



Product Model Number

CKO-CH15-075033-4403

✓ Model Number Definitions

CKO-XXXX-XXXXXX-XXXX

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(A)

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(B)

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(C)

↑
(D)

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(E)

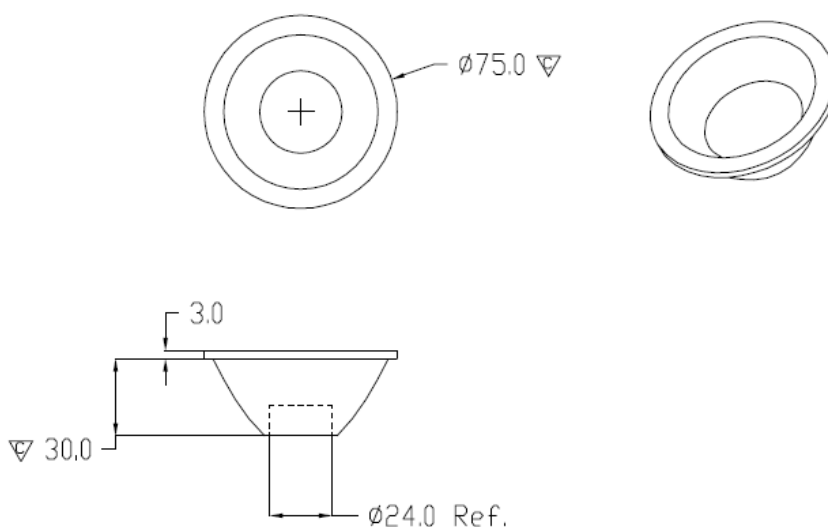


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation
Ex:
CH→CoB High Intensity
CC→CoB Compact
CS→Soft Shading for CoB LED
HC→Holder for CoB LED

- 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) : Φ75 x 33



▽:Critical Dimension

Chun Kuang Optics Corp.

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2021/9/2



✓ **Optical Characteristics – Angle Performances**

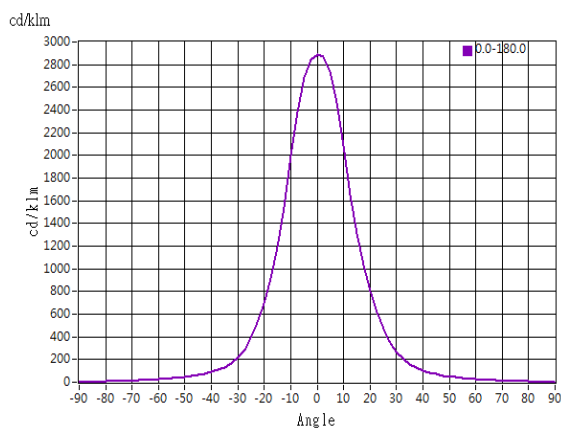
CREE	LED LES (mm)	FWHM (degrees)	Field Angle (degrees)
CXA1507	Φ9	20°	38°
CXB1507	Φ9	19°	39°
CXA1510	Φ9	19°	39°
CXA1512	Φ9	19°	39°
CXB1512	Φ9	20°	39°
CMA1516	Φ9	19°	40°
CXB1520	Φ9	20°	39°
CMT1407	Φ9.8	20°	41°
CMT1412	Φ9.8	20°	41°
CXA1816	Φ12	23°	46°
CXB1816	Φ12	22°	44°
CXA1820	Φ12	22°	45°
CXB1820	Φ12	23°	47°
CMA1825	Φ12	23°	46°
CXA1830	Φ14	23°	47°
CXB1830	Φ14	24°	48°
CMA1840	Φ14	25°	51°
CMT1922	Φ14.5	25°	51°
CMT1925	Φ14.5	26°	52°
CMT1930	Φ14.5	25°	51°
CMT1945	Φ14.5	25°	51°
CXA2520	Φ19	28°	56°
CXB2530	Φ19	28°	60°
CXA2540	Φ19	27°	57°
CXB2540	Φ19	30°	62°
CMA2550	Φ19	31°	63°



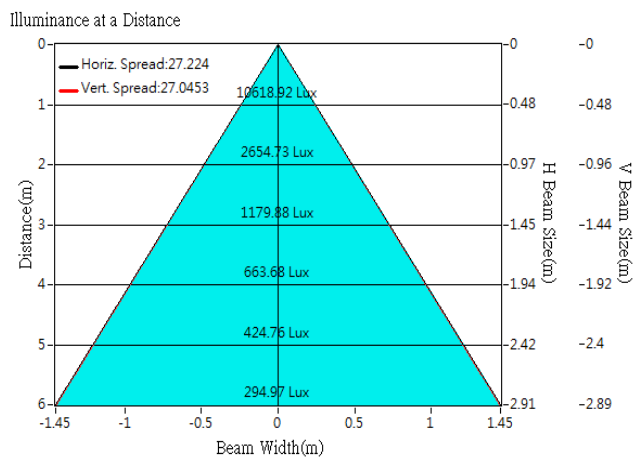
Optical Characteristics

Model Number	CKO-CH15-075033-4403		"H" definition 
LED	CXA1507		
LES / LED Size	Φ 9 mm		
FWHM (D50)	20°		
Field Angle (D10)	38°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	3676 lm	Measured @ 39.7 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

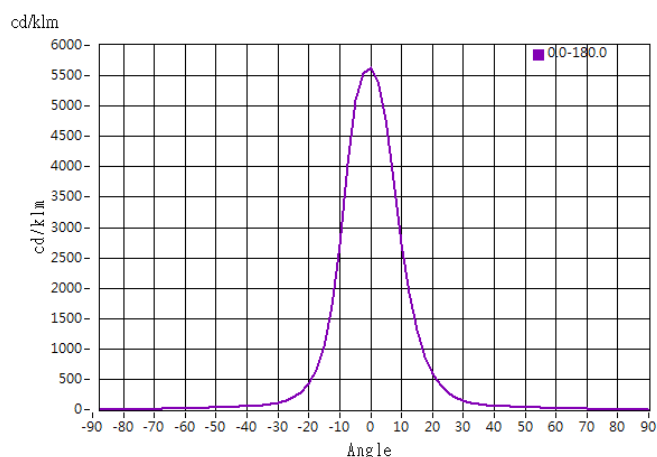




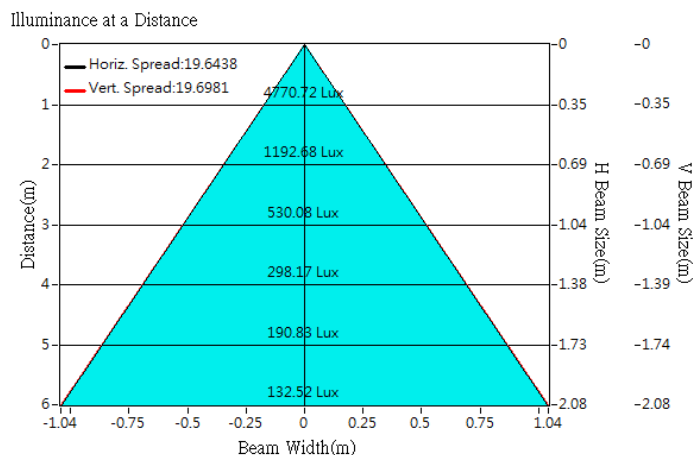
Optical Characteristics

Model Number	CKO-CH15-075033-4403		"H" definition 
LED	CREE CXB1507		
LES / LED Size	Φ 9 mm		
FWHM (D50)	19°		
Field Angle (D10)	39°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	849 lm	Measured @ 7.1 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

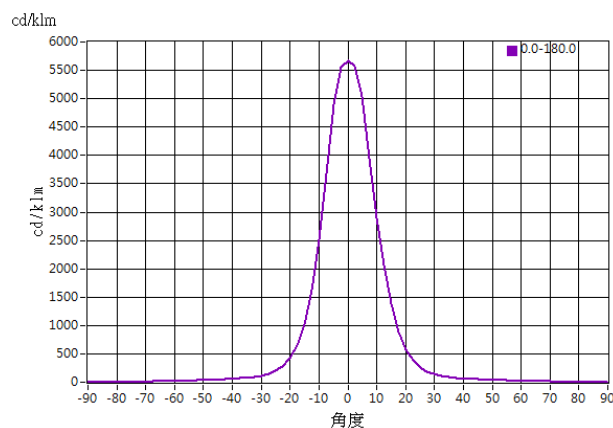




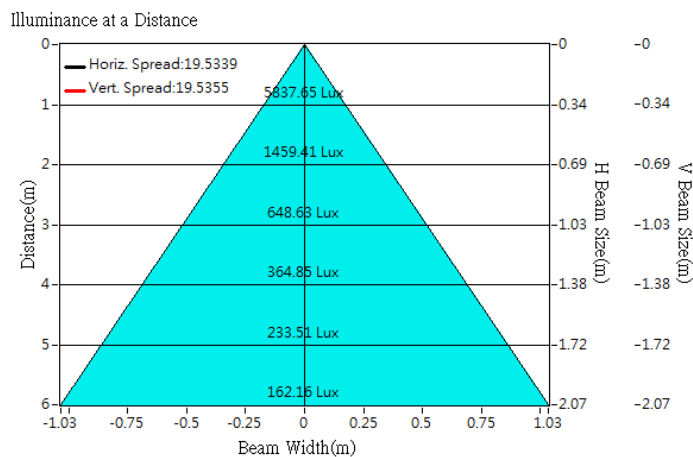
Optical Characteristics

Model Number	CKO-CH15-075033-4403		"H" definition 
LED	CREE CXA1510		
LES / LED Size	Φ 9 mm		
FWHM (D50)	19°		
Field Angle (D10)	39°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1031 lm	Measured @ 9.1W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

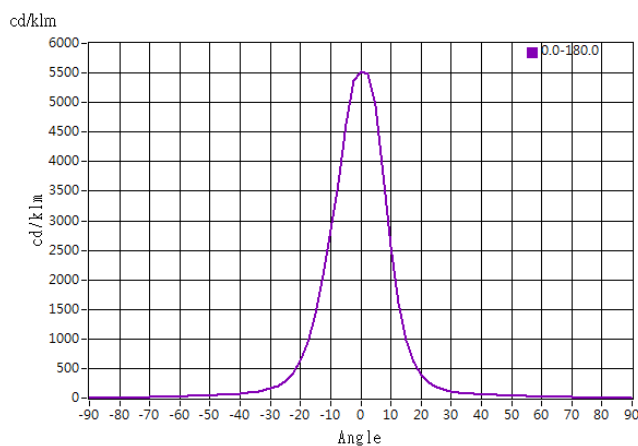




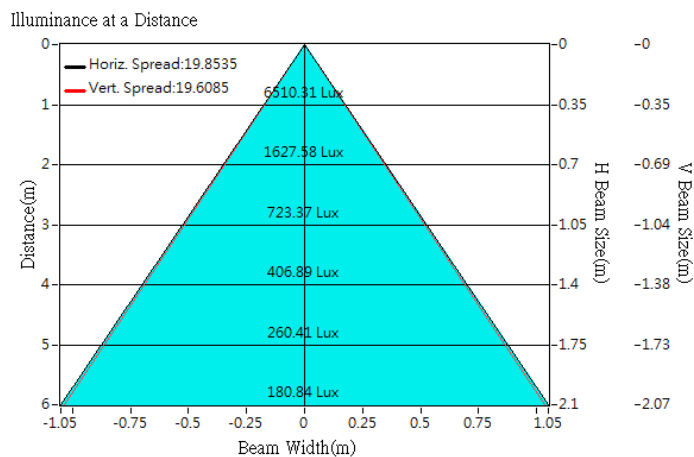
Optical Characteristics

Model Number	CKO-CH15-075033-4403		
LED	CREE CXA1512		
LES / LED Size	Φ 9 mm		
FWHM (D50)	19°		
Field Angle (D10)	39°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1178 lm	Measured @ 13.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

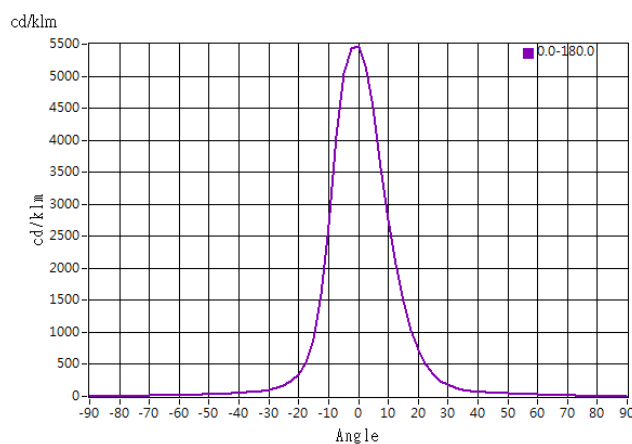




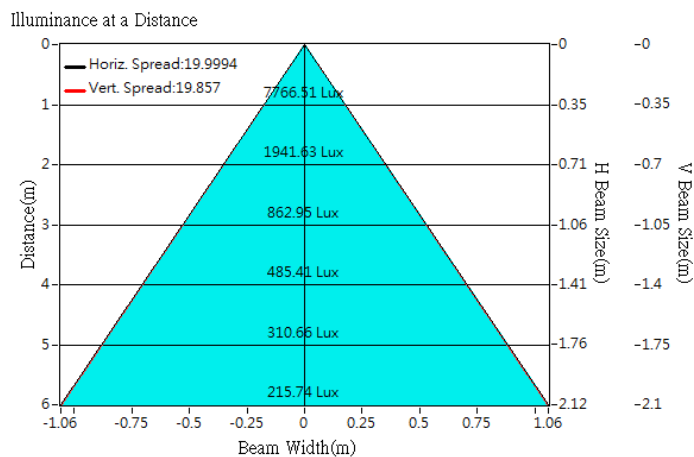
Optical Characteristics

Model Number	CKO-CH15-075033-4403		"H" definition 
LED	CREE CXB1512		
LES / LED Size	Φ 9 mm		
FWHM (D50)	20°		
Field Angle (D10)	39°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1422 lm	Measured @ 12.1 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

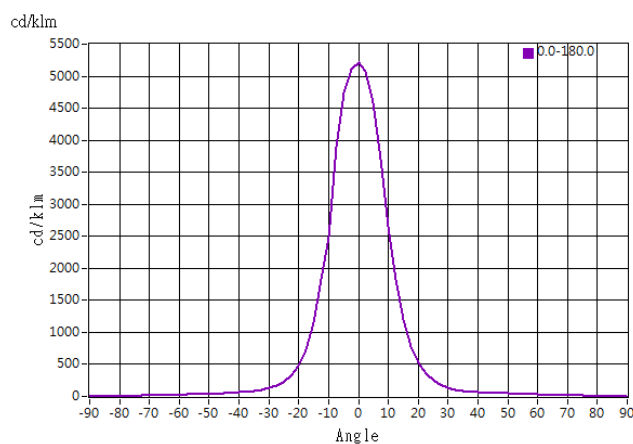




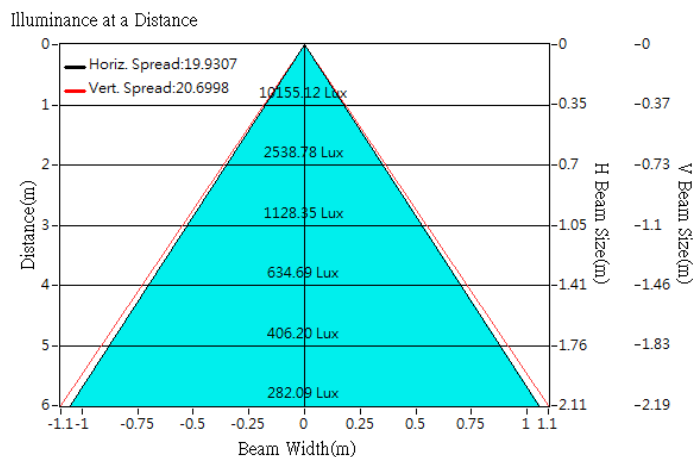
Optical Characteristics

Model Number	CKO-CH15-075033-4403		
LED	CREE CMA1516		
LES / LED Size	Φ 9 mm		
FWHM (D50)	19°		
Field Angle (D10)	40°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1949 lm	Measured @ 15.9 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

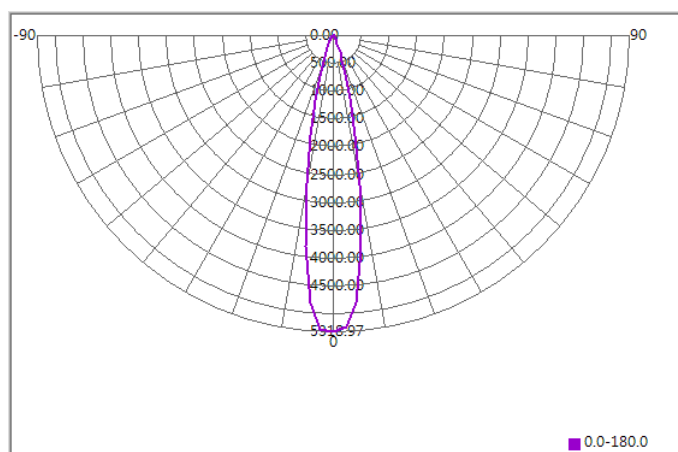




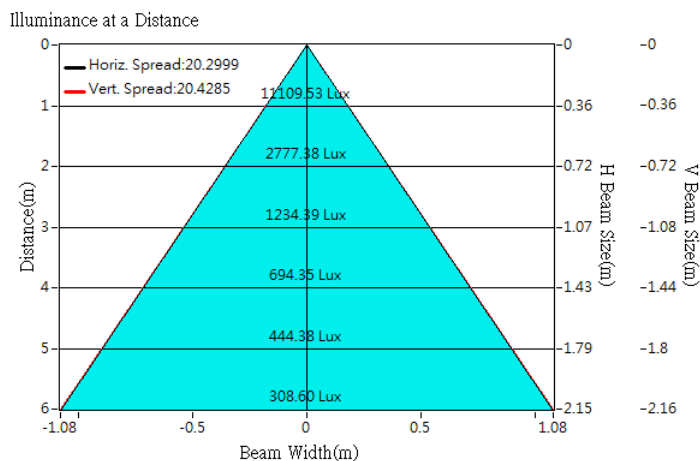
Optical Characteristics

Model Number	CKO-CH15-075033-4403		"H" definition 
LED	CXB1520		
LES / LED Size	Φ 9 mm		
FWHM (D50)	20°		
Field Angle (D10)	39°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2087 lm	Measured @ 17 W	
Material	PC / UL94V2		

cd/klm

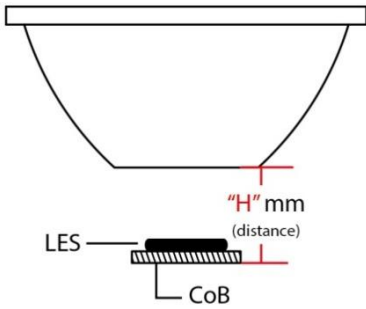


Illuminance At Distances

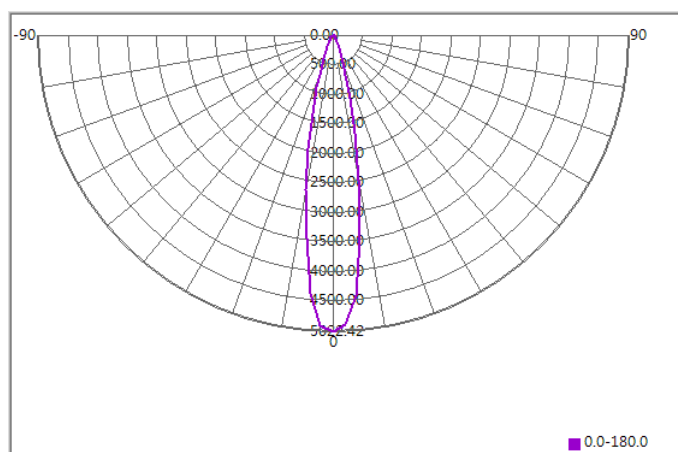




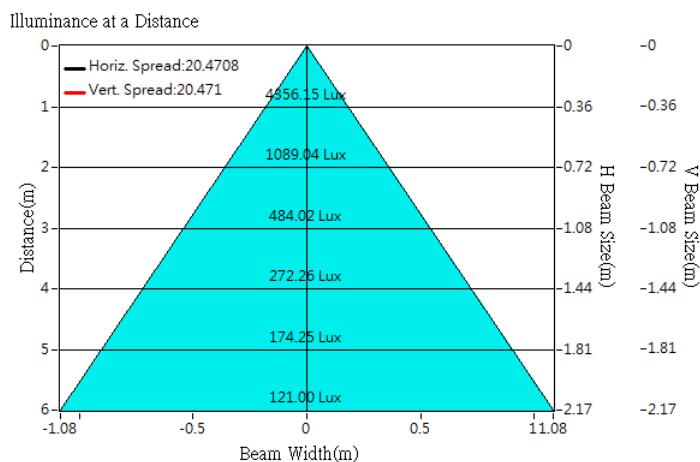
Optical Characteristics

Model Number	CKO-CH15-075033-4403		
LED	CMT1407		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	20°		
Field Angle (D10)	41°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	867 lm	Measured @ 7 W	
Material	PC / UL94V2		

cd/klm

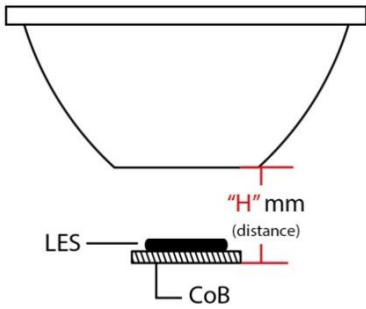


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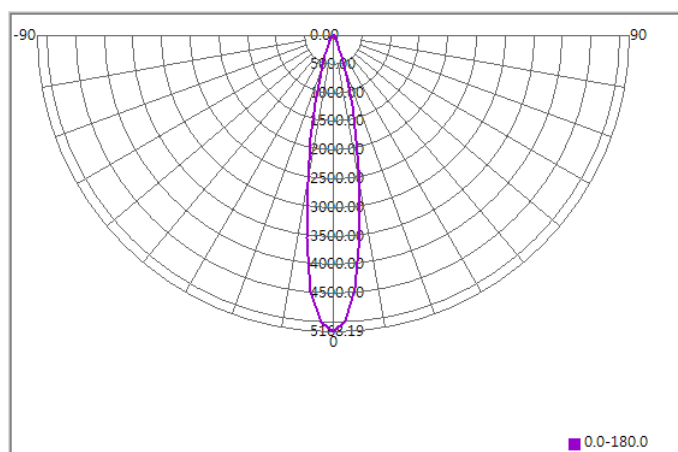




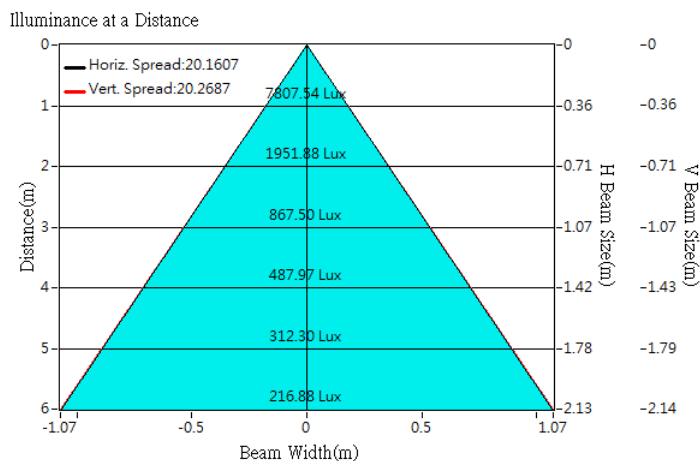
Optical Characteristics

Model Number	CKO-CH15-075033-4403		“H” definition 
LED	CMT1412		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	20°		
Field Angle (D10)	41°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1510 lm	Measured @ 12.2 W	
Material	PC / UL94V2		

cd/klm

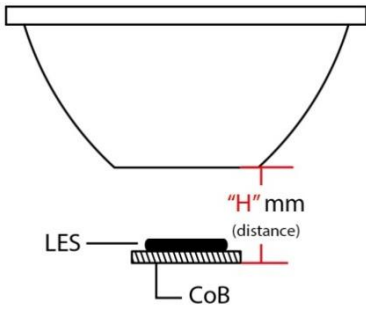


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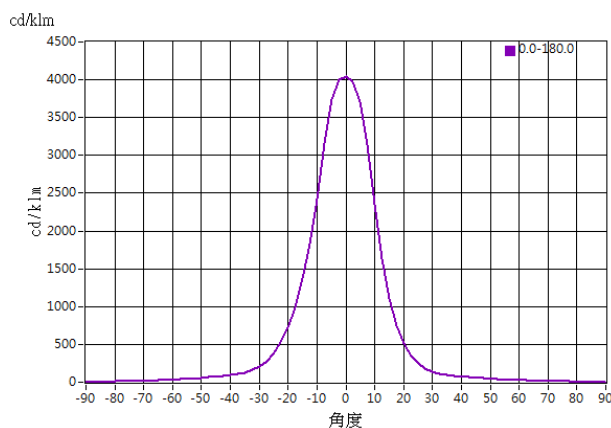




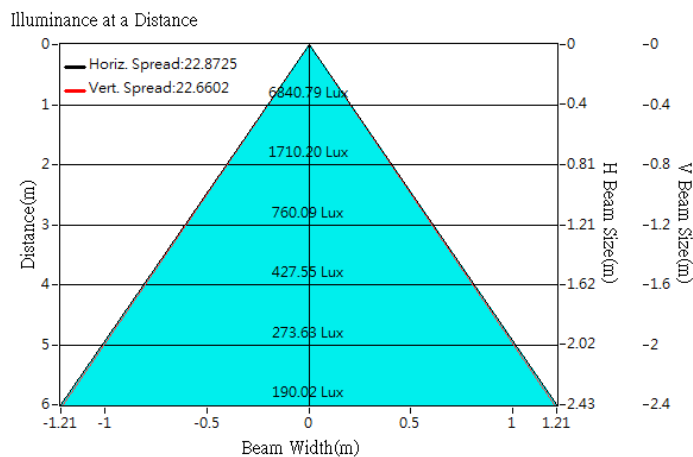
Optical Characteristics

Model Number	CKO-CH15-075033-4403		"H" definition 
LED	CREE CXA1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	23°		
Field Angle (D10)	46°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1694 lm	Measured @ 16.7W	
Material	PC / UL94V2		

cd/klm

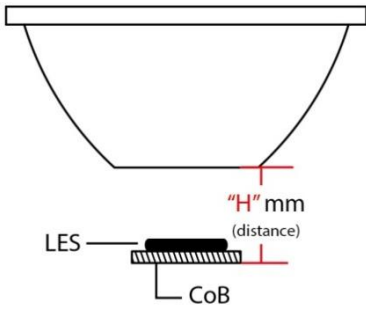


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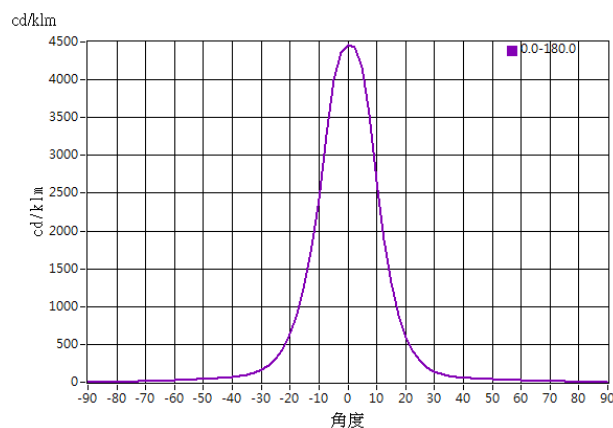




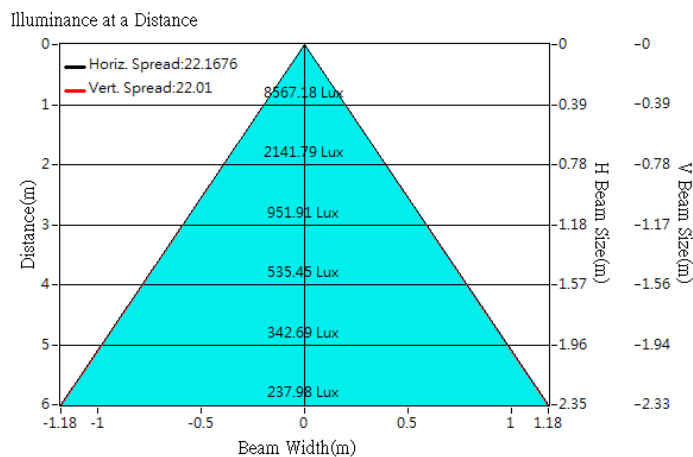
Optical Characteristics

Model Number	CKO-CH15-075033-4403		"H" definition 
LED	CREE CXB1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	22°		
Field Angle (D10)	44°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1921 lm	Measured @ 15.9W	
Material	PC / UL94V2		

cd/klm

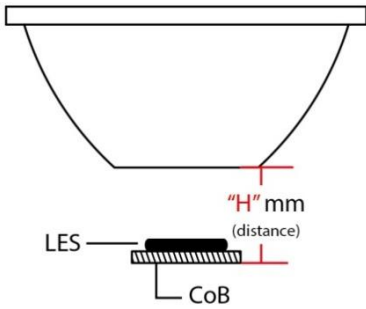


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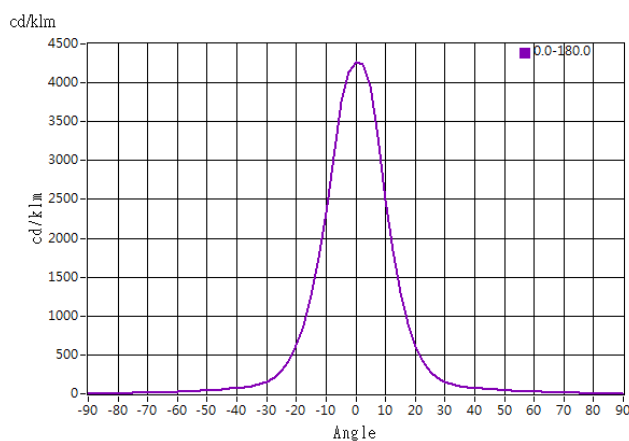




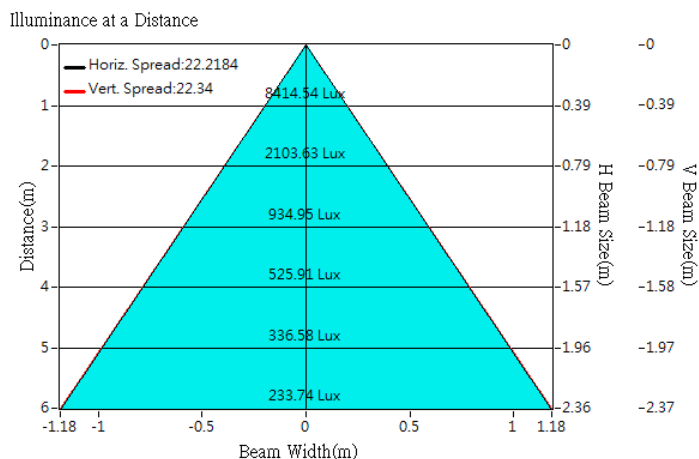
Optical Characteristics

Model Number	CKO-CH15-075033-4403		"H" definition 
LED	CREE CXA1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	22°		
Field Angle (D10)	45°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1974 lm	Measured @ 20.1 W	
Material	PC / UL94V2		

cd/klm

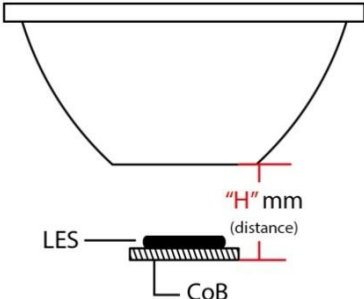


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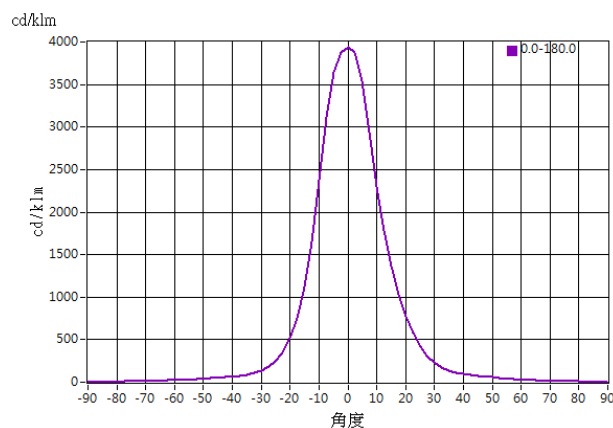




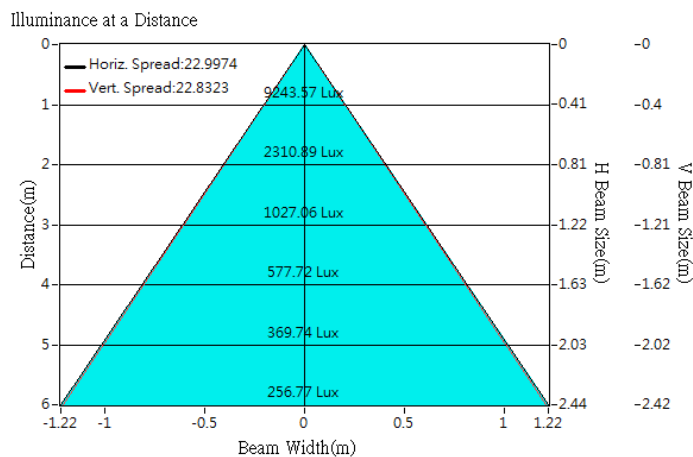
Optical Characteristics

Model Number	CKO-CH15-075033-4403		"H" definition 
LED	CREE CXB1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	23°		
Field Angle (D10)	47°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2346 lm	Measured @ 19.7W	
Material	PC / UL94V2		

cd/klm

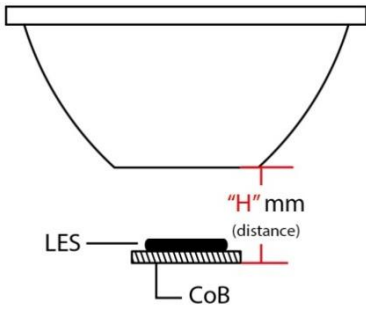


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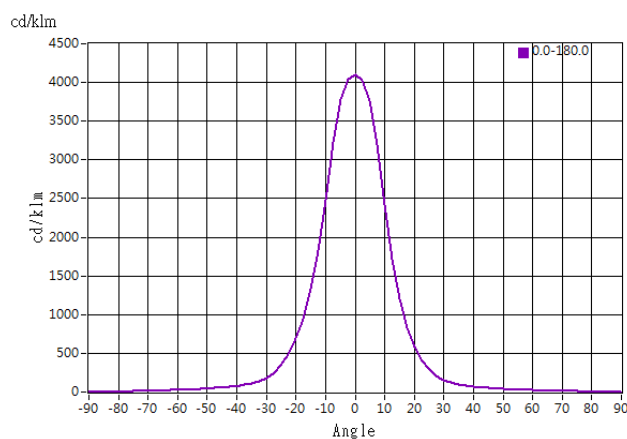




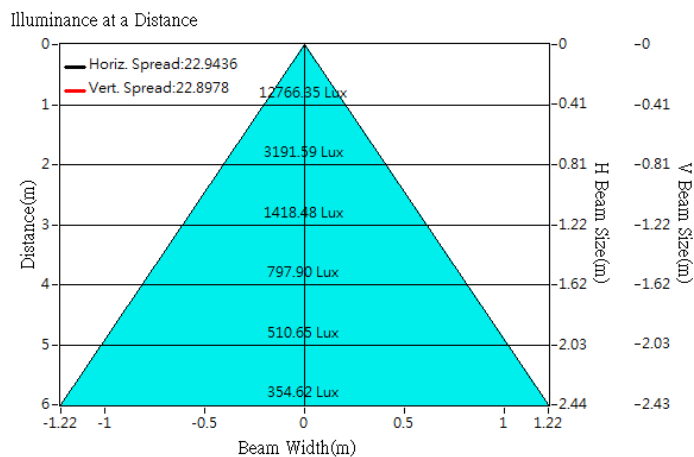
Optical Characteristics

Model Number	CKO-CH15-075033-4403		"H" definition 
LED	CREE CMA1825		
LES / LED Size	Φ 12 mm		
FWHM (D50)	23°		
Field Angle (D10)	46°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	3313 lm	Measured @ 24.7 W	
Material	PC / UL94V2		

cd/klm

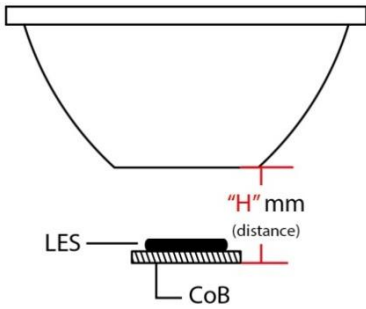


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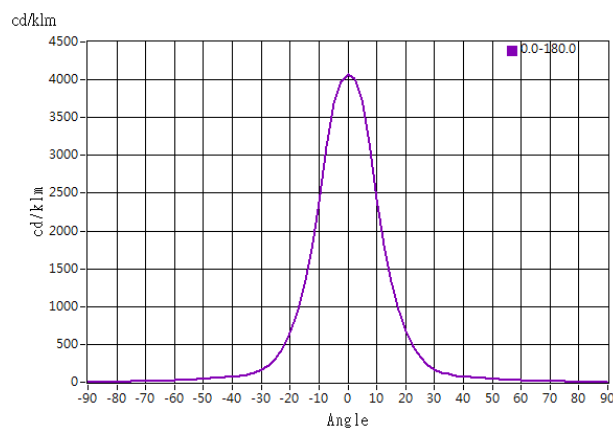




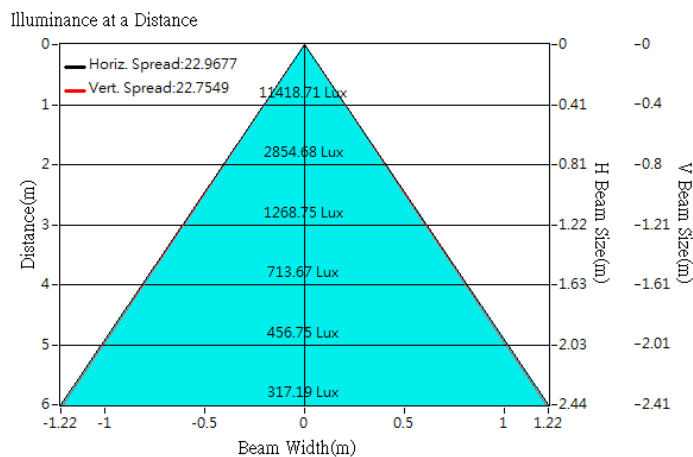
Optical Characteristics

Model Number	CKO-CH15-075033-4403		"H" definition 
LED	CREE CXA1830		
LES / LED Size	Φ 14 mm		
FWHM (D50)	23°		
Field Angle (D10)	47°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2802 lm	Measured @ 29.6 W	
Material	PC / UL94V2		

cd/klm

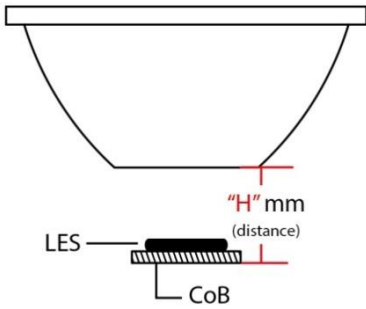


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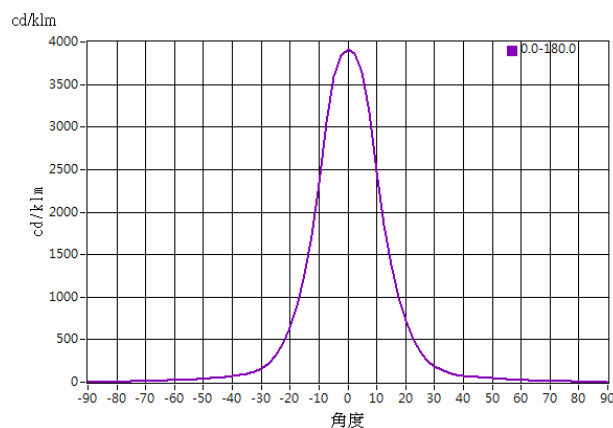




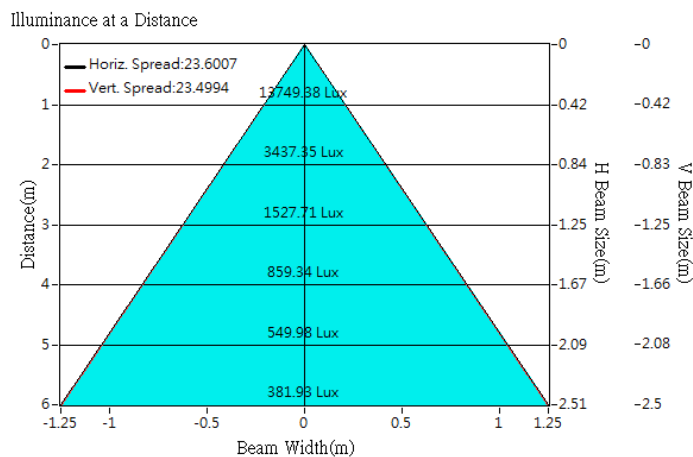
Optical Characteristics

Model Number	CKO-CH15-075033-4403		"H" definition 
LED	CREE CXB1830		
LES / LED Size	Φ 14 mm		
FWHM (D50)	24°		
Field Angle (D10)	48°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	3511 lm	Measured @ 28.8W	
Material	PC / UL94V2		

cd/klm

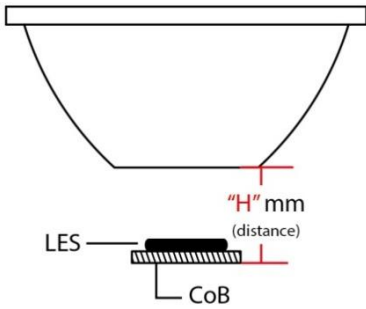


Illuminance At Distances

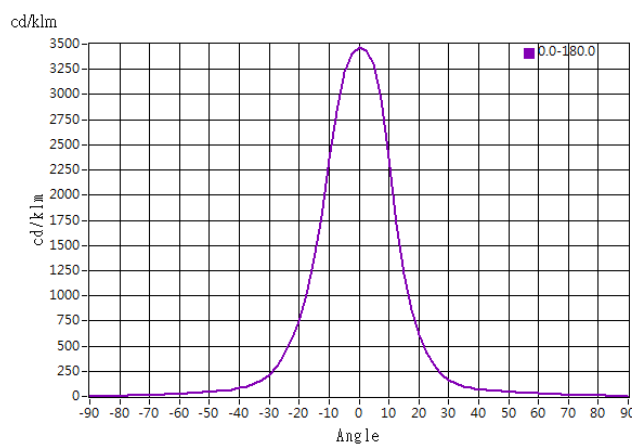




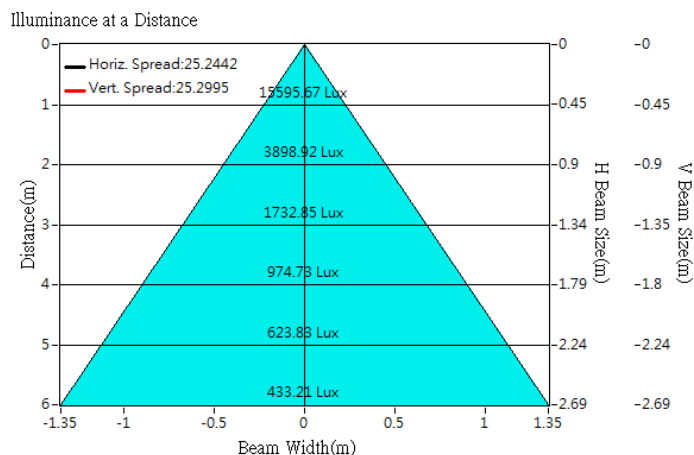
Optical Characteristics

Model Number	CKO-CH15-075033-4403		
LED	CREE CMA1840		
LES / LED Size	Φ 14 mm		
FWHM (D50)	25°		
Field Angle (D10)	51°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	4497 lm	Measured @ 40.6 W	
Material	PC / UL94V2		

cd/klm

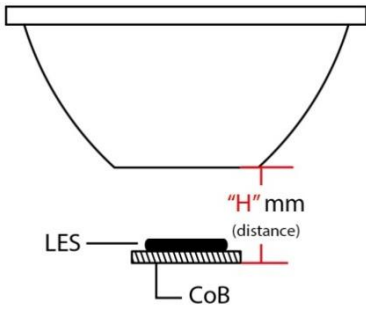


Illuminance At Distances

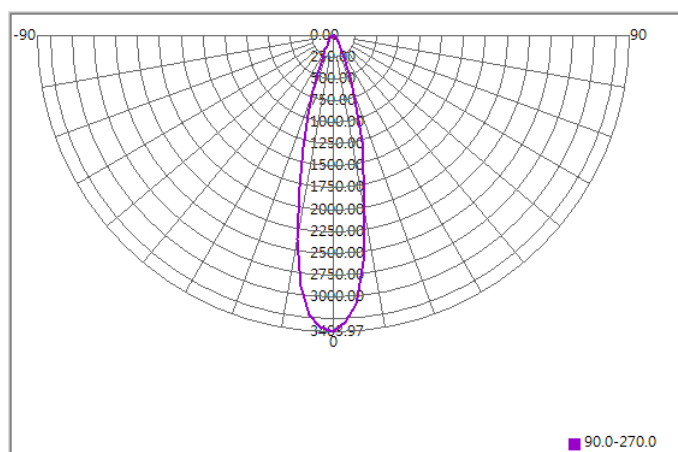




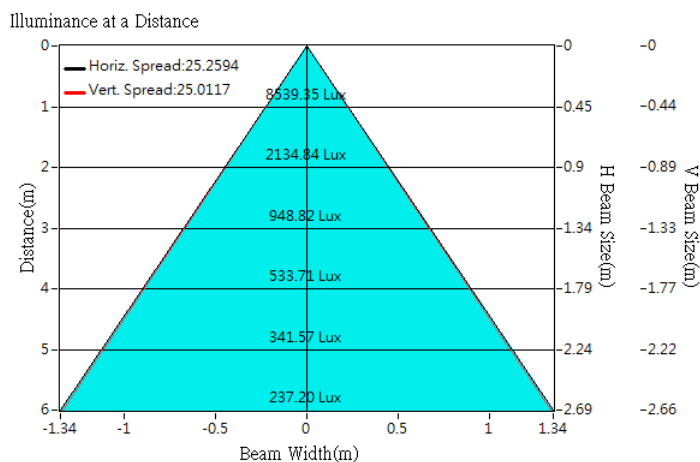
Optical Characteristics

Model Number	CKO-CH15-075033-4403		
LED	CMT1922		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	25°		
Field Angle (D10)	51°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2508 lm	Measured @ 21 W	
Material	PC / UL94V2		

cd/klm

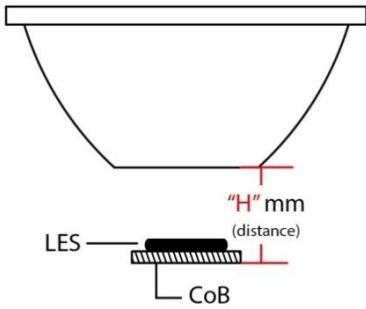


Illuminance At Distances

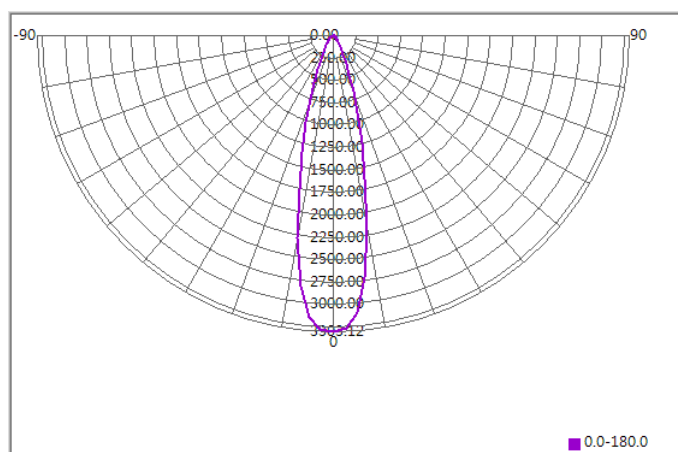




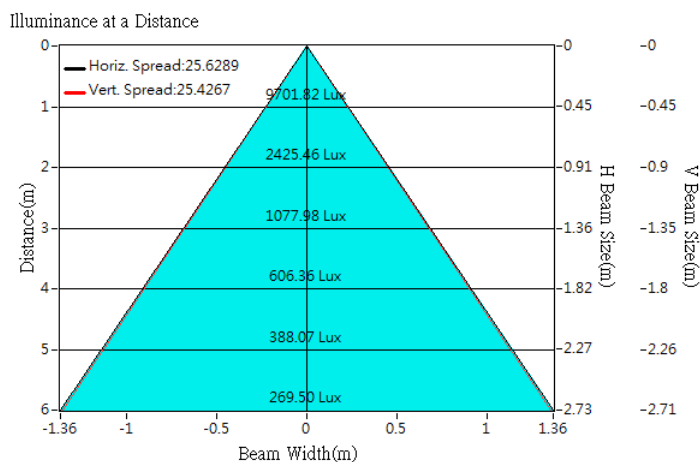
Optical Characteristics

Model Number	CKO-CH15-075033-4403		
LED	CMT1925		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	26°		
Field Angle (D10)	52°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2937 lm	Measured @ 25 W	
Material	PC / UL94V2		

cd/klm

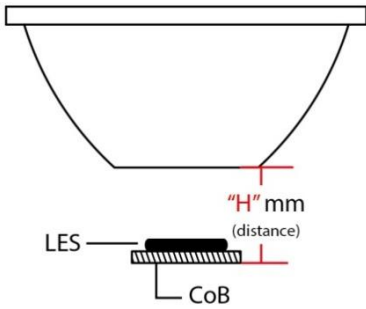


Illuminance At Distances

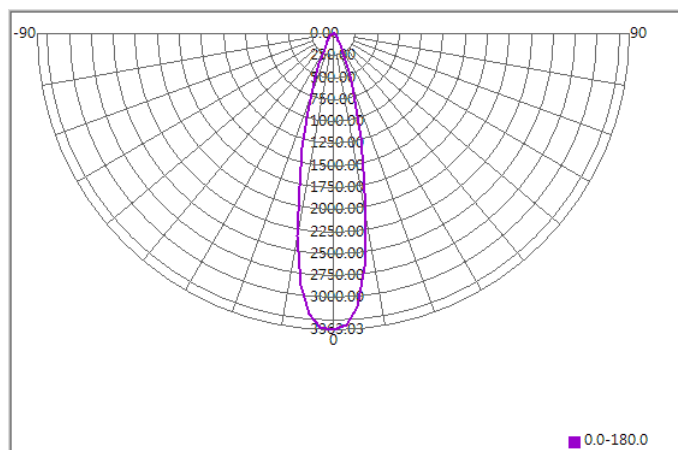




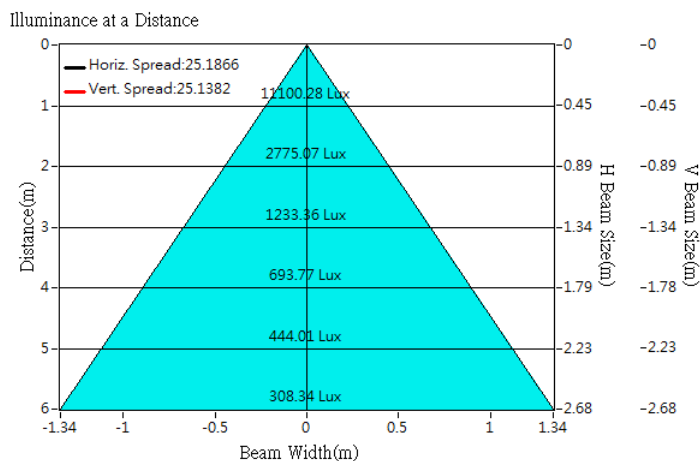
Optical Characteristics

Model Number	CKO-CH15-075033-4403		
LED	CMT1930		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	25°		
Field Angle (D10)	51°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	3300 lm	Measured @ 29 W	
Material	PC / UL94V2		

cd/klm

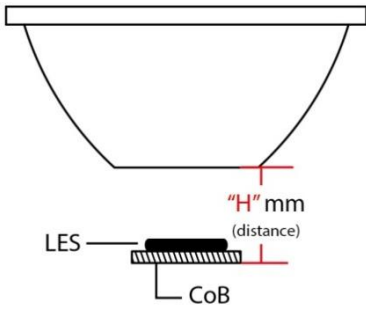


Illuminance At Distances

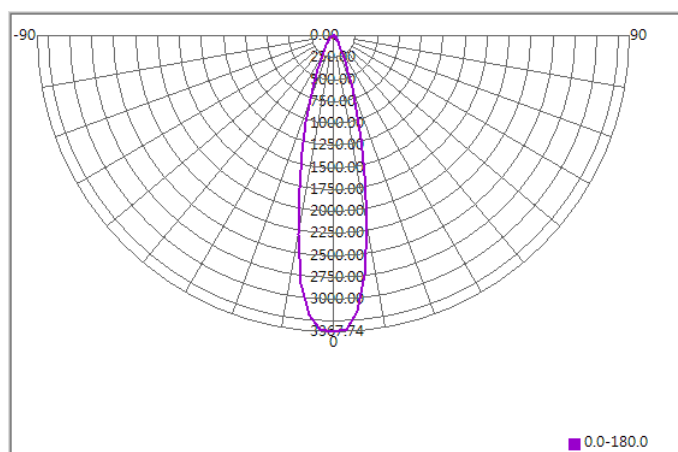




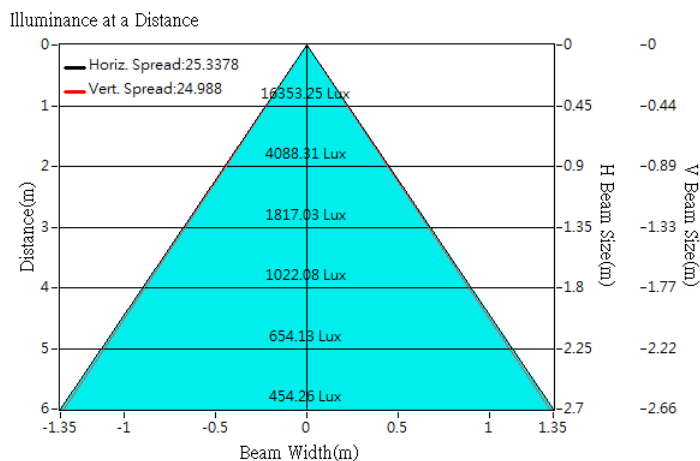
Optical Characteristics

Model Number	CKO-CH15-075033-4403		
LED	CMT1945		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	25°		
Field Angle (D10)	51°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	4856 lm	Measured @ 44 W	
Material	PC / UL94V2		

cd/klm

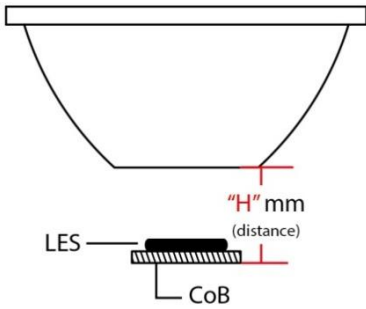


Illuminance At Distances

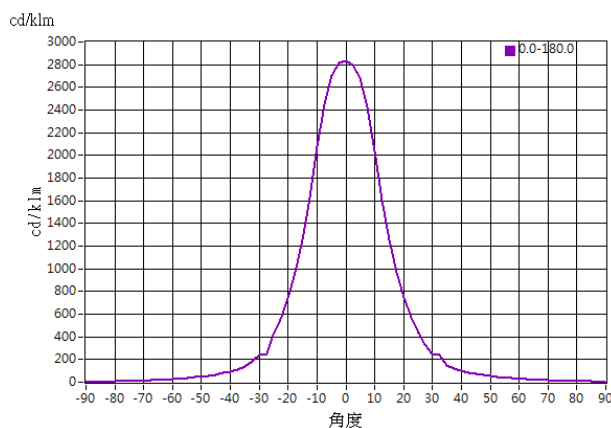




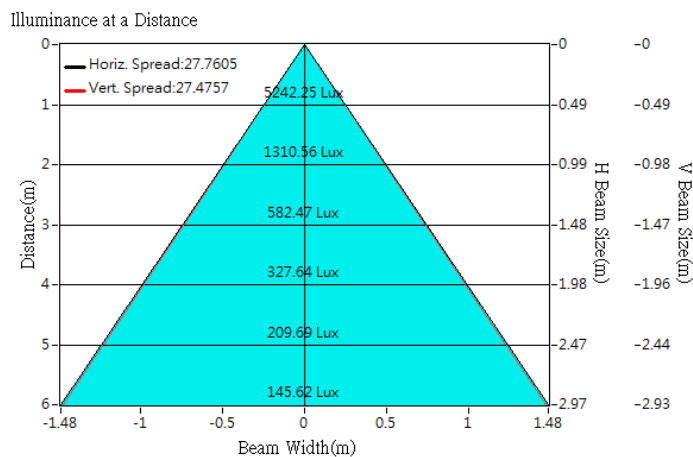
Optical Characteristics

Model Number	CKO-CH15-075033-4403		
LED	CREE CXA2520		
LES / LED Size	Φ 19 mm		
FWHM (D50)	28°		
Field Angle (D10)	56°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1851 lm	Measured @ 20.5W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

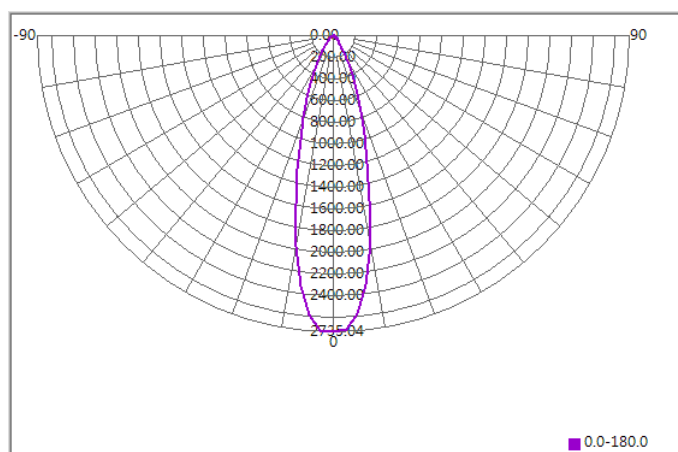




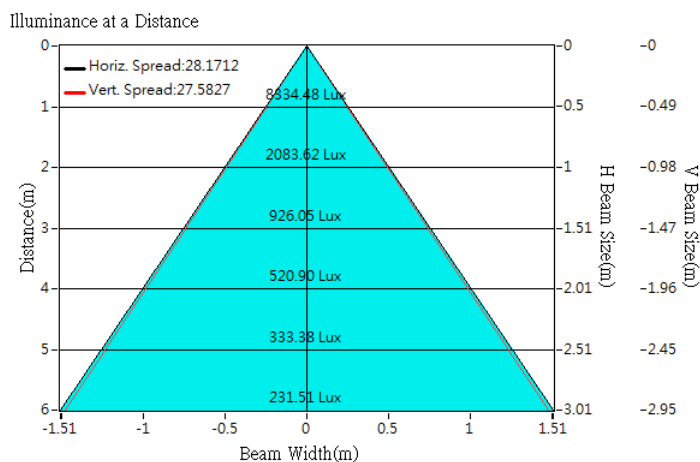
Optical Characteristics

Model Number	CKO-CH15-075033-4403		
LED	CREE CXB2530		
LES / LED Size	Φ 19 mm		
FWHM (D50)	28°		
Field Angle (D10)	56°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	3047 lm	Measured @ 27.7 W	
Material	PC / UL94V2		

cd/klm

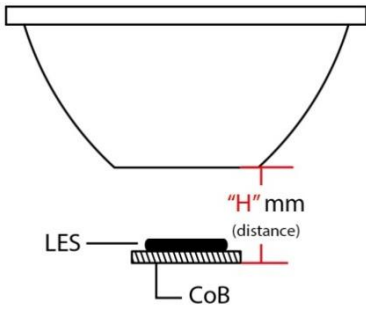


Illuminance At Distances

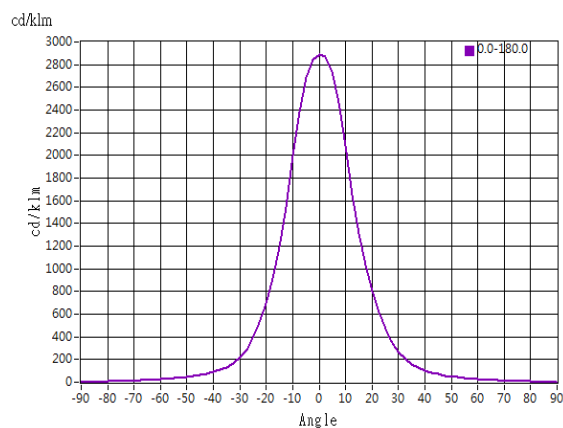




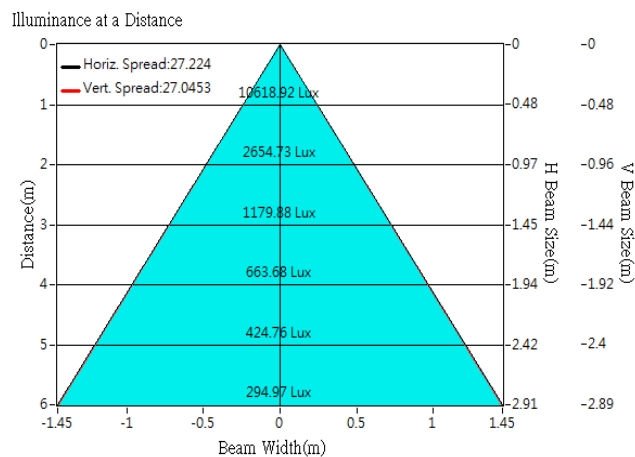
Optical Characteristics

Model Number	CKO-CH15-075033-4403		
LED	CREE CXA2540		
LES / LED Size	Φ 19 mm		
FWHM (D50)	27°		
Field Angle (D10)	57°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	3676 lm	Measured @ 39.7 W	
Material	PC / UL94V2		

cd/klm

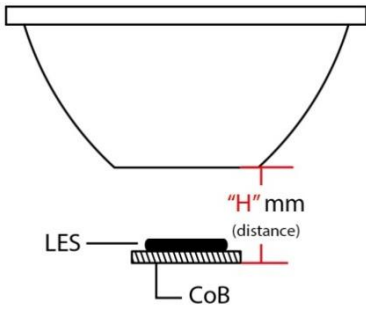


Illuminance At Distances

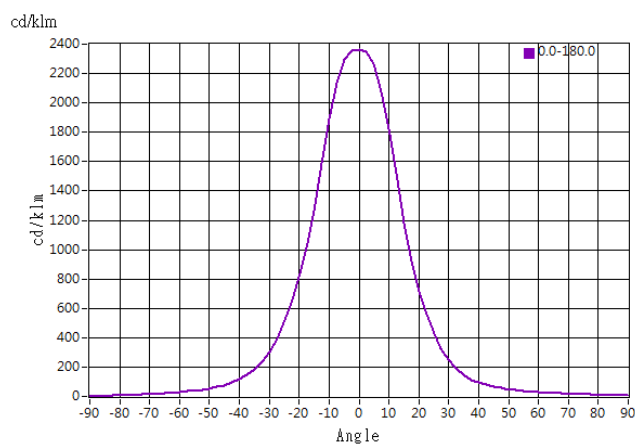




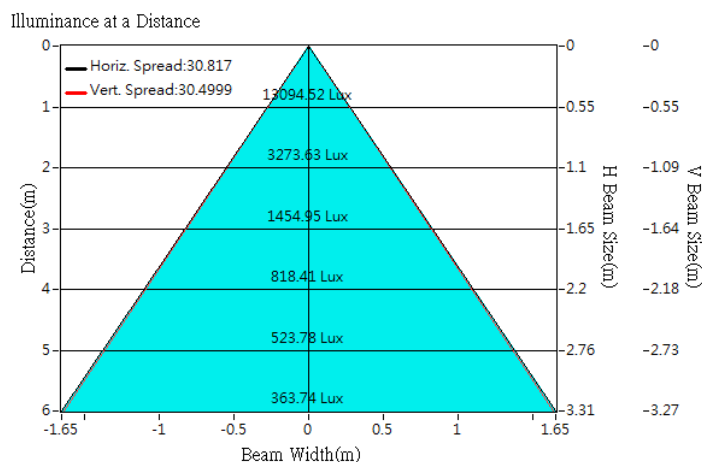
Optical Characteristics

Model Number	CKO-CH15-075033-4403		
LED	CREE CMA2550		
LES / LED Size	Φ 19 mm		
FWHM (D50)	31°		
Field Angle (D10)	63°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	5535 lm	Measured @ 43.1 W	
Material	PC / UL94V2		

cd/klm

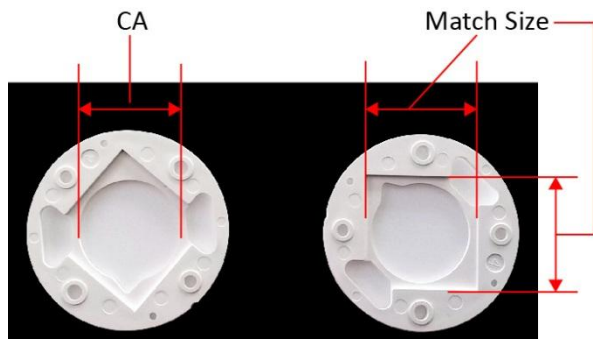


Illuminance At Distances





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