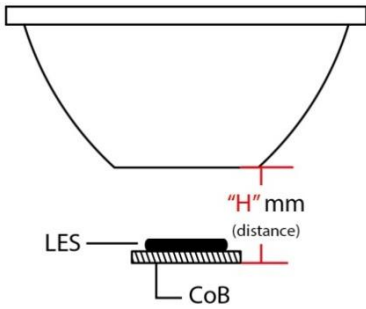


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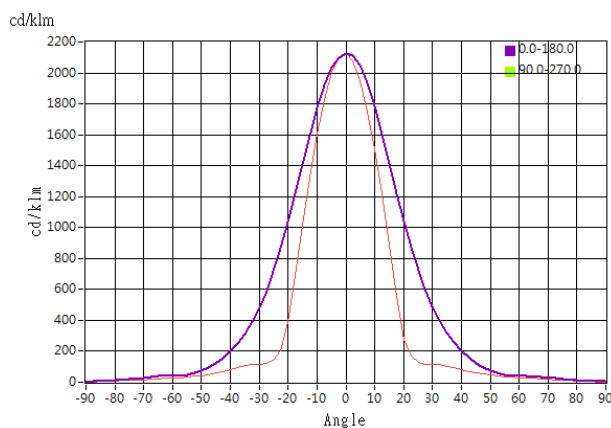




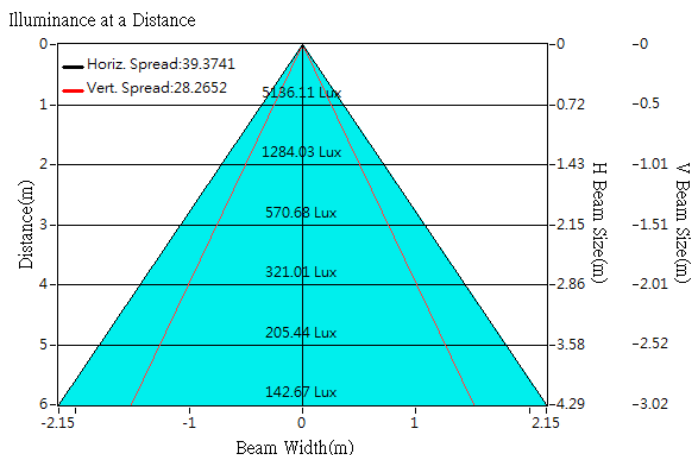
Optical Characteristics

Model Number	CKO-SA15-075033-4009		“H” definition 
LED	Fortimo SLM 1208 L15 G6		
LES / LED Size	Φ 15 mm		
FWHM (D50)	28°x39°		
Field Angle (D10)	44°x79°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2416 lm	Measured @ 26.8 W	
Material	PC / UL94V2		

cd/klm

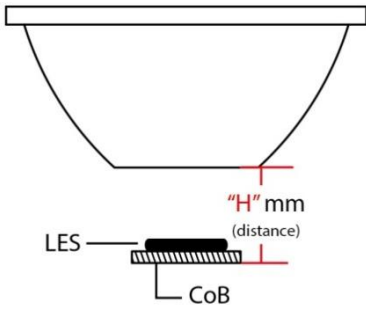


Illuminance At Distances

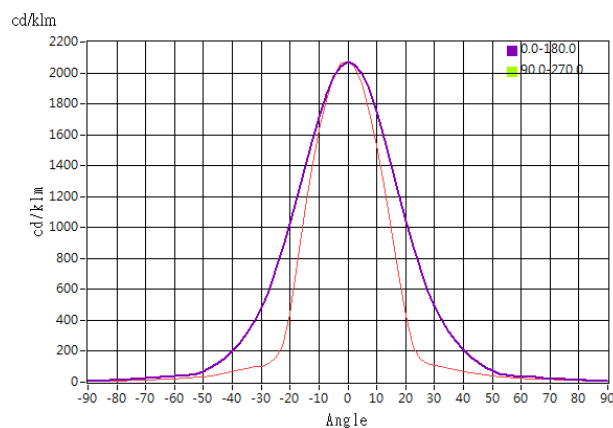




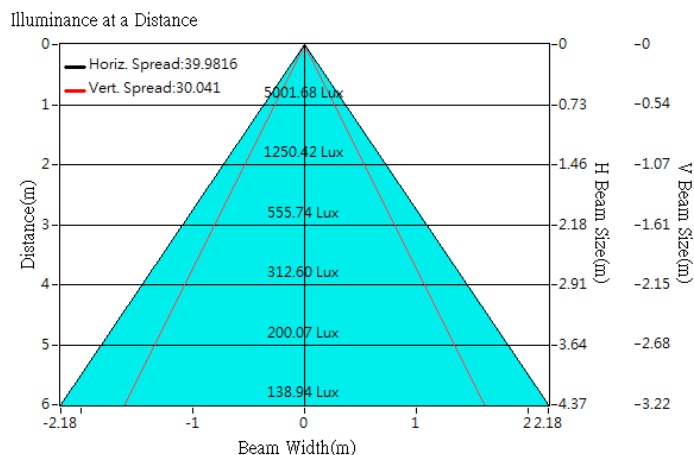
Optical Characteristics

Model Number		CKO-SA15-075033-4009	"H" definition
LED	Fortimo SLM C 1208 L15 2024 G6_DL		
LES / LED Size	Φ 15 mm		
FWHM (D50)	30°x40°		
Field Angle (D10)	46°x80°		
H (distance)	3.5 mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2417 lm	Measured @ 26.9 W	
Material	PC / UL94V2		

cd/klm

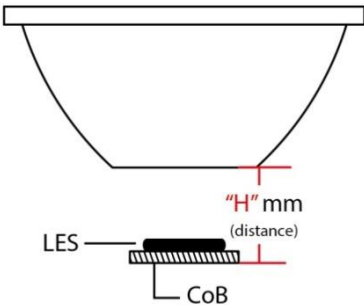


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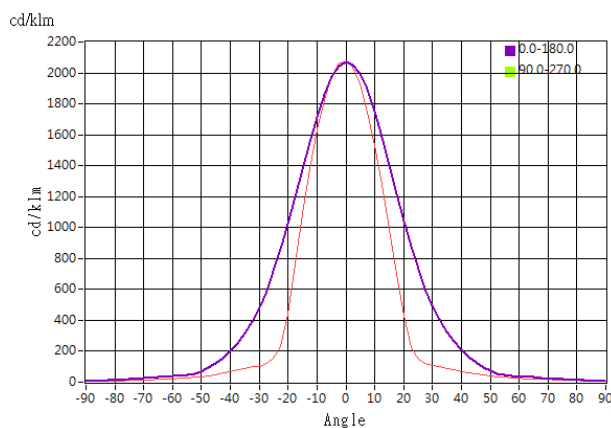




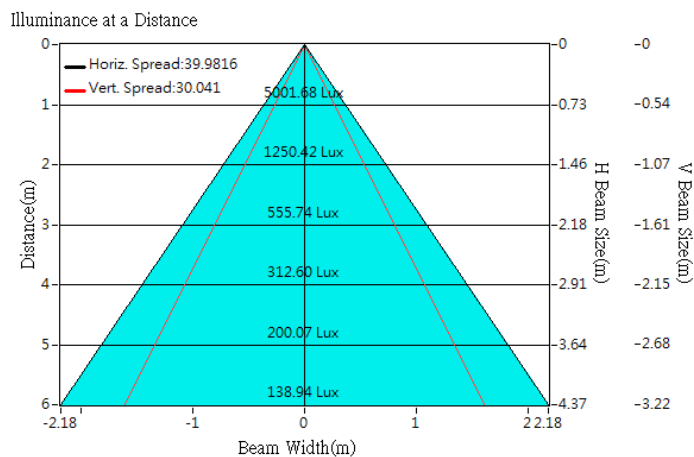
Optical Characteristics

Model Number		CKO-SA15-075033-4009	"H" definition
LED	Fortimo SLM C 1208 L15 2024 G6_PI		
LES / LED Size	Φ 15 mm		
FWHM (D50)	30°x40°		
Field Angle (D10)	46°x80°		
H (distance)	3.5 mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2417 lm	Measured @ 26.9 W	
Material	PC / UL94V2		

cd/klm

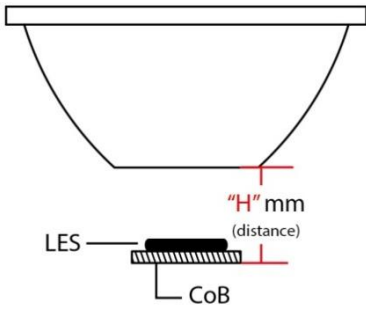


Illuminance At Distances

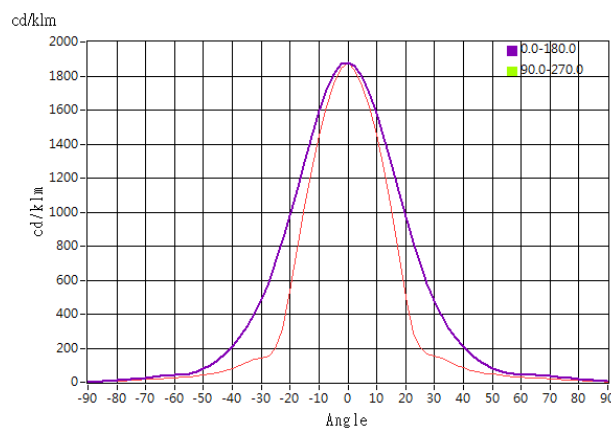




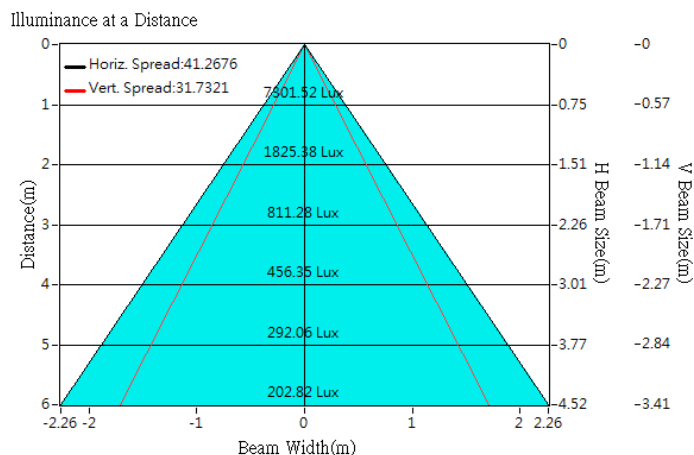
Optical Characteristics

Model Number	CKO-SA15-075033-4009		“H” definition 
LED	Fortimo SLM 1211 L19 G6		
LES / LED Size	Φ 19 mm		
FWHM (D50)	32°x41°		
Field Angle (D10)	52°x82°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	3894 lm	Measured @ 36 W	
Material	PC / UL94V2		

cd/klm

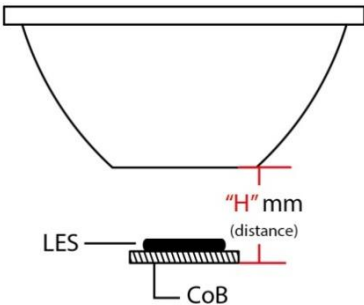


Illuminance At Distances

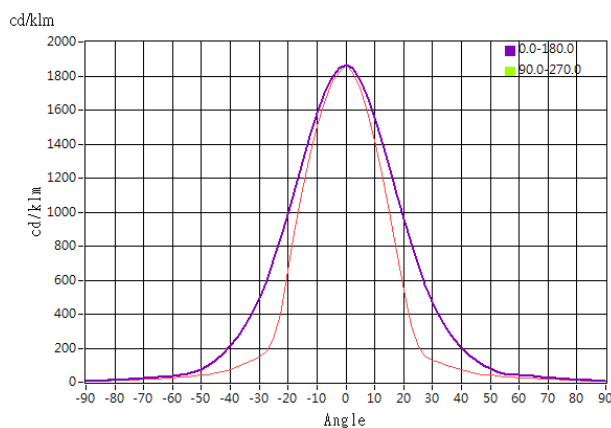




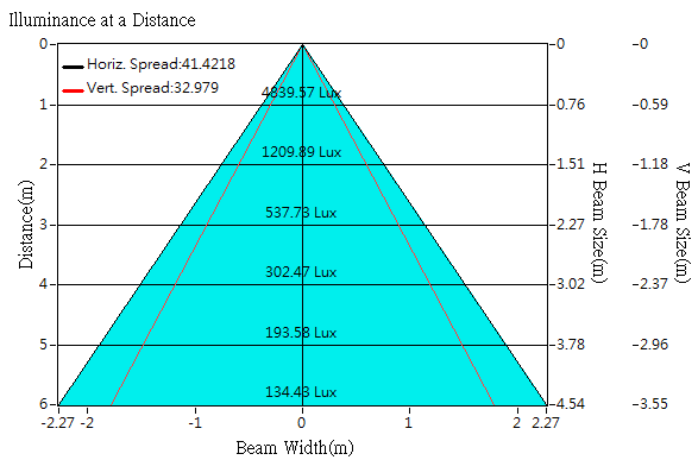
Optical Characteristics

Model Number		CKO-SA15-075033-4009	"H" definition
LED	Fortimo SLM C 1211 L19 2828 G6_DL		
LES / LED Size	Φ 19 mm		
FWHM (D50)	33°x41°		
Field Angle (D10)	53°x83°		
H (distance)	3.5 mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2596 lm	Measured @ 35.6 W	
Material	PC / UL94V2		

cd/klm

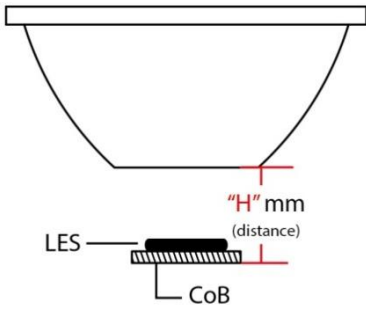


Illuminance At Distances

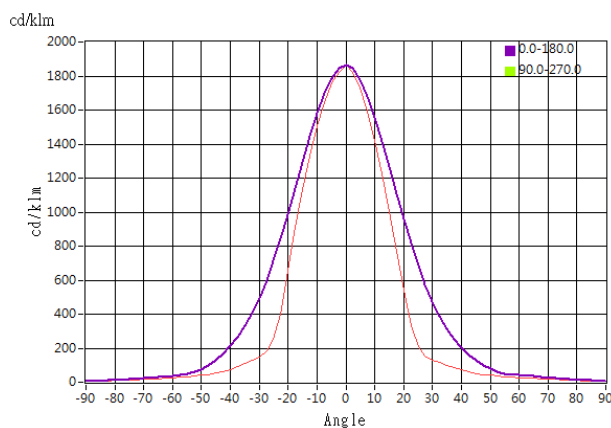




Optical Characteristics

Model Number	CKO-SA15-075033-4009		“H” definition  The diagram illustrates the 'H' definition, which is the distance from the LED chip to the lens surface. It shows a cross-section of the LED package with a lens (LES) and a chip on board (CoB). The distance 'H' is indicated by a red line and labeled '“H” mm (distance)'.
LED	Fortimo SLM C 1211 L19 2828 G6_PI		
LES / LED Size	Φ 19 mm		
FWHM (D50)	33°x41°		
Field Angle (D10)	53°x83°		
H (distance)	3.5 mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2596 lm	Measured @ 35.6 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

