



Product Model Number

CKO-CS15-075033-4001

✓ Model Number Definitions

CKO-XXXX-XXXXXX-XXXX

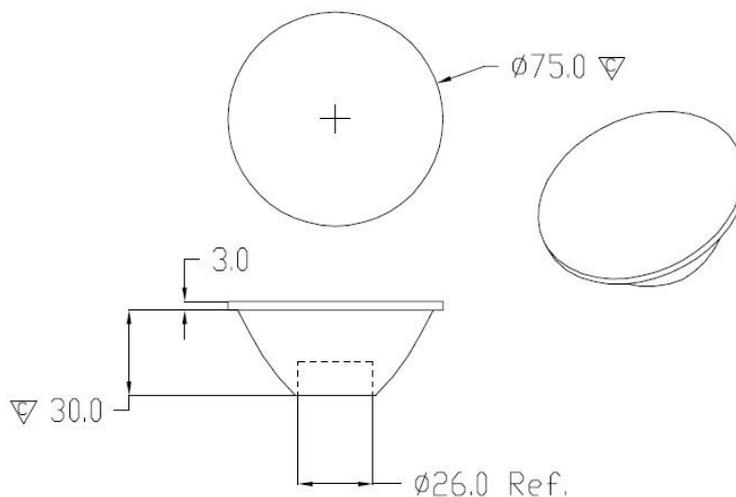


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation
Ex:
CH→CoB High Intensity
CC→CoB Compact
CS→Soft Shading for CoB LED
HC→Holder for CoB LED

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

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

✓ Dimensions (mm) : Φ75 x 33



∇ :Critical Dimension



✓ Optical Characteristics – Angle Performances

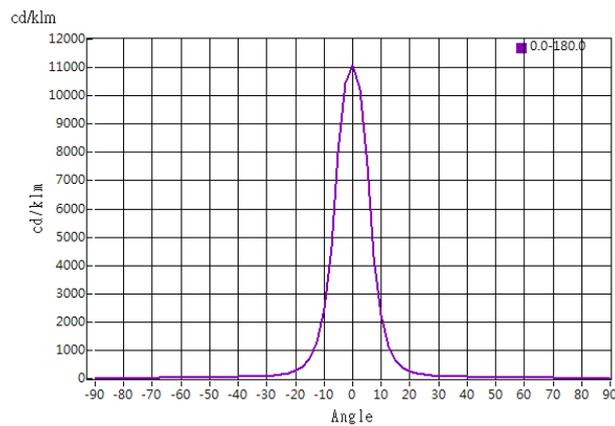
CREE	LED LES (mm)	FWHM (degrees)	Field Angle (degrees)
CXB1520	Φ9	13°	26°
CMT1407	Φ9.8	13°	25°
CMT1412	Φ9.8	14°	27°
CXA1816	Φ12	16°	32°
CXB1816	Φ12	17°	32°
CXA1820	Φ12	16°	30°
CXB1820	Φ12	16°	33°
CMA1825	Φ12	17°	32°
CXA1830	Φ14	18°	34°
CXB1830	Φ14	18°	37°
CMA1840	Φ14	20°	37°
CMT1922	Φ14.5	19°	36°
CMT1925	Φ14.5	19°	37°
CMT1930	Φ14.5	19°	35°
CMT1945	Φ14.5	19°	36°
CXA2520	Φ19	23°	45°
CXA2530	Φ19	23°	44°
CXB2530	Φ19	23°	46°
CXA2540	Φ19	24°	45°
CXB2540	Φ19	26°	47°
CMA2550	Φ19	26°	48°



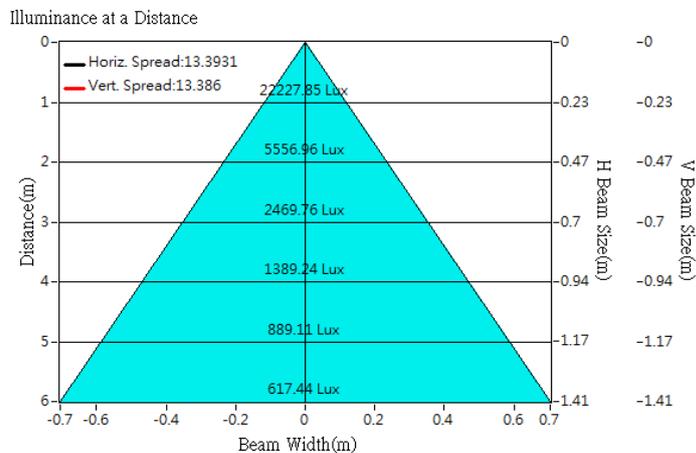
Optical Characteristics

Model Number	CKO-CS15-075033-4001		<p>"H" definition</p>
LED	CXB 1520		
LES / LED Size	Φ 9 mm		
FWHM (D50)	13°		
Field Angle (D10)	26°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	2009 lm	Measured @ 16.7 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

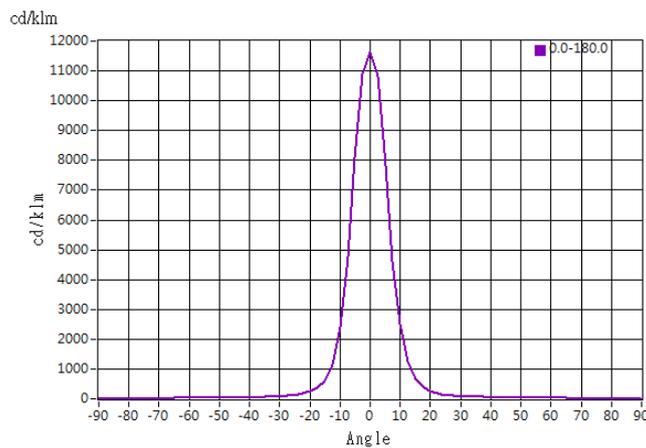




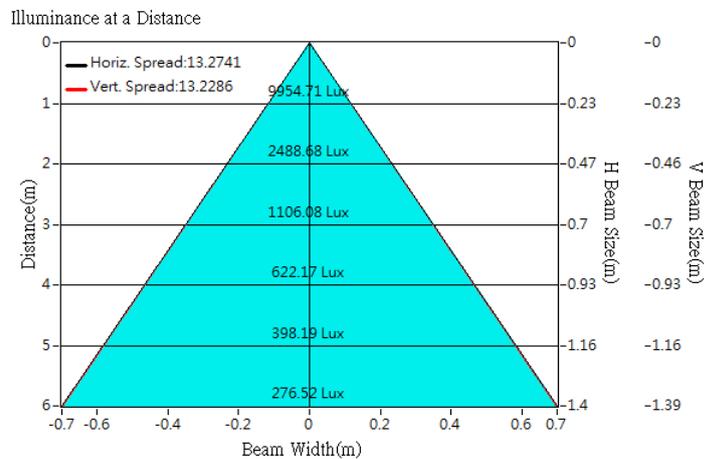
Optical Characteristics

Model Number	CKO-CS15-075033-4001		<p>"H" definition</p>
LED	CMT1407		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	13°		
Field Angle (D10)	25°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	856 lm	Measured @ 7 W	
Material	PC / UL94V2		

cd/klm

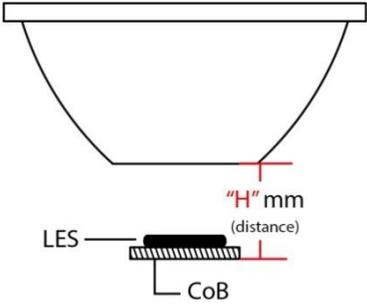


Illuminance At Distances

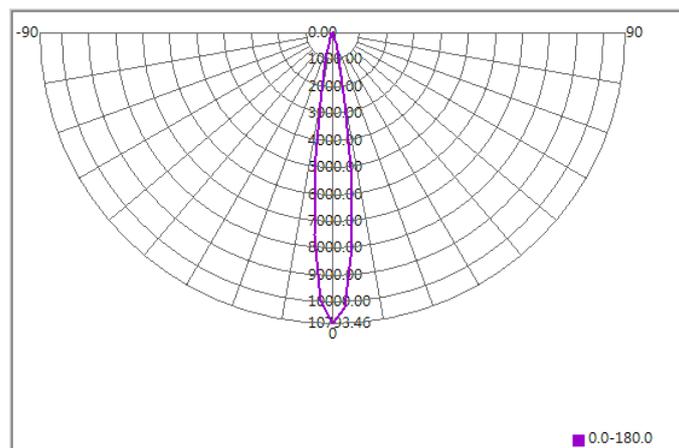




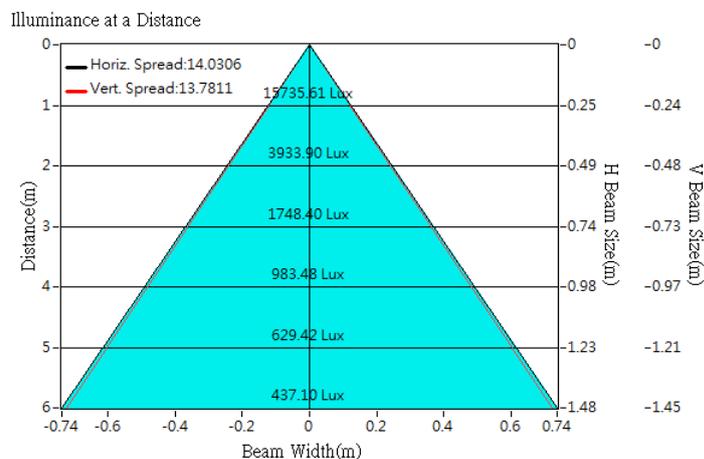
Optical Characteristics

Model Number	CKO-CS15-075033-4001		<p>"H" definition</p> 
LED	CMT1412		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	14°		
Field Angle (D10)	27°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	1457 lm	Measured @ 12.2 w	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

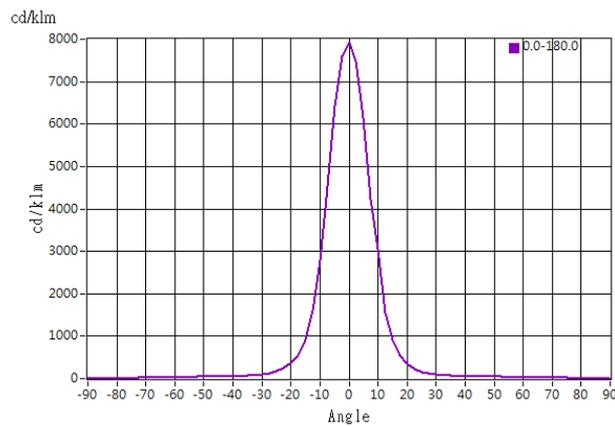




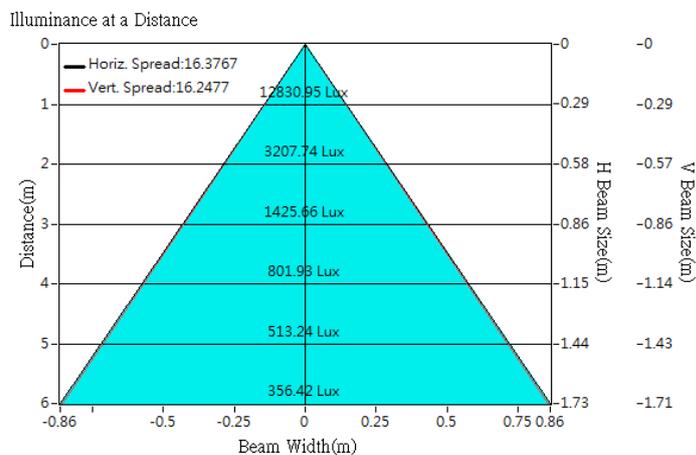
Optical Characteristics

Model Number	CKO-CS15-075033-4001		<p>"H" definition</p>
LED	CXA 1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	16°		
Field Angle (D10)	32°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	1620 lm	Measured @ 16.7 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

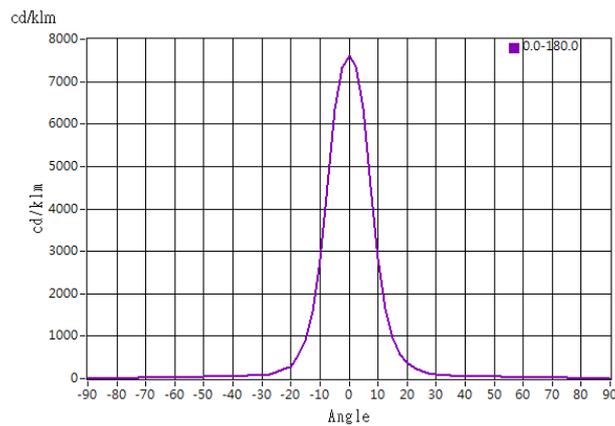




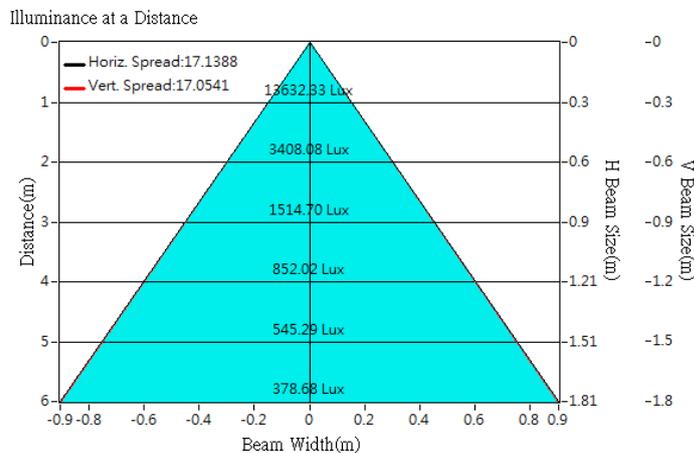
Optical Characteristics

Model Number	CKO-CS15-075033-4001		<p>"H" definition</p> <p>LES CoB</p>
LED	CXB 1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	17°		
Field Angle (D10)	32°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	1794 lm	Measured @ 15.7 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

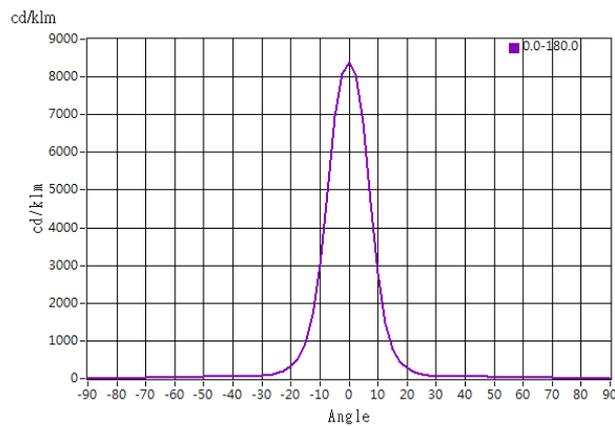




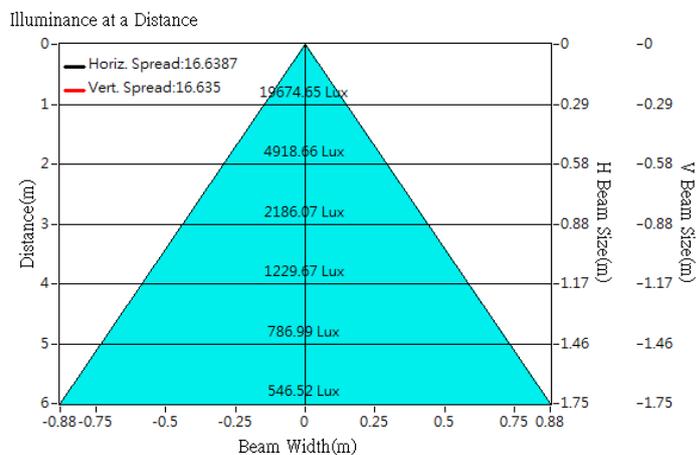
Optical Characteristics

Model Number	CKO-CS15-075033-4001		<p>"H" definition</p>
LED	CXA 1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	16°		
Field Angle (D10)	30°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	2348 lm	Measured @ 30.7 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

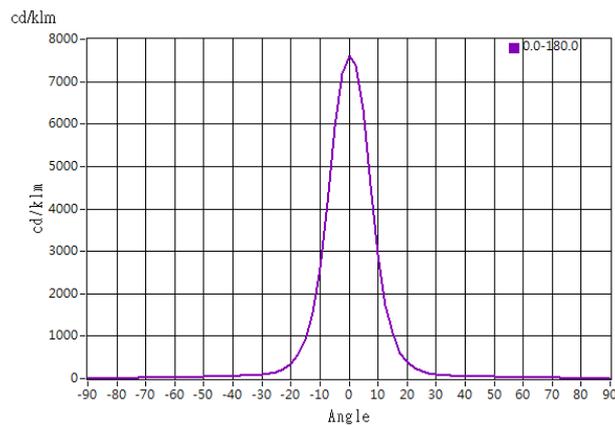




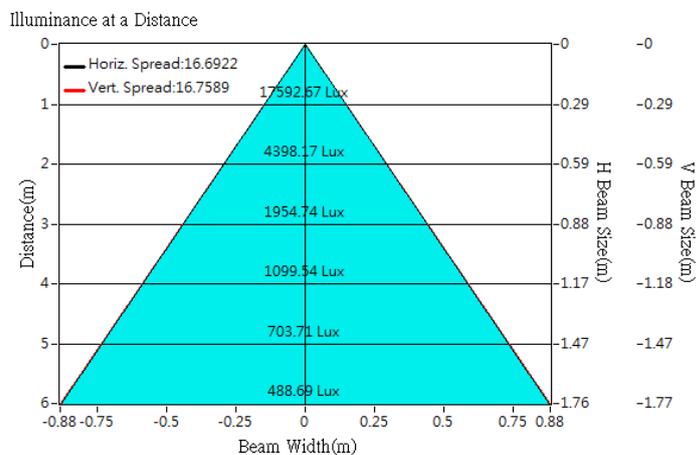
Optical Characteristics

Model Number	CKO-CS15-075033-4001		<p>"H" definition</p>
LED	CXB 1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	16°		
Field Angle (D10)	33°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	2311 lm	Measured @ 19.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

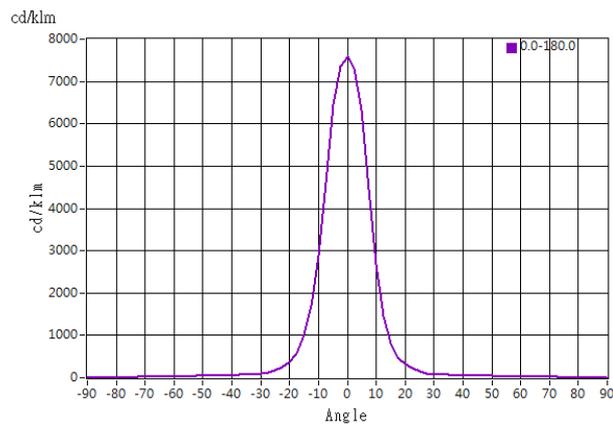




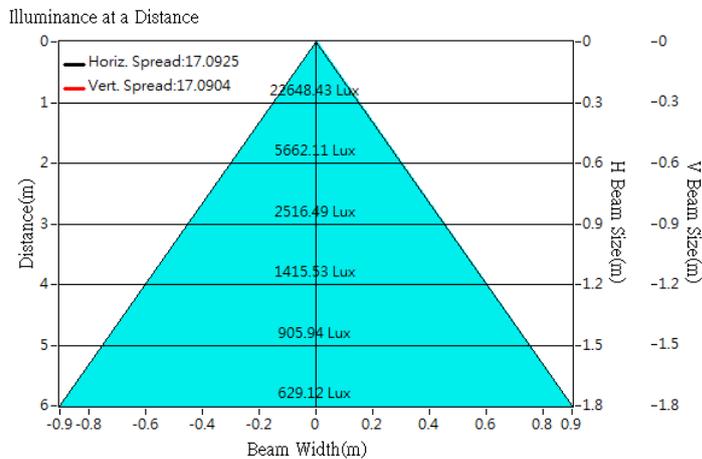
Optical Characteristics

Model Number	CKO-CS15-075033-4001		<p>"H" definition</p>
LED	CMA 1825		
LES / LED Size	Φ 12 mm		
FWHM (D50)	17°		
Field Angle (D10)	32°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	2984 lm	Measured @ 24.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

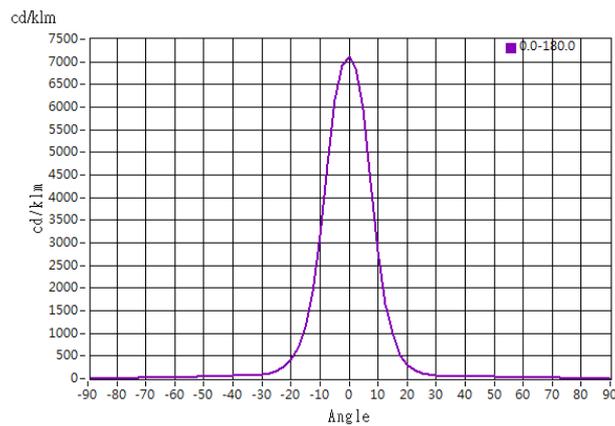




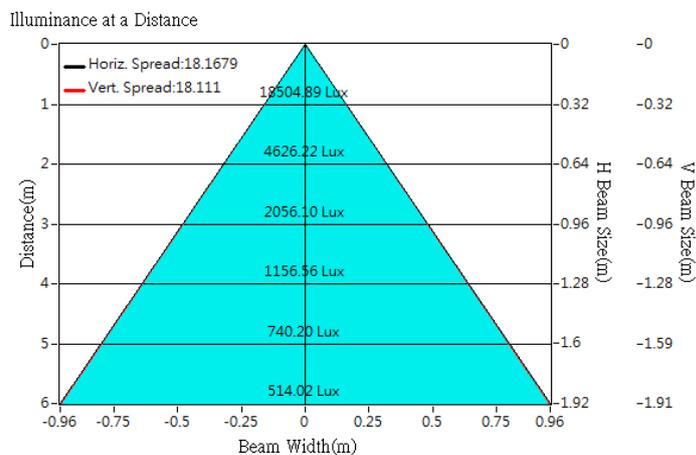
Optical Characteristics

Model Number	CKO-CS15-075033-4001		<p>"H" definition</p>
LED	CXA 1830		
LES / LED Size	Φ 14 mm		
FWHM (D50)	18°		
Field Angle (D10)	34°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	2604 lm	Measured @ 28.6 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

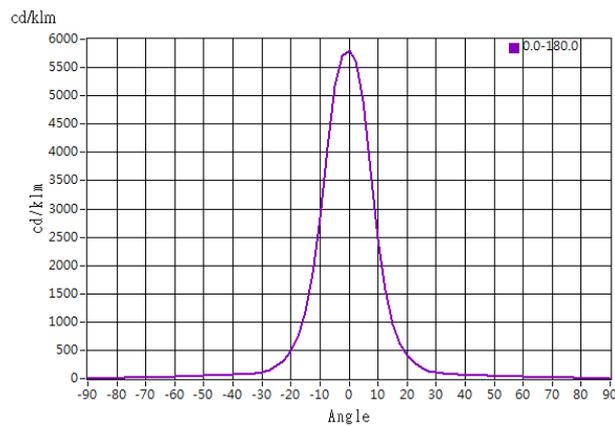




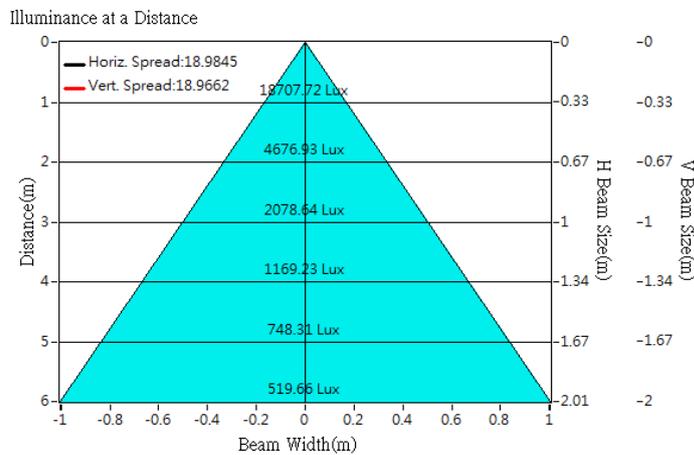
Optical Characteristics

Model Number	CKO-CS15-075033-4001		<p>"H" definition</p>
LED	CXB 1830		
LES / LED Size	Φ 14 mm		
FWHM (D50)	18°		
Field Angle (D10)	37°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	3224 lm	Measured @ 28.3 W	
Material	PC / UL94V2		

cd/klm

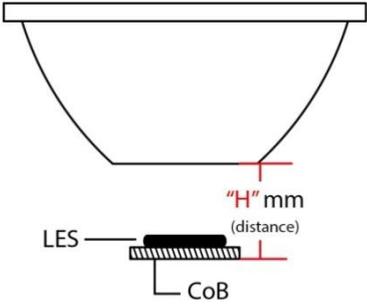


Illuminance At Distances

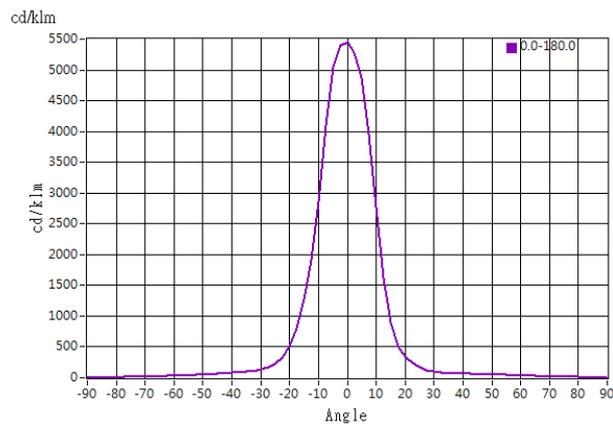




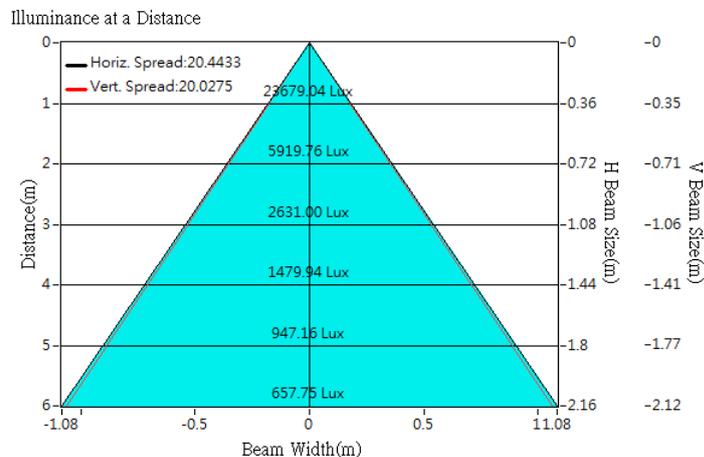
Optical Characteristics

Model Number	CKO-CS15-075033-4001		<p>"H" definition</p> 
LED	CMA 1840		
LES / LED Size	Φ 14 mm		
FWHM (D50)	20°		
Field Angle (D10)	37°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	4340 lm	Measured @ 40.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

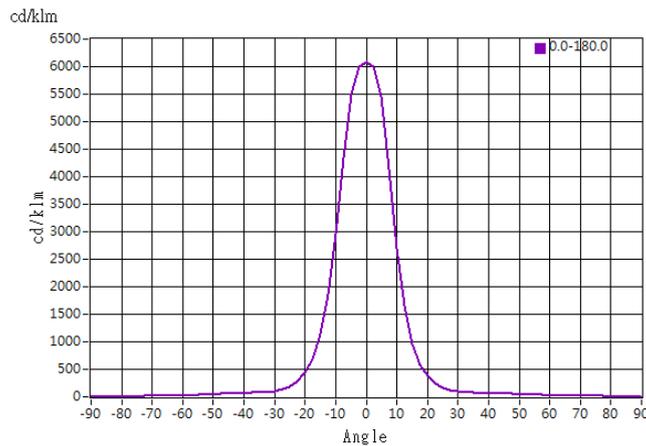




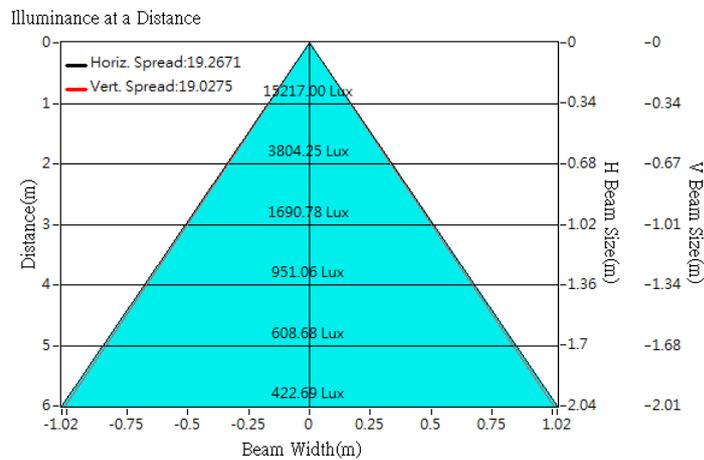
Optical Characteristics

Model Number	CKO-CS15-075033-4001		<p>"H" definition</p> <p>LES CoB</p>
LED	CMT1922		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	19°		
Field Angle (D10)	36°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	2505 lm	Measured @ 22 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

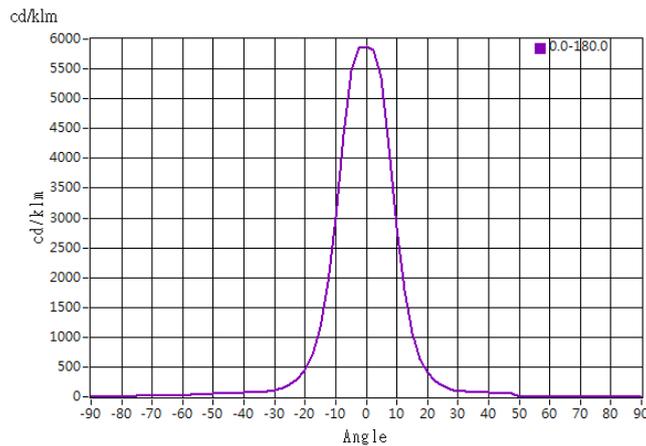




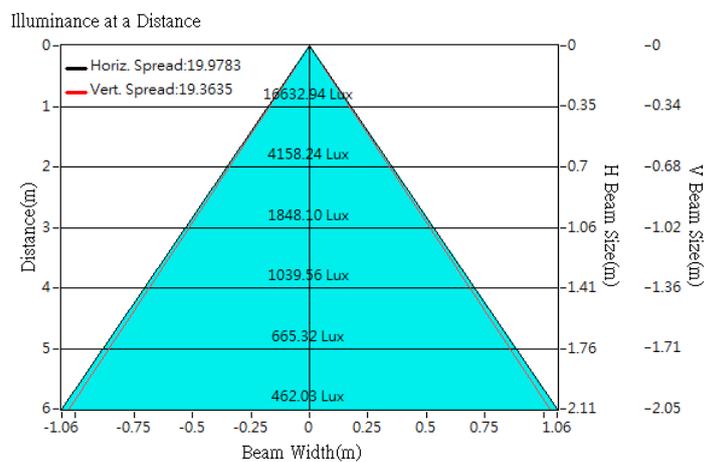
Optical Characteristics

Model Number	CKO-CS15-075033-4001		<p>"H" definition</p>
LED	CMT1925		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	19°		
Field Angle (D10)	37°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	2834 lm	Measured @ 25.2 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

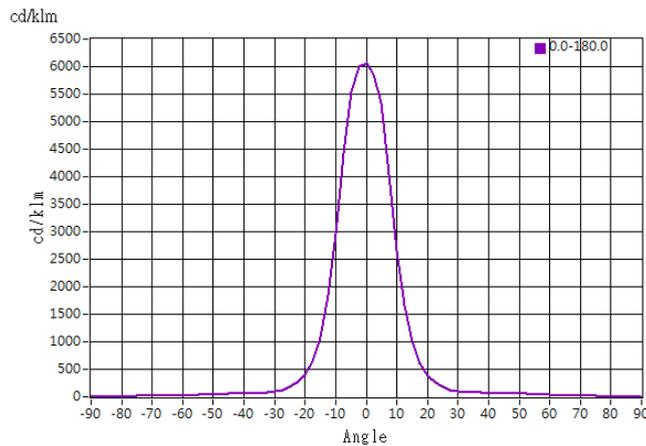




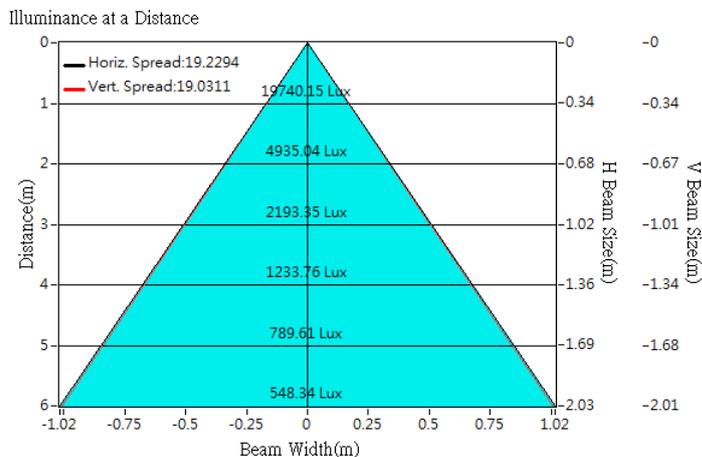
Optical Characteristics

Model Number	CKO-CS15-075033-4001		<p>"H" definition</p>
LED	CMT1930		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	19°		
Field Angle (D10)	35°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	3260 lm	Measured @ 29.1 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

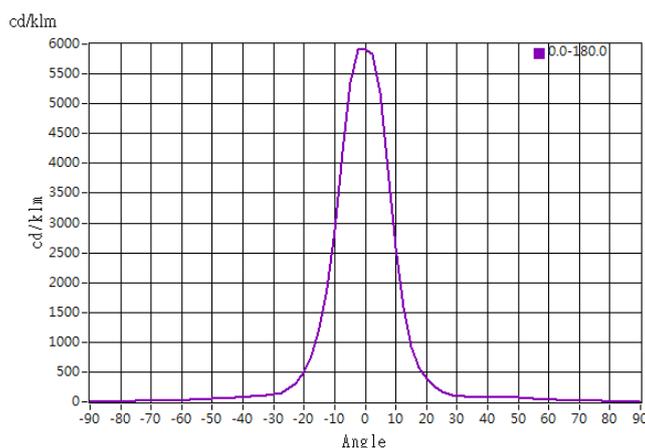




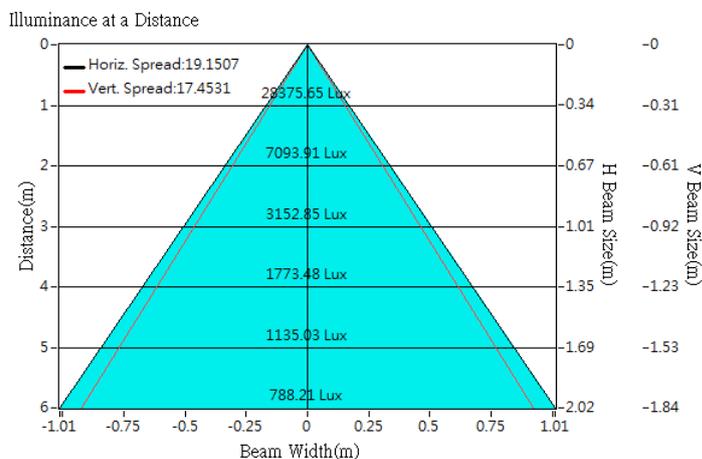
Optical Characteristics

Model Number	CKO-CS15-075033-4001	<p>"H" definition</p> <p>LES CoB</p>
LED	CMT1945	
LES / LED Size	Φ 14.5 mm	
FWHM (D50)	19°	
Field Angle (D10)	36°	
H (distance)	3.65 mm	
Dimension	Φ =75 mm, Thickness= 33 mm	
Luminous Flux	4795 lm	
Material	PC / UL94V2	

cd/klm

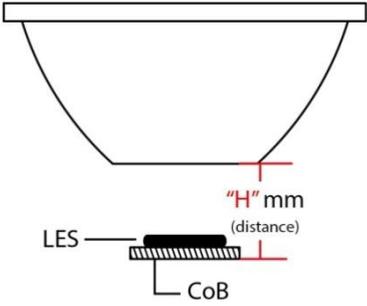


Illuminance At Distances

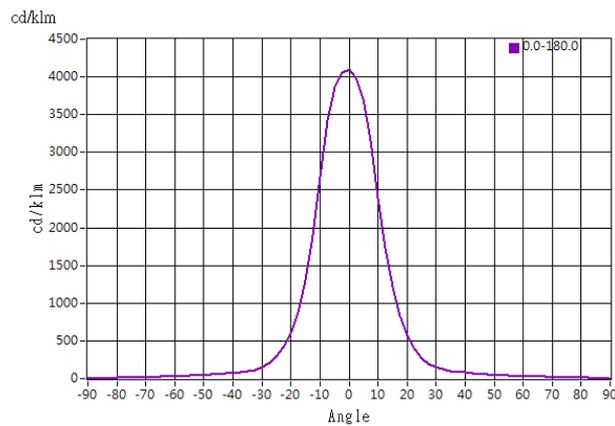




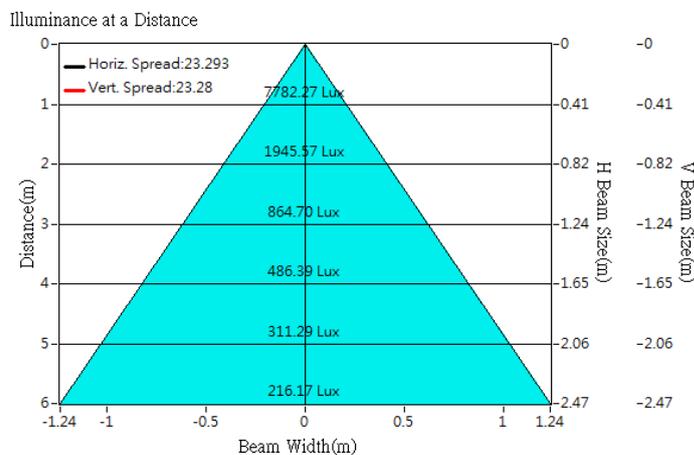
Optical Characteristics

Model Number	CKO-CS15-075033-4001		<p>"H" definition</p> 
LED	CXA 2520		
LES / LED Size	Φ 19 mm		
FWHM (D50)	23°		
Field Angle (D10)	45°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	1899 lm	Measured @ 20.2 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

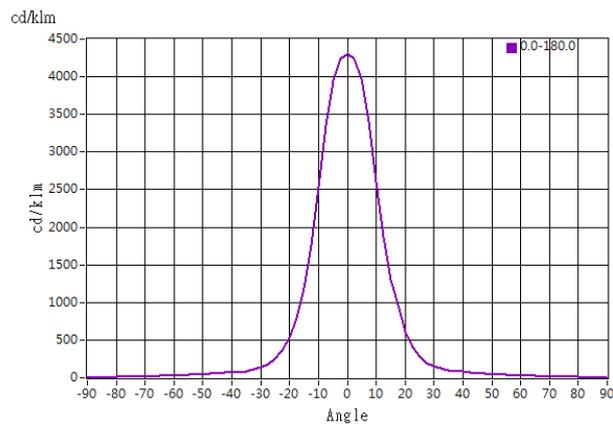




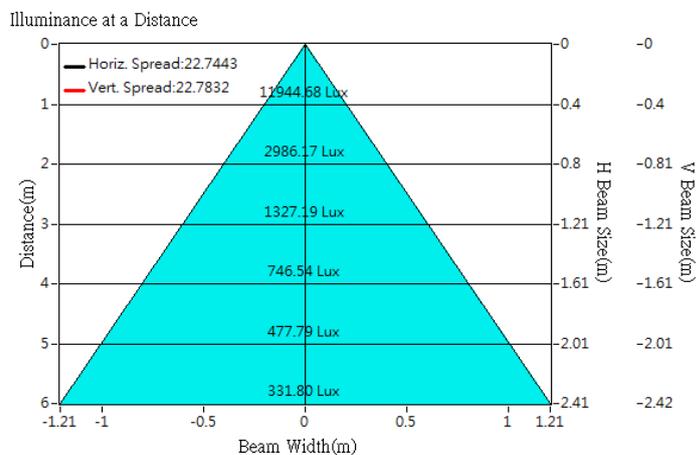
Optical Characteristics

Model Number	CKO-CS15-075033-4001		<p>"H" definition</p>
LED	CXA 2530		
LES / LED Size	Φ 19 mm		
FWHM (D50)	23°		
Field Angle (D10)	44°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	2772 lm	Measured @ 29.8 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

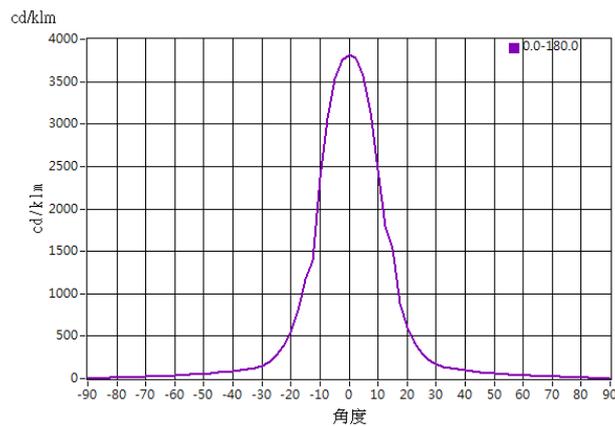




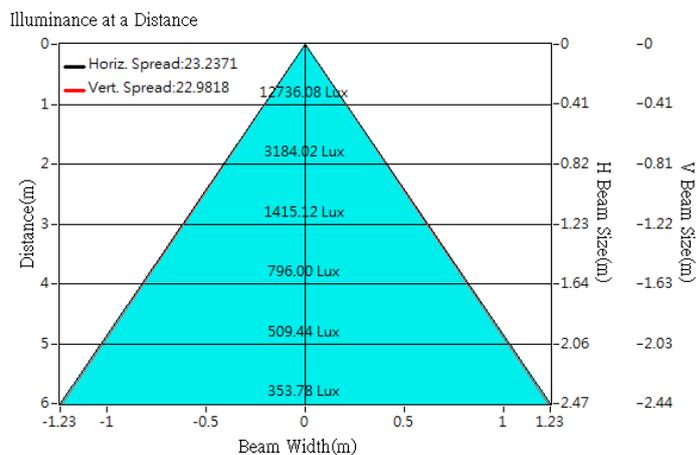
Optical Characteristics

Model Number	CKO-CS15-075033-4001		<p>"H" definition</p>
LED	CXB 2530		
LES / LED Size	Φ 19 mm		
FWHM (D50)	23°		
Field Angle (D10)	46°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	3337 lm	Measured @ 27.9 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

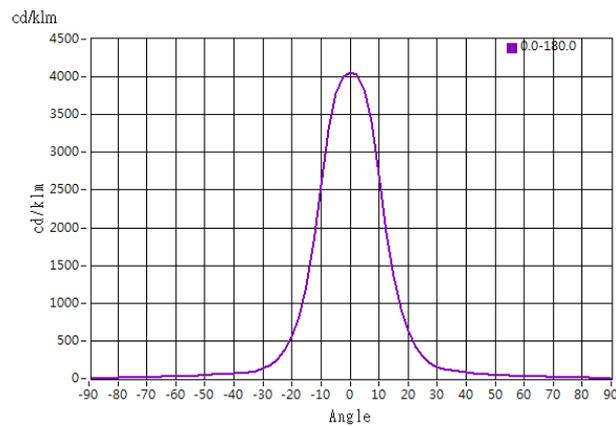




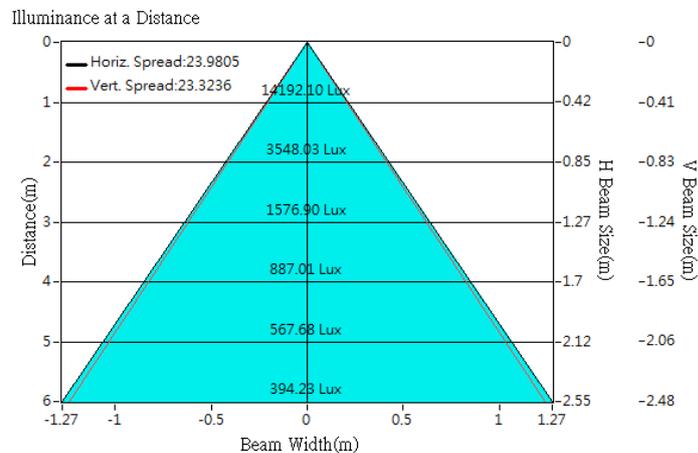
Optical Characteristics

Model Number	CKO-CS15-075033-4001		<p>"H" definition</p>
LED	CXA 2540		
LES / LED Size	Φ 19 mm		
FWHM (D50)	24°		
Field Angle (D10)	45°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	3499 lm	Measured @ 39.6 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

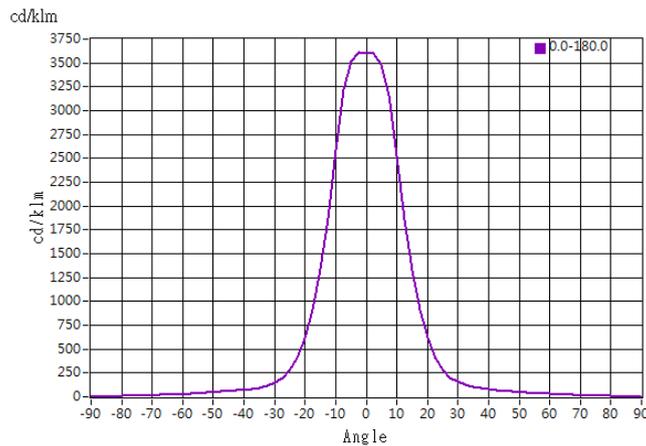




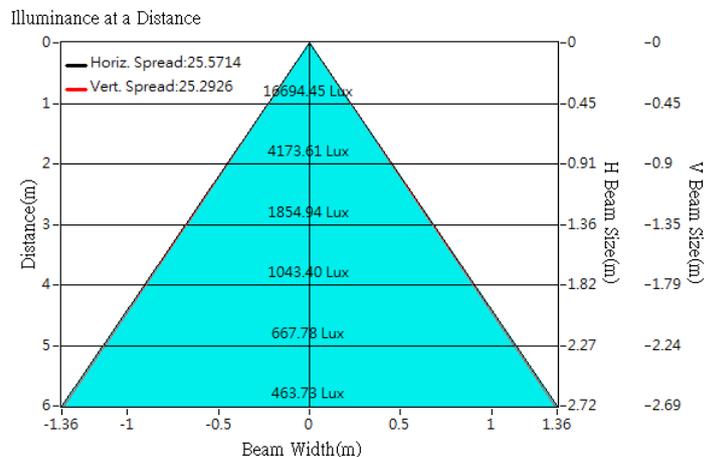
Optical Characteristics

Model Number	CKO-CS15-075033-4001		<p>"H" definition</p>
LED	CXB2540		
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	4636 lm	Measured @ 38.7 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

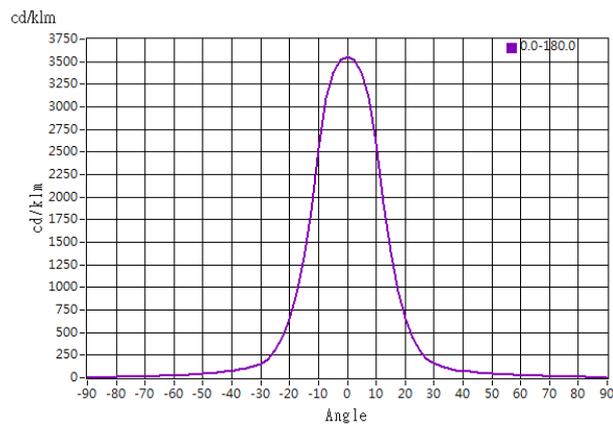




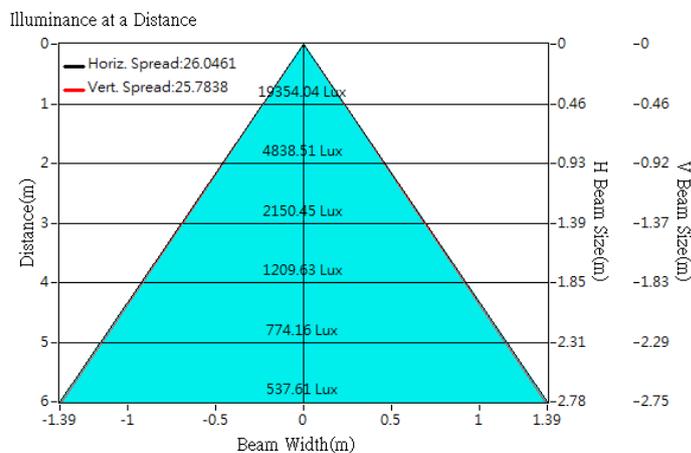
Optical Characteristics

Model Number	CKO-CS15-075033-4001		<p>"H" definition</p>
LED	CMA 2550		
LES / LED Size	Φ 19 mm		
FWHM (D50)	26°		
Field Angle (D10)	48°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	5454 lm	Measured @ 42.6 W	
Material	PC / UL94V2		

cd/klm

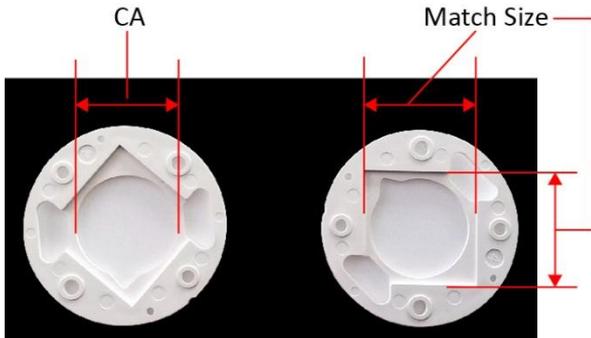


Illuminance At Distances





Lens Accessories - CoB Holder



Example of LES Area & LED Size Dimension Locations

Product Model	Match Size (mm)	CA (mm)	Material	Applicability
CKO-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