

Product Model Number

CKO-SA15-075033-4007

✓ Model Number Definitions

CKO-XXXX-XXXXXX-XXXX

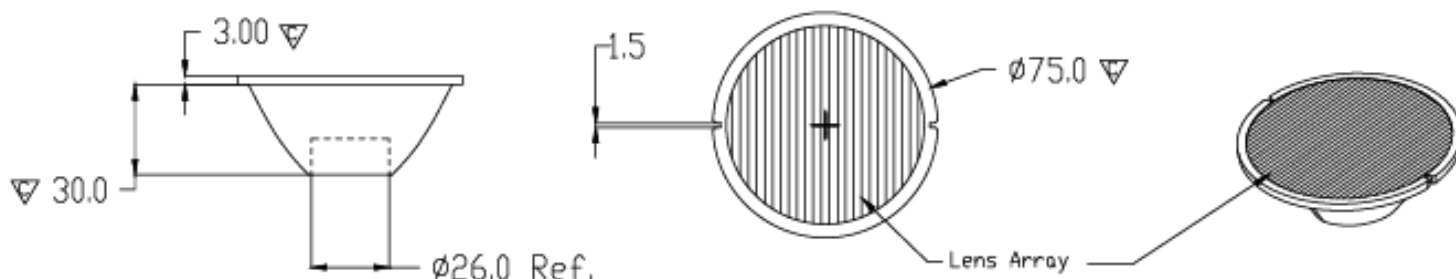


- A. Chun Kuang Optics Corp. Product
B. Product Type: product abbreviation
Ex:
CH→CoB High Intensity
CC→CoB Compact
CS→Soft Shading for CoB LED
HC→Holder for CoB LED

- 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) : $\Phi 75 \times 33$**



▽:Critical Dimension



✓ Optical Characteristics – Angle Performances

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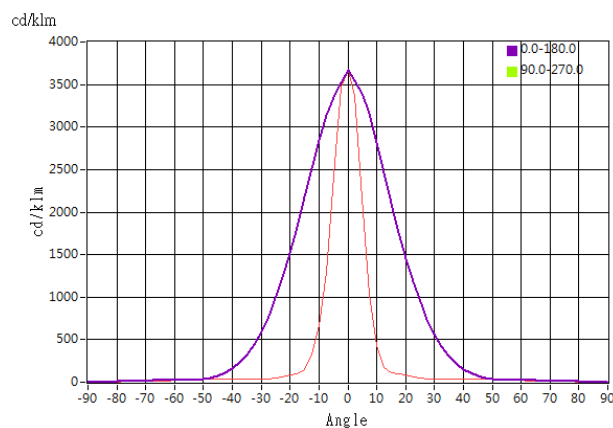
Optical Characteristics

Model Number		CKO-SA15-075033-4007		"H" definition
LED		CXB1520		
LES / LED Size		Φ 9 mm		
FWHM (D50)		12°x34°		
Field Angle (D10)		23°x68°		
H (distance)		3.65 mm		
Dimension		Φ =75 mm, Thickness=33 mm		
Luminous Flux		2457 lm	Measured @ 16.4 W	
Material		PC / UL94V2		

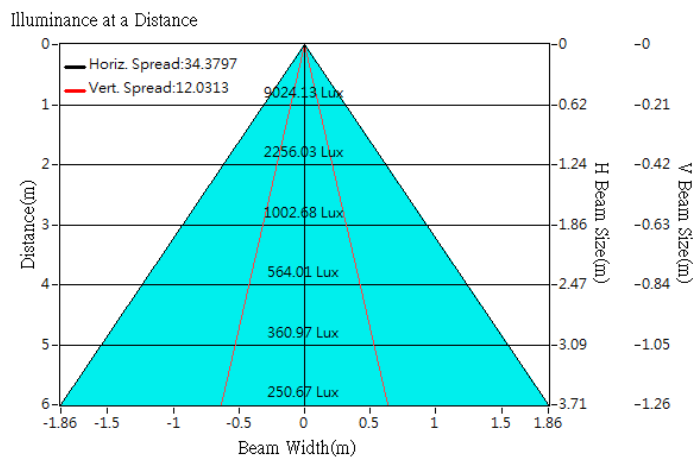


The diagram illustrates the "H" definition, which is the distance from the lens to the LED chip. It shows a cross-section of the LED package with a hemispherical lens. The distance from the lens to the LED chip is labeled "H" mm (distance). The LED chip is labeled LES and the center of the beam is labeled CoB.

cd/klm



Illuminance At Distances

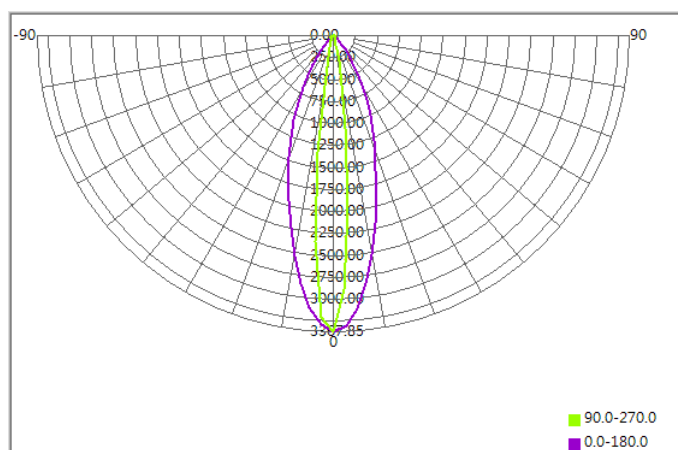




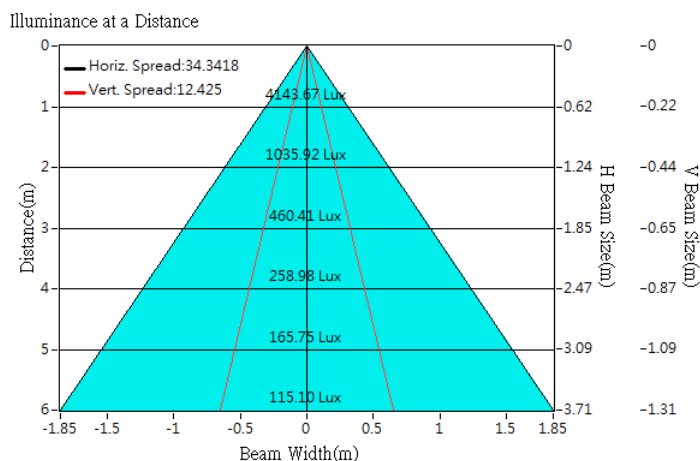
Optical Characteristics

Model Number	CKO-CS15-075033-4007		
LED	CMT1407		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	12°x34°		
Field Angle (D10)	24°x73°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	1230 lm	Measured @ 7.0 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances





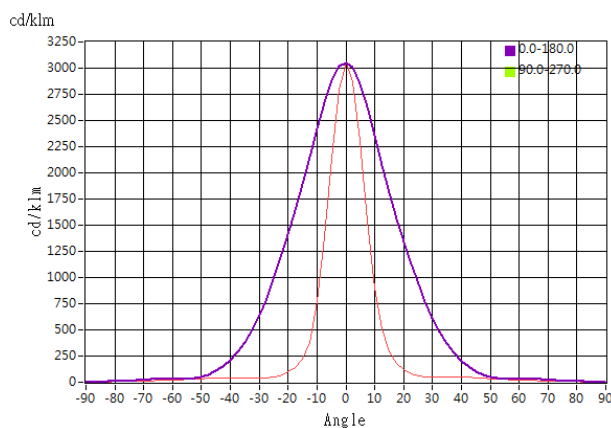
Optical Characteristics

Model Number		CKO-SA15-075033-4007		"H" definition
LED		CXA1816		
LES / LED Size		Φ 12 mm		
FWHM (D50)		14°x37°		
Field Angle (D10)		28°x74°		
H (distance)		3.65 mm		
Dimension		Φ =75 mm, Thickness=33 mm		
Luminous Flux		1950 lm	Measured @ 16.8 W	
Material		PC / UL94V2		

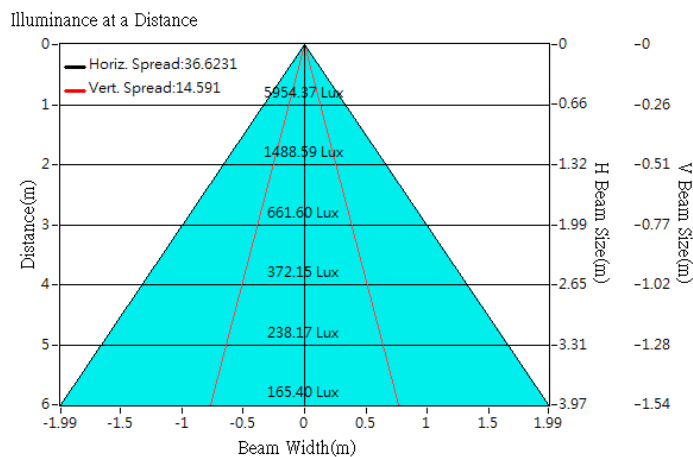


The diagram illustrates the "H" definition, which is the distance from the bottom of the lens to the top of the LED chip. The lens is shown as a hemispherical shape. The LED chip is labeled "LES" and the center of the beam is labeled "CoB". The distance "H" is indicated by a red line and labeled "H" mm (distance).

cd/klm



Illuminance At Distances





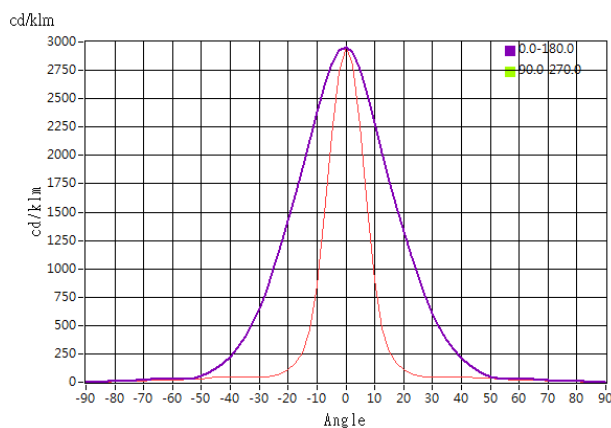
Optical Characteristics

Model Number		CKO-SA15-075033-4007		"H" definition
LED		CXB1816		
LES / LED Size		Φ 12 mm		
FWHM (D50)		15°x38°		
Field Angle (D10)		29°x75°		
H (distance)		3.65 mm		
Dimension		Φ =75 mm, Thickness=33 mm		
Luminous Flux		2247 lm	Measured @ 15.9 W	
Material		PC / UL94V2		

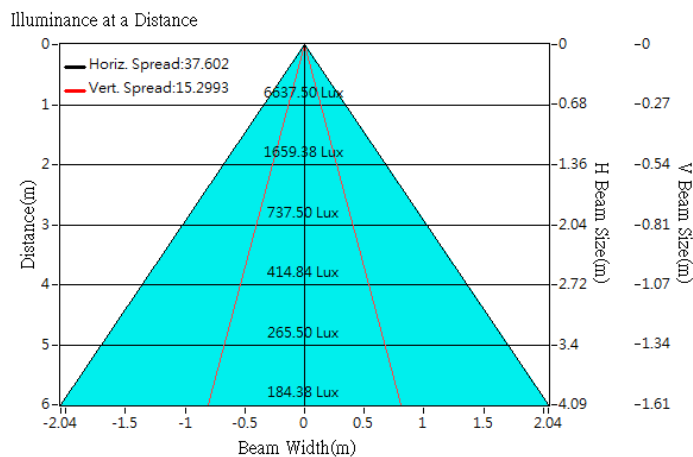


The diagram illustrates the definition of the distance 'H' for the LED package. It shows a cross-section of the package with a lens (LES) and a center of beam (CoB). The distance 'H' is defined as the height from the CoB to the bottom of the lens, measured in millimeters.

cd/klm



Illuminance At Distances

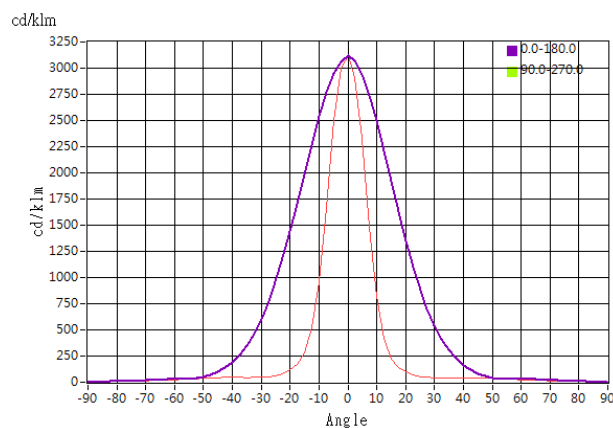




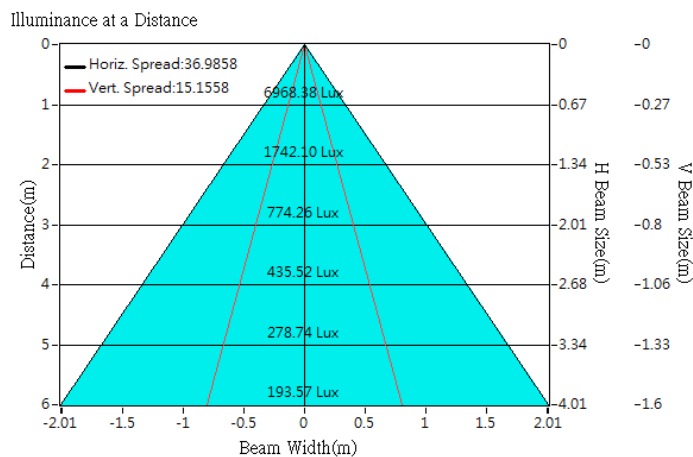
Optical Characteristics

Model Number	CKO-SA15-075033-4007		
LED	CXA1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	15°x37°		
Field Angle (D10)	29°x71°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2235 lm	Measured @ 19.9 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

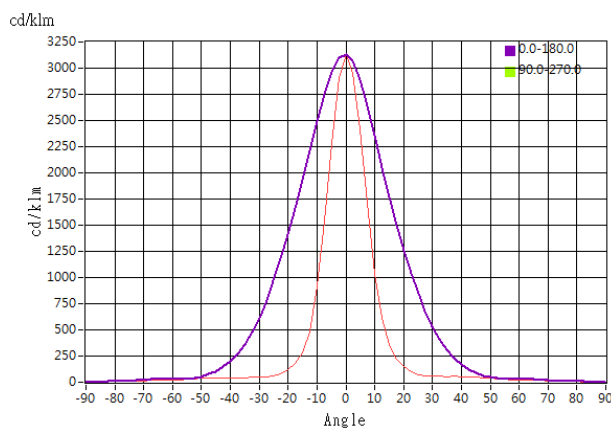




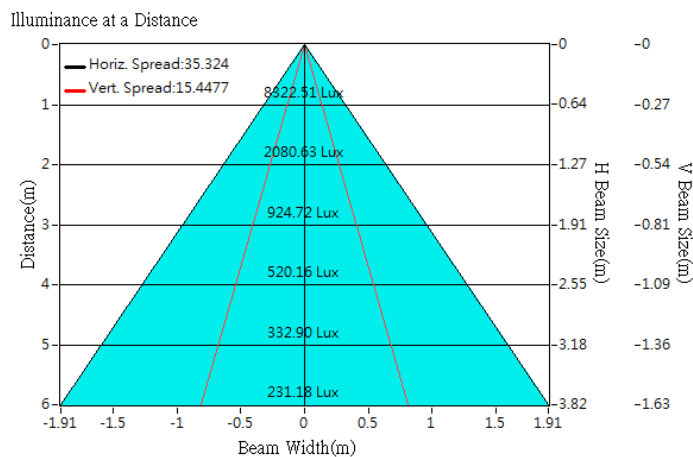
Optical Characteristics

Model Number	CKO-SA15-075033-4007		
LED	CXB1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	15°x35°		
Field Angle (D10)	30°x71°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2657 lm	Measured @ 19.8 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

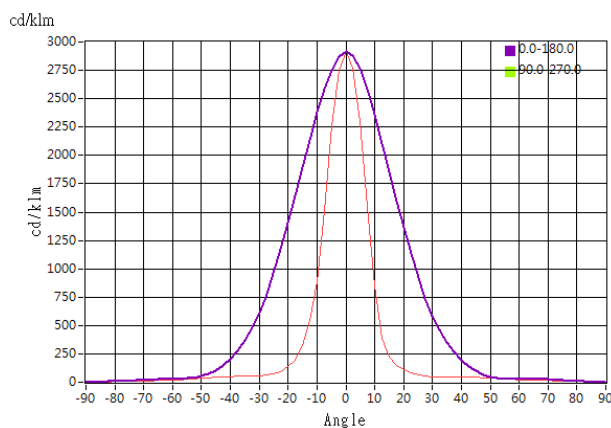




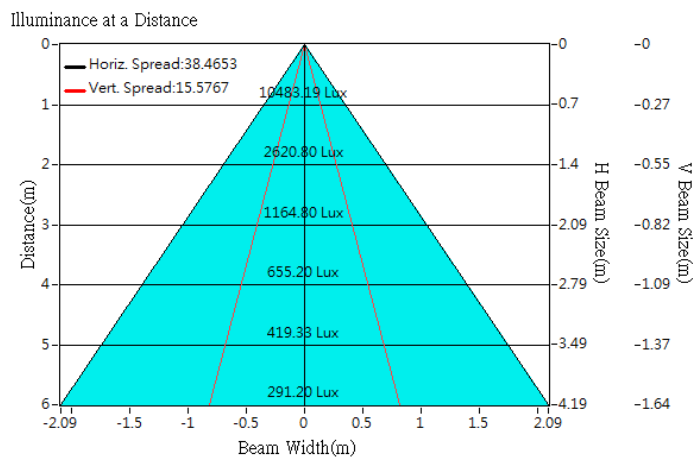
Optical Characteristics

Model Number		CKO-SA15-075033-4007	"H" definition
LED		CMA1825	
LES / LED Size		Φ 12 mm	
FWHM (D50)		15°x38°	
Field Angle (D10)		29°x74°	
H (distance)		3.65 mm	
Dimension		Φ =75 mm, Thickness=33 mm	
Luminous Flux		3599 lm Measured @ 24.5 W	
Material		PC / UL94V2	

cd/klm



Illuminance At Distances

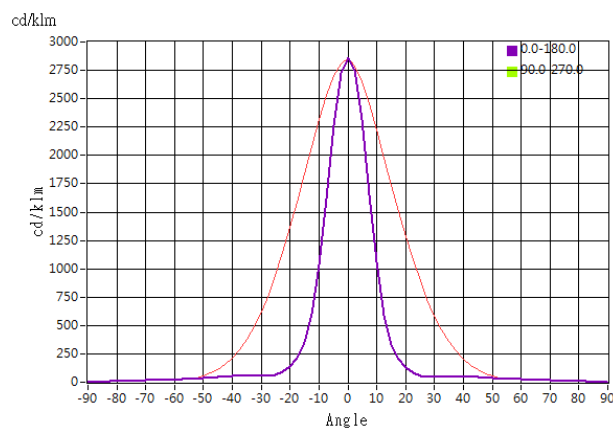




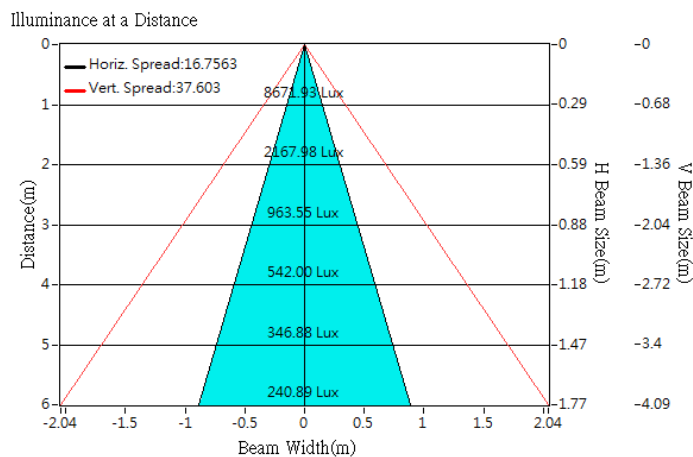
Optical Characteristics

Model Number	CKO-SA15-075033-4007		
LED	CXA1830		
LES / LED Size	Φ 14 mm		
FWHM (D50)	16°x38°		
Field Angle (D10)	32°x75°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	3035 lm	Measured @ 29.4 W	
Material	PC / UL94V2		

cd/klm



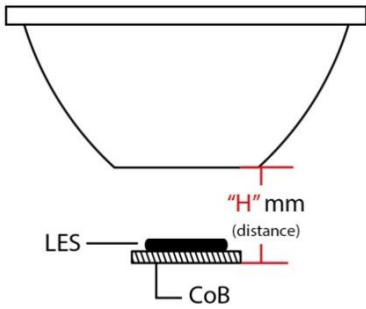
Illuminance At Distances



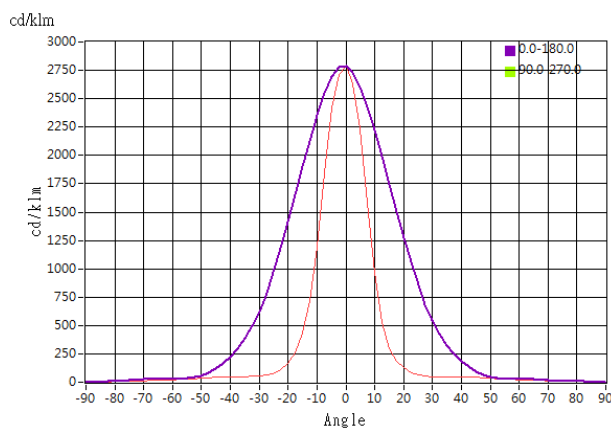


Optical Characteristics

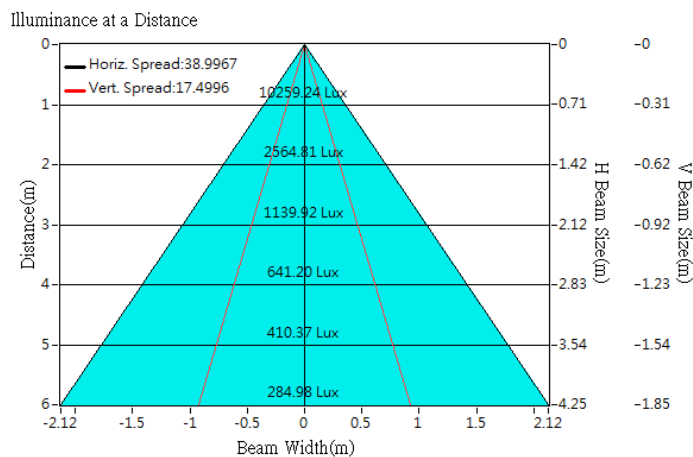
Model Number		CKO-SA15-075033-4007		"H" definition
LED		CXB1830		
LES / LED Size		Φ 14 mm		
FWHM (D50)		17°x39°		
Field Angle (D10)		33°x75°		
H (distance)		3.65 mm		
Dimension		Φ =75 mm, Thickness=33 mm		
Luminous Flux		3686 lm	Measured @ 28.2 W	
Material		PC / UL94V2		



cd/klm



Illuminance At Distances

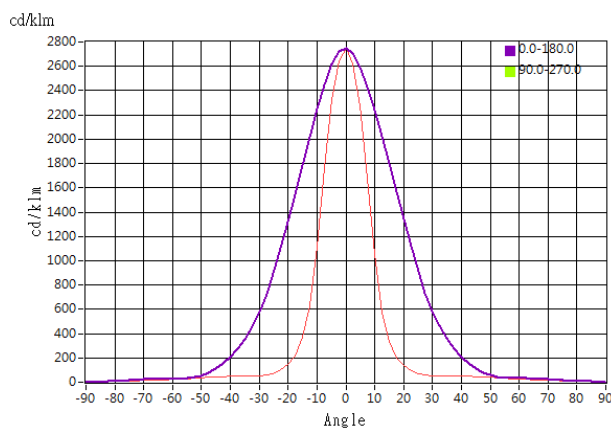




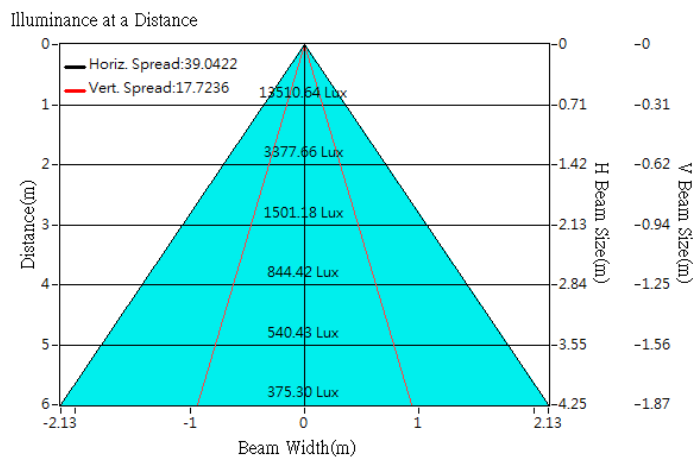
Optical Characteristics

Model Number	CKO-SA15-075033-4007		
LED	CMA1840		
LES / LED Size	Φ 14 mm		
FWHM (D50)	17°x39°		
Field Angle (D10)	33°x75°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	4915 lm	Measured @ 40.5 W	
Material	PC / UL94V2		

cd/klm

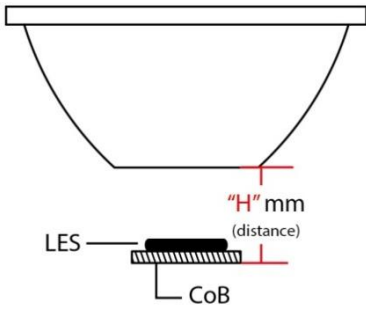


Illuminance At Distances

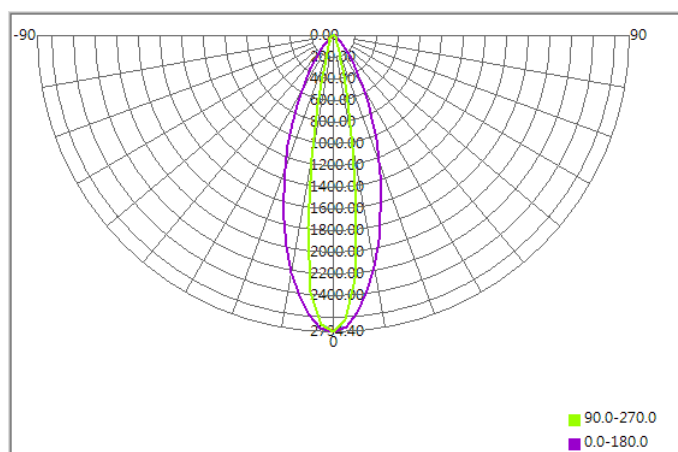




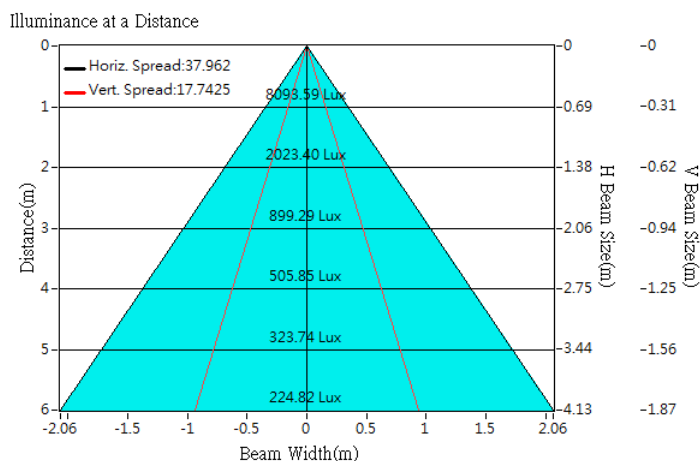
Optical Characteristics

Model Number	CKO-CS15-075033-4007		
LED	CMT1922		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	17°x38°		
Field Angle (D10)	34°x75°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	2959 lm	Measured @ 21.9 W	
Material	PC / UL94V2		

cd/klm

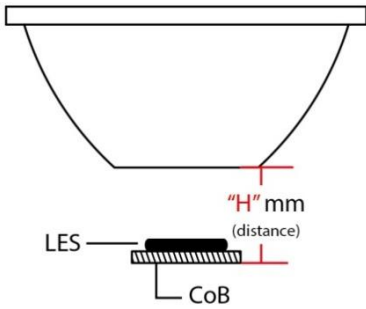


Illuminance At Distances

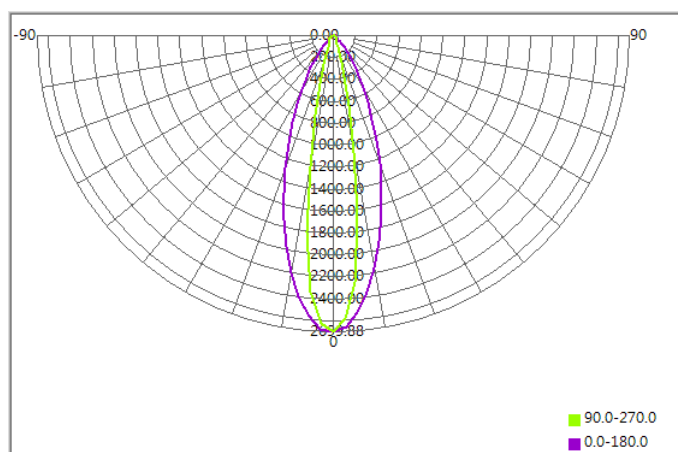




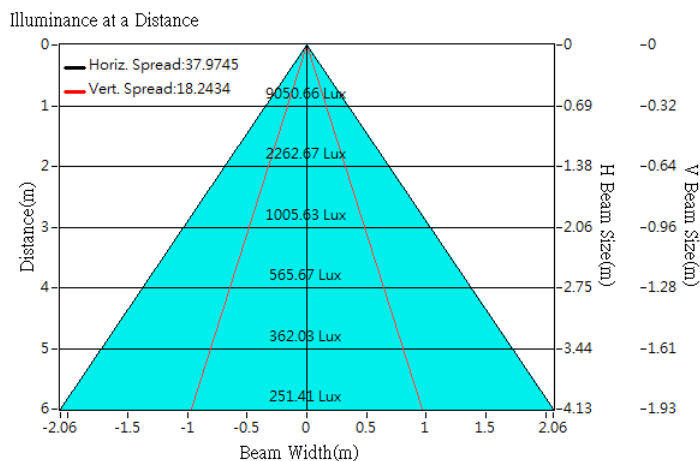
Optical Characteristics

Model Number	CKO-CS15-075033-4007		
LED	CMT1925		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	18°x38°		
Field Angle (D10)	35°x75°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	3352 lm	Measured @ 25.2 W	
Material	PC / UL94V2		

cd/klm

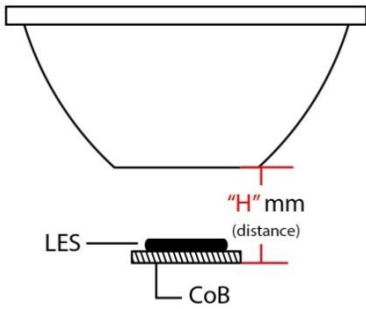


Illuminance At Distances

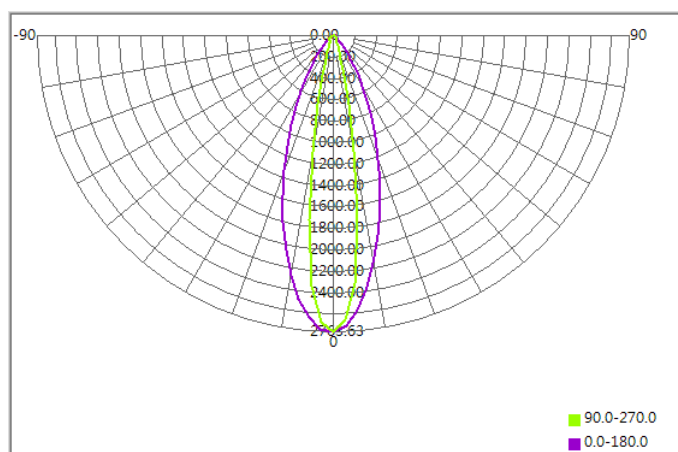




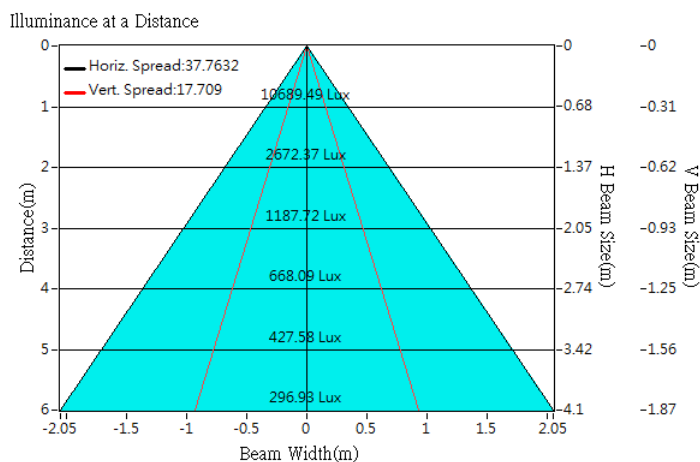
Optical Characteristics

Model Number	CKO-CS15-075033-4007		
LED	CMT1930		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	17°x38°		
Field Angle (D10)	34°x75°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	3867 lm	Measured @ 29.1 W	
Material	PC / UL94V2		

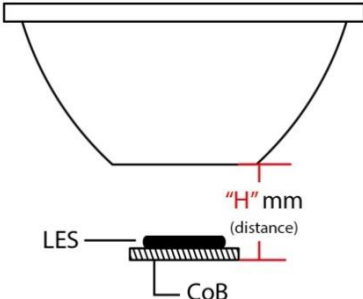
cd/klm



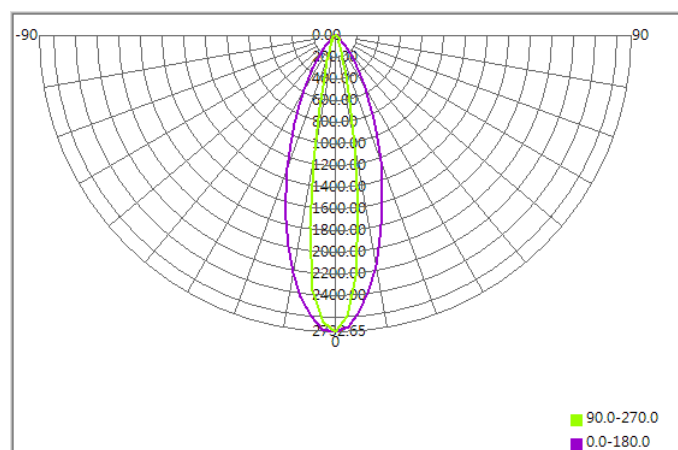
Illuminance At Distances



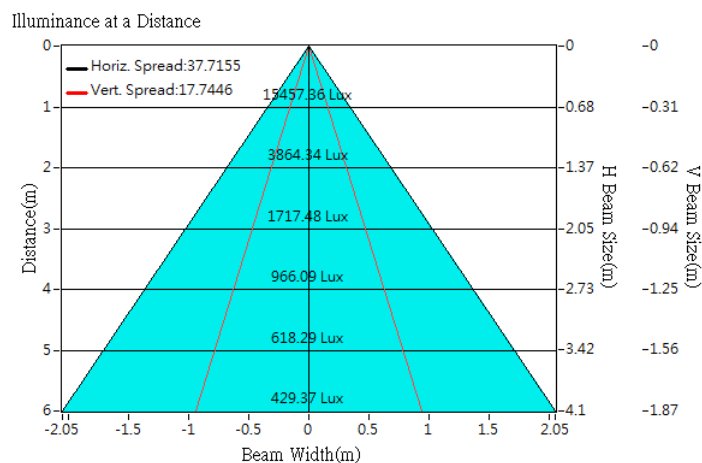
Optical Characteristics

Model Number	CKO-CS15-075033-4007		"H" definition
LED	CMT1945		 The diagram illustrates the definition of "H" (distance) for the CKO-CS15-075033-4007 LED. The top part shows a cross-section of the LED, which has a flat top and a hemispherical bottom. The bottom part shows a cross-section of the LED package, with "LES" pointing to the lens and "CoB" pointing to the chip. A red line indicates the distance "H" from the top surface to the chip.
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	17°x38°		
Field Angle (D10)	34°x75°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness= 33 mm		
Luminous Flux	5656 lm	Measured @ 43.8 W	
Material	PC / UL94V2		

cd/klm

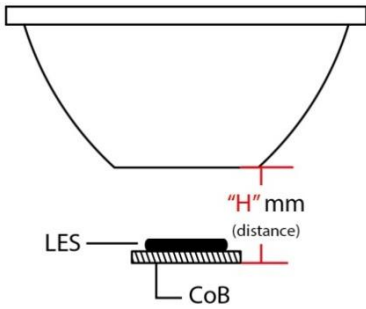


Illuminance At Distances

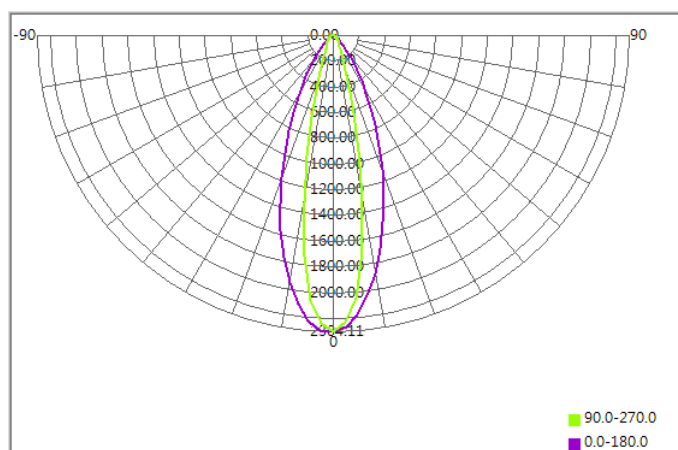




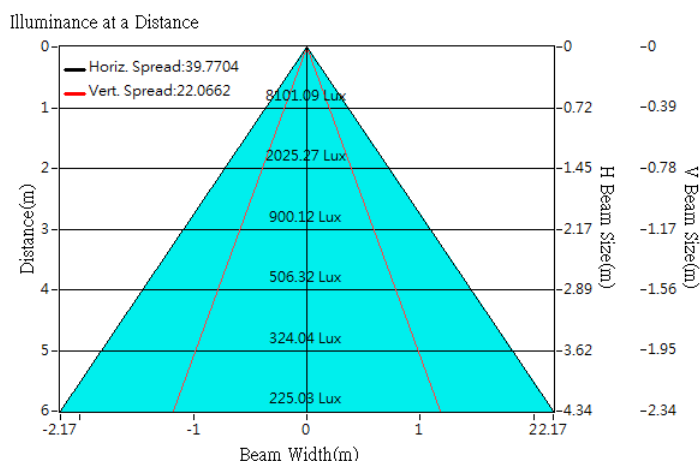
Optical Characteristics

Model Number	CKO-SA15-075033-4007		
LED	CXA2540		
LES / LED Size	Φ 19 mm		
FWHM (D50)	22°x40°		
Field Angle (D10)	44°x78°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	3516 lm	Measured @ 40.6 W	
Material	PC / UL94V2		

cd/klm

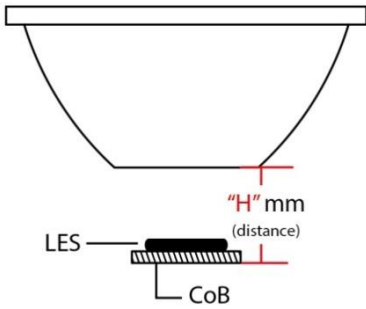


Illuminance At Distances

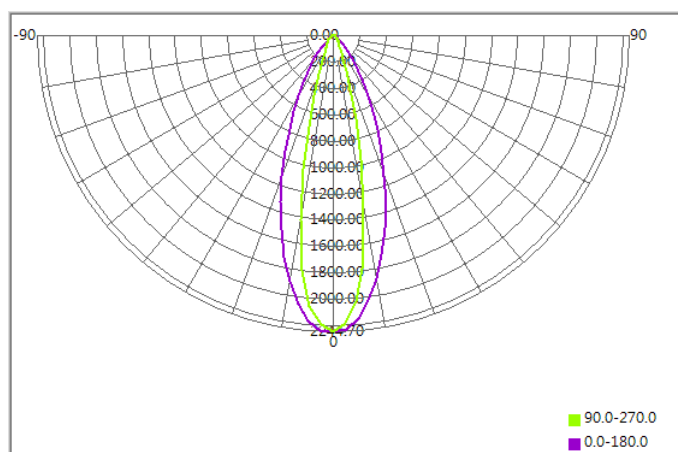




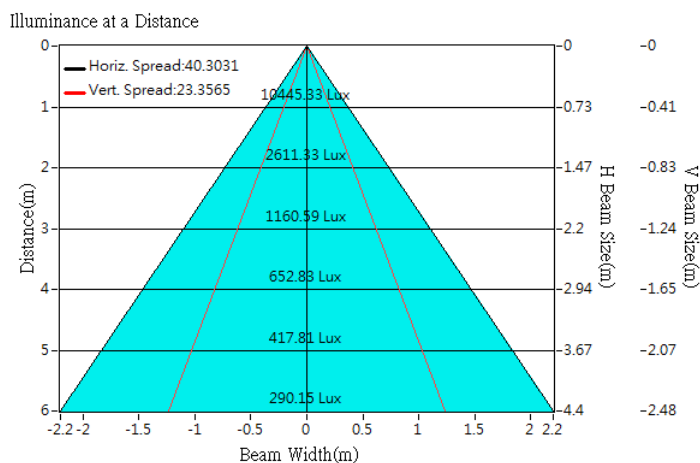
Optical Characteristics

Model Number	CKO-SA15-075033-4007		
LED	CXB2540		
LES / LED Size	Φ 19 mm		
FWHM (D50)	23°x40°		
Field Angle (D10)	44°x79°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	4653 lm	Measured @ 38.6 W	
Material	PC / UL94V2		

cd/klm

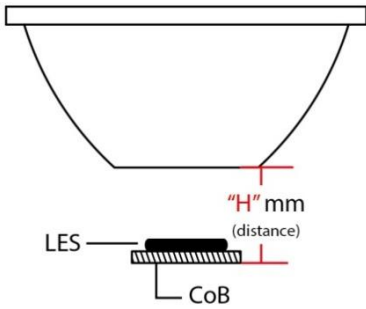


Illuminance At Distances

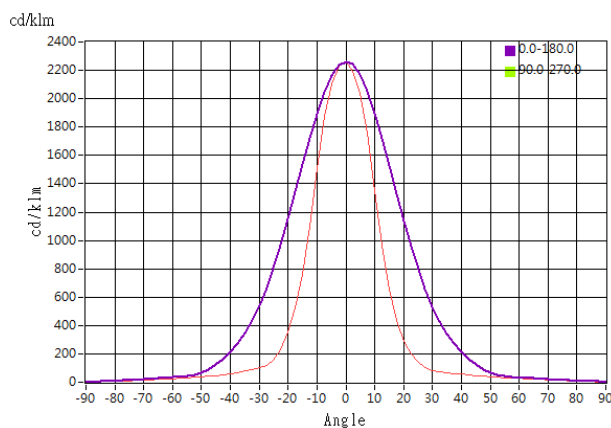




Optical Characteristics

Model Number	CKO-SA15-075033-4007		
LED	CMA2550		
LES / LED Size	Φ 19 mm		
FWHM (D50)	24°x40°		
Field Angle (D10)	44°x79°		
H (distance)	3.65 mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	5384 lm	Measured @ 42.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

