



Product Model Number

CKO-CH15-110058-3901

✓ 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)

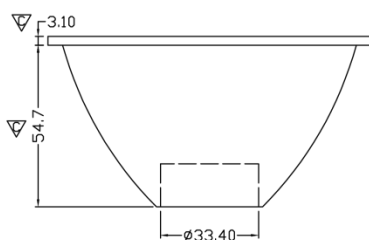
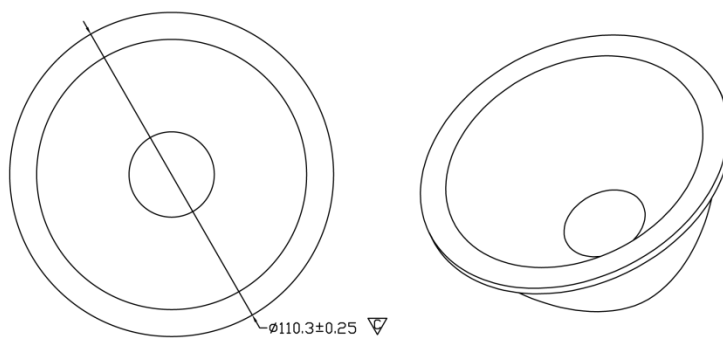


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation
Ex:
CH→CoB High Intensity
CC→CoB Compact
CS→Soft Shading for CoB LED
HC→Holder for CoB LED

- 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) : Φ110 x 58



▽:Critical Dimension

Chun Kuang Optics Corp.

2022/7/13

5F.,No. 122-8, Jhonghua Rd, Hukou Township, Hsinchu County 303 , Taiwan
TEL : +886-3-6960168 / FAX : +886-3-6960228 / E-mail: sales@ckoptics.com

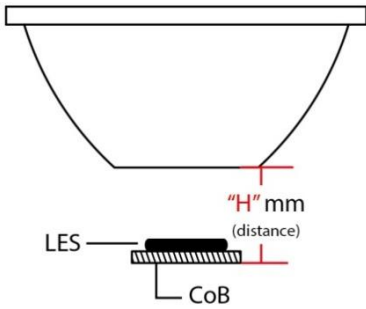


✓ **Optical Characteristics – Angle Performances**

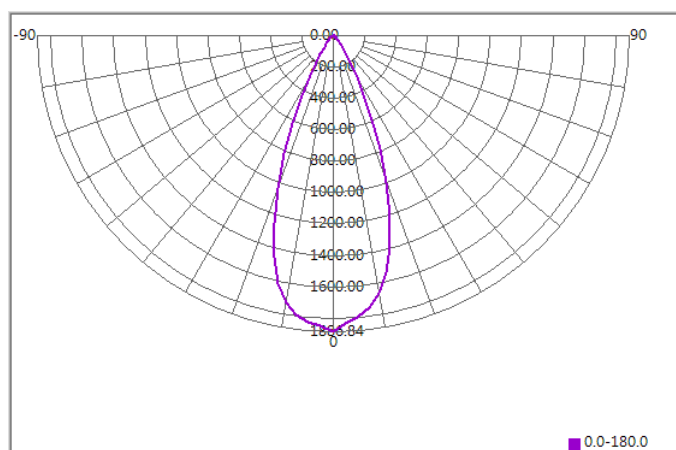
CREE	LED LES (mm)	FWHM (degrees)	Field Angle (degrees)
CXA1820	Φ12	41°	66°
CXB1820	Φ12	41°	68°
CMA1825	Φ12	43°	71°
CXA1830	Φ14	43°	70°
CXB1830	Φ14	45°	73°
CMA1840	Φ14	43°	71°
CMT1922	Φ14.5	42°	69°
CMT1925	Φ14.5	40°	68°
CMT1930	Φ14.5	42°	69°
CMT1945	Φ14.5	42°	70°
CXA2520	Φ19	45°	73°
CXA2530	Φ19	44°	73°
CXB2530	Φ19	44°	73°
CXA2540	Φ19	44°	72°
CXB2540	Φ19	43°	71°
CMA2550	Φ19	44°	73°
CMT2850	Φ22	44°	73°
CMT2890	Φ22	44°	74°
CXA3050	Φ23	46°	75°
CXB3050	Φ23	46°	77°
CXA3070	Φ23	45°	75°
CMA3090	Φ23	46°	76°



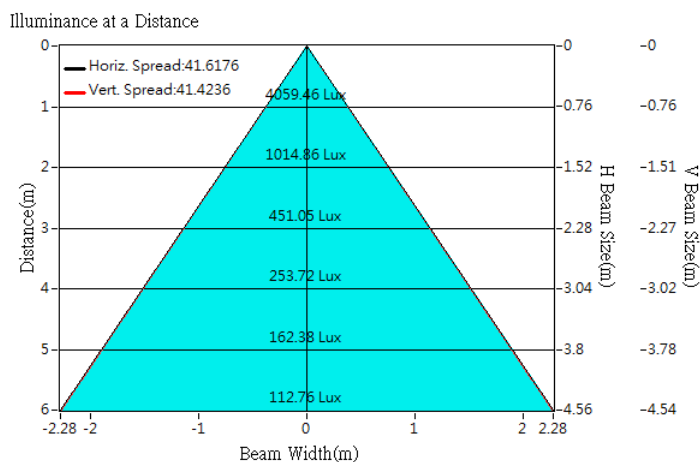
Optical Characteristics

Model Number	CKO-CH15-110058-3901		
LED	CXA1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	41°		
Field Angle (D10)	66°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	2151 lm	Measured @ 20.7 W	
Material	PC / UL94V2		

cd/klm

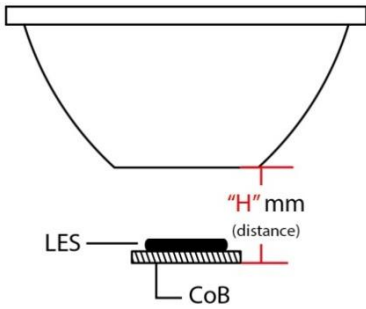


Illuminance At Distances

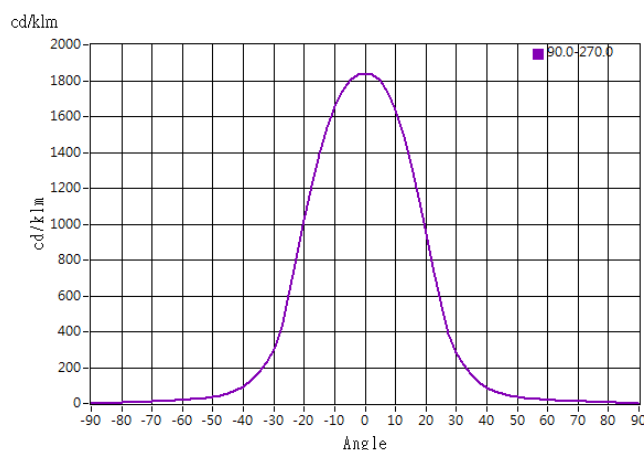




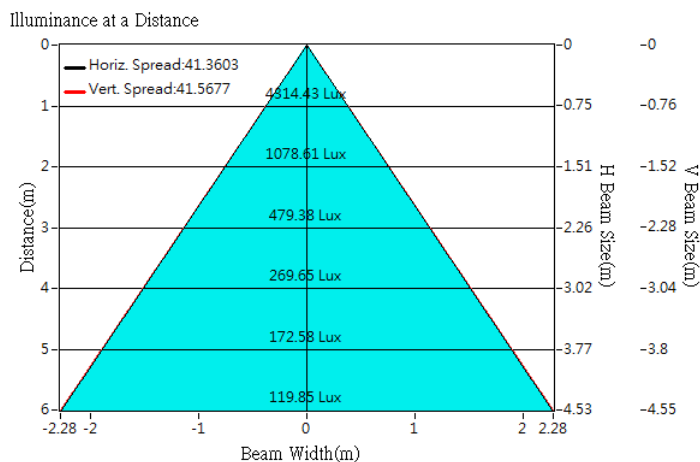
Optical Characteristics

Model Number	CKO-CH15-110058-3901		"H" definition 
LED	CXB1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	41°		
Field Angle (D10)	68°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	2349 lm	Measured @ 19.4 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

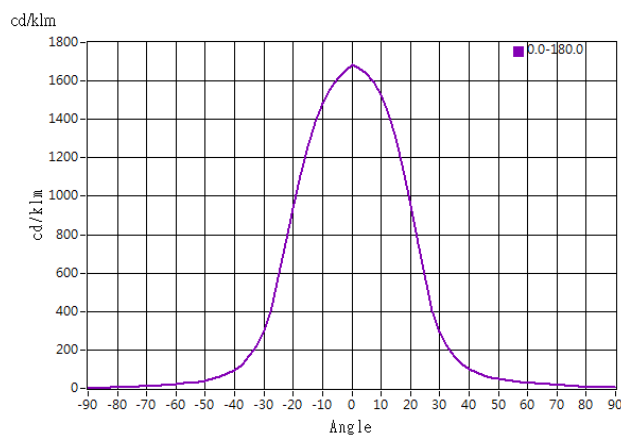




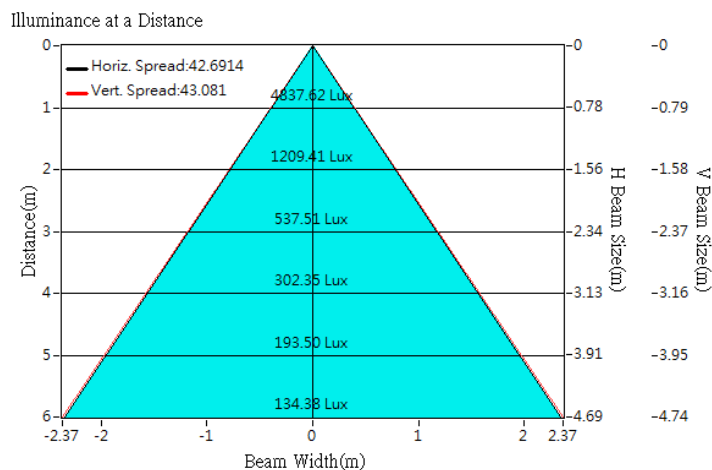
Optical Characteristics

Model Number	CKO-CH15-110058-3901		"H" definition
LED	CMA 1825		
LES / LED Size	Φ 12 mm		
FWHM (D50)	43°		
Field Angle (D10)	71°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	2878 lm	Measured @ 24.9 W	
Material	PC / UL94V2		

cd/klm

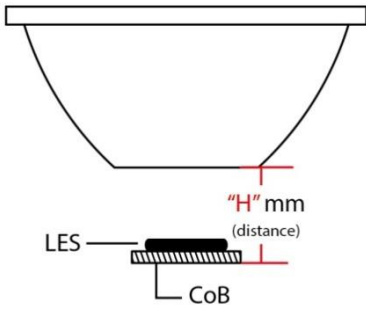


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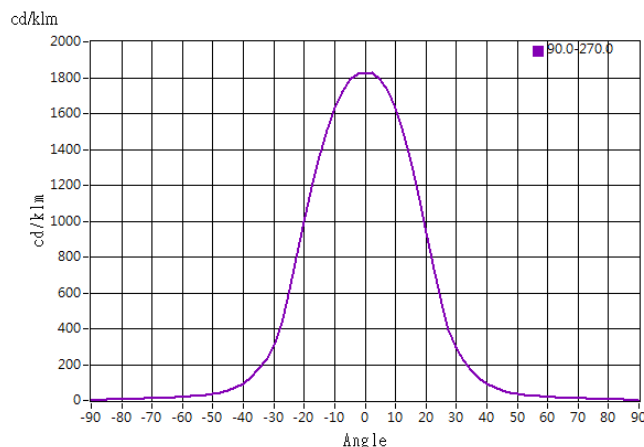




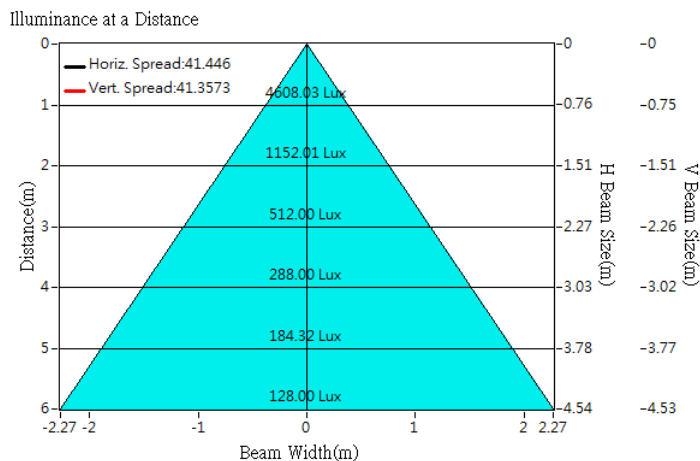
Optical Characteristics

Model Number	CKO-CH15-110058-3901		
LED	CXA1830		
LES / LED Size	Φ 14 mm		
FWHM (D50)	43°		
Field Angle (D10)	70°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	2525 lm	Measured @ 29.9 W	
Material	PC / UL94V2		

cd/klm

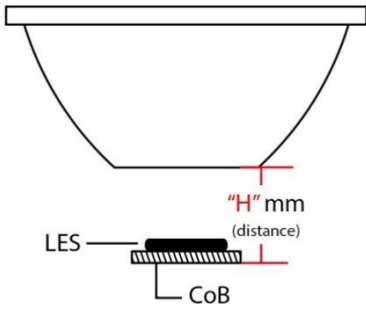


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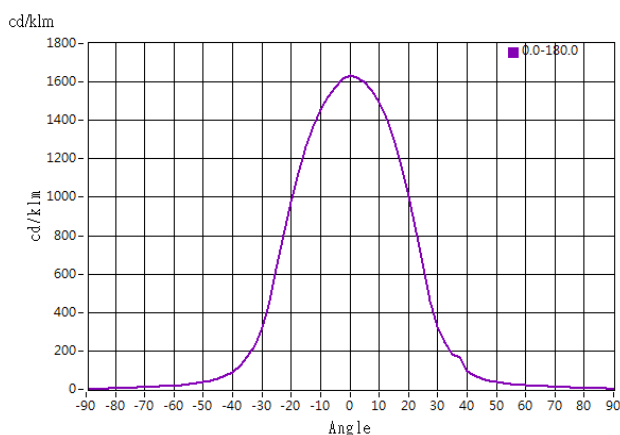




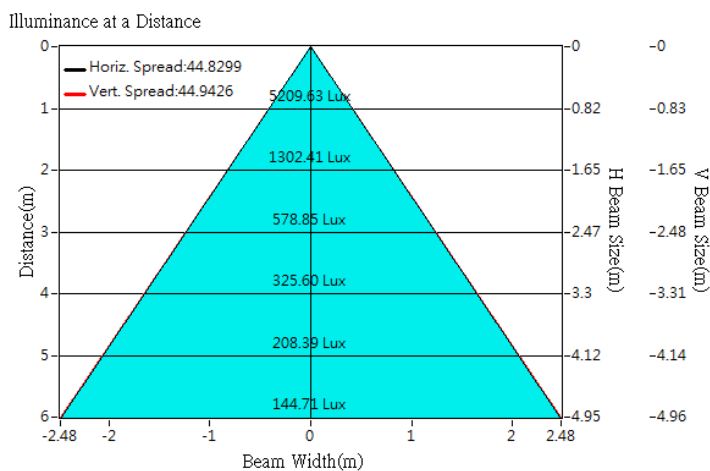
Optical Characteristics

Model Number	CKO-CH15-110058-3901		"H" definition 
LED	CXB 1830		
LES / LED Size	Φ 14 mm		
FWHM (D50)	45°		
Field Angle (D10)	73°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	3192 lm	Measured @ 28.1 W	
Material	PC / UL94V2		

cd/klm

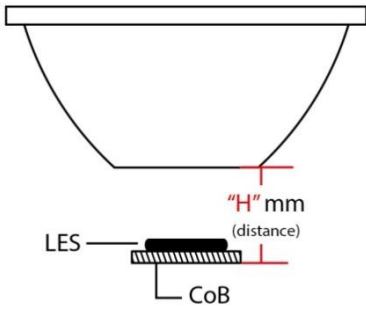


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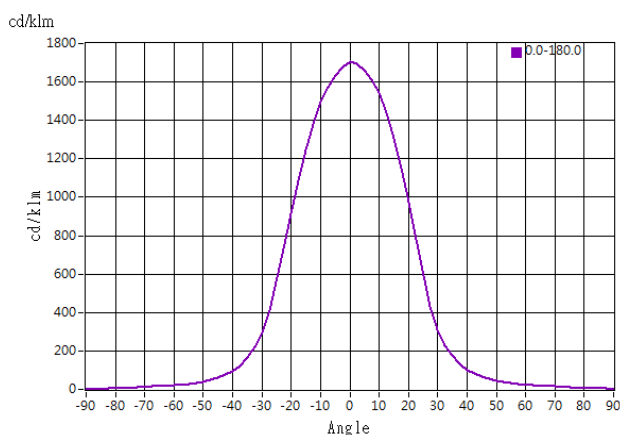




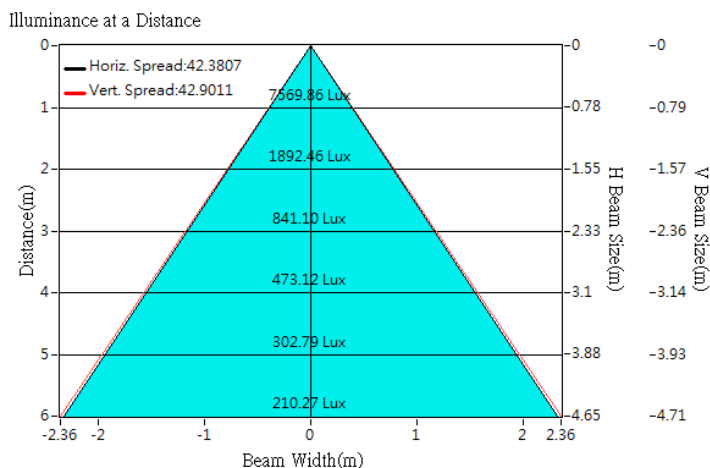
Optical Characteristics

Model Number	CKO-CH15-110058-3901		“H” definition 
LED	CMA 1840		
LES / LED Size	Φ 14 mm		
FWHM (D50)	43°		
Field Angle (D10)	71°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	4435 lm	Measured @ 40 W	
Material	PC / UL94V2		

cd/klm

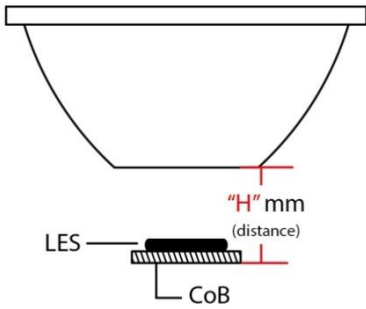


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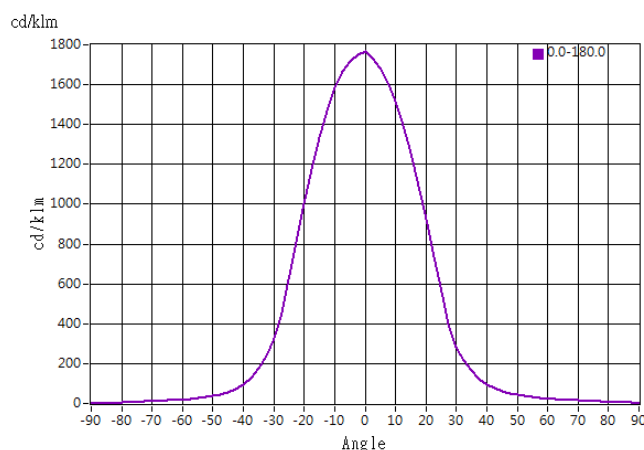




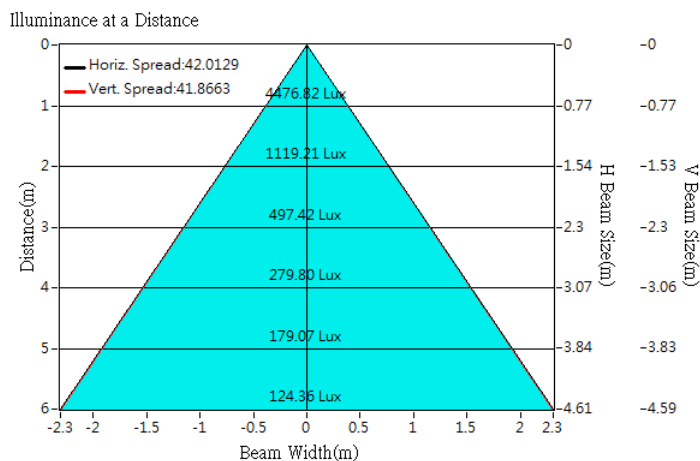
Optical Characteristics

Model Number	CKO-CH15-110058-3901		
LED	CMT1922		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	42°		
Field Angle (D10)	69°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	2531 lm	Measured @ 22 W	
Material	PC / UL94V2		

cd/klm

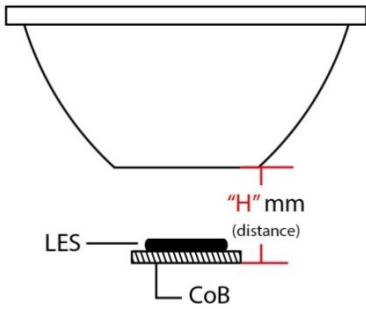


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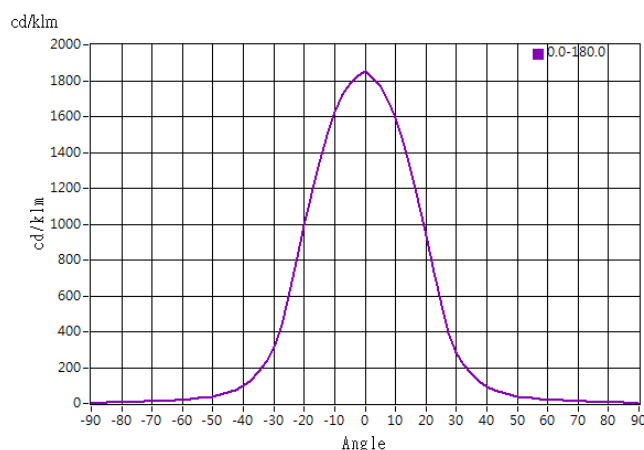




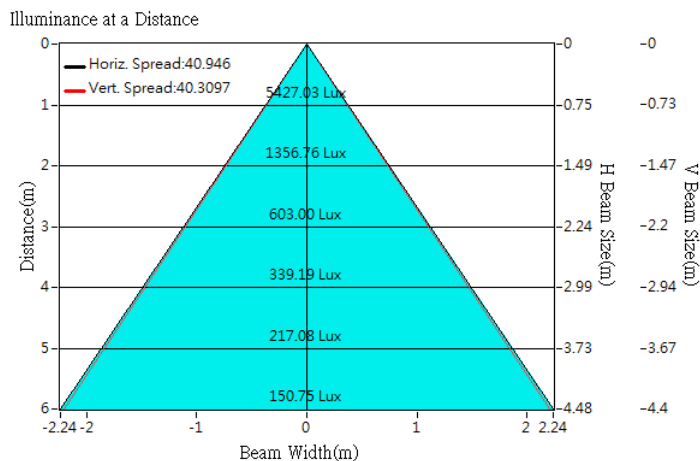
Optical Characteristics

Model Number	CKO-CH15-110058-3901		
LED	CMT1925		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	40°		
Field Angle (D10)	68°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	2934 lm	Measured @ 24.3 W	
Material	PC / UL94V2		

cd/klm

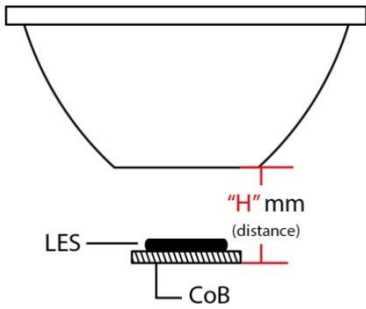


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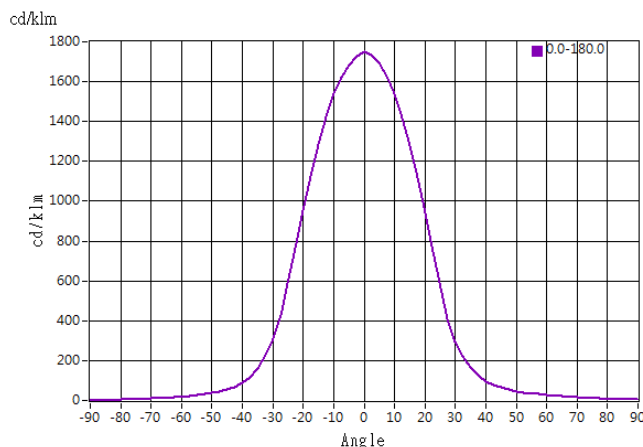




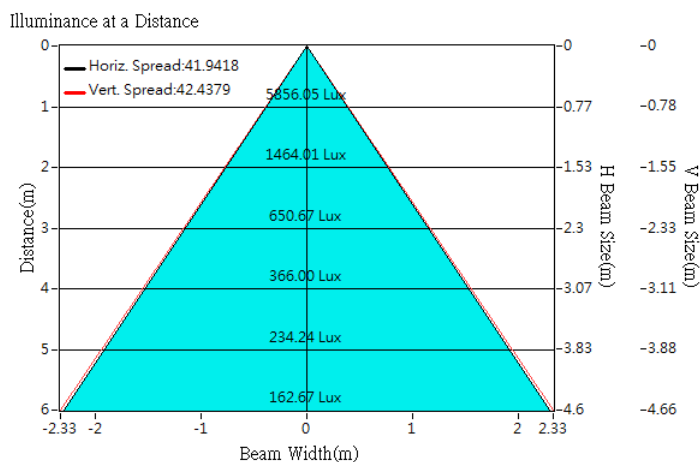
Optical Characteristics

Model Number	CKO-CH15-110058-3901		“H” definition 
LED	CMT1930		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	42°		
Field Angle (D10)	69°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	3351 lm	Measured @ 29.6 W	
Material	PC / UL94V2		

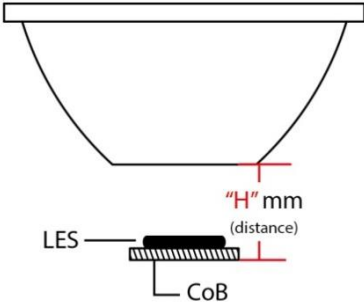
cd/klm



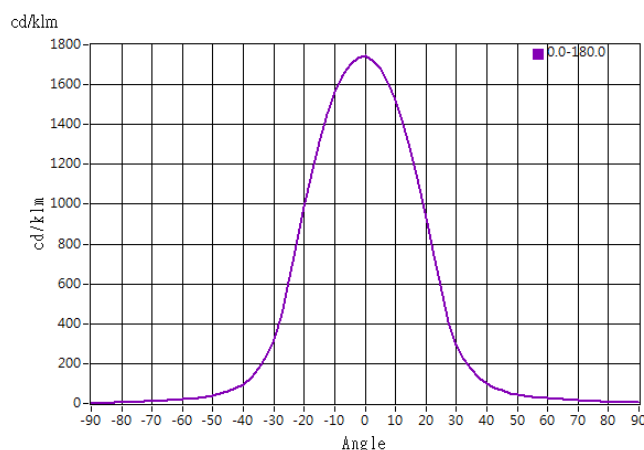
Illuminance At Distances



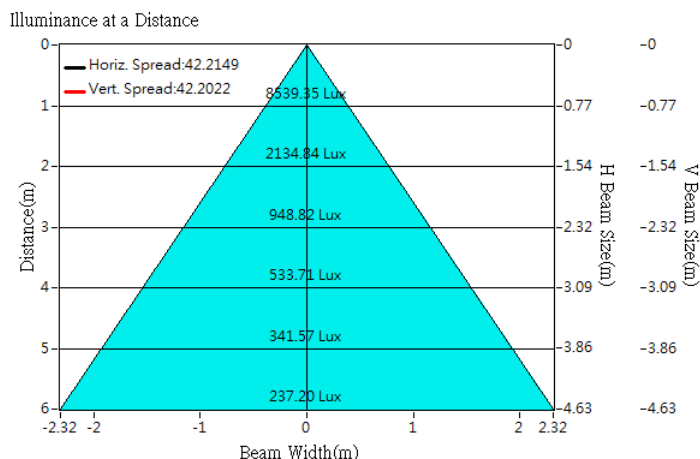
Optical Characteristics

Model Number	CKO-CH15-110058-3901		
LED	CMT1945		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	42°		
Field Angle (D10)	70°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	4898 lm	Measured @ 43.8 W	
Material	PC / UL94V2		

cd/klm

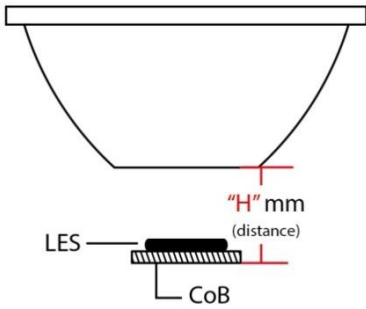


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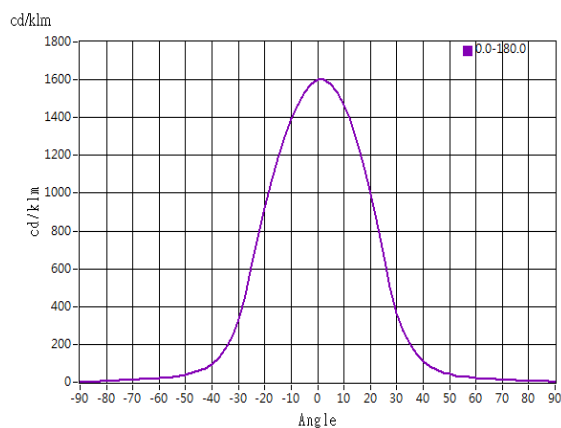




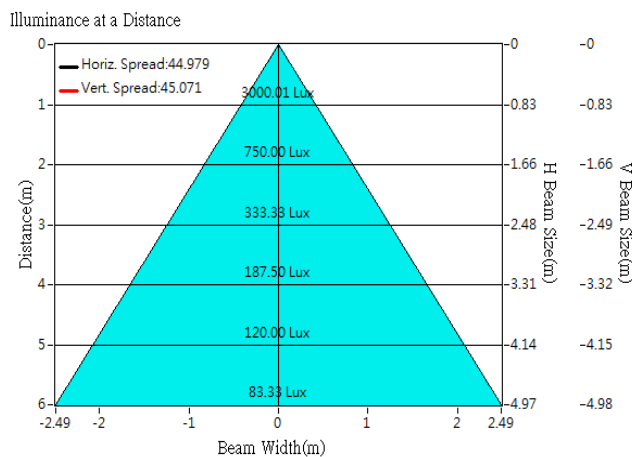
Optical Characteristics

Model Number	CKO-CH15-110058-3901		"H" definition 
LED	CREE CXA2520		
LES / LED Size	Φ 19 mm		
FWHM (D50)	45°		
Field Angle (D10)	73°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	1874 lm	Measured @ 20.0 W	
Material	PC / UL94V2		

cd/klm

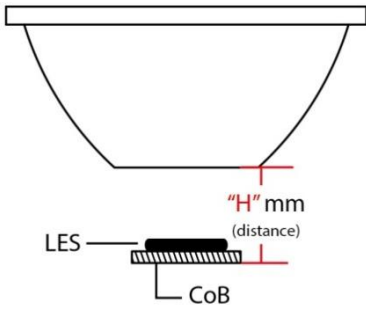


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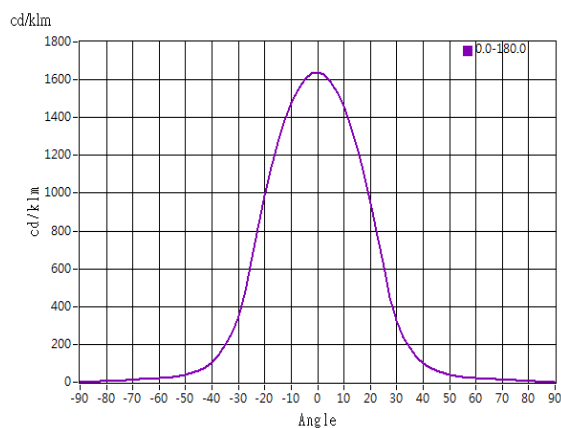




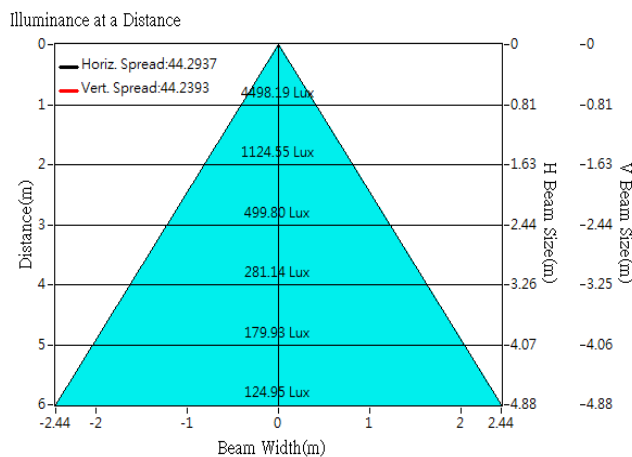
Optical Characteristics

Model Number	CKO-CH15-110058-3901		
LED	CREE CXA2530		
LES / LED Size	Φ 19 mm		
FWHM (D50)	44°		
Field Angle (D10)	73°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	2743 lm	Measured @ 29.5 W	
Material	PC / UL94V2		

cd/klm

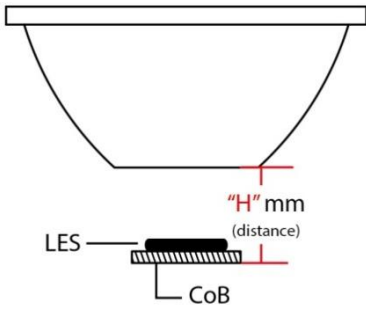


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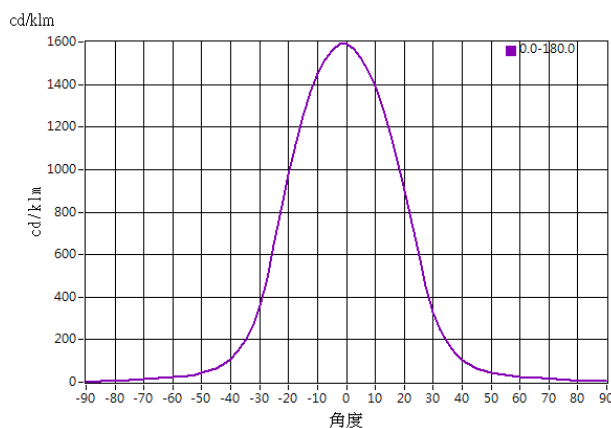




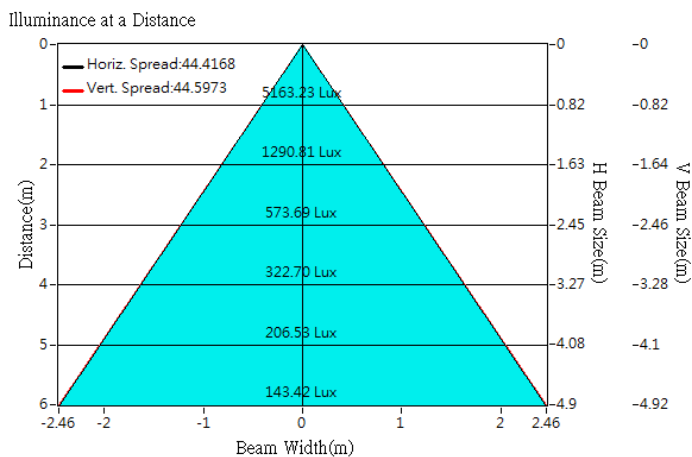
Optical Characteristics

Model Number	CKO-CH15-110058-3901		"H" definition 
LED	CREE CXB2530		
LES / LED Size	Φ 19 mm		
FWHM (D50)	44°		
Field Angle (D10)	73°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	3243 lm	Measured @ 27.5 W	
Material	PC / UL94V2		

cd/klm

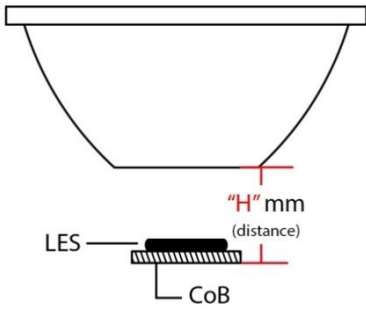


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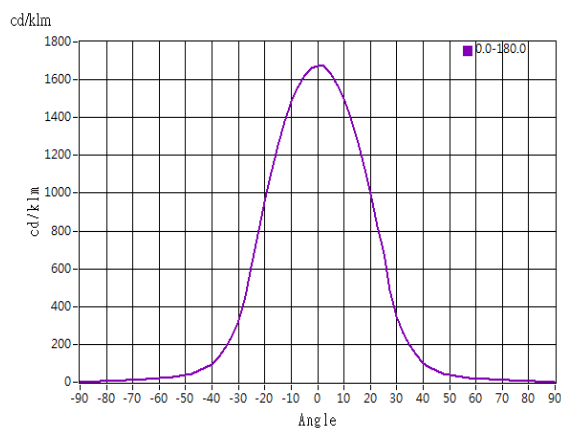




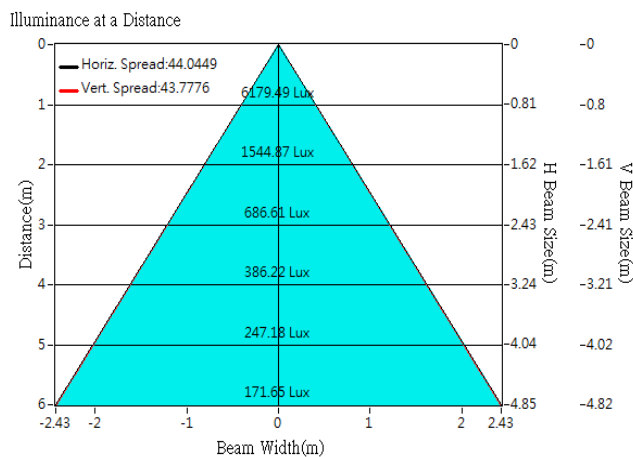
Optical Characteristics

Model Number	CKO-CH15-110058-3901		
LED	CREE CXA2540		
LES / LED Size	Φ 19 mm		
FWHM (D50)	44°		
Field Angle (D10)	72°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	3696 lm	Measured @ 39.7 W	
Material	PC / UL94V2		

cd/klm

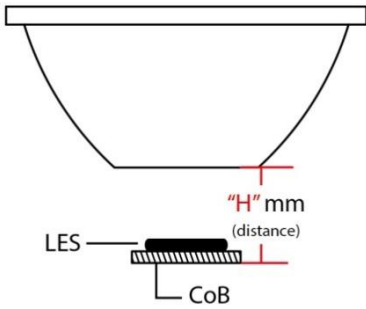


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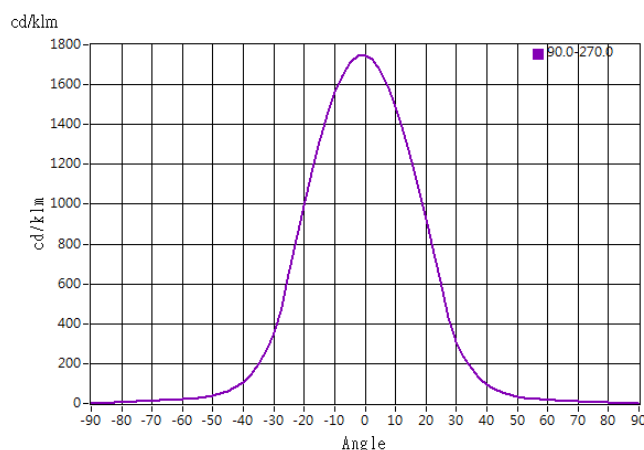




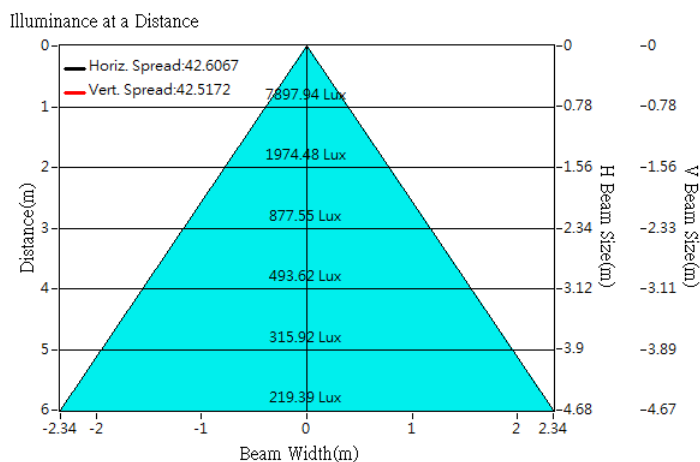
Optical Characteristics

Model Number	CKO-CH15-110058-3901		
LED	CXB2540		
LES / LED Size	Φ 19 mm		
FWHM (D50)	43°		
Field Angle (D10)	71°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	4522 lm	Measured @ 38.5 W	
Material	PC / UL94V2		

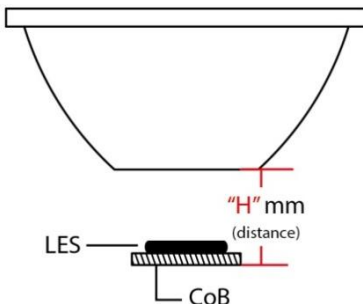
cd/klm



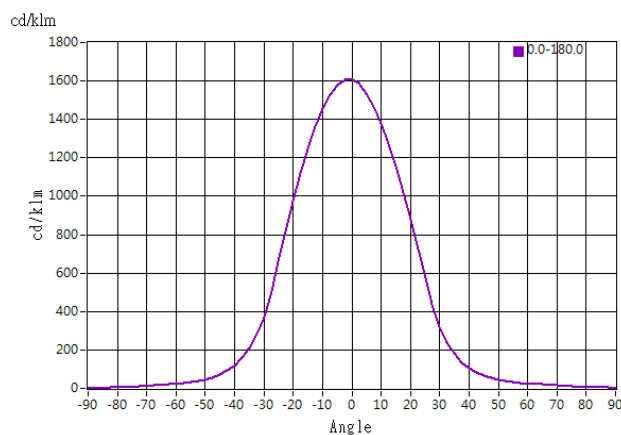
Illuminance At Distances



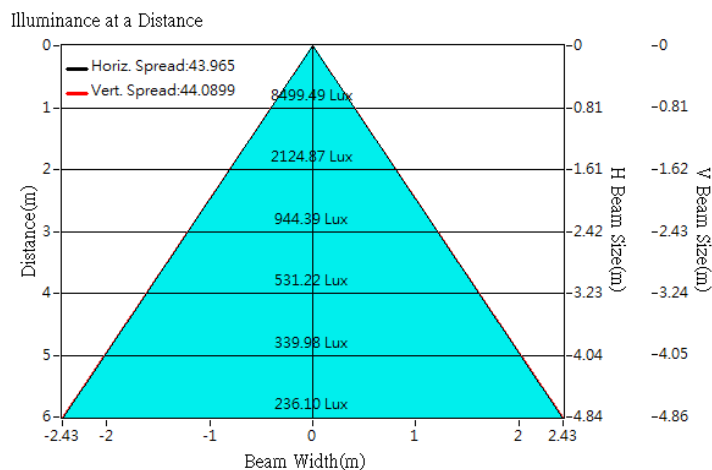
Optical Characteristics

Model Number	CKO-CH15-110058-3901		
LED	CMA 2550		
LES / LED Size	Φ 19 mm		
FWHM (D50)	44°		
Field Angle (D10)	73°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	5289 lm	Measured @ 42.4 W	
Material	PC / UL94V2		

cd/klm

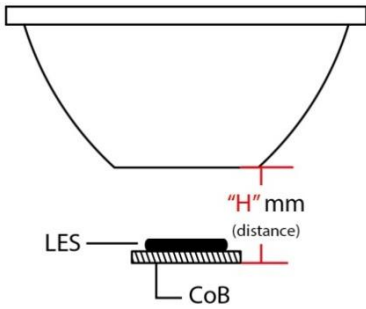


Illuminance At Distances

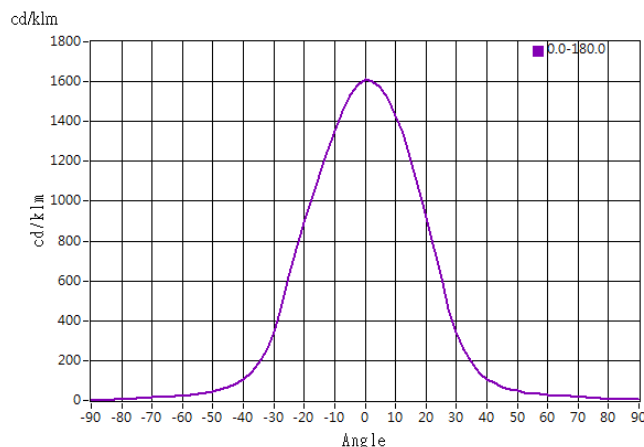




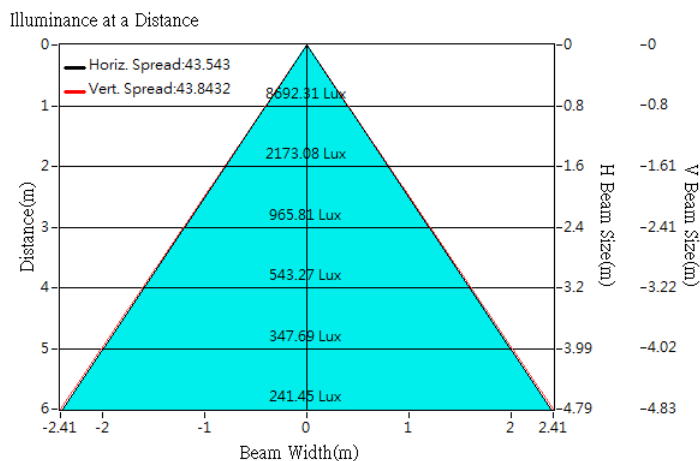
Optical Characteristics

Model Number	CKO-CH15-110058-3901		“H” definition 
LED	CMT2850		
LES / LED Size	Φ 22 mm		
FWHM (D50)	44°		
Field Angle (D10)	73°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	5402 lm	Measured @ 46.3 W	
Material	PC / UL94V2		

cd/klm

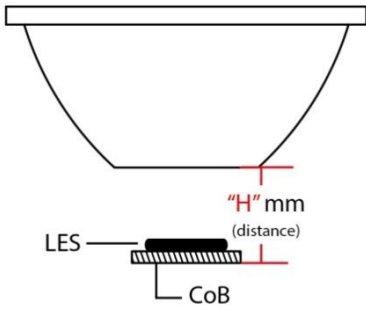


Illuminance At Distances

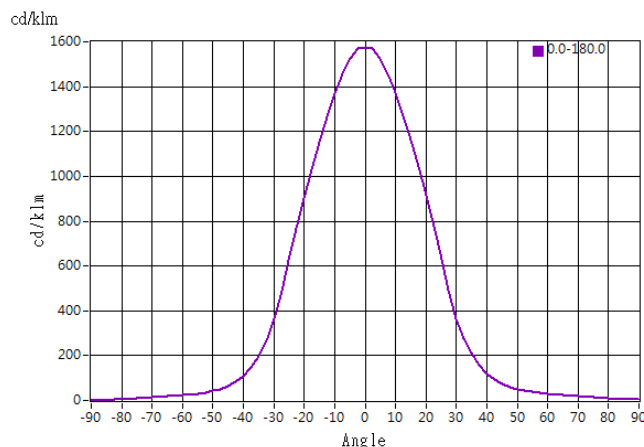




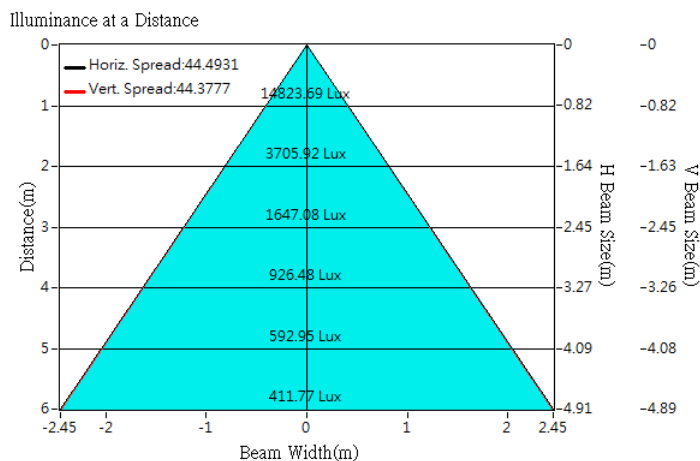
Optical Characteristics

Model Number	CKO-CH15-110058-3901		
LED	CMT2890		
LES / LED Size	Φ 22 mm		
FWHM (D50)	44°		
Field Angle (D10)	74°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	9441 lm	Measured @ 85.7 W	
Material	PC / UL94V2		

cd/klm

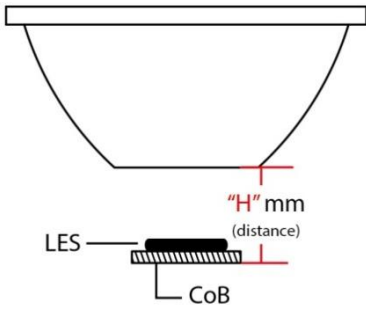


Illuminance At Distances

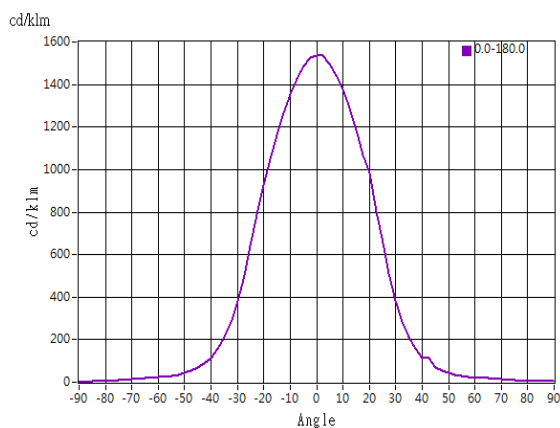




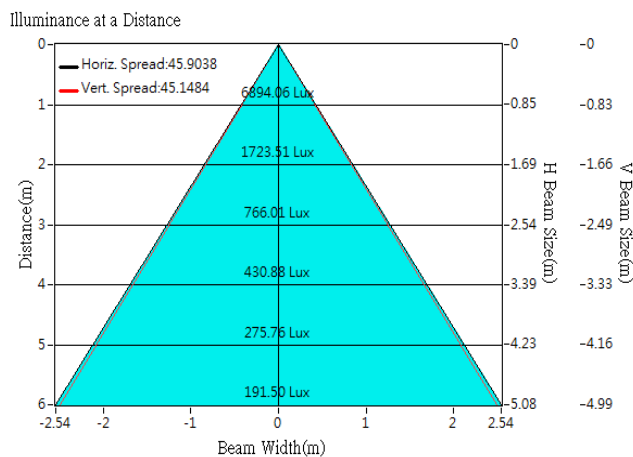
Optical Characteristics

Model Number	CKO-CH15-110058-3901		
LED	CREE CXA3050		
LES / LED Size	Φ 23 mm		
FWHM (D50)	46°		
Field Angle (D10)	75°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	4488 lm	Measured @ 50.8 W	
Material	PC / UL94V2		

cd/klm

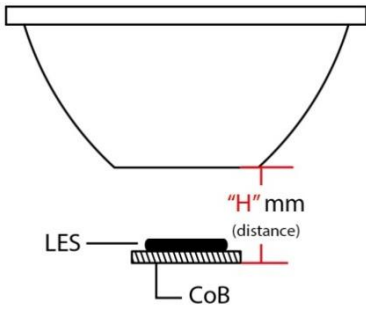


Illuminance At Distances

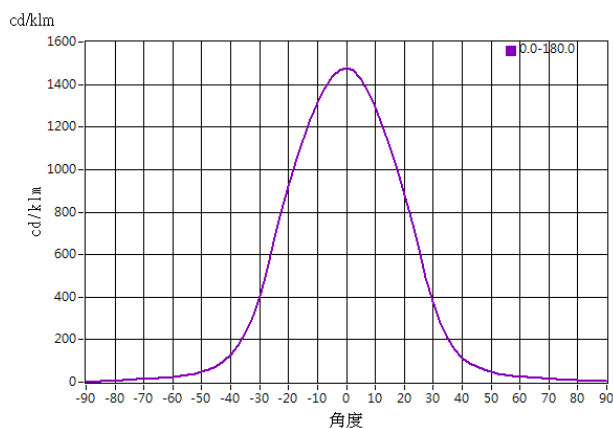




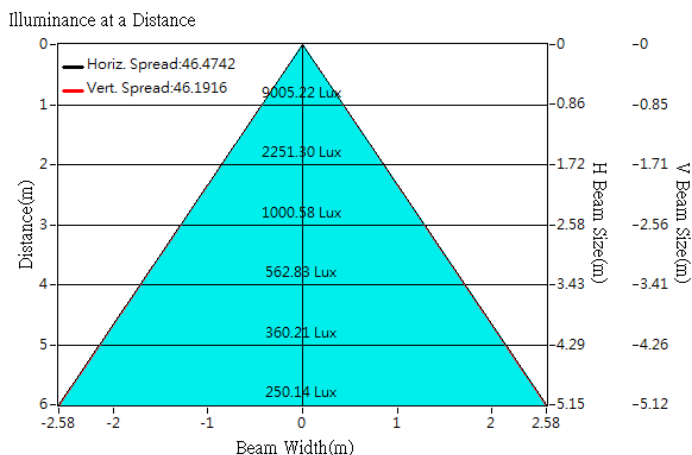
Optical Characteristics

Model Number	CKO-CH15-110058-3901		"H" definition 
LED	CREE CXB3050		
LES / LED Size	Φ 23 mm		
FWHM (D50)	46°		
Field Angle (D10)	77°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	6104 lm	Measured @ 48.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

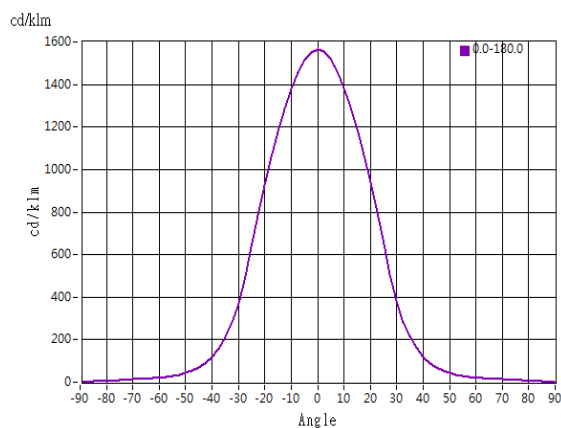




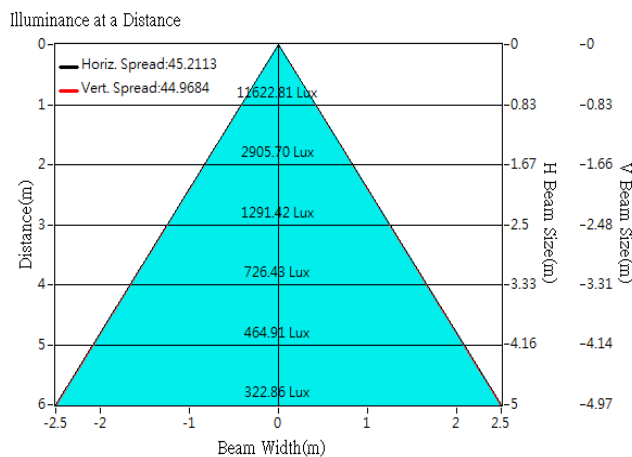
Optical Characteristics

Model Number	CKO-CH15-110058-3901		
LED	CREE CXA3070		
LES / LED Size	Φ 23 mm		
FWHM (D50)	45°		
Field Angle (D10)	75°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	7419 lm	Measured @ 69.2 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

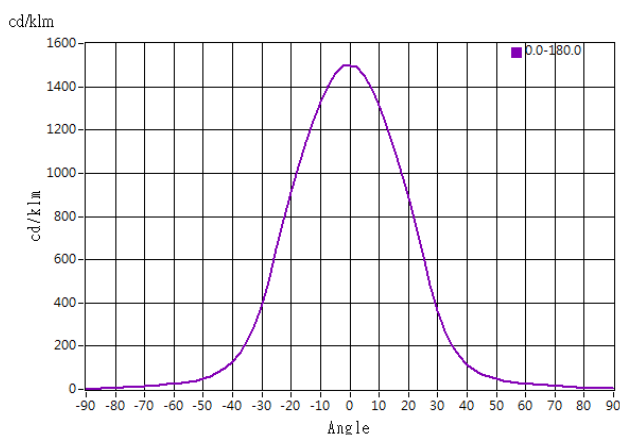




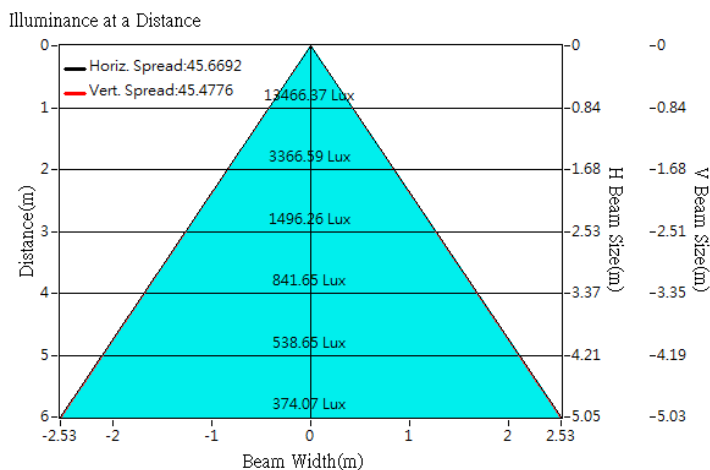
Optical Characteristics

Model Number	CKO-CH15-110058-3901		"H" definition
LED	CMA 3090		
LES / LED Size	Φ 23 mm		
FWHM (D50)	46°		
Field Angle (D10)	76°		
H (distance)	4 mm		
Dimension	Φ =110 mm, Thickness=58 mm		
Luminous Flux	9007 lm	Measured @ 69 W	
Material	PC / UL94V2		

cd/klm

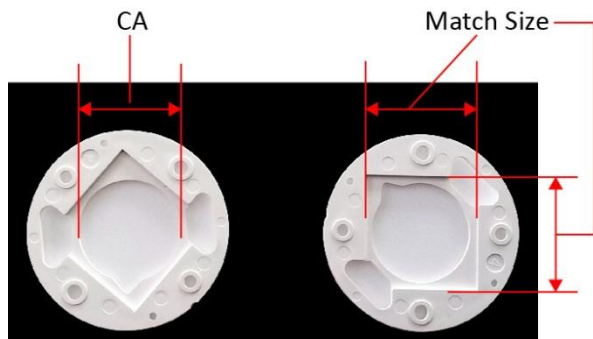


Illuminance At Distances





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