



Product Model Number

CKO-CH17-085047-0501

✓ Model Number Definitions

CKO-XXXX-XXXXXX-XXXX

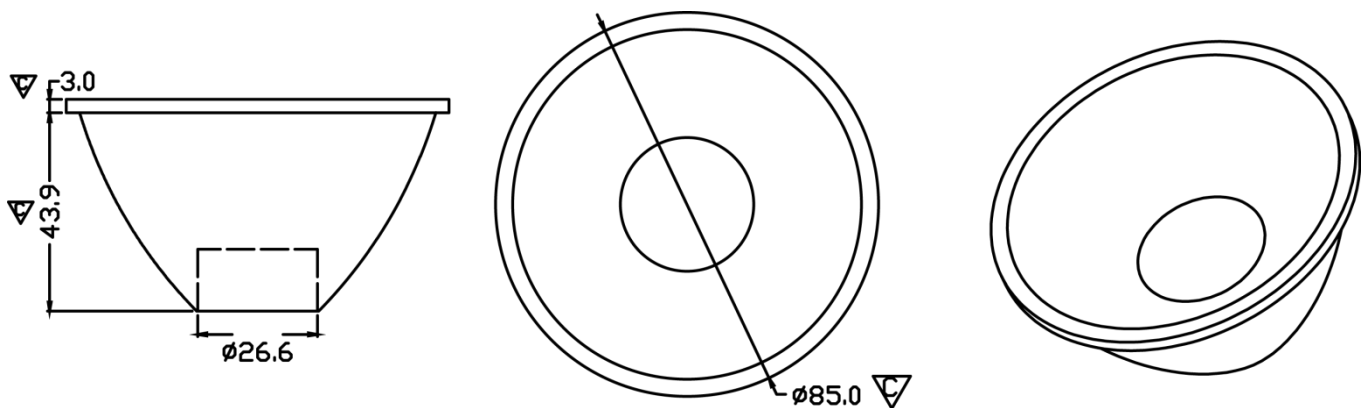


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation
Ex:
CH→CoB High Intensity
CC→CoB Compact
CS→Soft Shading for CoB LED
HC→Holder for CoB LED

- 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) : Φ 85 x 46.9



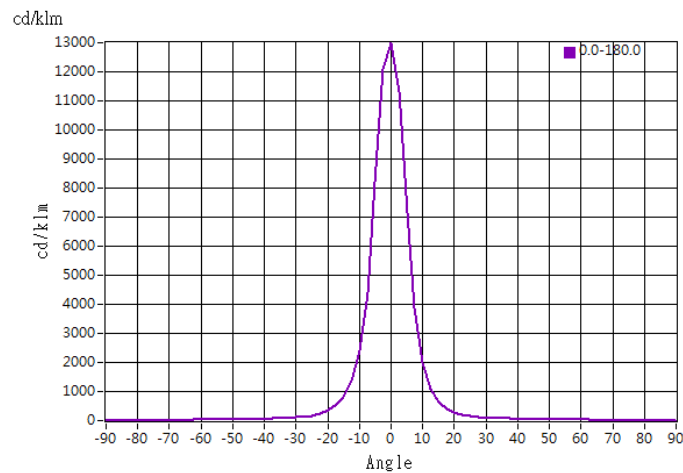
▽:Critical Dimension



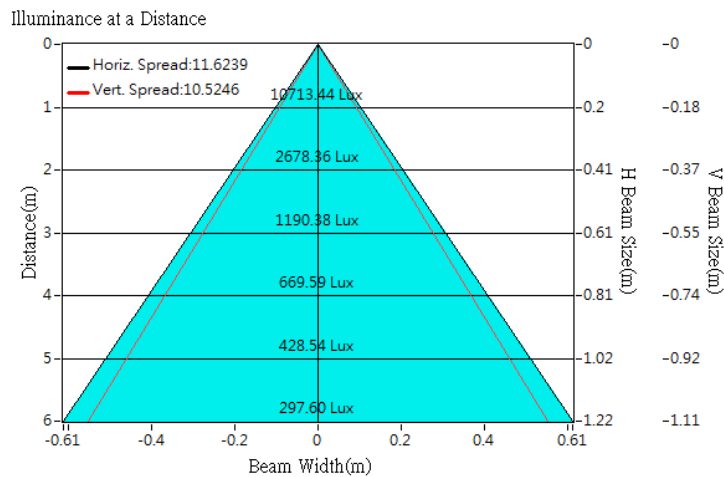
Optical Characteristics

Model Number	CKO-CH17-085047-0501	<p>"H" definition</p>
LED	CMT1407	
LES / LED Size	Φ 9.8 mm	
FWHM (D50)	11°	
Field Angle (D10)	25°	
H (distance)	3.65mm	
Dimension	Φ =85 mm, Thickness=46.9 mm	
Luminous Flux	824 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

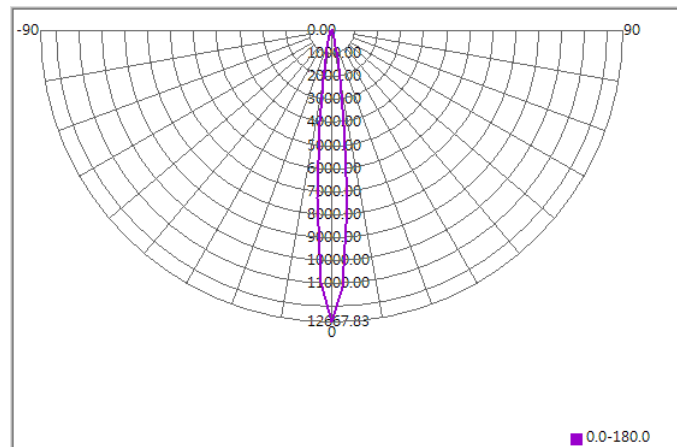




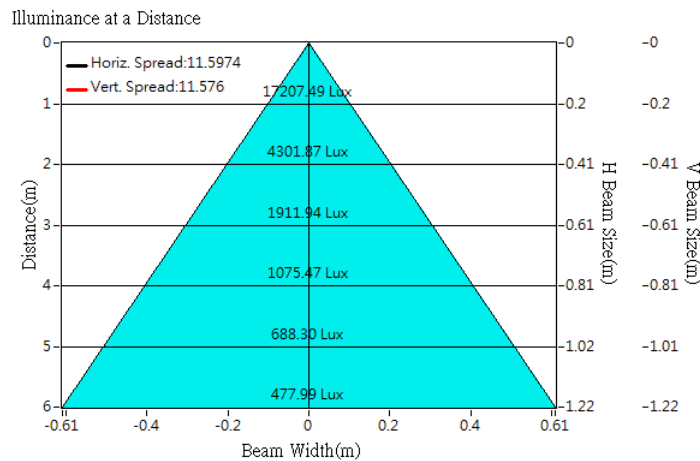
Optical Characteristics

Model Number	CKO-CH17-085047-0501	<p>"H" definition</p> <p>LES CoB</p>	
LED	CMT1412		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	11°		
Field Angle (D10)	25°		
H (distance)	3.65mm		
Dimension	Φ =85 mm, Thickness=46.9 mm		
Luminous Flux	1358 lm		Measured @ 12.2 W
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

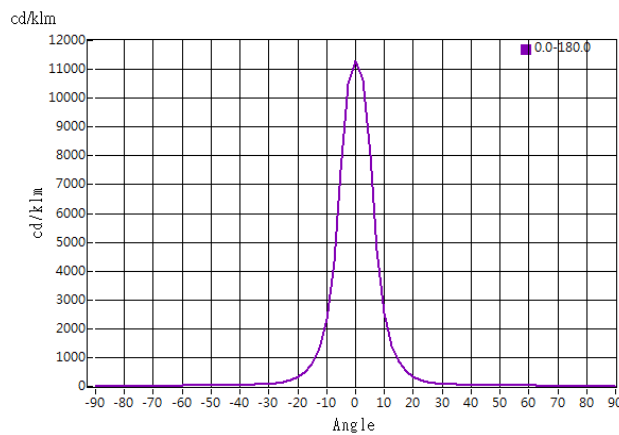




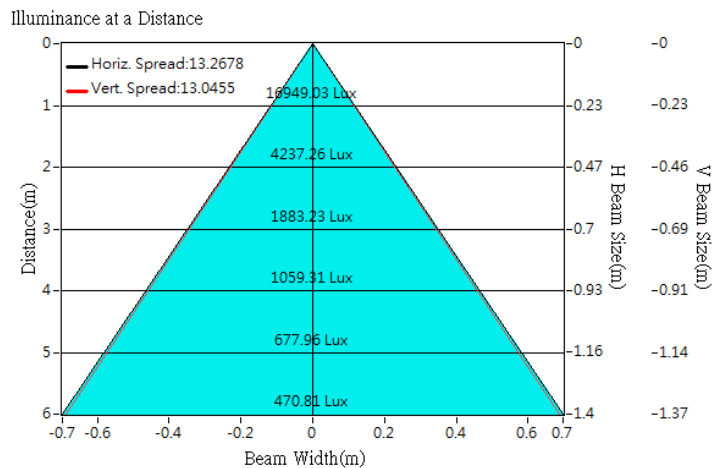
Optical Characteristics

Model Number	CKO-CH17-085047-0501		<p>"H" definition</p>
LED	CXA1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	13°		
Field Angle (D10)	27°		
H (distance)	3.65mm		
Dimension	Φ =85 mm, Thickness=46.9 mm		
Luminous Flux	1499 lm	Measured @ 16.8 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

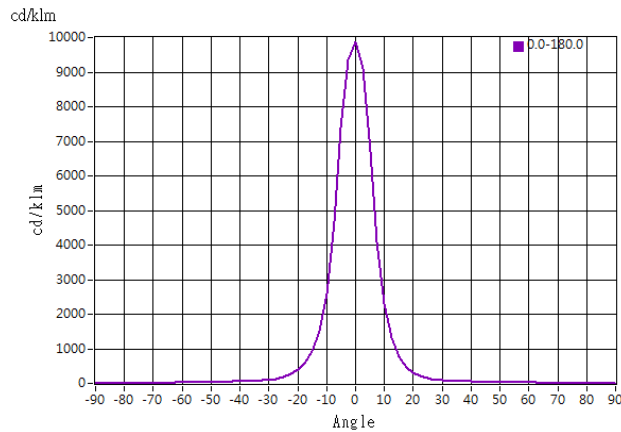




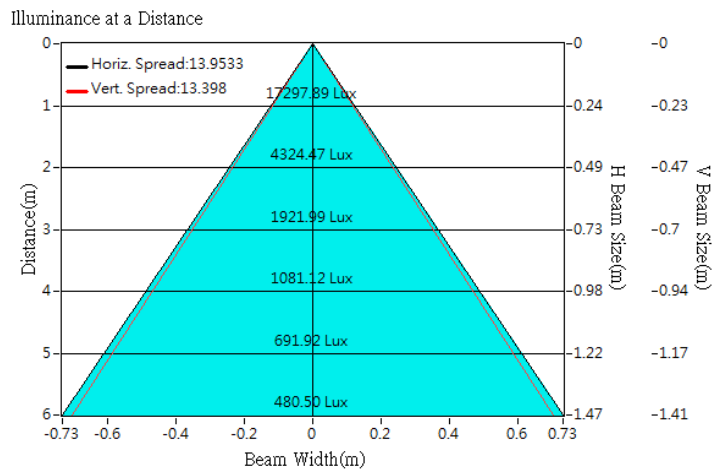
Optical Characteristics

Model Number	CKO-CH17-085047-0501		<p>"H" definition</p>
LED	CXB1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	13°		
Field Angle (D10)	29°		
H (distance)	3.65mm		
Dimension	Φ =85 mm, Thickness=46.9 mm		
Luminous Flux	1753 lm	Measured @ 15.6 W	
Material	PC / UL94V2		

cd/klm

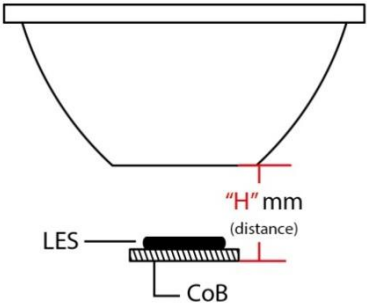


Illuminance At Distances

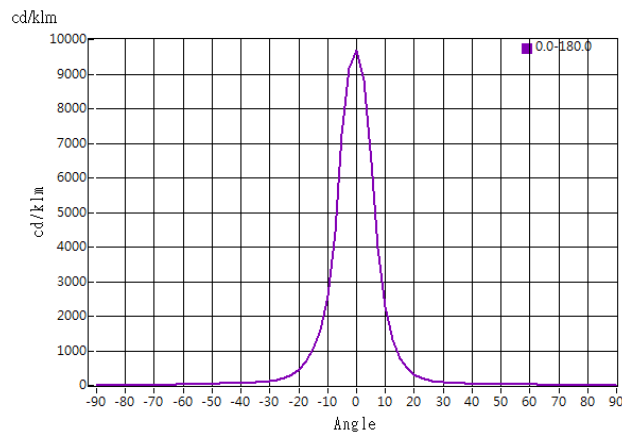




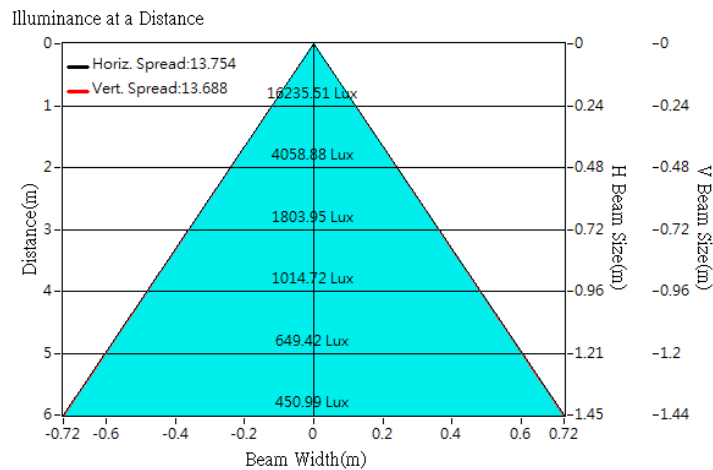
Optical Characteristics

Model Number	CKO-CH17-085047-0501		<p>"H" definition</p> 
LED	CXA1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	13°		
Field Angle (D10)	30°		
H (distance)	3.65mm		
Dimension	Φ =85 mm, Thickness=46.9 mm		
Luminous Flux	1676 lm	Measured @ 19.6 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

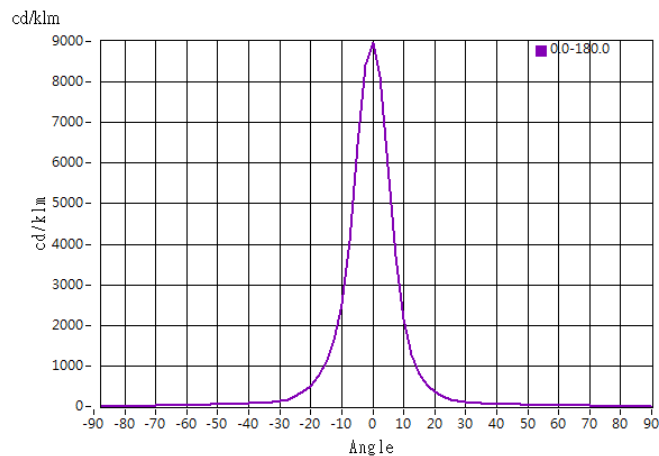




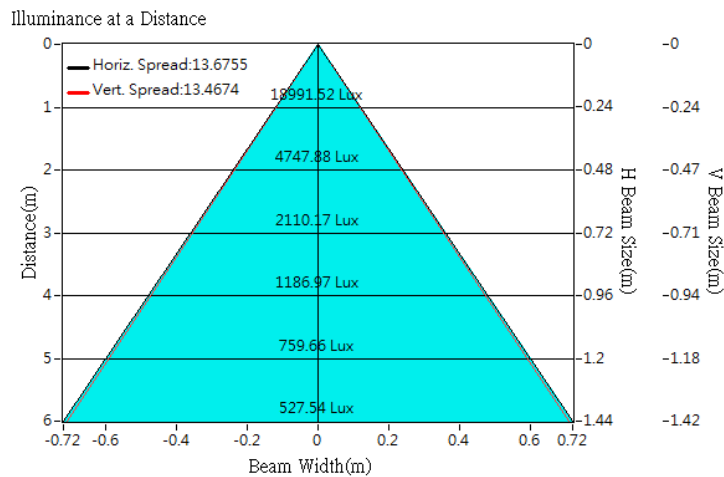
Optical Characteristics

Model Number	CKO-CH17-085047-0501	<p>"H" definition</p>
LED	CXB1820	
LES / LED Size	Φ 12 mm	
FWHM (D50)	13°	
Field Angle (D10)	31°	
H (distance)	3.65mm	
Dimension	Φ =85 mm, Thickness=46.9 mm	
Luminous Flux	2114 lm	
Material	PC / UL94V2	

cd/klm

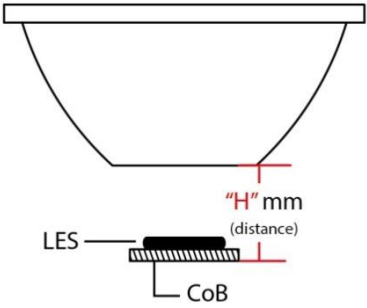


Illuminance At Distances

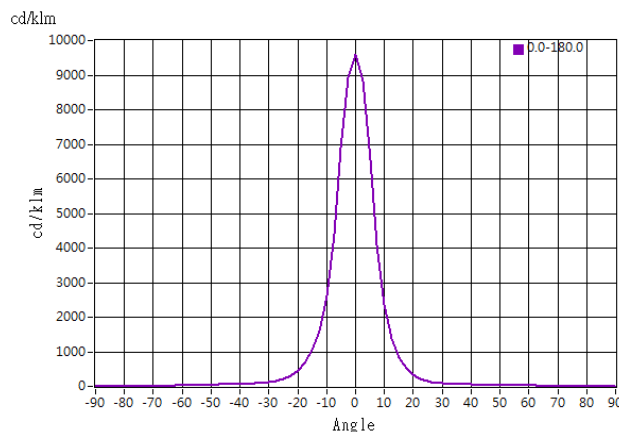




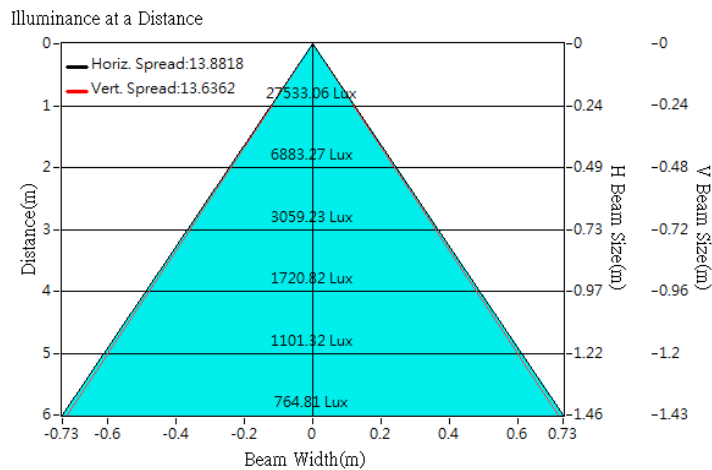
Optical Characteristics

Model Number	CKO-CH17-085047-0501		<p>"H" definition</p> 
LED	CMA1825		
LES / LED Size	Φ 12 mm		
FWHM (D50)	13°		
Field Angle (D10)	30°		
H (distance)	3.65mm		
Dimension	Φ =85 mm, Thickness=46.9 mm		
Luminous Flux	2872 lm	Measured @ 24.4 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

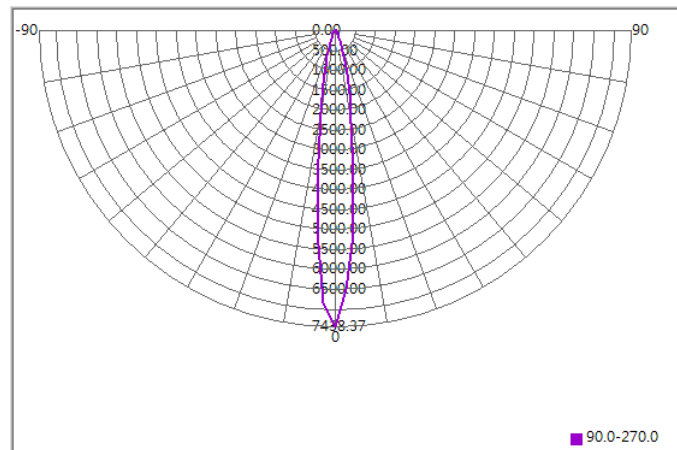




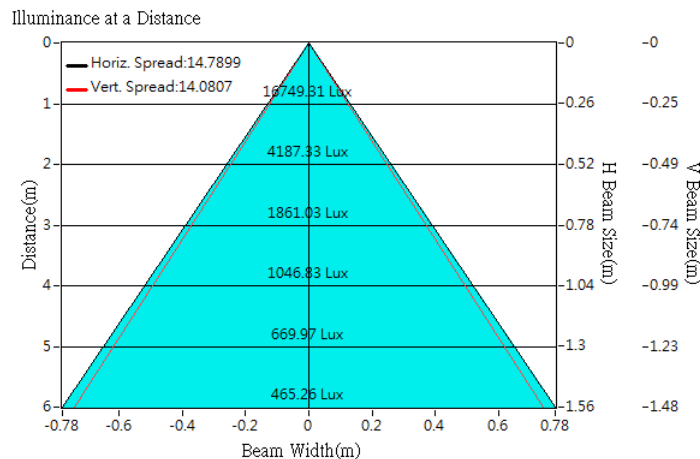
Optical Characteristics

Model Number	CKO-CH17-085047-0501	<p>"H" definition</p>	
LED	CXA1830		
LES / LED Size	Φ 14 mm		
FWHM (D50)	14°		
Field Angle (D10)	34°		
H (distance)	3.65mm		
Dimension	Φ =85 mm, Thickness=46.9 mm		
Luminous Flux	2251 lm		Measured @ 29.9 W
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

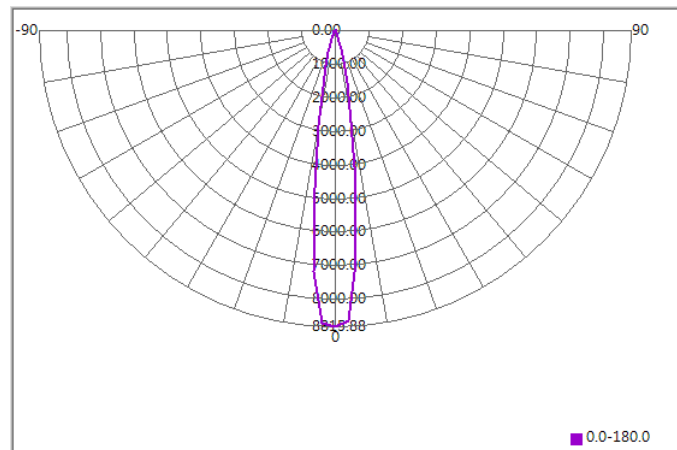




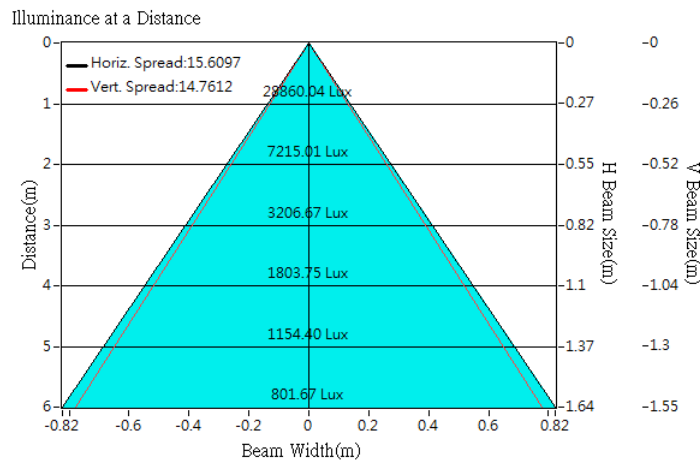
Optical Characteristics

Model Number	CKO-CH17-085047-0501	<p>"H" definition</p> <p>LES CoB</p>
LED	CXB1830	
LES / LED Size	Φ 14 mm	
FWHM (D50)	15°	
Field Angle (D10)	32°	
H (distance)	3.65mm	
Dimension	Φ =85 mm, Thickness=46.9 mm	
Luminous Flux	3273 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

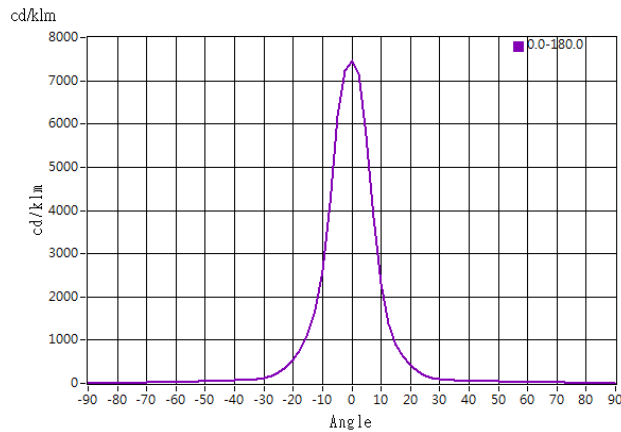




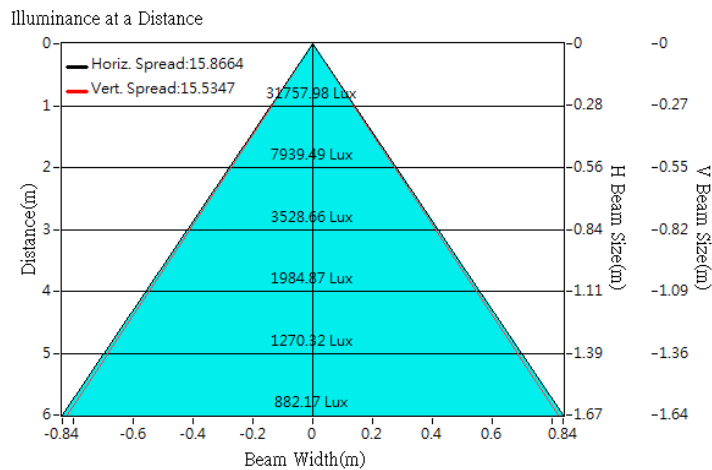
Optical Characteristics

Model Number	CKO-CH17-085047-0501		<p>"H" definition</p>
LED	CMA1840		
LES / LED Size	Φ 14 mm		
FWHM (D50)	15°		
Field Angle (D10)	34°		
H (distance)	3.65mm		
Dimension	Φ =85 mm, Thickness=46.9 mm		
Luminous Flux	4253 lm	Measured @ 40.1 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

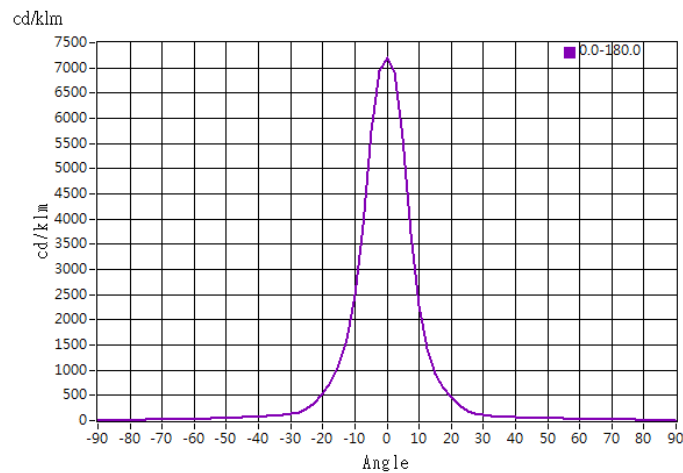




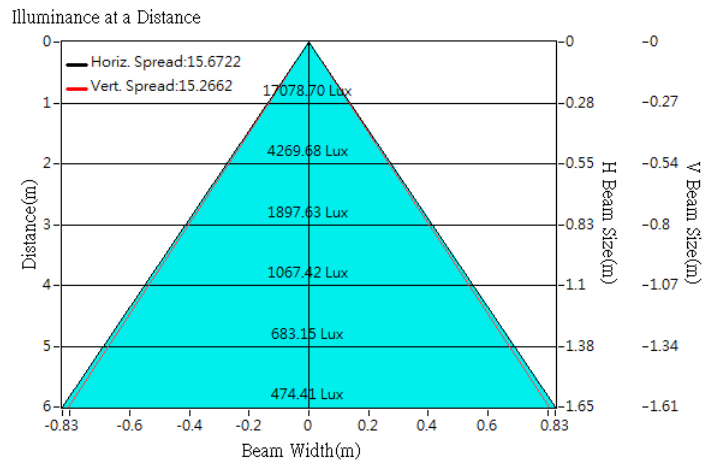
Optical Characteristics

Model Number	CKO-CH17-085047-0501		<p>"H" definition</p>
LED	CMT1922		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	15°		
Field Angle (D10)	35°		
H (distance)	3.65mm		
Dimension	Φ =85 mm, Thickness=46.9 mm		
Luminous Flux	2370 lm	Measured @ 21.8 W	
Material	PC / UL94V2		

cd/klm

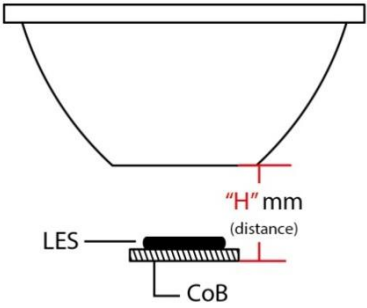


Illuminance At Distances

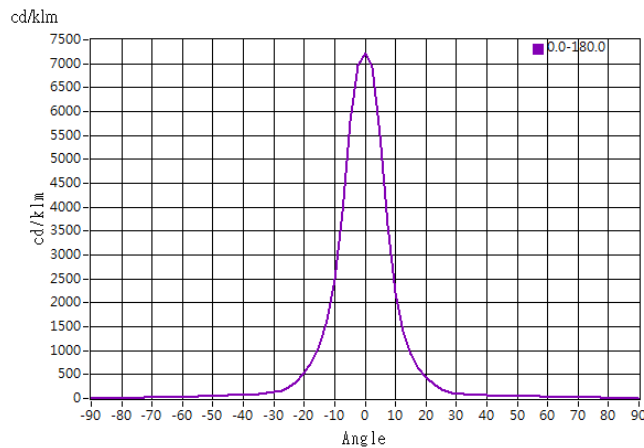




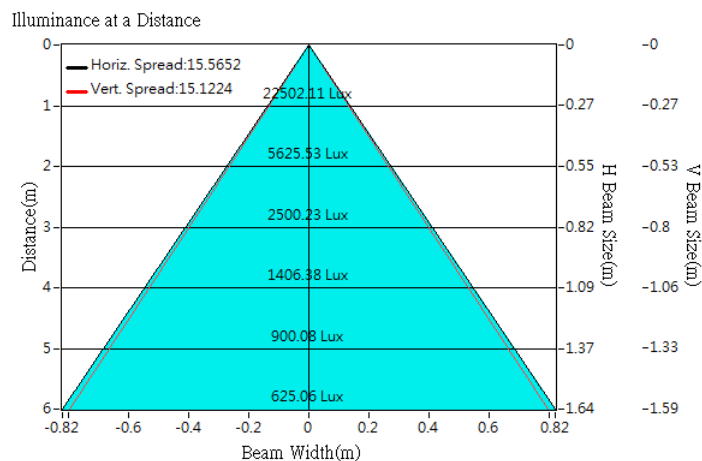
Optical Characteristics

Model Number	CKO-CH17-085047-0501		<p>"H" definition</p> 
LED	CMT1930		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	15°		
Field Angle (D10)	35°		
H (distance)	3.65mm		
Dimension	Φ =85 mm, Thickness=46.9 mm		
Luminous Flux	3116 lm	Measured @ 29.2 W	
Material	PC / UL94V2		

cd/klm

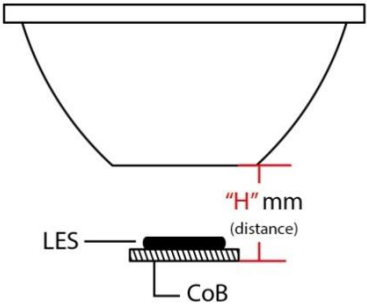


Illuminance At Distances

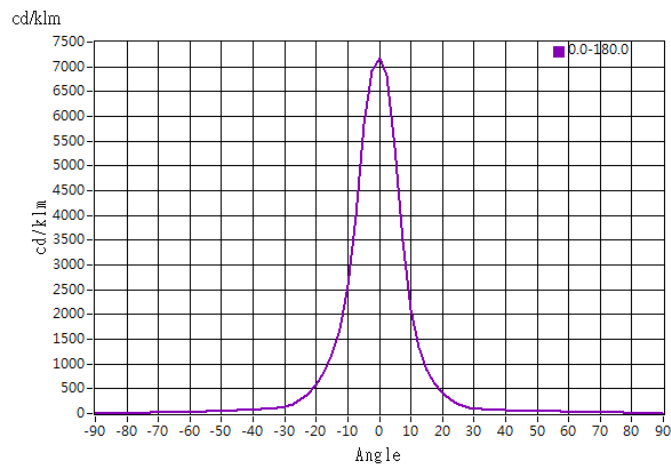




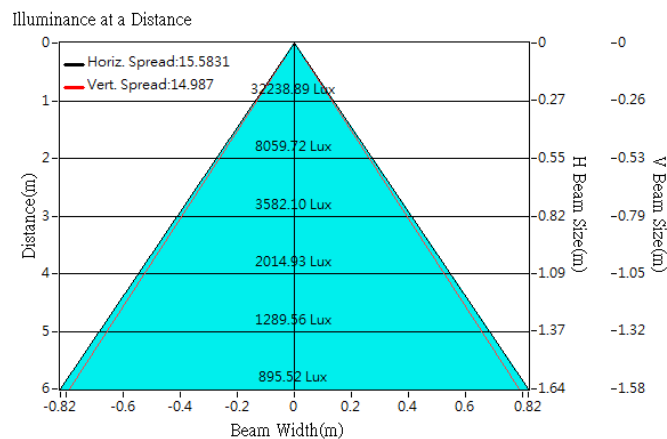
Optical Characteristics

Model Number	CKO-CH17-085047-0501		<p>"H" definition</p> 
LED	CMT1945		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	15°		
Field Angle (D10)	35°		
H (distance)	3.65mm		
Dimension	Φ =85 mm, Thickness=46.9 mm		
Luminous Flux	4492 lm	Measured @ 43.7 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

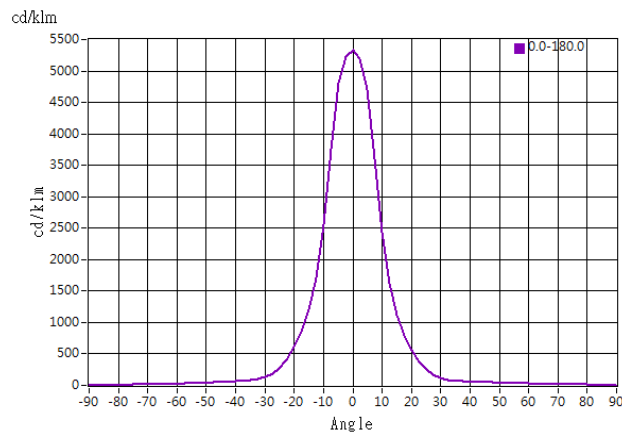




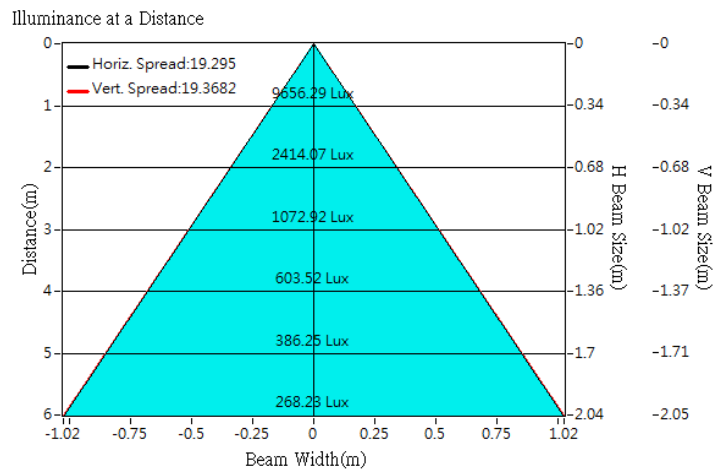
Optical Characteristics

Model Number	CKO-CH17-085047-0501		<p>"H" definition</p>
LED	CXA2520		
LES / LED Size	Φ 19 mm		
FWHM (D50)	19°		
Field Angle (D10)	41°		
H (distance)	3.65mm		
Dimension	Φ =85 mm, Thickness=46.9 mm		
Luminous Flux	1814 lm	Measured @ 20.4 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

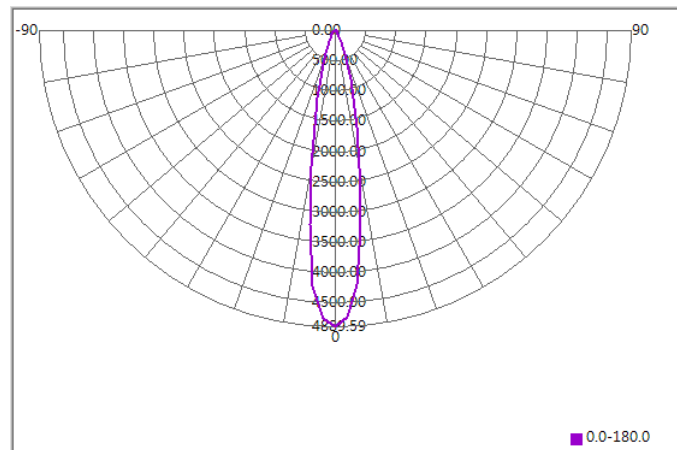




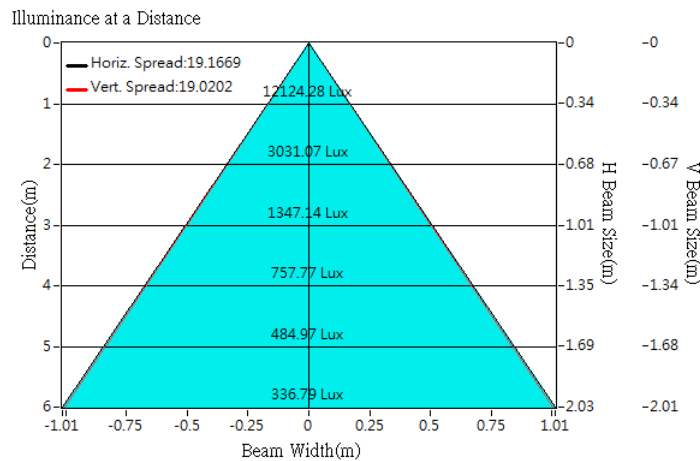
Optical Characteristics

Model Number	CKO-CH17-085047-0501	<p>"H" definition</p> <p>LES CoB</p>	
LED	CXA2530		
LES / LED Size	Φ 19 mm		
FWHM (D50)	19°		
Field Angle (D10)	43°		
H (distance)	3.65mm		
Dimension	Φ =85 mm, Thickness=46.9 mm		
Luminous Flux	2479 lm		Measured @ 28.9 W
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

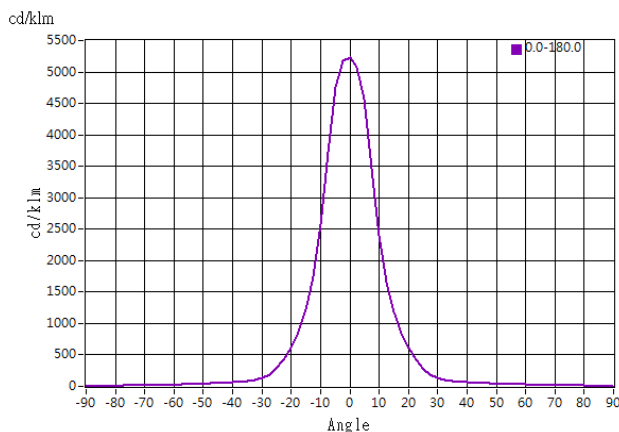




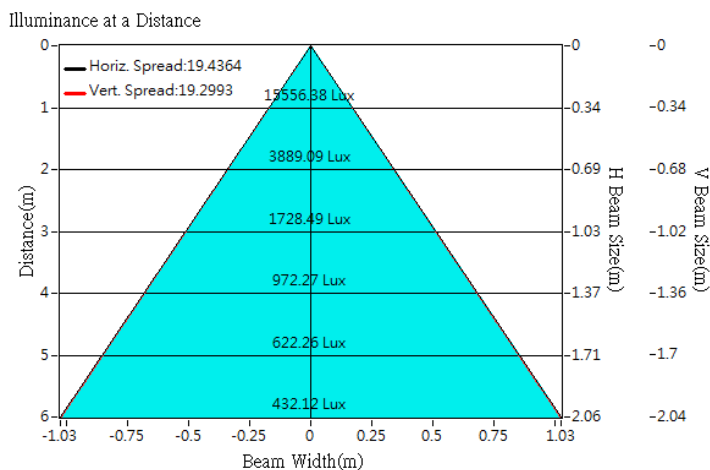
Optical Characteristics

Model Number	CKO-CH17-085047-0501		<p>"H" definition</p> <p>LES CoB</p>
LED	CXB2530		
LES / LED Size	Φ 19 mm		
FWHM (D50)	19°		
Field Angle (D10)	42°		
H (distance)	3.65mm		
Dimension	Φ =85 mm, Thickness=46.9 mm		
Luminous Flux	2977 lm	Measured @ 28.1 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

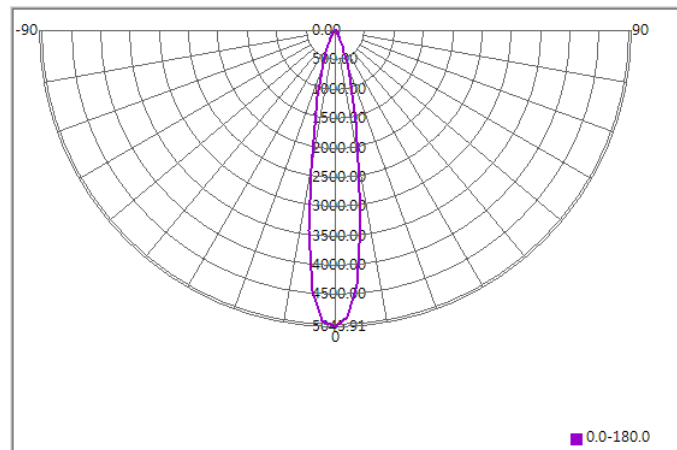




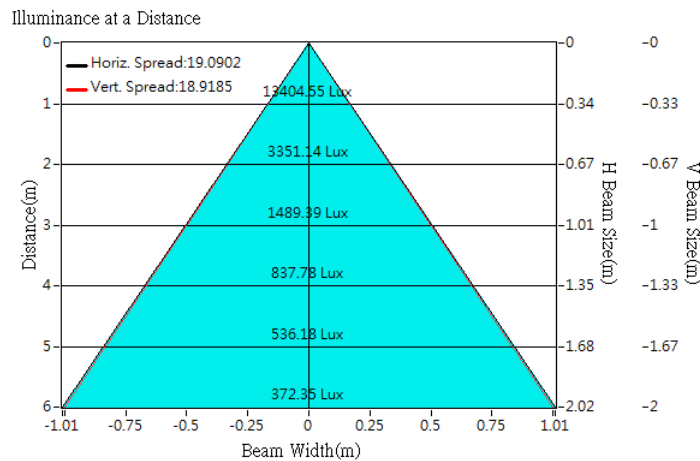
Optical Characteristics

Model Number	CKO-CH17-085047-0501		<p>"H" definition</p>
LED	CXA2540		
LES / LED Size	Φ 19 mm		
FWHM (D50)	19°		
Field Angle (D10)	42°		
H (distance)	3.65mm		
Dimension	Φ =85 mm, Thickness=46.9 mm		
Luminous Flux	2656 lm	Measured @ 40 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

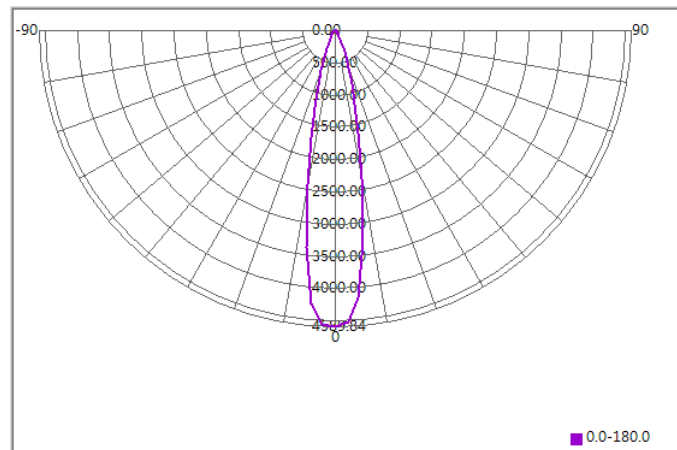




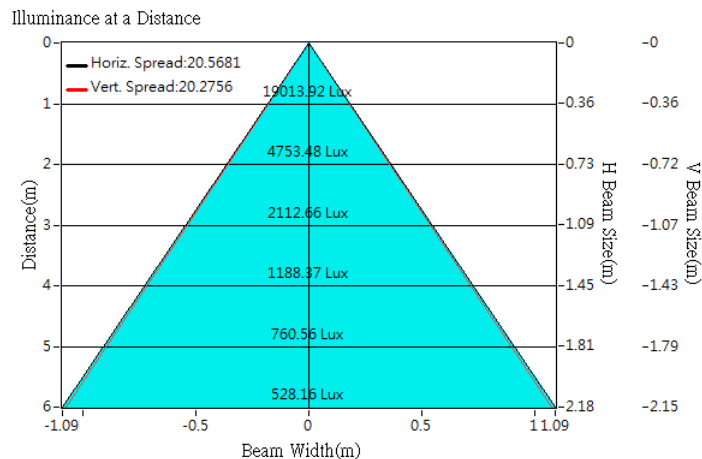
Optical Characteristics

Model Number	CKO-CH17-085047-0501		<p>"H" definition</p>
LED	CXB2540		
LES / LED Size	Φ 19 mm		
FWHM (D50)	21°		
Field Angle (D10)	44°		
H (distance)	3.65mm		
Dimension	Φ =85 mm, Thickness=46.9 mm		
Luminous Flux	4142 lm	Measured @ 38.4 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

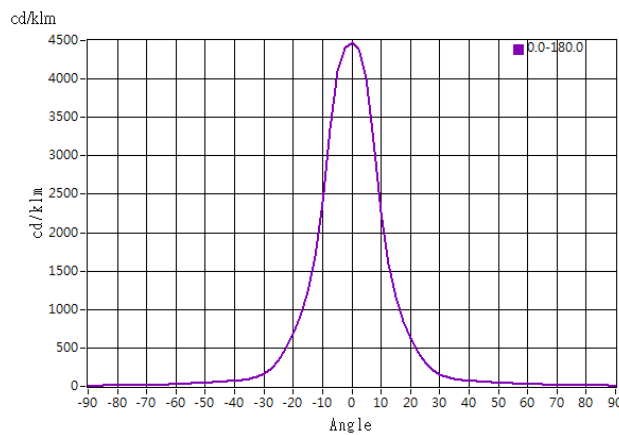




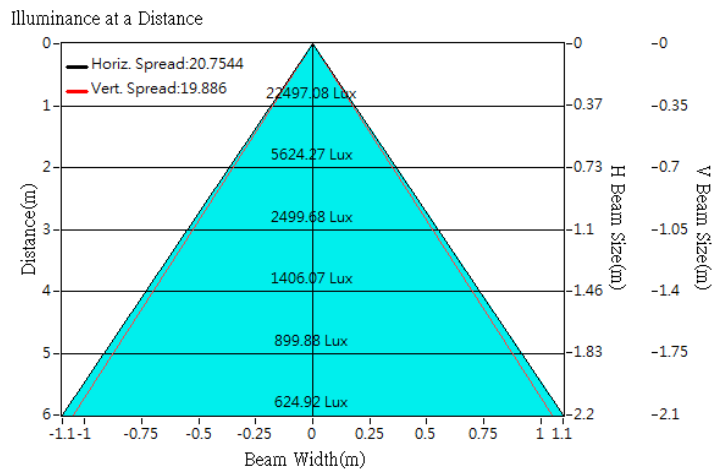
Optical Characteristics

Model Number	CKO-CH17-085047-0501		<p>"H" definition</p>
LED	CMA2550		
LES / LED Size	Φ 19 mm		
FWHM (D50)	21°		
Field Angle (D10)	46°		
H (distance)	3.65mm		
Dimension	Φ =85 mm, Thickness=46.9 mm		
Luminous Flux	5038 lm	Measured @ 42.4 W	
Material	PC / UL94V2		

cd/klm

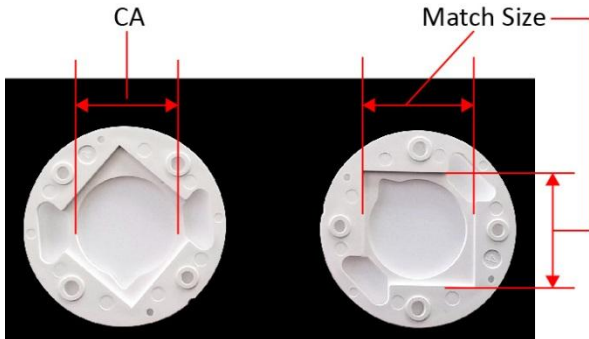


Illuminance At Distances





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