



Product Model Number

CKO-CH15-085040-5003

✓ 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)

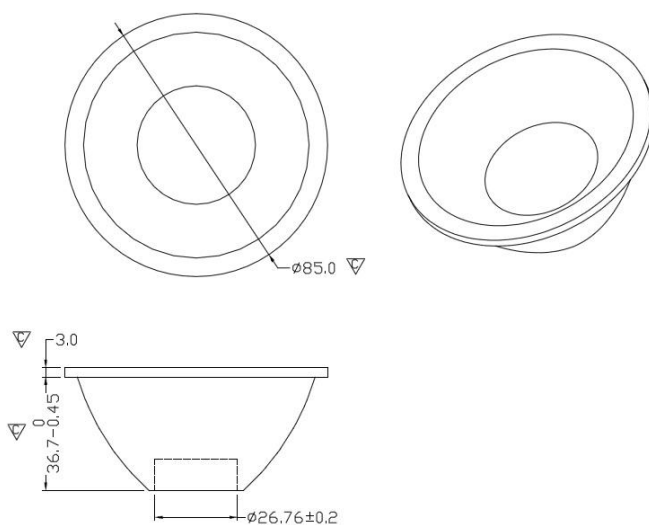


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation
Ex:
CH→CoB High Intensity
CC→CoB Compact
CS→Soft Shading for CoB LED
HC→Holder for CoB LED

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

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

✓ Dimensions (mm) : Φ85 x 39.7



▽:Critical Dimension



✓ **Optical Characteristics – Angle Performances**

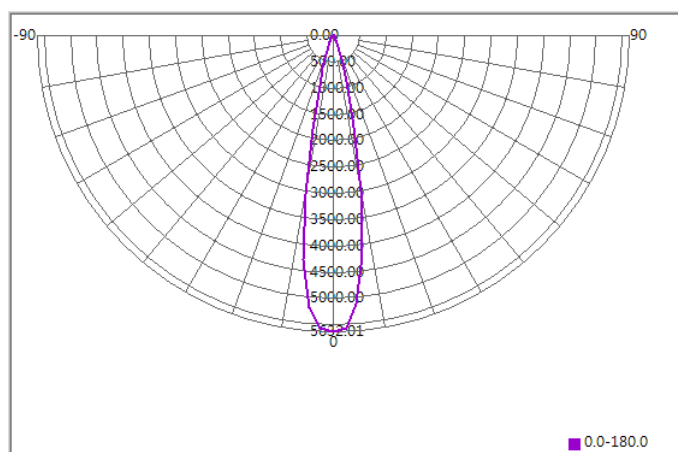
CREE	LED LES (mm)	FWHM (degrees)	Field Angle (degrees)
CMT1412	Φ9.8	21°	37°
CXA1816	Φ12	23°	43°
CXB1816	Φ12	22°	40°
CXA1820	Φ12	22°	41°
CXB1820	Φ12	22°	40°
CMA1825	Φ12	22°	40°
CXA1830	Φ14	23°	43°
CXB1830	Φ14	23°	43°
CMA1840	Φ14	24°	45°
CMT1922	Φ14.5	24°	46°
CMT1925	Φ14.5	24°	45°
CMT1930	Φ14.5	23°	44°
CXA2520	Φ19	26°	51°
CXA2530	Φ19	26°	51°
CXB2530	Φ19	27°	51°
CXB2540	Φ19	27°	52°



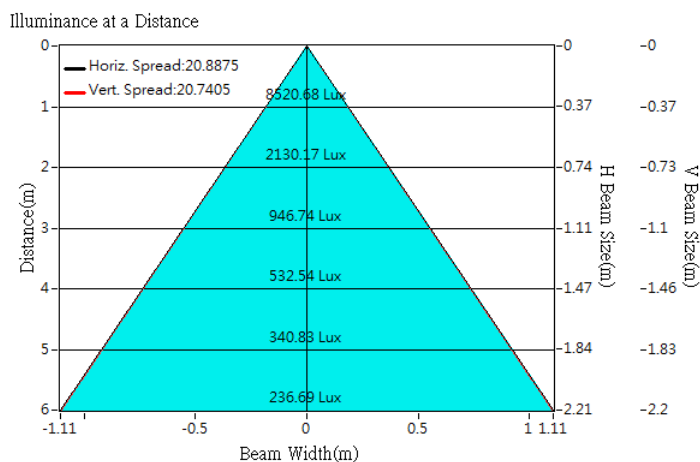
Optical Characteristics

Model Number	CKO-CH15-085040-5003		“H” definition 
LED	CMT1412		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	21°		
Field Angle (D10)	37°		
H (distance)	3.65 mm		
Dimension	Φ =85 mm, Thickness=39.7 mm		
Luminous Flux	1513 lm	Measured @ 12.2 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

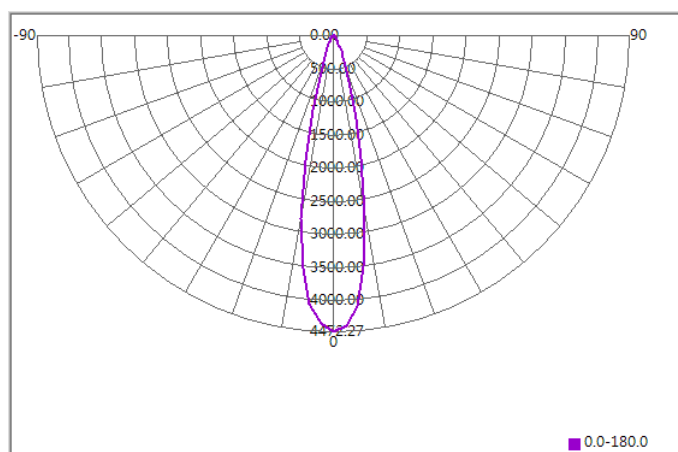




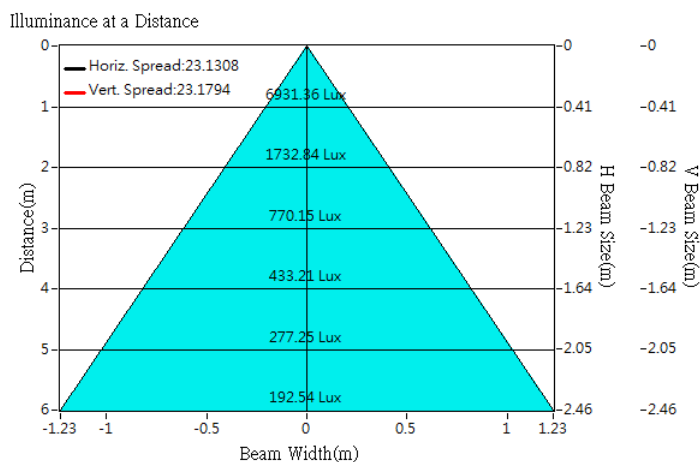
Optical Characteristics

Model Number	CKO-CH15-085040-5003		
LED	CXA1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	23°		
Field Angle (D10)	43°		
H (distance)	3.65 mm		
Dimension	Φ =85 mm, Thickness=39.7 mm		
Luminous Flux	1549 lm	Measured @ 16.6 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

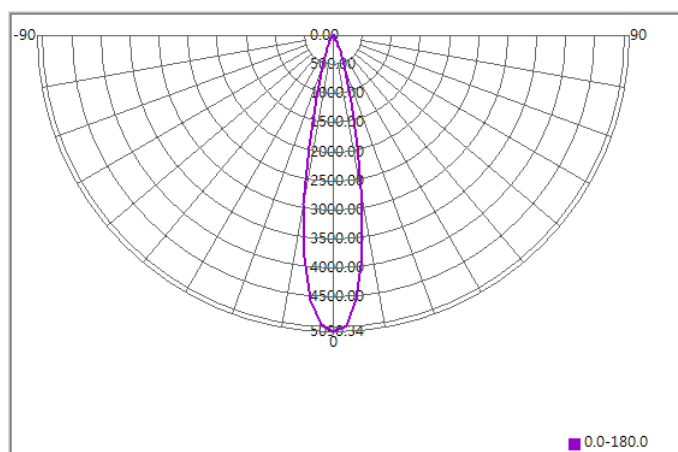




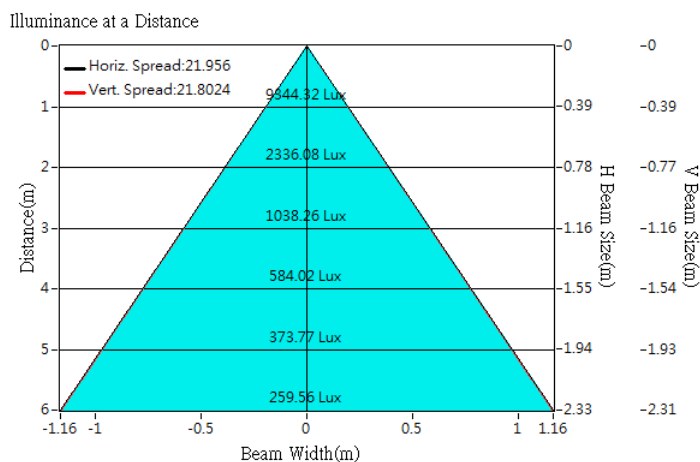
Optical Characteristics

Model Number	CKO-CH15-085040-5003		
LED	CXB1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	22°		
Field Angle (D10)	40°		
H (distance)	3.65 mm		
Dimension	Φ =85 mm, Thickness=39.7 mm		
Luminous Flux	1835 lm	Measured @ 15.7 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

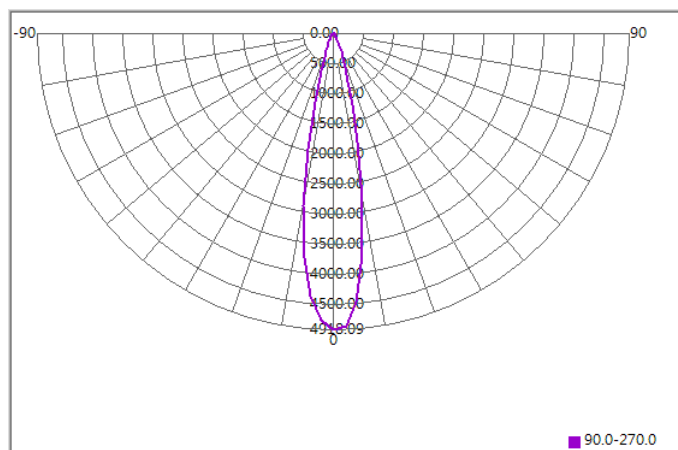




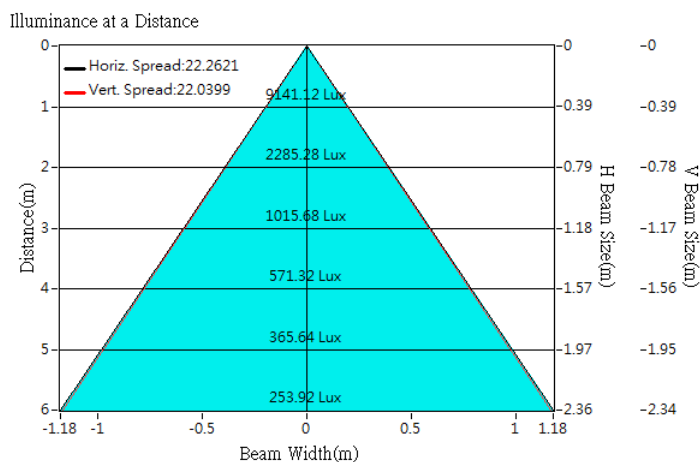
Optical Characteristics

Model Number	CKO-CH15-085040-5003		
LED	CXA1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	22°		
Field Angle (D10)	41°		
H (distance)	3.65 mm		
Dimension	Φ =85 mm, Thickness=39.7 mm		
Luminous Flux	1858 lm	Measured @ 19.7 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

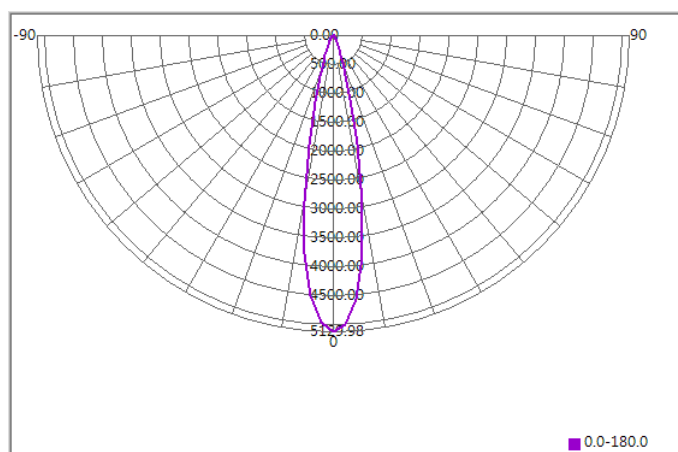




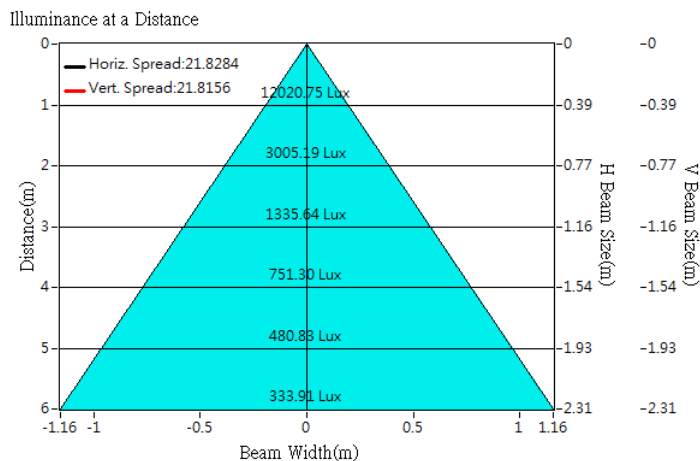
Optical Characteristics

Model Number	CKO-CH15-085040-5003		
LED	CREE CXB1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	22°		
Field Angle (D10)	40°		
H (distance)	3.65 mm		
Dimension	Φ =85 mm, Thickness=39.7 mm		
Luminous Flux	2343 lm	Measured @ 19.4 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

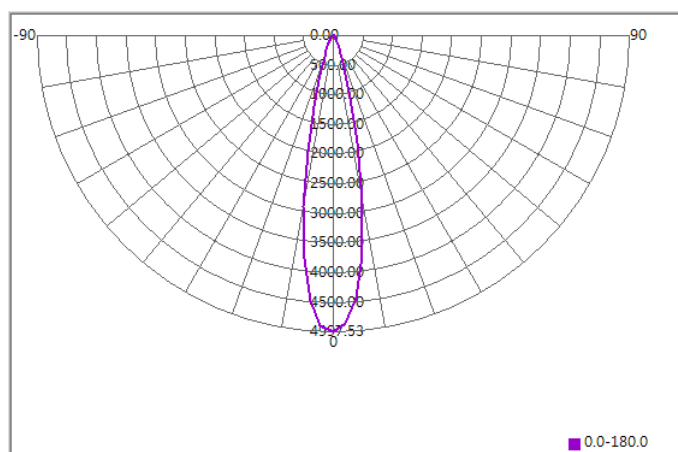




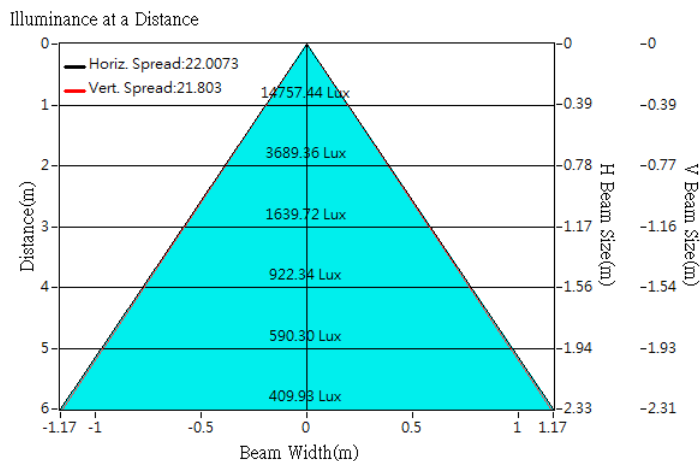
Optical Characteristics

Model Number	CKO-CH15-085040-5003		
LED	CMA1825		
LES / LED Size	Φ 12 mm		
FWHM (D50)	22°		
Field Angle (D10)	40°		
H (distance)	3.65 mm		
Dimension	Φ =85 mm, Thickness=39.7 mm		
Luminous Flux	2952 lm	Measured @ 24.6 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

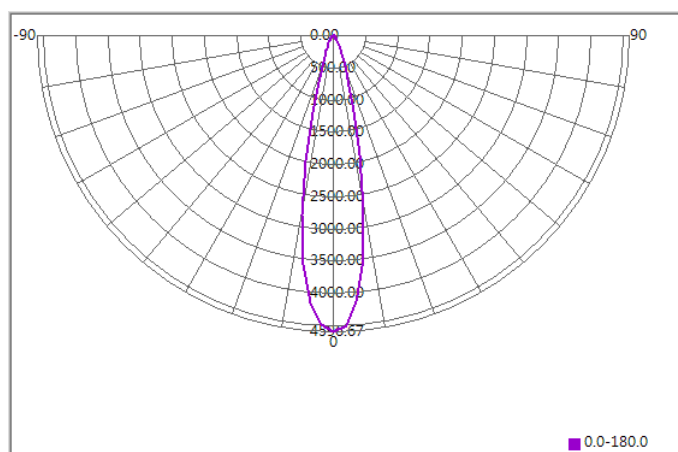




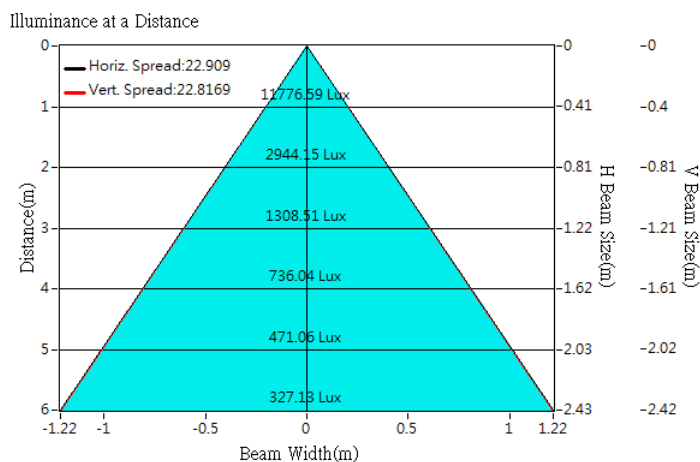
Optical Characteristics

Model Number	CKO-CH15-085040-5003		
LED	CXA1830		
LES / LED Size	Φ 14 mm		
FWHM (D50)	23°		
Field Angle (D10)	43°		
H (distance)	3.65 mm		
Dimension	Φ =85 mm, Thickness=39.7 mm		
Luminous Flux	2561 lm	Measured @ 29.9 W	
Material	PC / UL94V2		

cd/klm

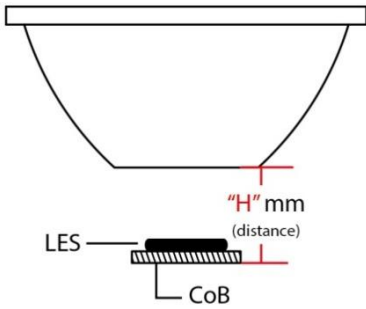


Illuminance At Distances

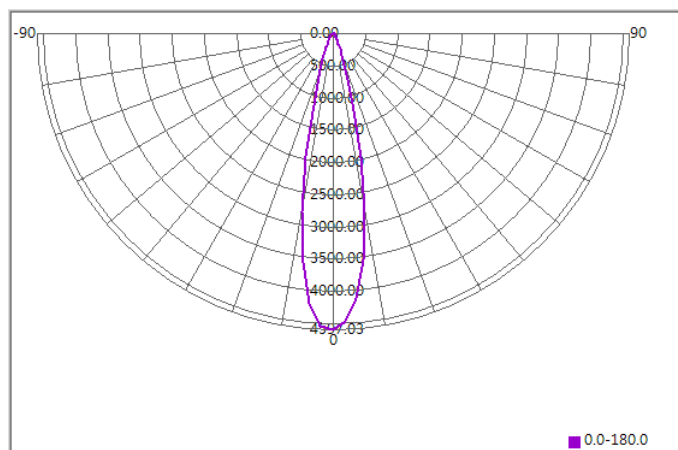




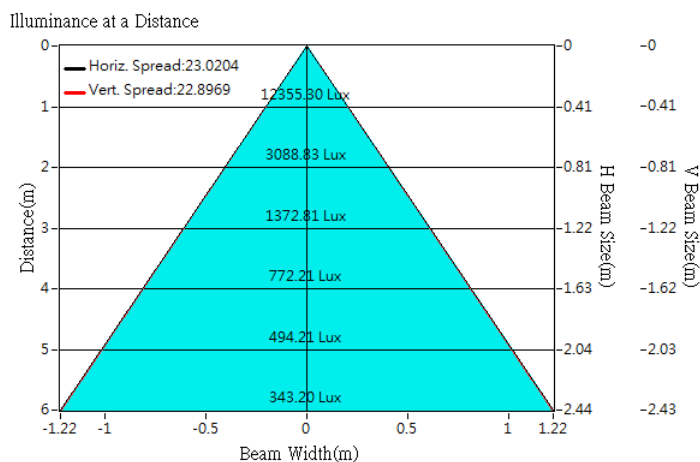
Optical Characteristics

Model Number	CKO-CH15-085040-5003		
LED	CREE CXB1830		
LES / LED Size	Φ 14 mm		
FWHM (D50)	23°		
Field Angle (D10)	43°		
H (distance)	3.65 mm		
Dimension	Φ =85 mm, Thickness=39.7 mm		
Luminous Flux	2687 lm	Measured @ 27.7 W	
Material	PC / UL94V2		

cd/klm

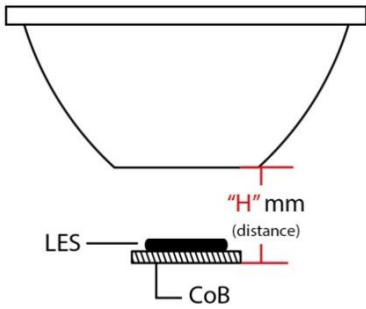


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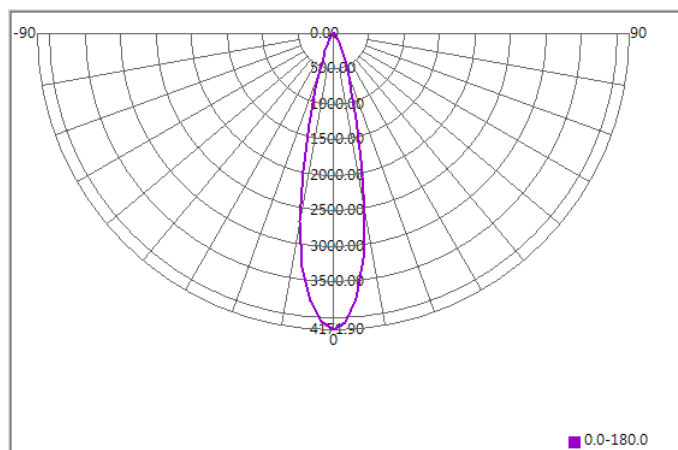




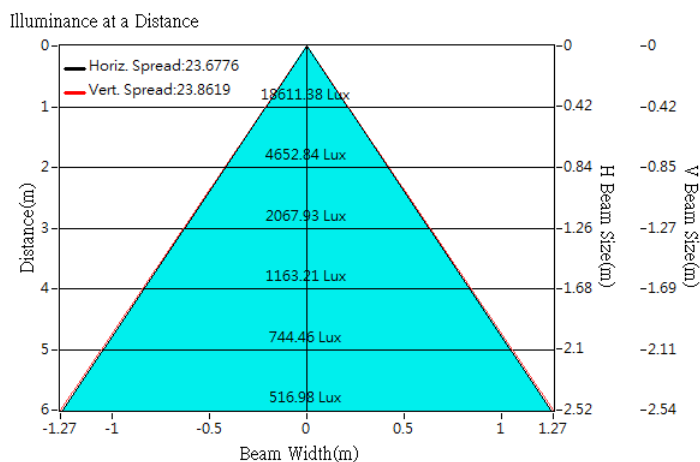
Optical Characteristics

Model Number	CKO-CH15-085040-5003		
LED	CMA1840		
LES / LED Size	Φ 14 mm		
FWHM (D50)	24°		
Field Angle (D10)	45°		
H (distance)	3.65 mm		
Dimension	Φ =85 mm, Thickness=39.7 mm		
Luminous Flux	4461 lm	Measured @ 38.7 W	
Material	PC / UL94V2		

cd/klm

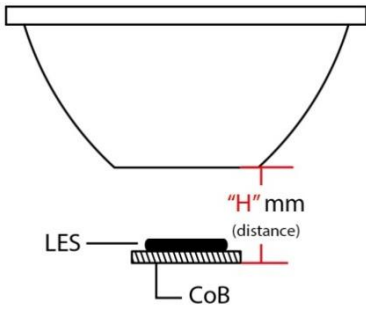


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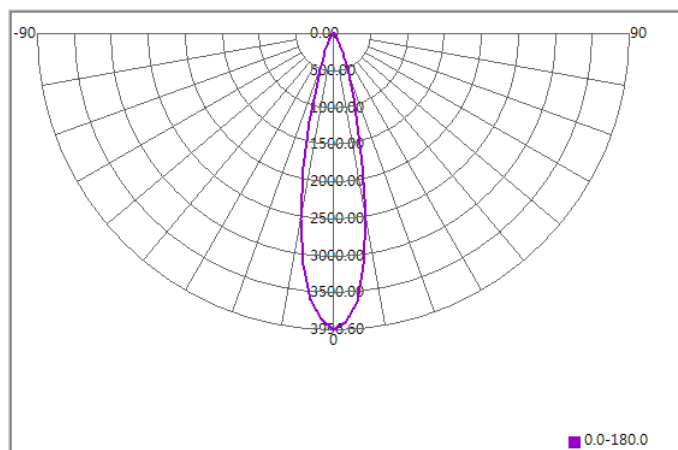




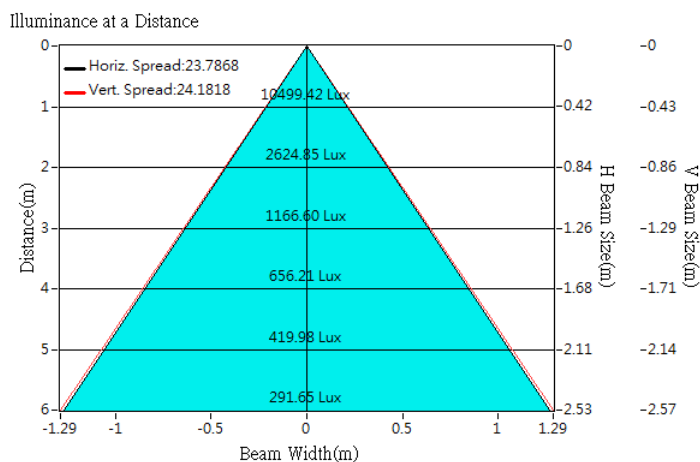
Optical Characteristics

Model Number	CKO-CH15-085040-5003		
LED	CMT1922		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	24°		
Field Angle (D10)	46°		
H (distance)	3.65 mm		
Dimension	Φ =85 mm, Thickness=39.7 mm		
Luminous Flux	2627 lm	Measured @ 21 W	
Material	PC / UL94V2		

cd/klm

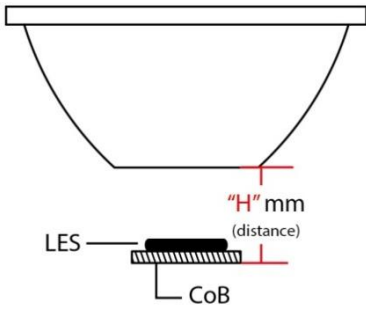


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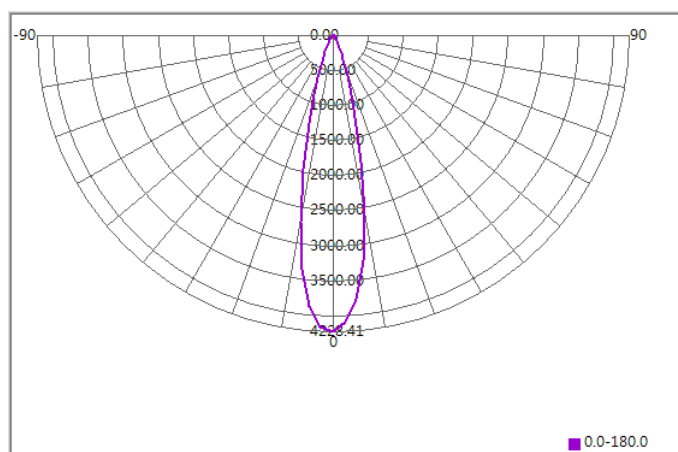




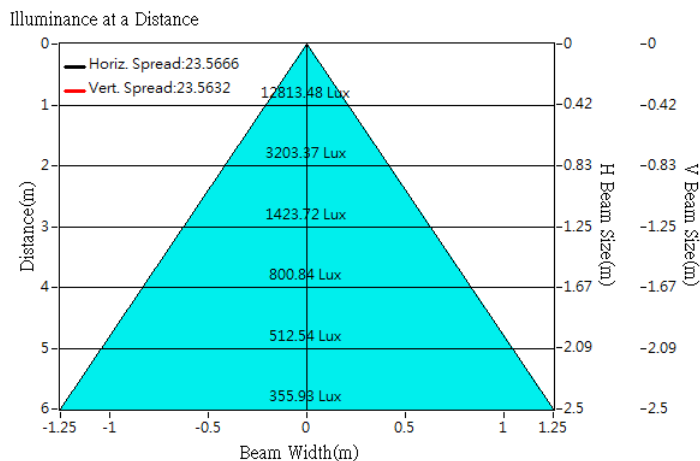
Optical Characteristics

Model Number	CKO-CH15-085040-5003		
LED	CMT1925		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	24°		
Field Angle (D10)	45°		
H (distance)	3.65 mm		
Dimension	Φ =85 mm, Thickness=39.7 mm		
Luminous Flux	3030 lm	Measured @ 24 W	
Material	PC / UL94V2		

cd/klm

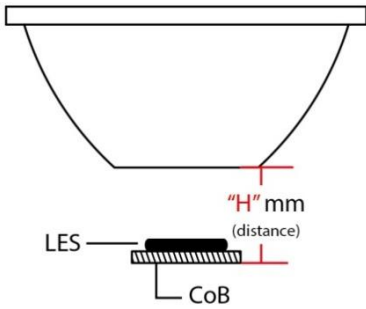


Illuminance At Distances

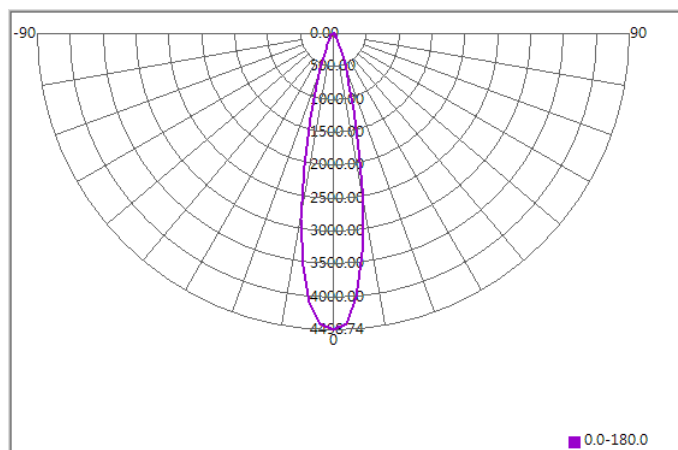




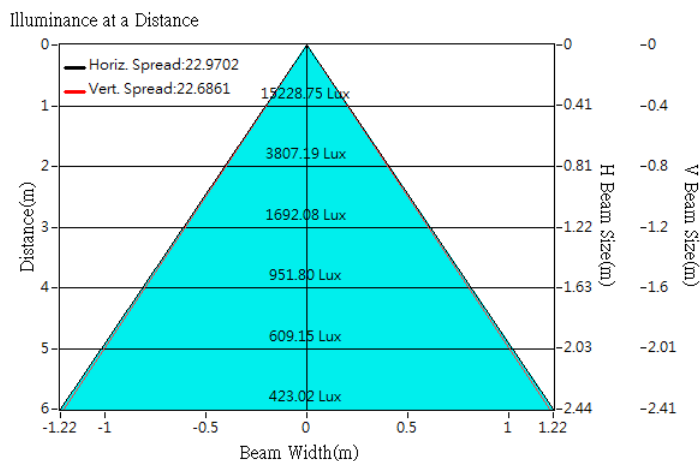
Optical Characteristics

Model Number	CKO-CH15-085040-5003		“H” definition 
LED	CMT1930		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	23°		
Field Angle (D10)	44°		
H (distance)	3.65 mm		
Dimension	Φ =85 mm, Thickness=39.7 mm		
Luminous Flux	3385 lm	Measured @ 28.0 W	
Material	PC / UL94V2		

cd/klm

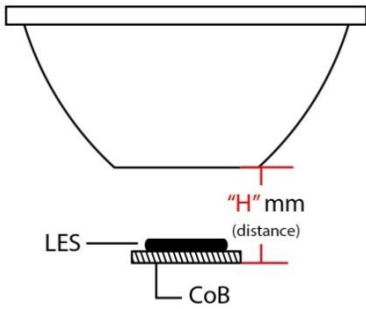


Illuminance At Distances

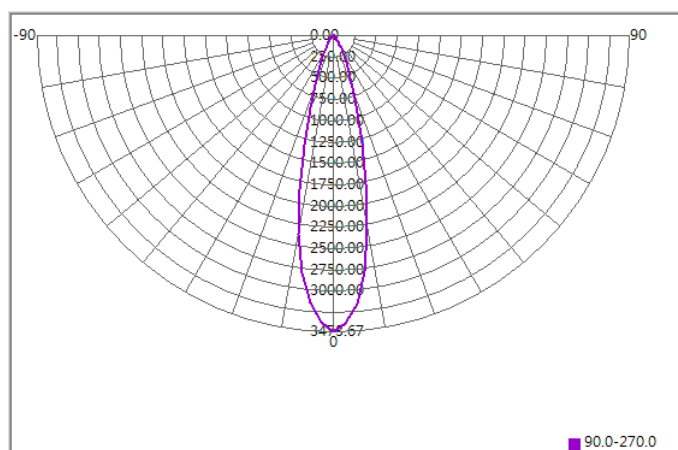




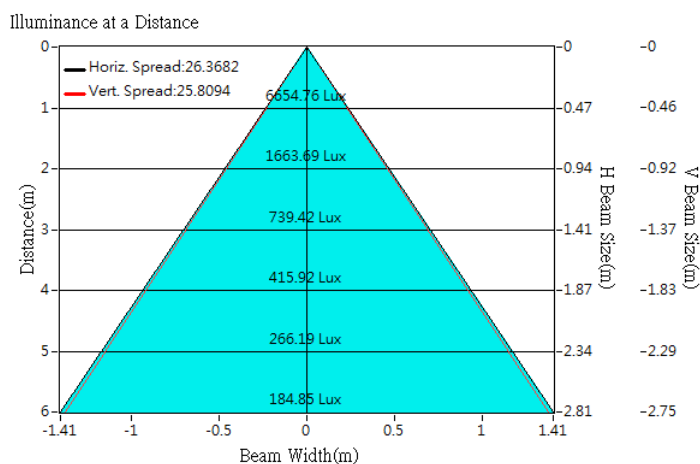
Optical Characteristics

Model Number	CKO-CH15-085040-5003		
LED	CXA2520		
LES / LED Size	Φ 19 mm		
FWHM (D50)	26°		
Field Angle (D10)	51°		
H (distance)	3.65 mm		
Dimension	Φ =85 mm, Thickness=39.7 mm		
Luminous Flux	1915 lm	Measured @ 20.3 W	
Material	PC / UL94V2		

cd/klm

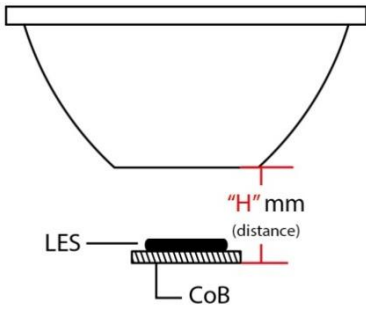


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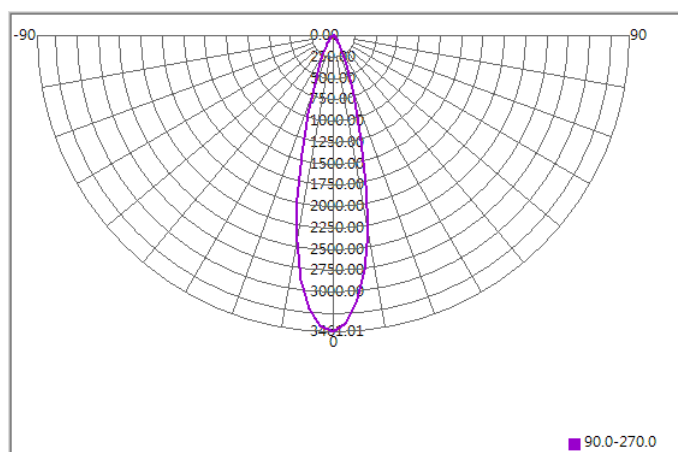




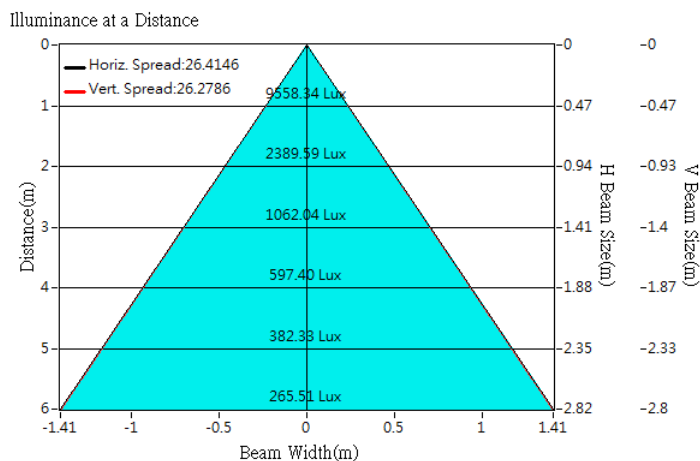
Optical Characteristics

Model Number	CKO-CH15-085040-5003		
LED	CXA2530		
LES / LED Size	Φ 19 mm		
FWHM (D50)	26°		
Field Angle (D10)	51°		
H (distance)	3.65 mm		
Dimension	Φ =85 mm, Thickness=39.7 mm		
Luminous Flux	2761 lm	Measured @ 29.0 W	
Material	PC / UL94V2		

cd/klm

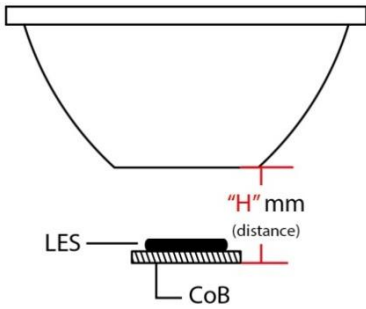


Illuminance At Distances

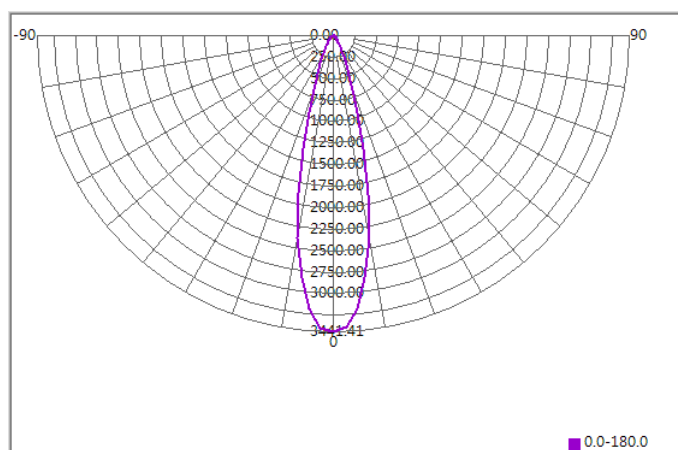




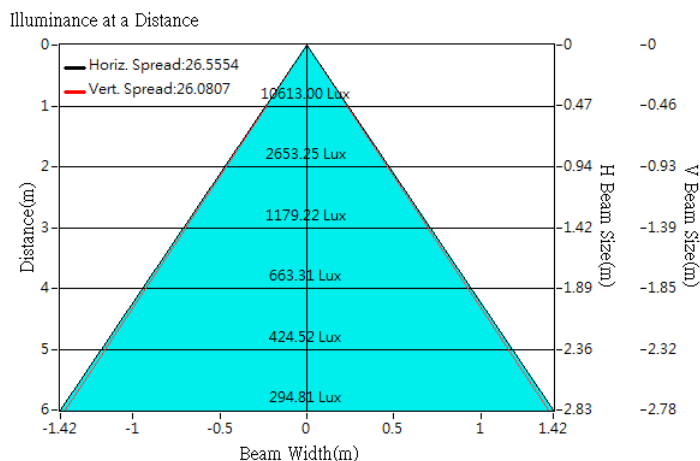
Optical Characteristics

Model Number	CKO-CH15-085040-5003		“H” definition 
LED	CREE CXB2530		
LES / LED Size	Φ 19 mm		
FWHM (D50)	27°		
Field Angle (D10)	51°		
H (distance)	3.65 mm		
Dimension	Φ =85 mm, Thickness=39.7 mm		
Luminous Flux	3083 lm	Measured @ 27.7 W	
Material	PC / UL94V2		

cd/klm

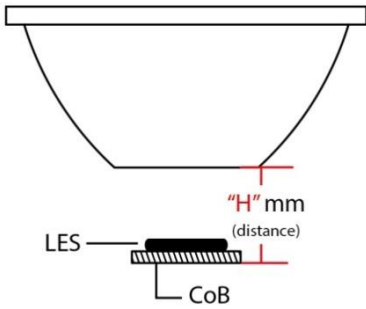


Illuminance At Distances

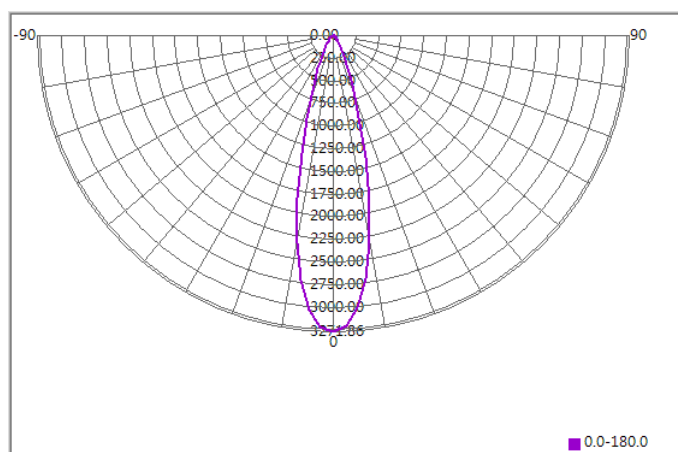




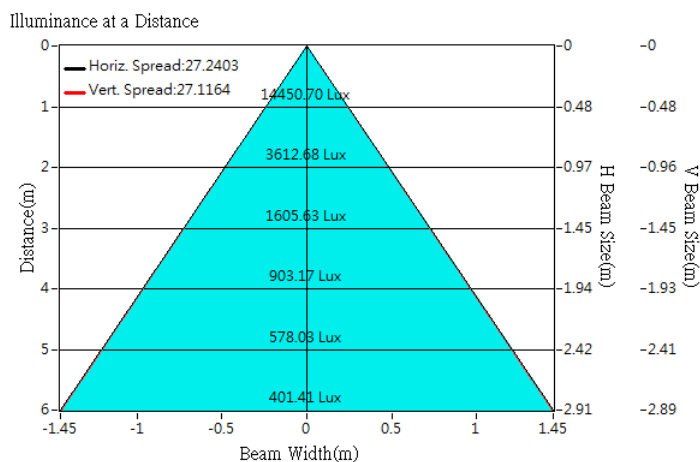
Optical Characteristics

Model Number	CKO-CH15-085040-5003		
LED	CXB2540		
LES / LED Size	Φ 19 mm		
FWHM (D50)	27°		
Field Angle (D10)	52°		
H (distance)	3.65 mm		
Dimension	Φ =85 mm, Thickness=39.7 mm		
Luminous Flux	4416 lm	Measured @ 37.9 W	
Material	PC / UL94V2		

cd/klm

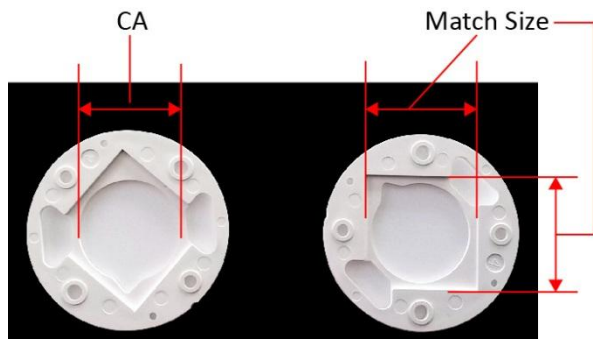


Illuminance At Distances





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