



Product Model Number

CKO-CS15-075033-4003

✓ Model Number Definitions

CKO-XXXX-XXXXXX-XXXX

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(A)

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(B)

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(C)

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(D)

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(E)

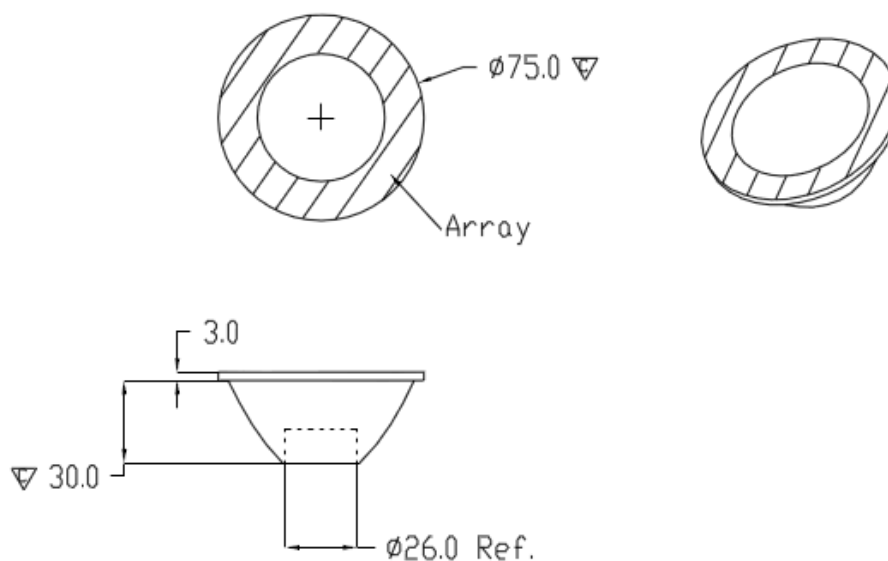


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation
Ex:
CH→CoB High Intensity
CC→CoB Compact
CS→Soft Shading for CoB LED
HC→Holder for CoB LED

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

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

✓ Dimensions (mm) : Φ75 x 33



▽:Critical Dimension

Chun Kuang Optics Corp.

2021/11/26

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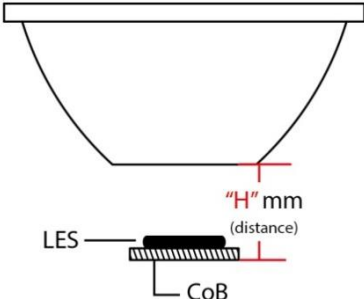


✓ Optical Characteristics – Angle Performances

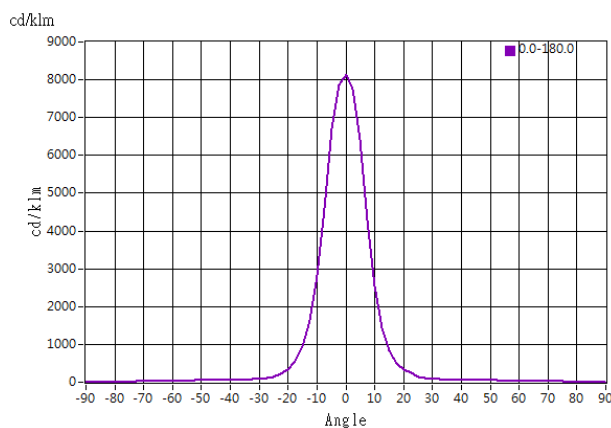
CREE	LED LES (mm)	FWHM (degrees)	Field Angle (degrees)
CXB1520	Φ9	16°	31°
CMT1407	Φ9.8	16°	31°
CMT1412	Φ9.8	16°	32°
CXA1816	Φ12	19°	36°
CXB1816	Φ12	20°	37°
CXA1820	Φ12	19°	37°
CXB1820	Φ12	20°	37°
CMA1825	Φ12	20°	37°
CXA1830	Φ14	22°	39°
CXB1830	Φ14	23°	41°
CMA1840	Φ14	24°	41°
CMT1922	Φ14.5	23°	41°
CMT1925	Φ14.5	23°	42°
CMT1930	Φ14.5	23°	41°
CMT1945	Φ14.5	22°	41°
CXA2520	Φ19	27°	48°
CXA2530	Φ19	26°	47°
CXB2530	Φ19	27°	49°
CXA2540	Φ19	27°	48°
CXB2540	Φ19	29°	50°
CMA2550	Φ19	29°	51°



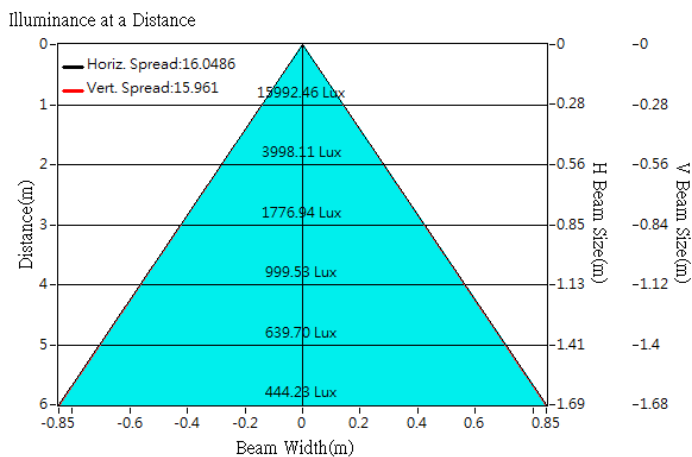
Optical Characteristics

Model Number	CKO-CS15-075033-4003		"H" definition
LED	CXB 1520		
LES / LED Size	Φ 9 mm		
FWHM (D50)	16°		
Field Angle (D10)	31°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	1964 lm	Measured @ 16.6 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

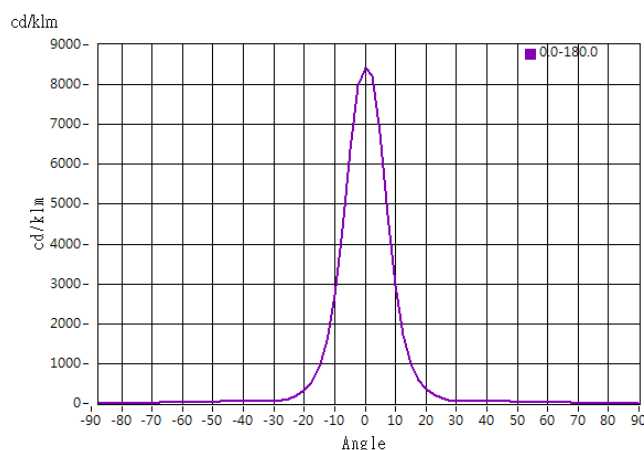




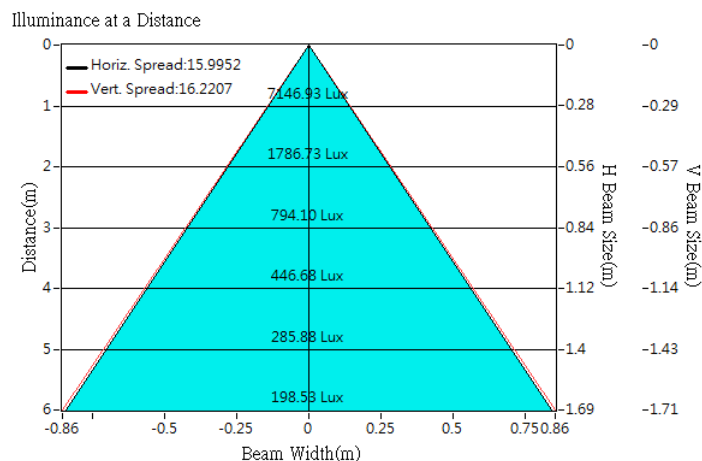
Optical Characteristics

Model Number		CKO-CS15-075033-4003	"H" definition
LED	CMT1407		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	16°		
Field Angle (D10)	31°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	847 lm	Measured @ 7 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

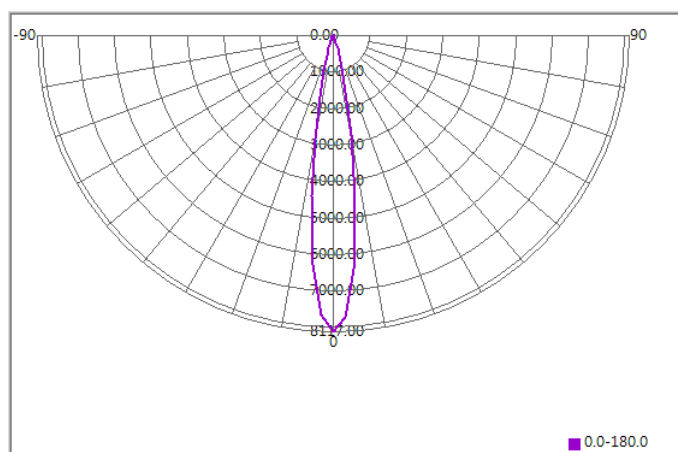




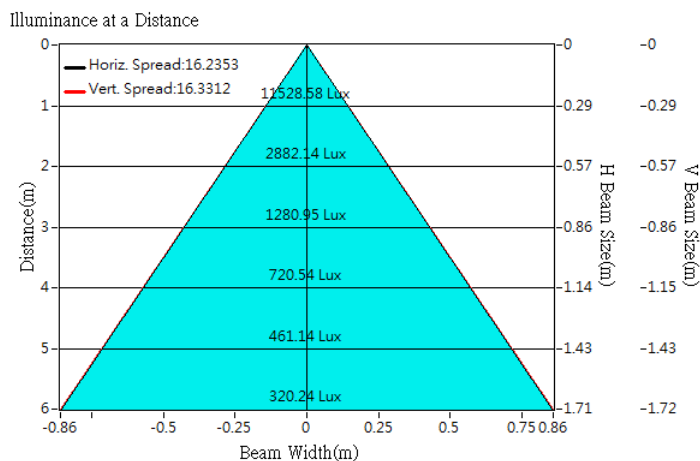
Optical Characteristics

Model Number	CKO-CS15-075033-4003		
LED	CMT1412		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	16°		
Field Angle (D10)	32°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	1420 lm	Measured @ 12.2 w	
Material	PC / UL94V2		

cd/klm

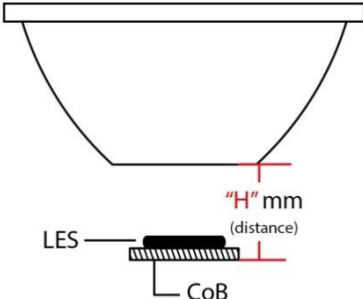


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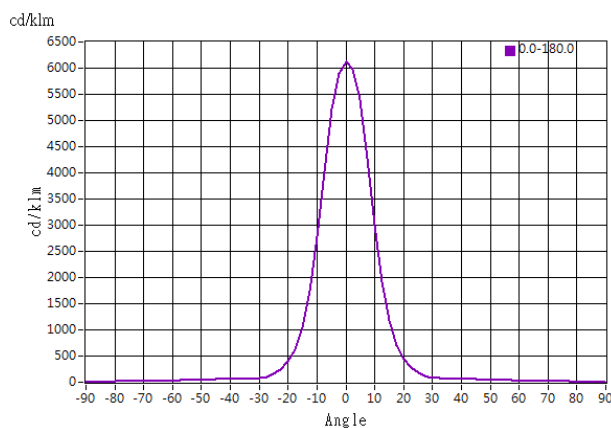




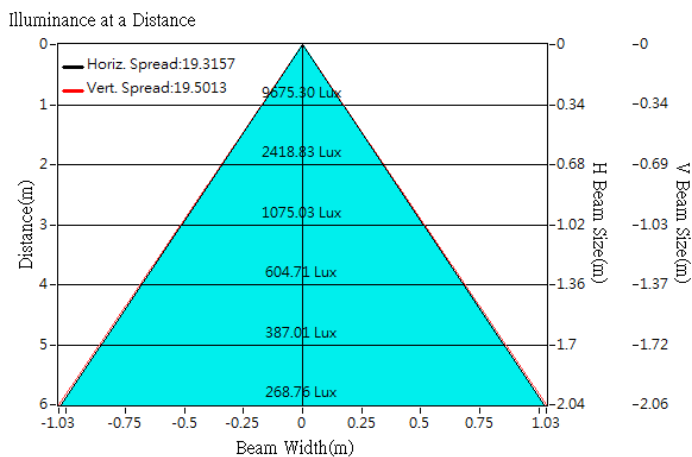
Optical Characteristics

Model Number	CKO-CS15-075033-4003		"H" definition
LED	CXA 1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	19°		
Field Angle (D10)	36°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	1580 lm	Measured @ 16.7 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

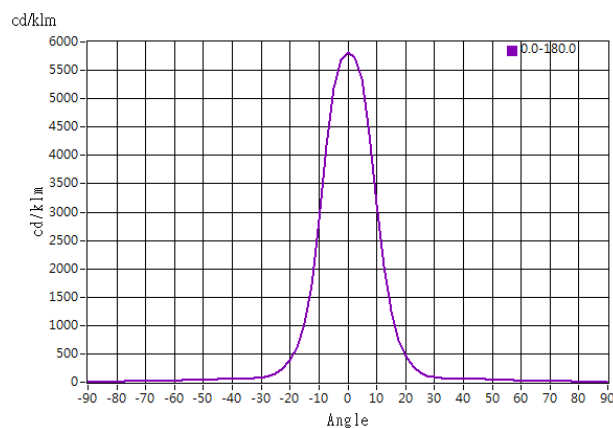




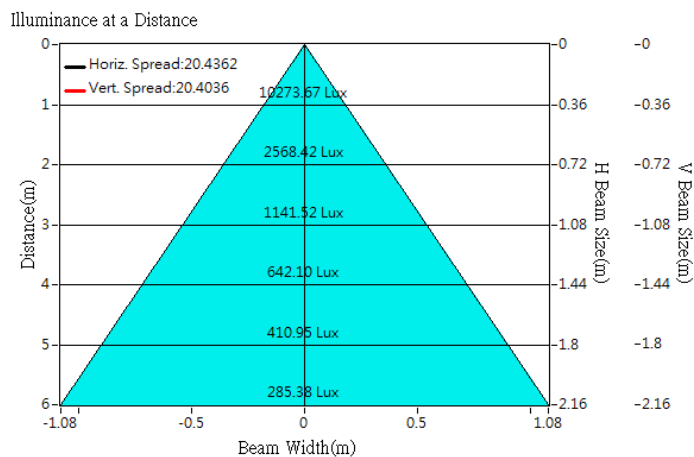
Optical Characteristics

Model Number		CKO-CS15-075033-4003	"H" definition
LED	CXB 1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	20°		
Field Angle (D10)	37°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	1766 lm	Measured @ 15.6 W	
Material	PC / UL94V2		

cd/klm

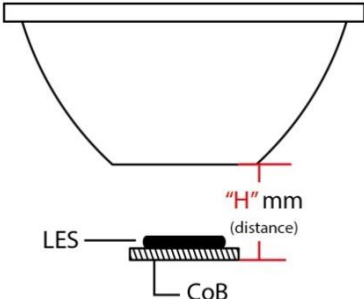


Illuminance At Distances

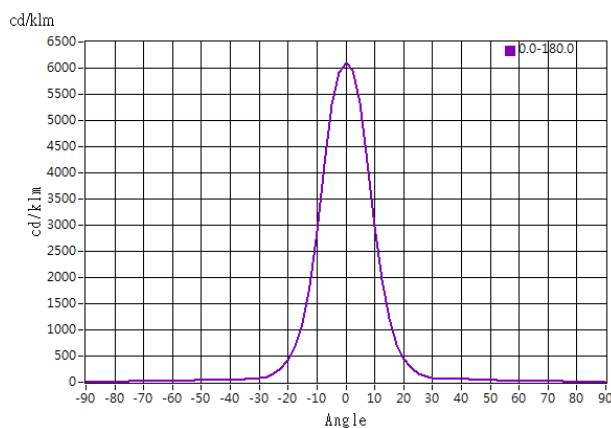




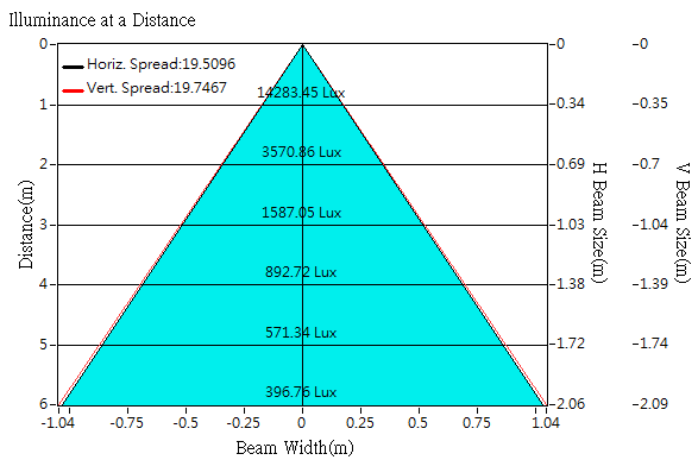
Optical Characteristics

Model Number	CKO-CS15-075033-4003		"H" definition
LED	CXA 1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	19°		
Field Angle (D10)	37°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	2339 lm	Measured @ 30.7 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

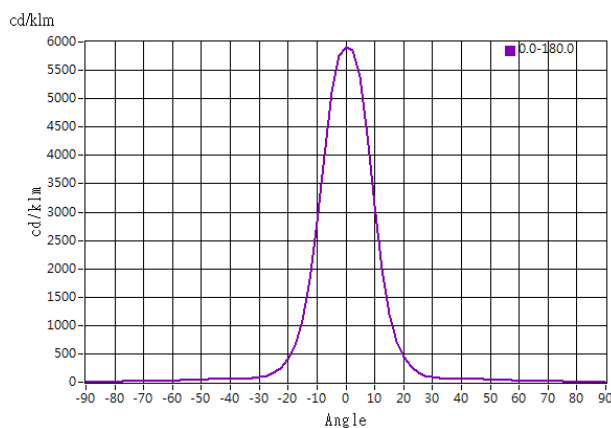




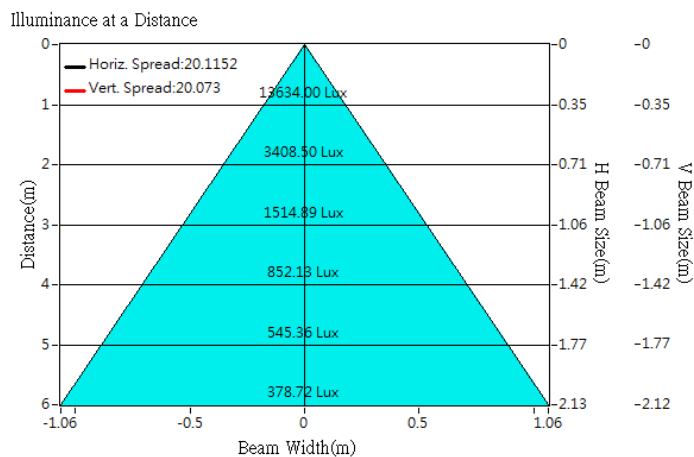
Optical Characteristics

Model Number	CKO-CS15-075033-4003		
LED	CXB 1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	20°		
Field Angle (D10)	37°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	2309 lm	Measured @ 19.5 W	
Material	PC / UL94V2		

cd/klm

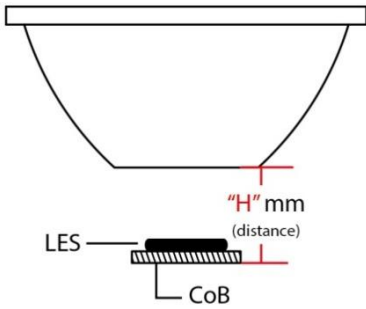


Illuminance At Distances

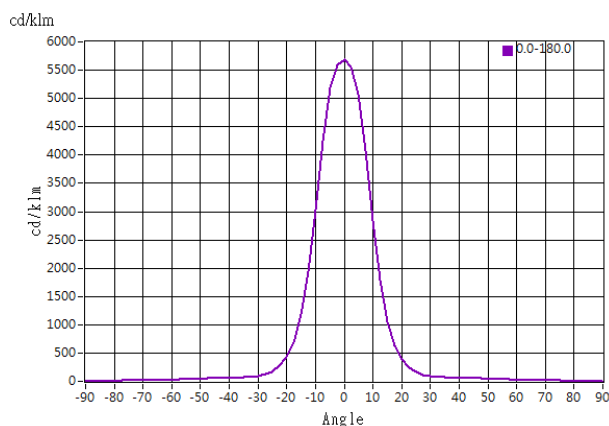




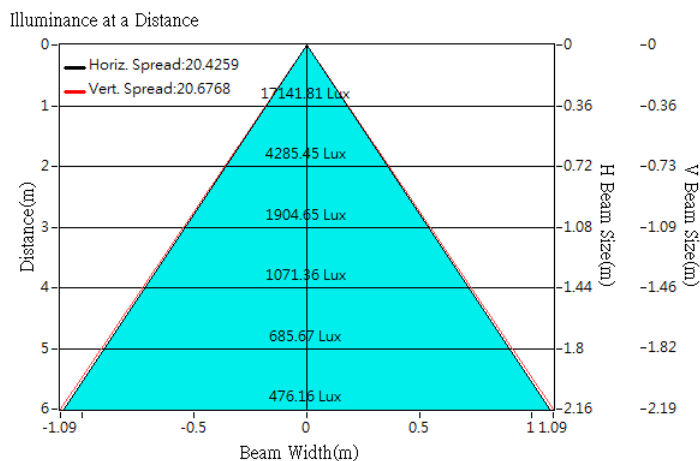
Optical Characteristics

Model Number	CKO-CS15-075033-4003		"H" definition 
LED	CMA 1825		
LES / LED Size	Φ 12 mm		
FWHM (D50)	20°		
Field Angle (D10)	37°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	3019 lm	Measured @ 24.5 W	
Material	PC / UL94V2		

cd/klm

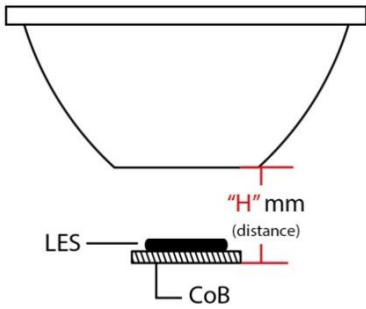


Illuminance At Distances

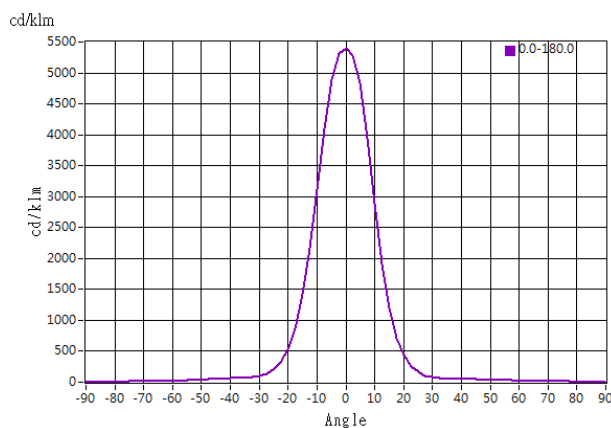




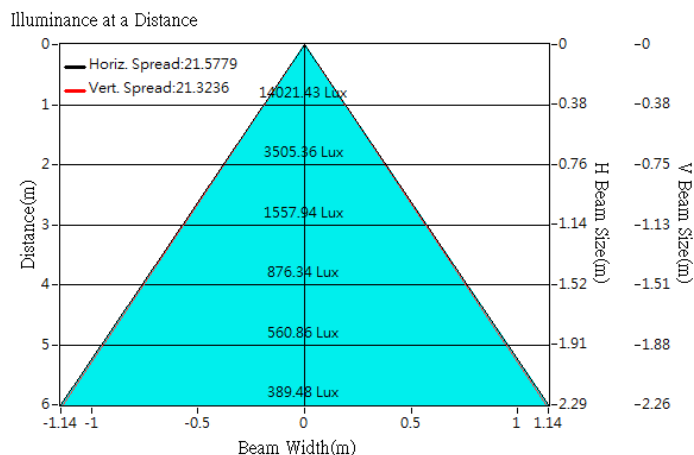
Optical Characteristics

Model Number	CKO-CS15-075033-4003		"H" definition
LED	CXA 1830		
LES / LED Size	Φ 14 mm		
FWHM (D50)	22°		
Field Angle (D10)	39°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	2594 lm	Measured @ 28.7 W	
Material	PC / UL94V2		

cd/klm

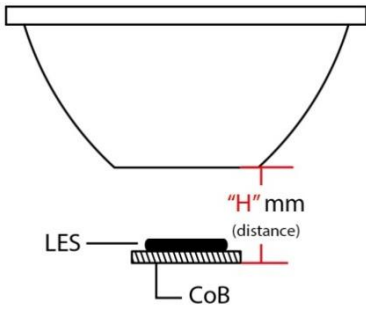


Illuminance At Distances

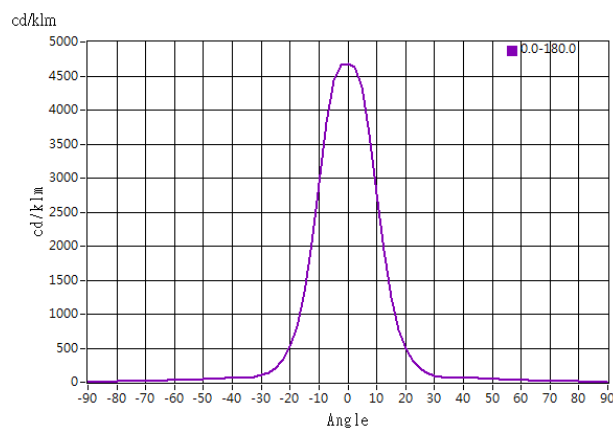




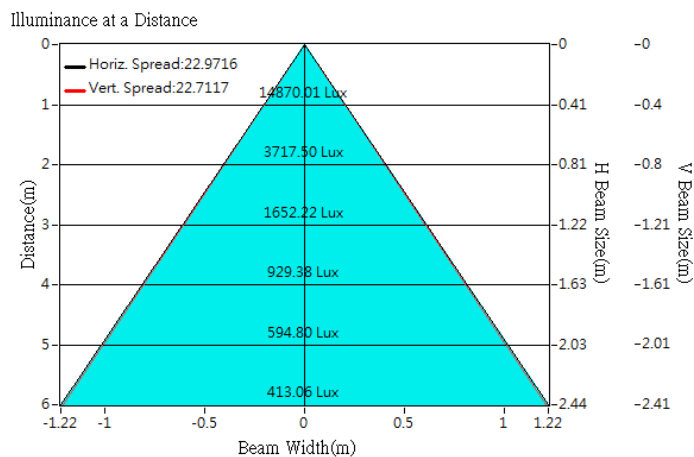
Optical Characteristics

Model Number		CKO-CS15-075033-4003	"H" definition
LED	CXB 1830		
LES / LED Size	Φ 14 mm		
FWHM (D50)	23°		
Field Angle (D10)	41°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	3180 lm	Measured @ 28.3 W	
Material	PC / UL94V2		

cd/klm

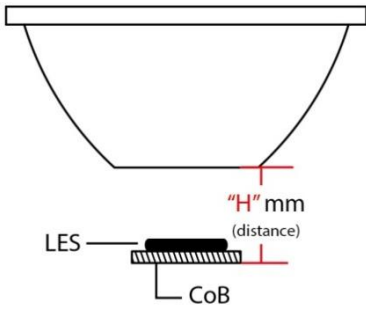


Illuminance At Distances

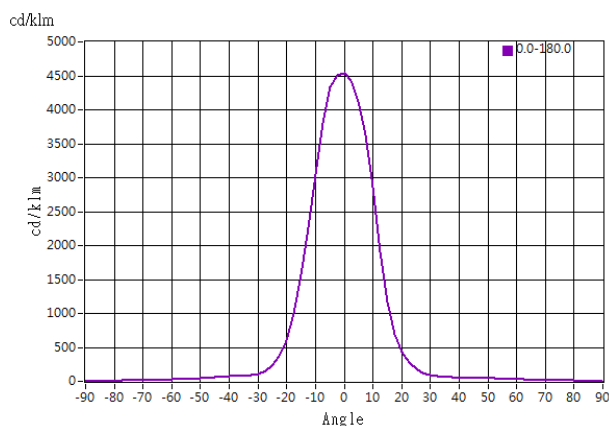




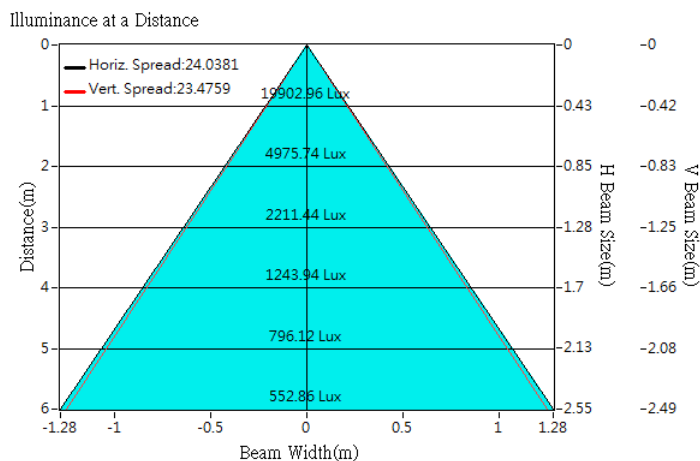
Optical Characteristics

Model Number		CKO-CS15-075033-4003	"H" definition
LED	CMA 1840		
LES / LED Size	Φ 14 mm		
FWHM (D50)	24°		
Field Angle (D10)	41°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	4387 lm	Measured @ 40.6 W	
Material	PC / UL94V2		

cd/klm

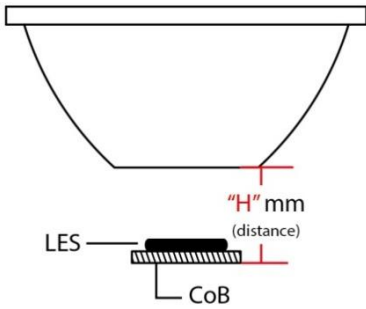


Illuminance At Distances

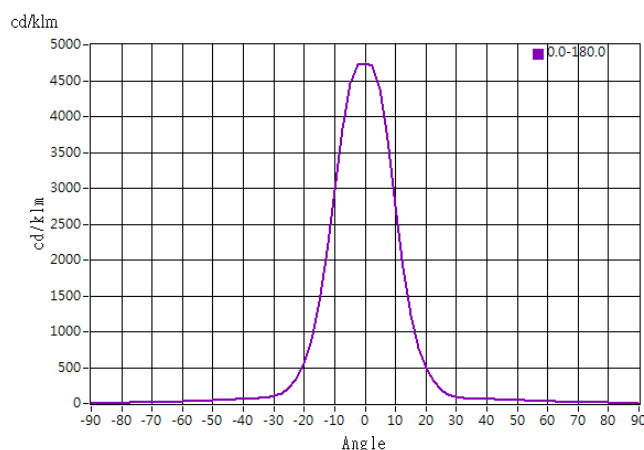




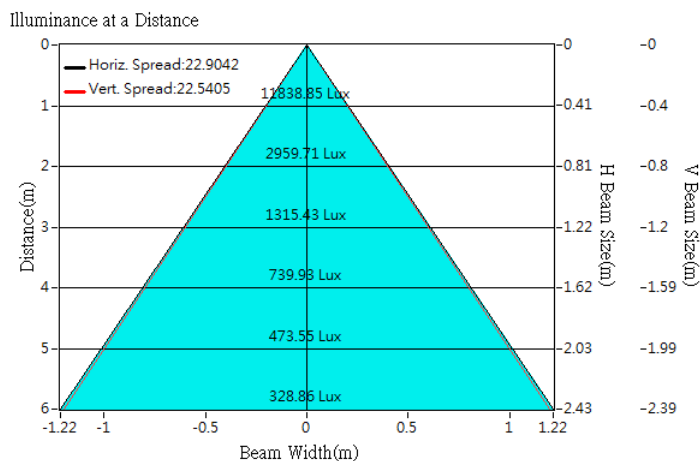
Optical Characteristics

Model Number	CKO-CS15-075033-4003		"H" definition 
LED	CMT1922		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	23°		
Field Angle (D10)	41°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	2499 lm	Measured @ 22 W	
Material	PC / UL94V2		

cd/klm

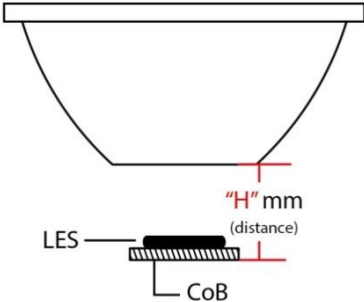


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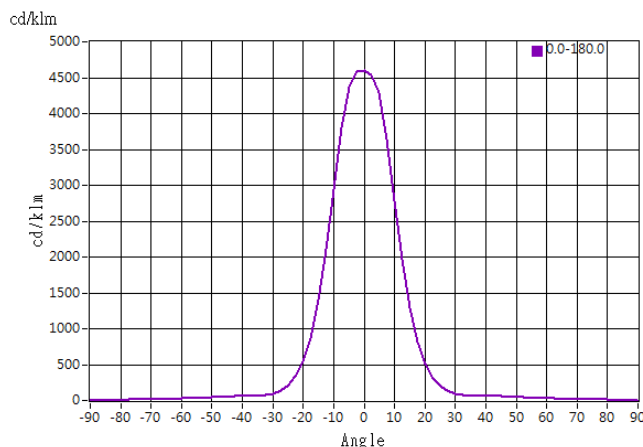




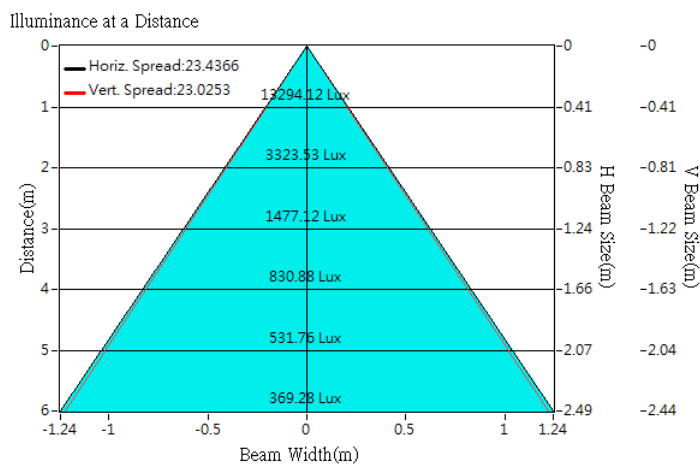
Optical Characteristics

Model Number	CKO-CS15-075033-4003		 The diagram illustrates the 'H' definition, which is the distance from the LED surface to the center of the beam (CoB). It shows a cross-section of the LED package with a semi-circular beam. The distance 'H' is marked with a red line and text, indicating the distance from the LED surface to the CoB.
LED	CMT1925		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	23°		
Field Angle (D10)	42°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	2892 lm	Measured @ 25.2 W	
Material	PC / UL94V2		

cd/klm

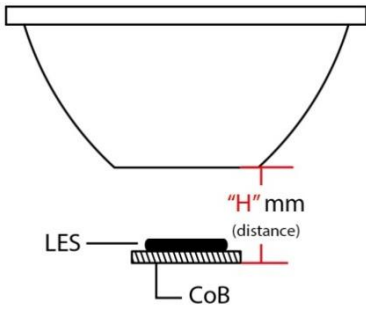


Illuminance At Distances

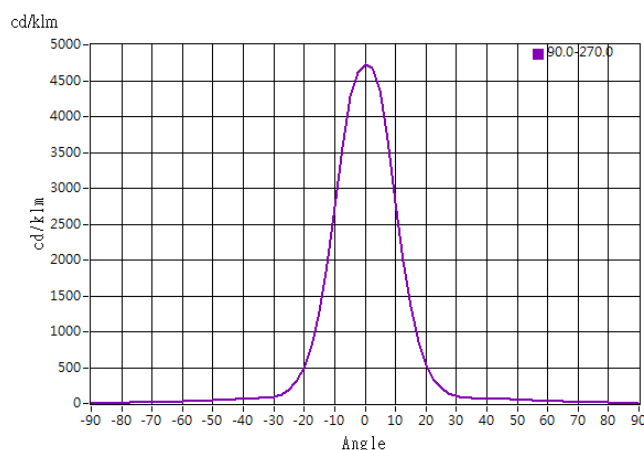




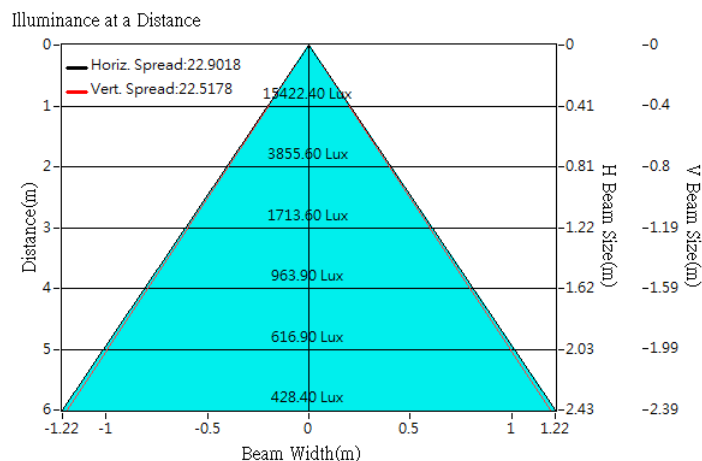
Optical Characteristics

Model Number	CKO-CS15-075033-4003		"H" definition 
LED	CMT1930		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	23°		
Field Angle (D10)	41°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	3268 lm	Measured @ 29.1 W	
Material	PC / UL94V2		

cd/klm

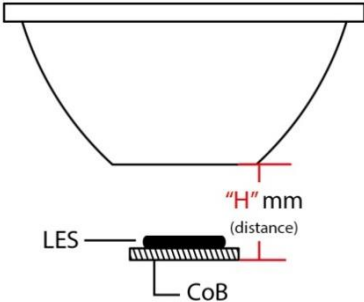


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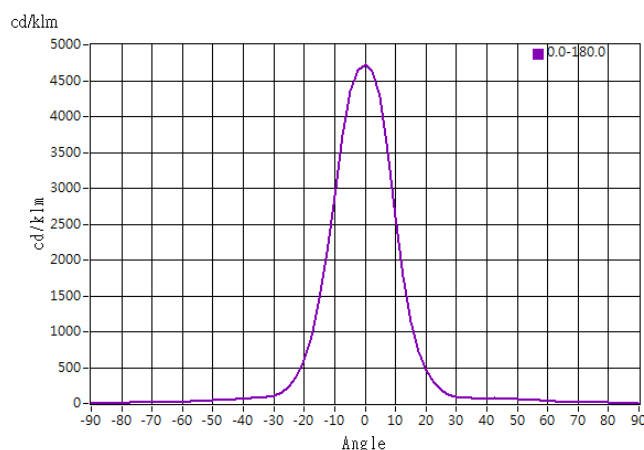




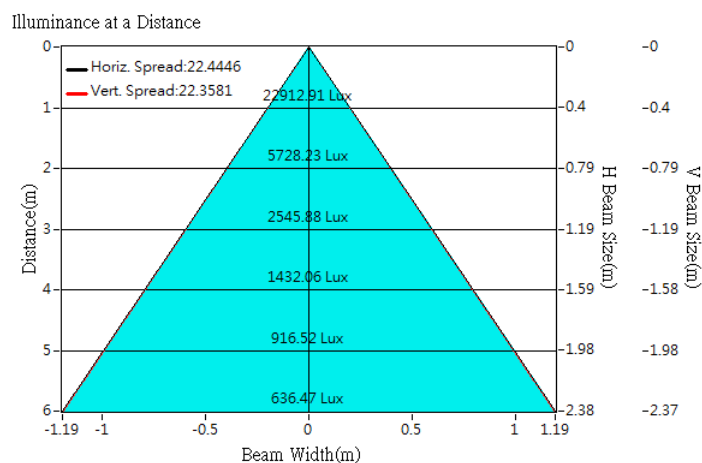
Optical Characteristics

Model Number	CKO-CS15-075033-4003		
LED	CMT1945		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	22°		
Field Angle (D10)	41°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	4853 lm	Measured @ 43.6 W	
Material	PC / UL94V2		

cd/klm

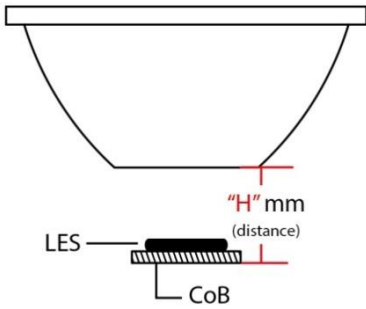


Illuminance At Distances

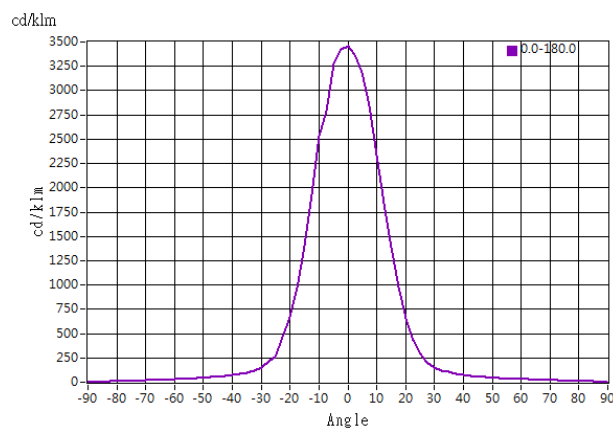




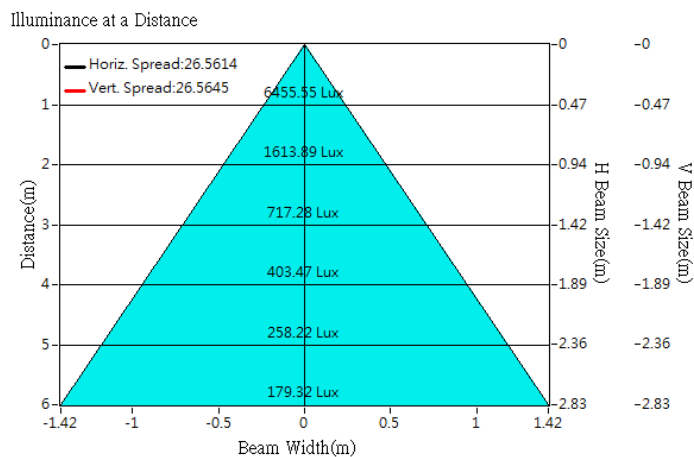
Optical Characteristics

Model Number		CKO-CS15-075033-4003	"H" definition
LED	CXA 2520		
LES / LED Size	Φ 19 mm		
FWHM (D50)	27°		
Field Angle (D10)	48°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	1869 lm	Measured @ 20.2 W	
Material	PC / UL94V2		

cd/klm

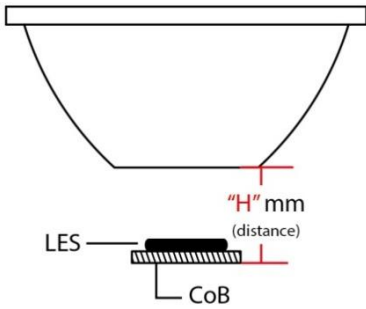


Illuminance At Distances

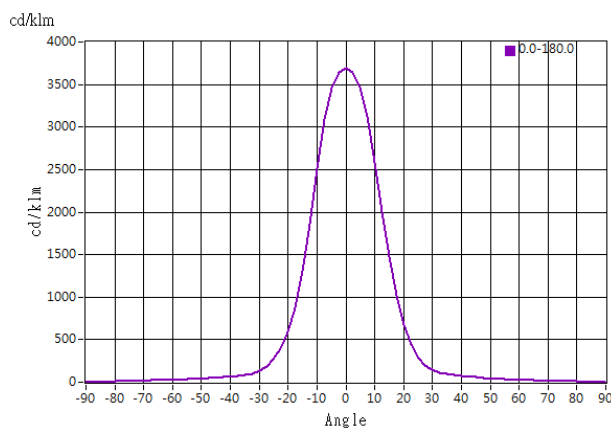




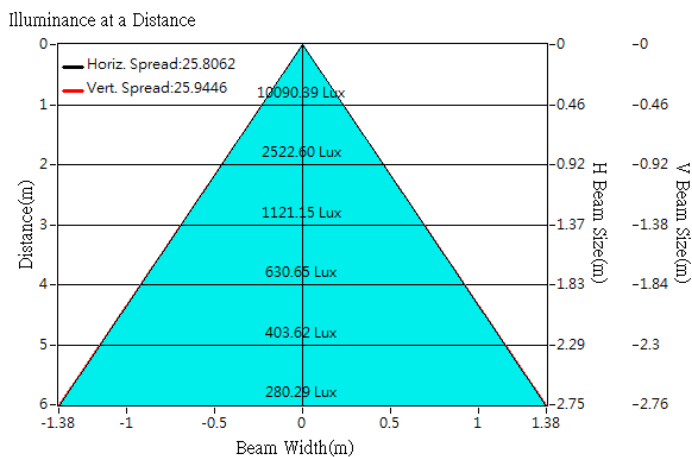
Optical Characteristics

Model Number	CKO-CS15-075033-4003		“H” definition 
LED	CXA 2530		
LES / LED Size	Φ 19 mm		
FWHM (D50)	26°		
Field Angle (D10)	47°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	2730 lm	Measured @ 29.7 W	
Material	PC / UL94V2		

cd/klm

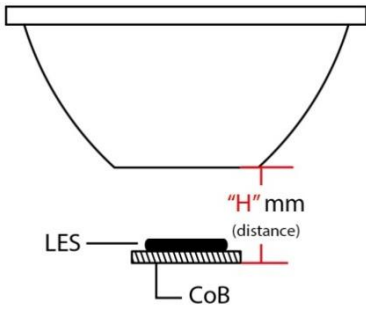


Illuminance At Distances

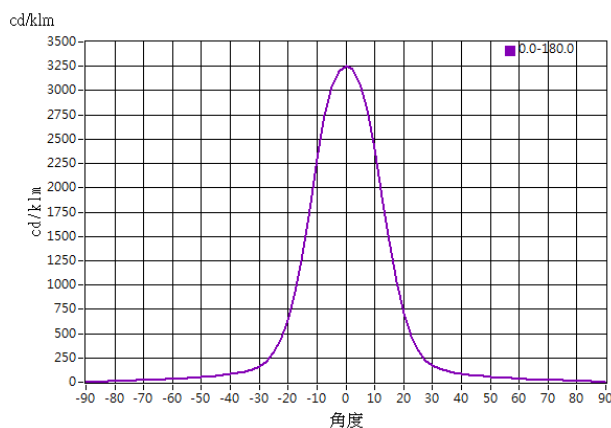




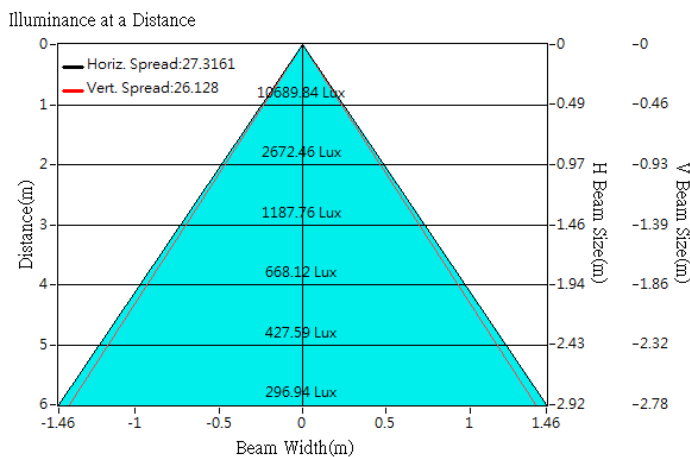
Optical Characteristics

Model Number	CKO-CS15-075033-4003		
LED	CXB 2530		
LES / LED Size	Φ 19 mm		
FWHM (D50)	27°		
Field Angle (D10)	49°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	3282 lm	Measured @ 27.9 W	
Material	PC / UL94V2		

cd/klm

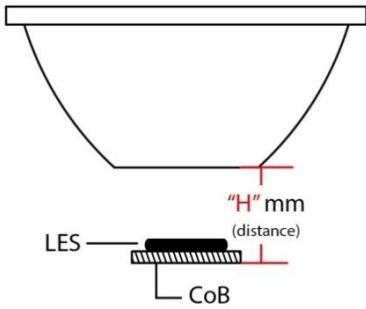


Illuminance At Distances

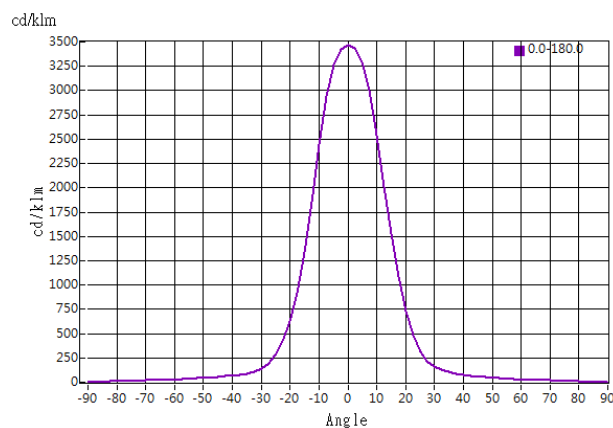




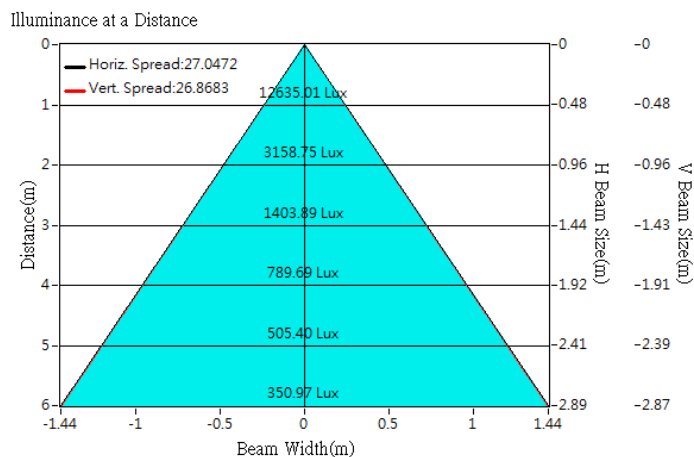
Optical Characteristics

Model Number		CKO-CS15-075033-4003	"H" definition
LED	CXA 2540		
LES / LED Size	Φ 19 mm		
FWHM (D50)	27°		
Field Angle (D10)	48°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	3649 lm	Measured @ 39.9 W	
Material	PC / UL94V2		

cd/klm

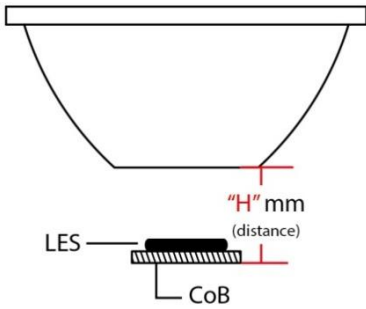


Illuminance At Distances

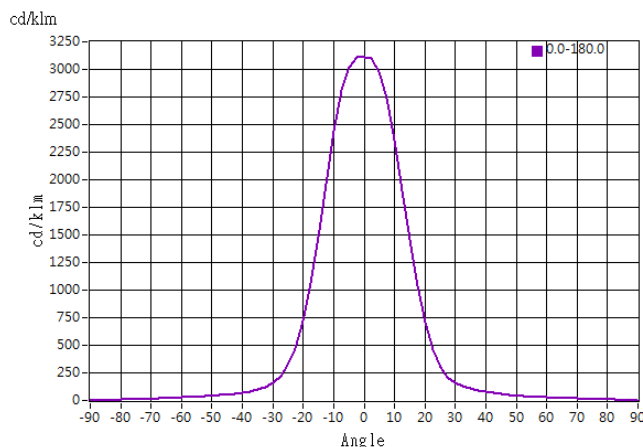




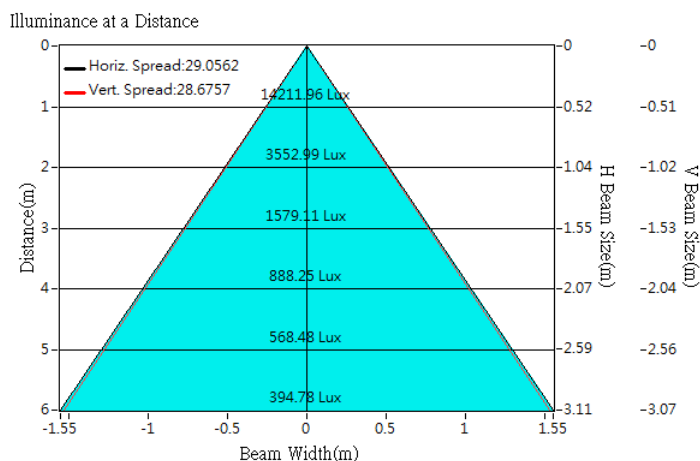
Optical Characteristics

Model Number	CKO-CS15-075033-4003		"H" definition
LED	CXB2540		
LES / LED Size	Φ 19 mm		
FWHM (D50)	29°		
Field Angle (D10)	50°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	4569 lm	Measured @ 38.6 W	
Material	PC / UL94V2		

cd/klm

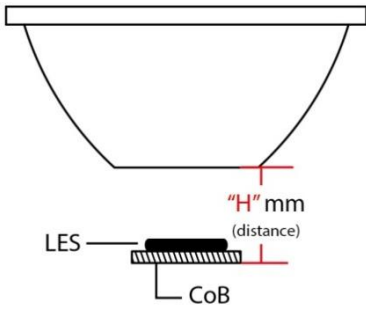


Illuminance At Distances

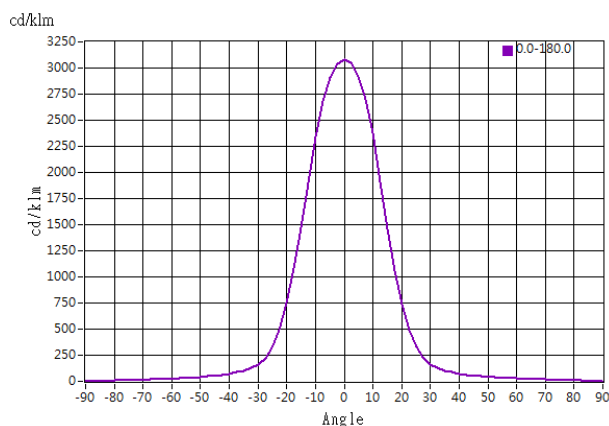




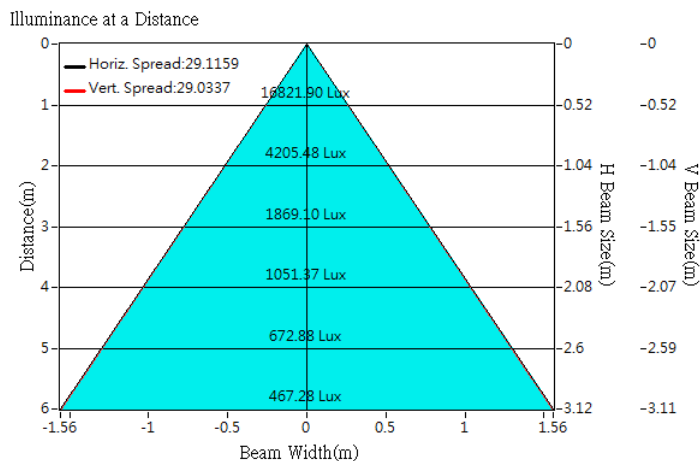
Optical Characteristics

Model Number	CKO-CS15-075033-4003		"H" definition 
LED	CMA 2550		
LES / LED Size	Φ 19 mm		
FWHM (D50)	29°		
Field Angle (D10)	51°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	5453 lm	Measured @ 42.5 W	
Material	PC / UL94V2		

cd/klm

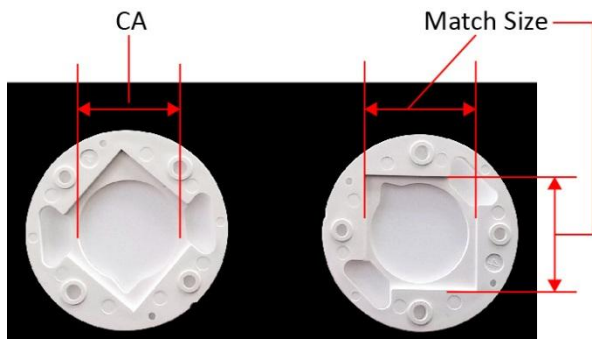


Illuminance At Distances





Lens Accessories - CoB Holder



Example of LES Area & LED Size
Dimension Locations

Product Model	Match Size (mm)	CA (mm)	Material	Applicability
CKO-HC13-131307-6411	13.6 x 13.6	Φ 7.8	PBT	CREE CXA 13XX
CKO-HC13-161610-6412	16.1 x 16.1	Φ 10.8	PBT	CREE CXA 15XX
CKO-HC13-181816-6413	18.1 x 18.1	Φ 16.4	PBT	CREE CXA 18XX
CKO-HC13-242421-6414	24.1 x 24.1	Φ 21.3	PBT	CREE CXA 25XX
CKO-HC13-272725-6415	27.6 x 27.6	Φ 25.3	PBT	CREE CXA 30XX