



Product Model Number

CKO-CH15-075033-4405

✓ 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)

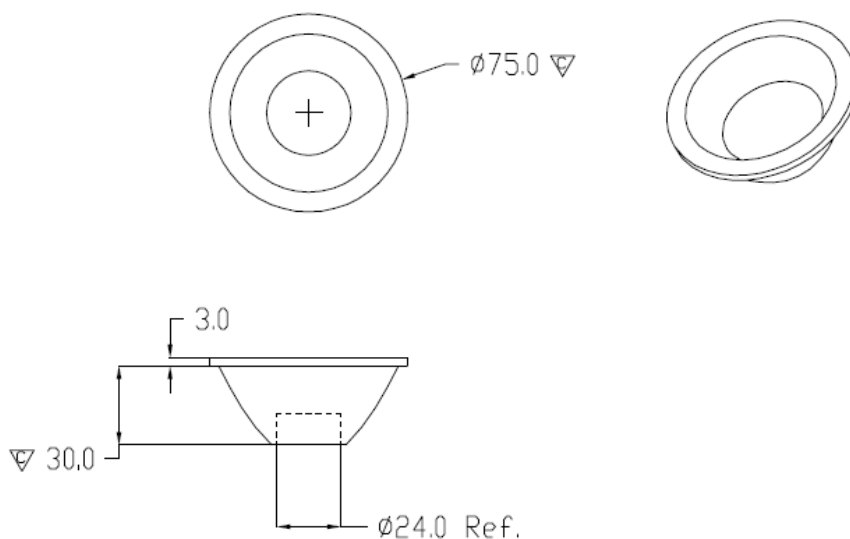


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation
Ex:
CH→CoB High Intensity
CC→CoB Compact
CS→Soft Shading for CoB LED
HC→Holder for CoB LED

- 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) : Φ75 x 33



▽:Critical Dimension

Chun Kuang Optics Corp.

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2021/9/2



✓ **Optical Characteristics – Angle Performances**

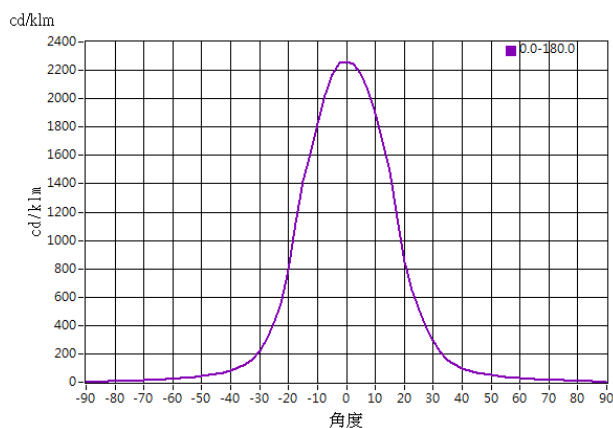
CREE	LED LES (mm)	FWHM (degrees)	Field Angle (degrees)
CXA1507	Φ9	35°	62°
CXB1507	Φ9	34°	63°
CXA1510	Φ9	34°	59°
CXA1512	Φ9	34°	59°
CXB1512	Φ9	34°	61°
CMA1516	Φ9	35°	63°
CXB1520	Φ9	35°	60°
CMT1407	Φ9.8	34°	61°
CMT1412	Φ9.8	34°	62°
CXA1816	Φ12	35°	62°
CXB1816	Φ12	36°	62°
CXA1820	Φ12	35°	62°
CXB1820	Φ12	35°	62°
CMA1825	Φ12	36°	66°
CXA1830	Φ14	36°	63°
CXB1830	Φ14	37°	65°
CMA1840	Φ14	37°	68°
CMT1922	Φ14.5	37°	67°
CMT1925	Φ14.5	37°	68°
CMT1930	Φ14.5	37°	67°
CMT1945	Φ14.5	37°	67°
CXA2520	Φ19	39°	70°
CXA2530	Φ19	38°	68°
CXB2530	Φ19	39°	73°
CXA2540	Φ19	39°	71°
CXB2540	Φ19	40°	74°
CMA2550	Φ19	41°	75°



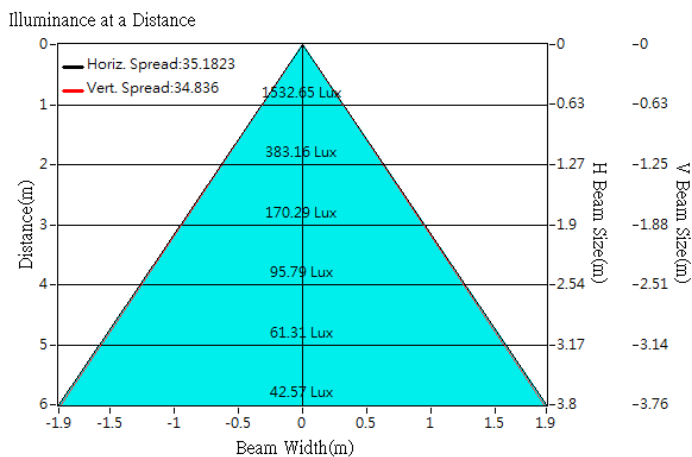
Optical Characteristics

Model Number	CKO-CH15-075033-4405		"H" definition 
LED	CXA1507		
LES / LED Size	Φ 9 mm		
FWHM (D50)	35°		
Field Angle (D10)	62°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	678 lm	Measured @ 7.3 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

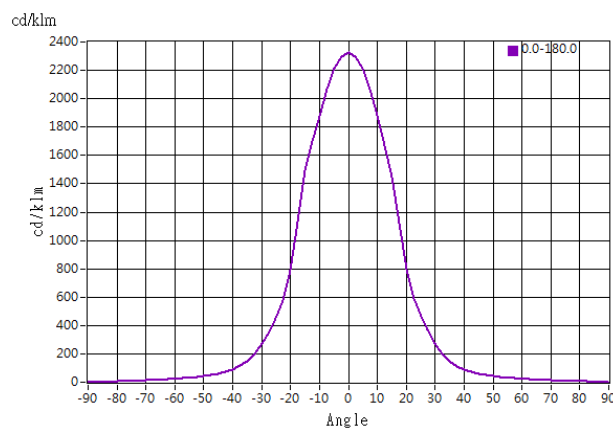




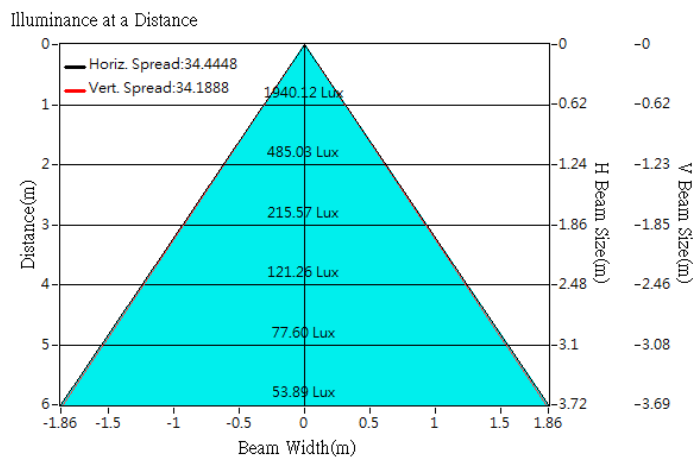
Optical Characteristics

Model Number	CKO-CH15-075033-4405		"H" definition 
LED	CXB1507		
LES / LED Size	Φ 9 mm		
FWHM (D50)	34°		
Field Angle (D10)	63°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	835 lm	Measured @ 7.1 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

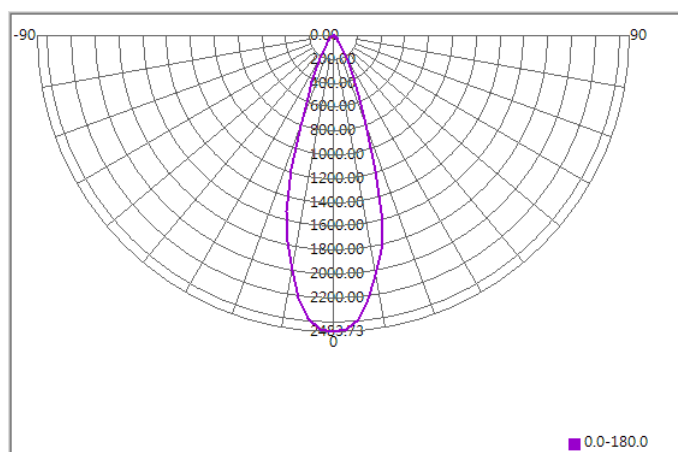




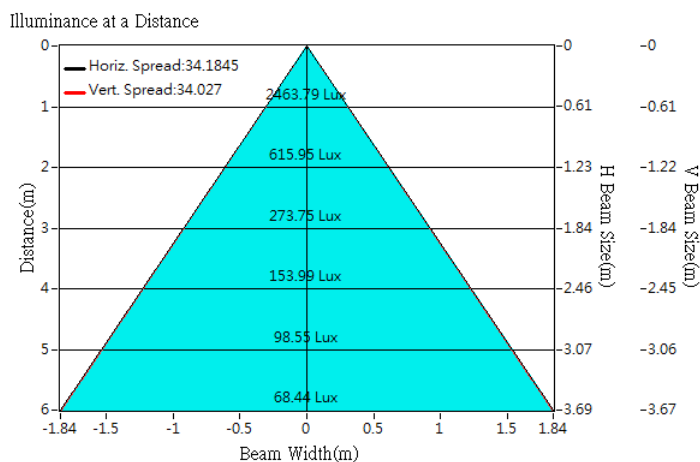
Optical Characteristics

Model Number	CKO-CH15-075033-4405		“H” definition 
LED	CXA1510		
LES / LED Size	Φ 9 mm		
FWHM (D50)	34°		
Field Angle (D10)	59°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	991 lm	Measured @ 9 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

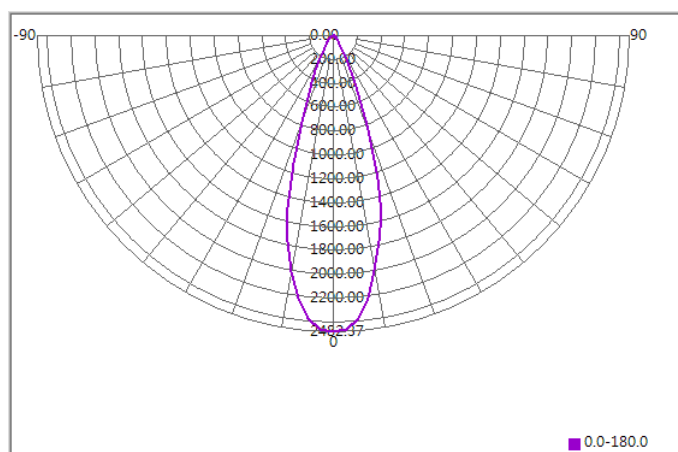




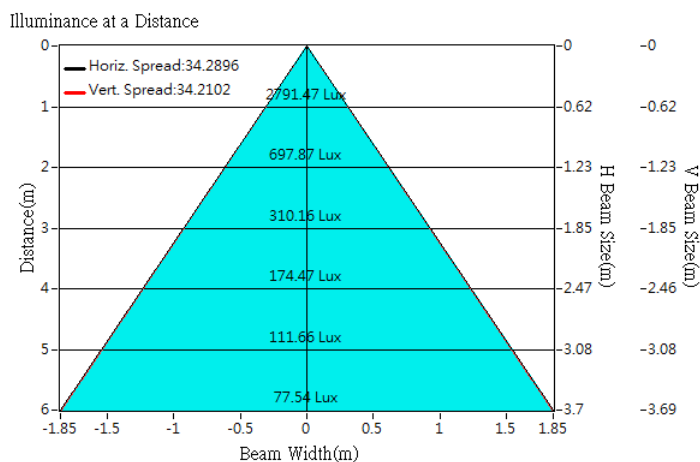
Optical Characteristics

Model Number	CKO-CH15-075033-4405		
LED	CXA1512		
LES / LED Size	Φ 9 mm		
FWHM (D50)	34°		
Field Angle (D10)	59°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1124 lm	Measured @ 13.2 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

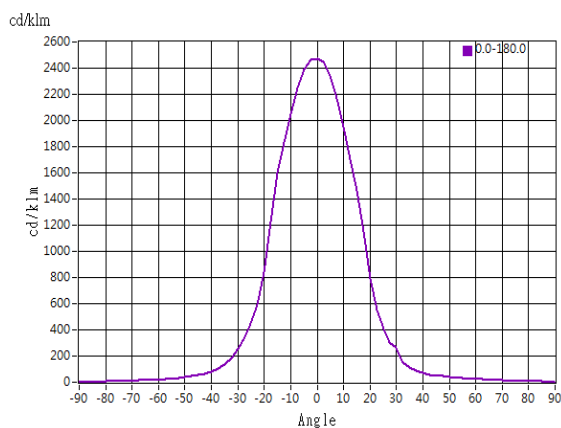




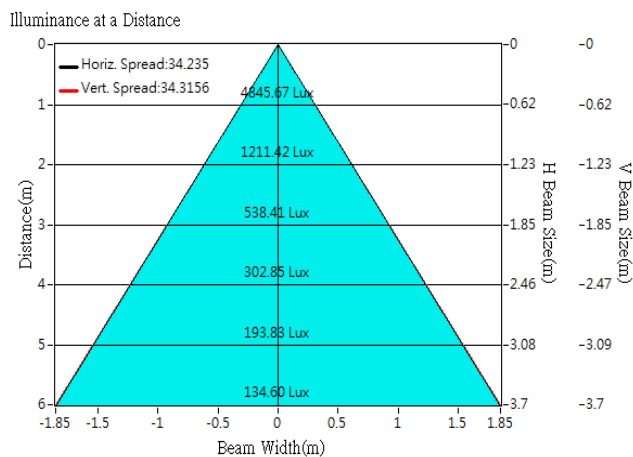
Optical Characteristics

Model Number	CKO-CH15-075033-4405		
LED	CREE CXB1512		
LES / LED Size	Φ 9 mm		
FWHM (D50)	34°		
Field Angle (D10)	61°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1961lm	Measured @ 21.3 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

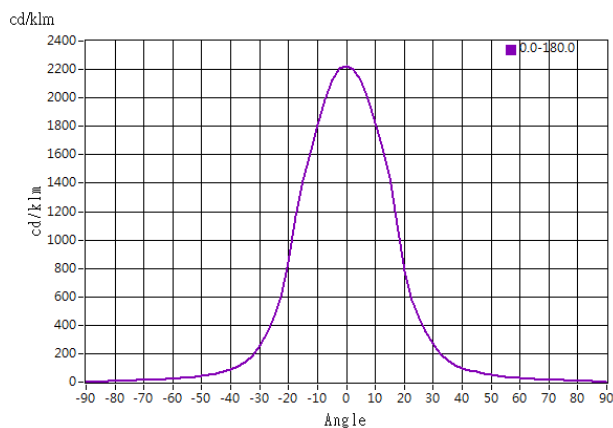




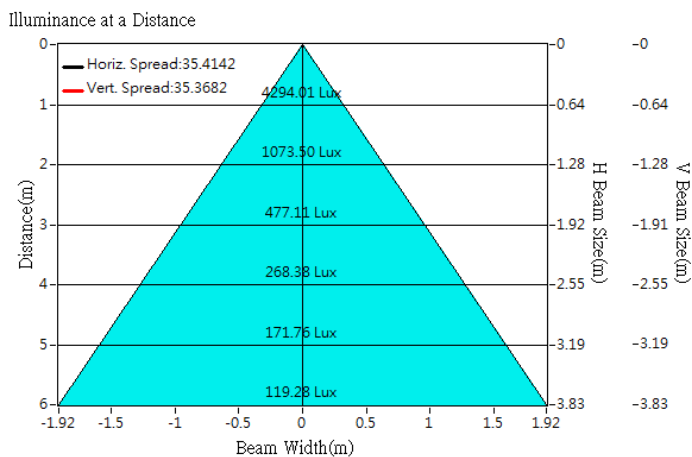
Optical Characteristics

Model Number	CKO-CH15-075033-4405		"H" definition 
LED	CREE CMA1516		
LES / LED Size	Φ 9 mm		
FWHM (D50)	35°		
Field Angle (D10)	63°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1935 lm	Measured @ 15.9 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

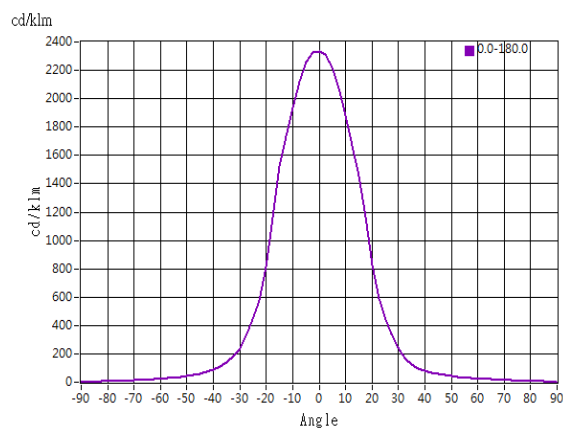




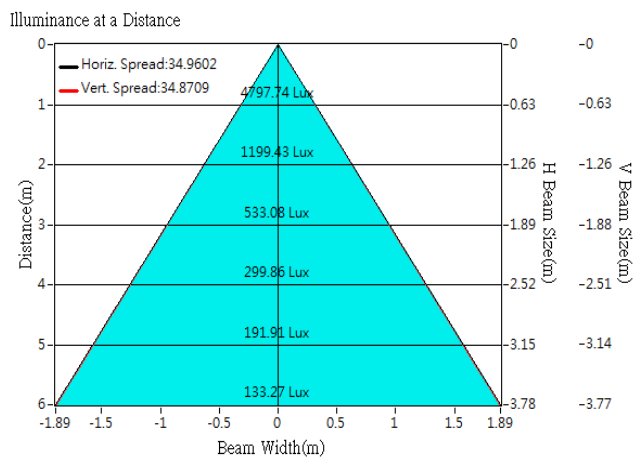
Optical Characteristics

Model Number	CKO-CH15-075033-4405		"H" definition 
LED	CREE CXB1520		
LES / LED Size	Φ 9 mm		
FWHM (D50)	35°		
Field Angle (D10)	60°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2055 lm	Measured @ 16.7W	
Material	PC / UL94V2		

cd/klm

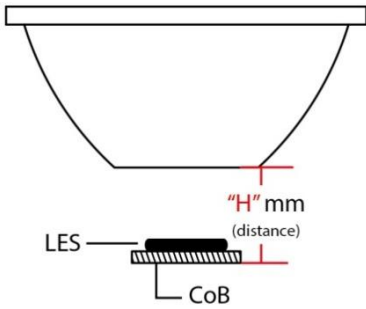


Illuminance At Distances

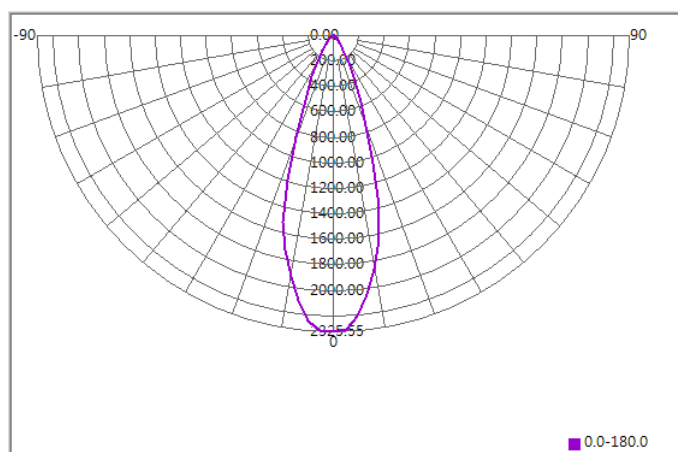




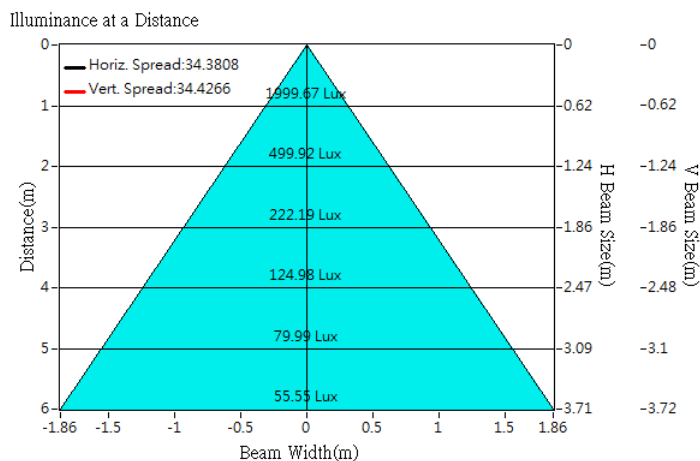
Optical Characteristics

Model Number	CKO-CH15-075033-4405		
LED	CMT1407		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	34°		
Field Angle (D10)	61°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	860 lm	Measured @ 7 W	
Material	PC / UL94V2		

cd/klm

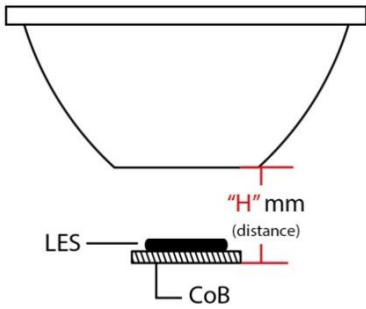


Illuminance At Distances

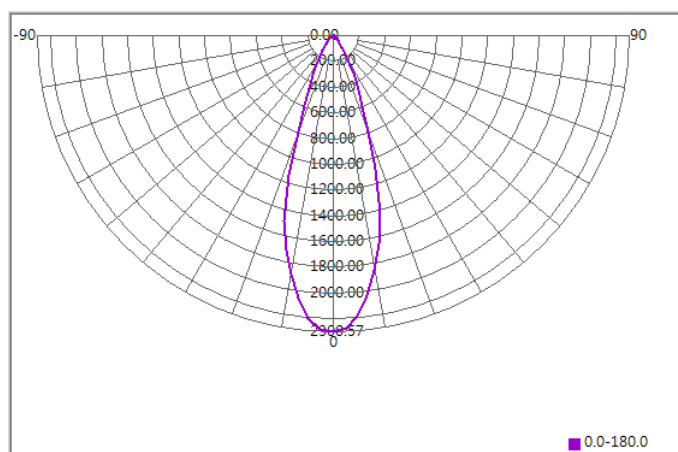




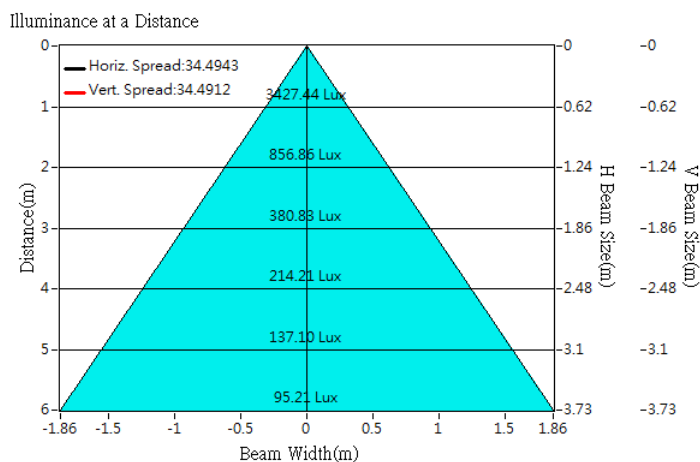
Optical Characteristics

Model Number	CKO-CH15-075033-4405		
LED	CMT1412		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	34°		
Field Angle (D10)	62°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1489 lm	Measured @12.2 W	
Material	PC / UL94V2		

cd/klm

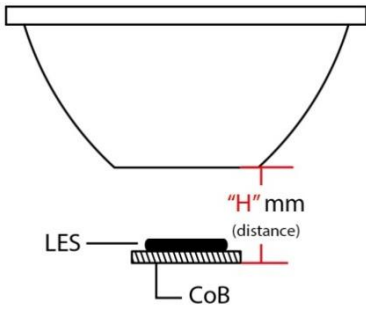


Illuminance At Distances

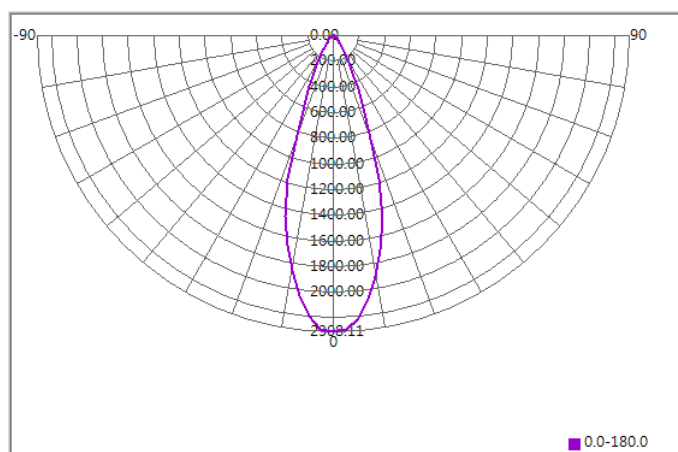




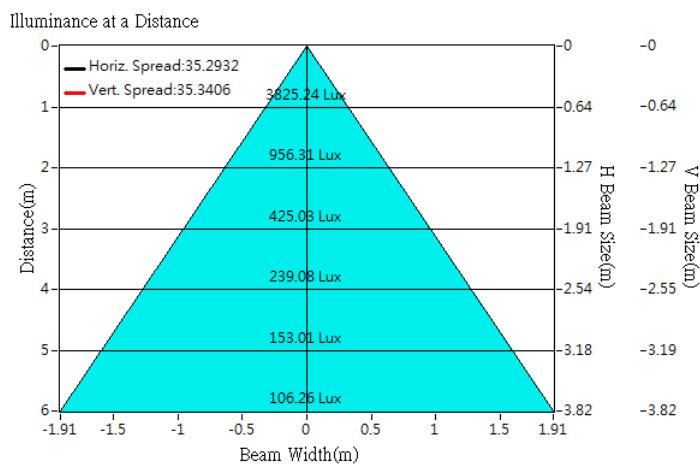
Optical Characteristics

Model Number	CKO-CH15-075033-4405		
LED	CXA1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	35°		
Field Angle (D10)	62°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1657 lm	Measured @ 17 W	
Material	PC / UL94V2		

cd/klm

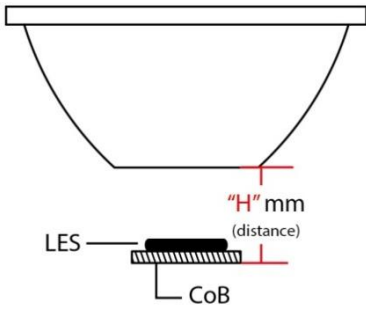


Illuminance At Distances

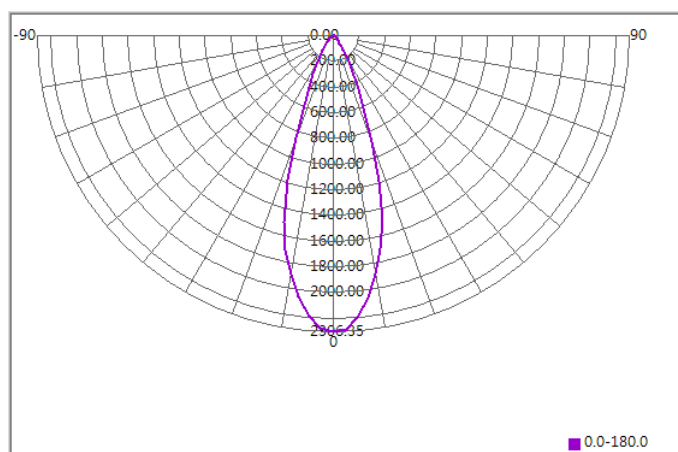




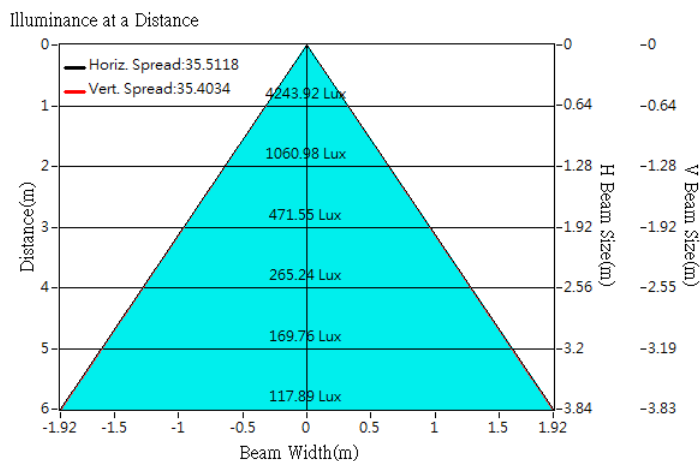
Optical Characteristics

Model Number	CKO-CH15-075033-4405		
LED	CXB1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	36°		
Field Angle (D10)	62°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1840 lm	Measured @ 15.6 W	
Material	PC / UL94V2		

cd/klm

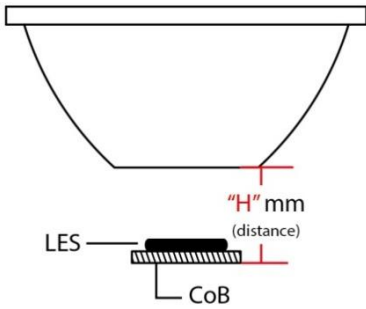


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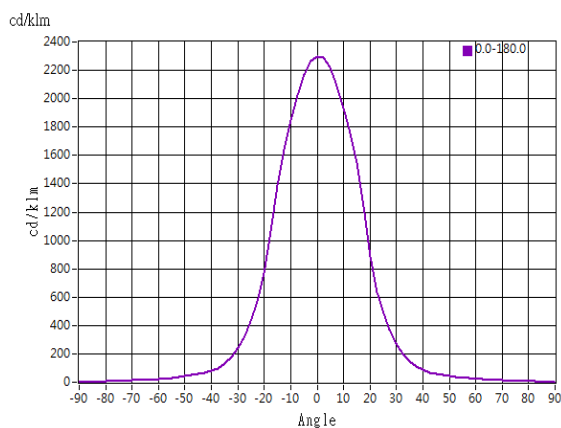




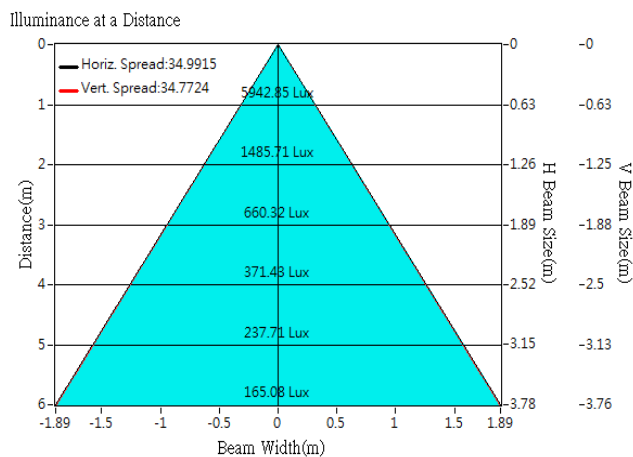
Optical Characteristics

Model Number	CKO-CH15-075033-4405		"H" definition 
LED	CREE CXA1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	35°		
Field Angle (D10)	62°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2591 lm	Measured @ 30.9W	
Material	PC / UL94V2		

cd/klm

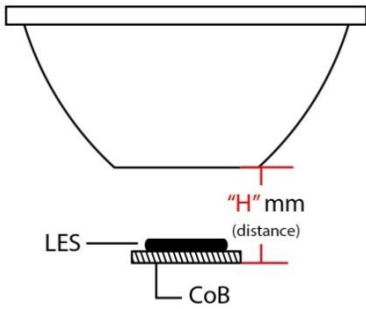


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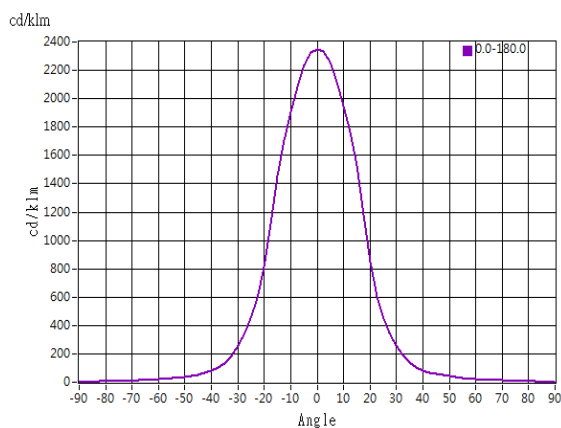




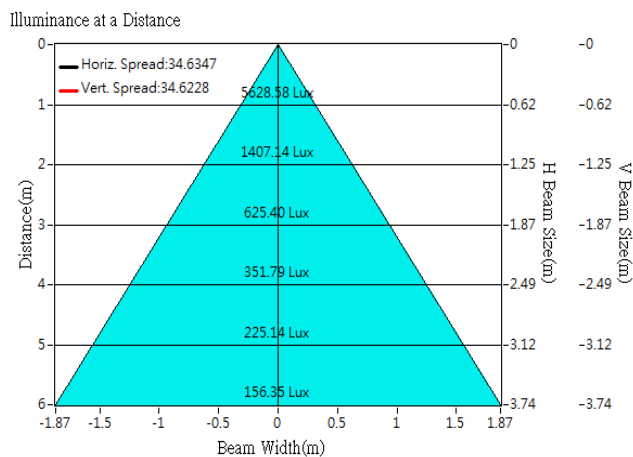
Optical Characteristics

Model Number	CKO-CH15-075033-4405		"H" definition 
LED	CREE CXB1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	35°		
Field Angle (D10)	62°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2396 lm	Measured @ 19.6W	
Material	PC / UL94V2		

cd/klm

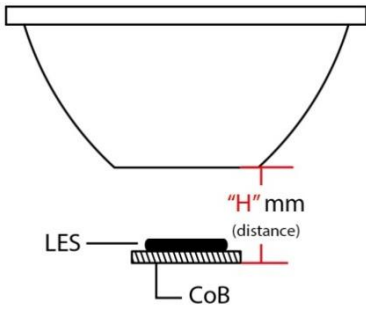


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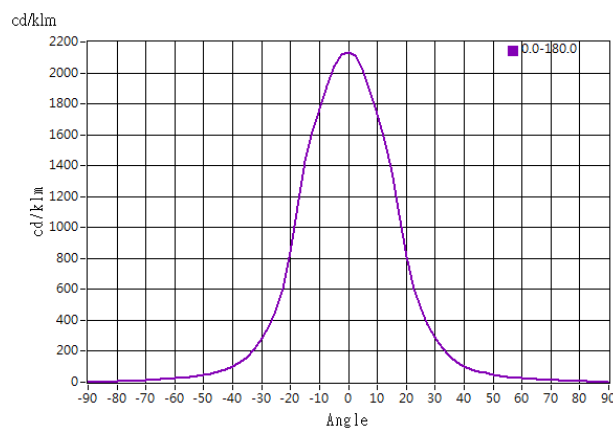




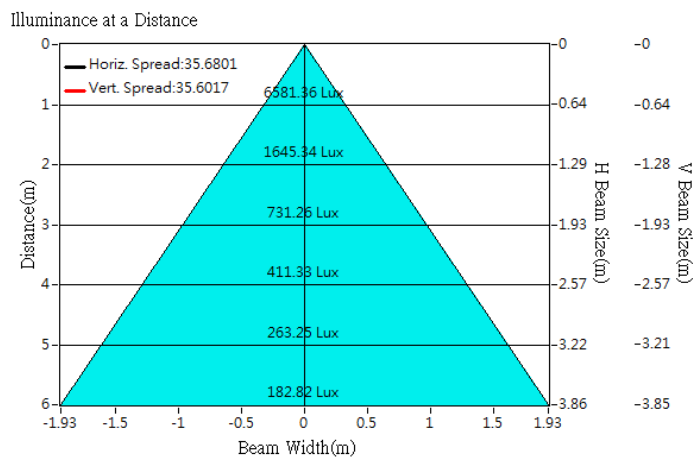
Optical Characteristics

Model Number	CKO-CH15-075033-4405		"H" definition 
LED	CMA1825		
LES / LED Size	Φ 12 mm		
FWHM (D50)	36°		
Field Angle (D10)	66°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	3082 lm	Measured @ 24.4 W	
Material	PC / UL94V2		

cd/klm

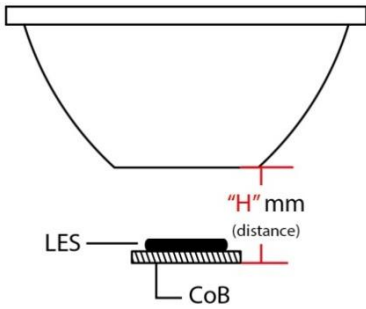


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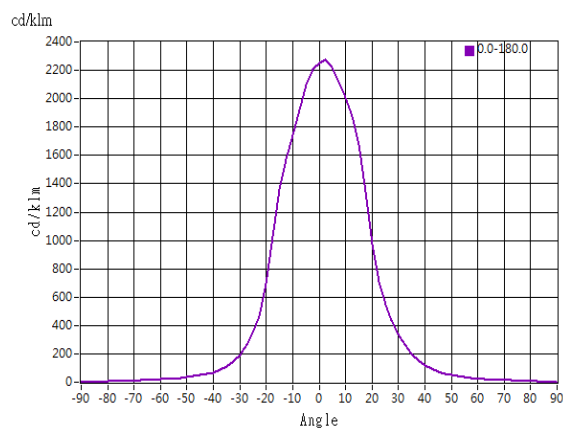




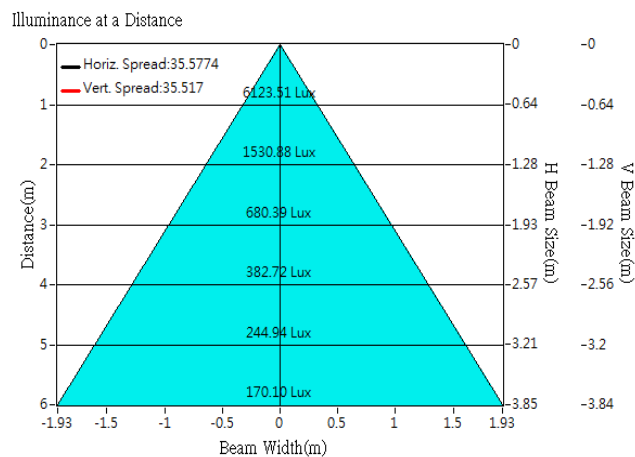
Optical Characteristics

Model Number	CKO-CH15-075033-4405		"H" definition 
LED	CREE CXA1830		
LES / LED Size	Φ 14 mm		
FWHM (D50)	36°		
Field Angle (D10)	63°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2719 lm	Measured @ 28.7W	
Material	PC / UL94V2		

cd/klm

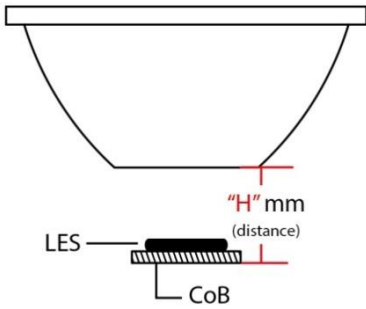


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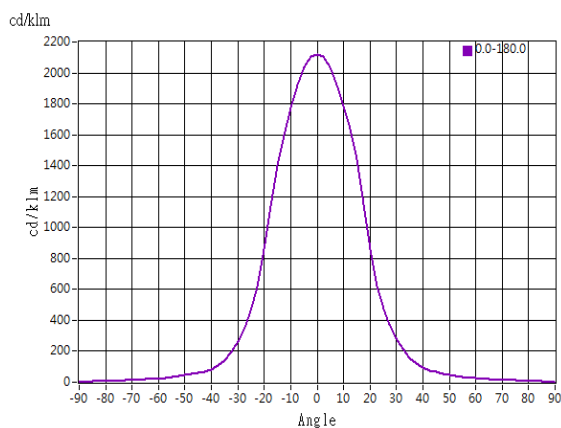




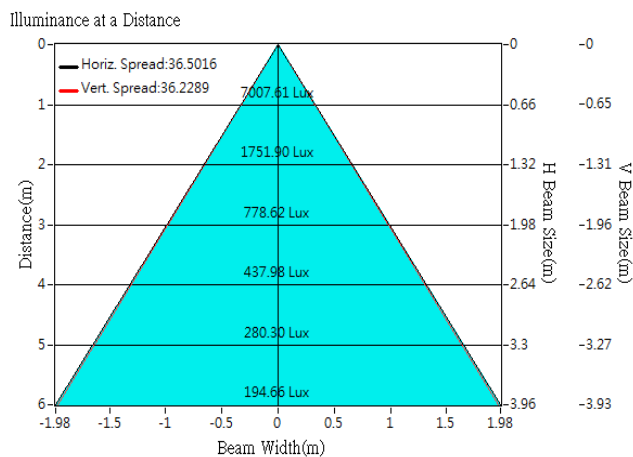
Optical Characteristics

Model Number	CKO-CH15-075033-4405		
LED	CREE CXB1830		
LES / LED Size	Φ 14 mm		
FWHM (D50)	37°		
Field Angle (D10)	65°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	3303 lm	Measured @ 28.3 W	
Material	PC / UL94V2		

cd/klm

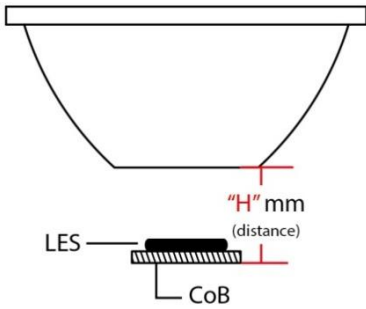


Illuminance At Distances

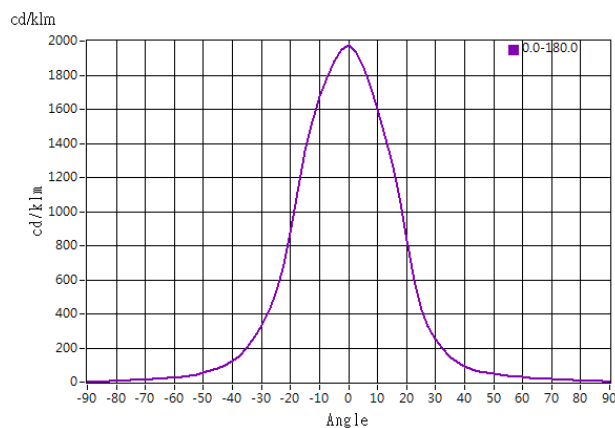




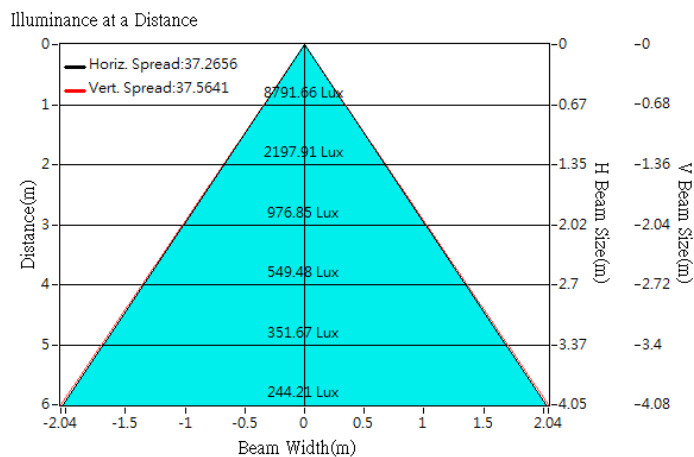
Optical Characteristics

Model Number	CKO-CH15-075033-4405		"H" definition 
LED	CREE CMA1840		
LES / LED Size	Φ 14 mm		
FWHM (D50)	37°		
Field Angle (D10)	68°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	4452 lm	Measured @ 40.7 W	
Material	PC / UL94V2		

cd/klm

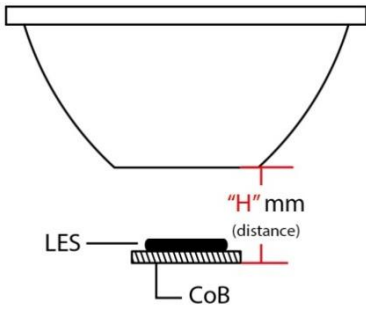


Illuminance At Distances

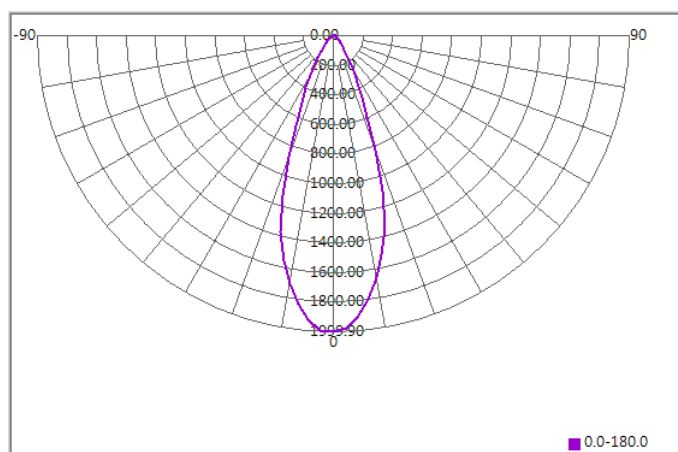




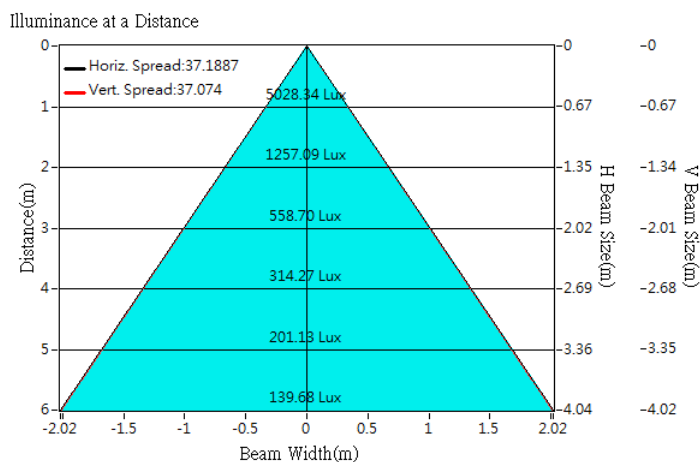
Optical Characteristics

Model Number	CKO-CH15-075033-4405		
LED	CMT1922		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	37°		
Field Angle (D10)	67°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2514 lm	Measured @ 22 W	
Material	PC / UL94V2		

cd/klm

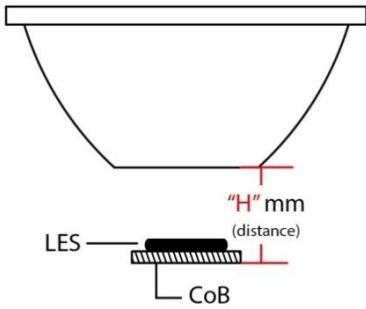


Illuminance At Distances

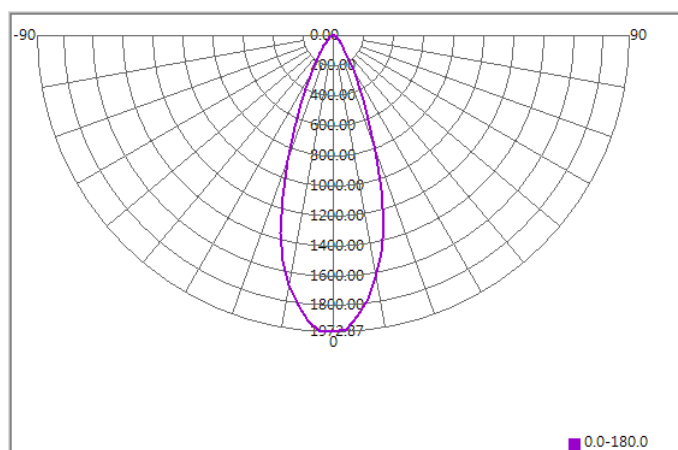




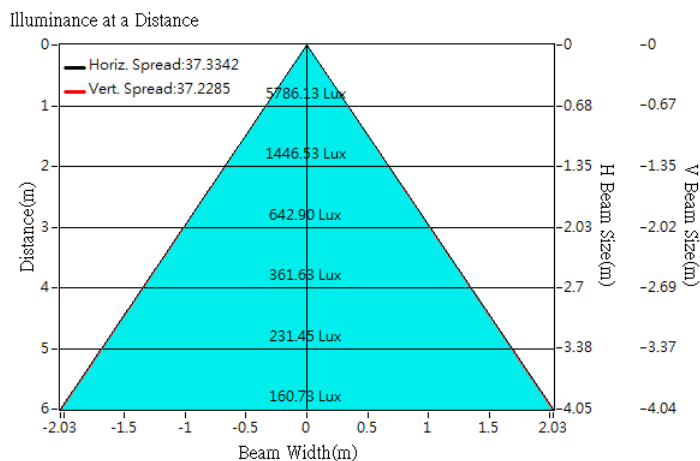
Optical Characteristics

Model Number	CKO-CH15-075033-4405		"H" definition 
LED	CMT1925		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	37°		
Field Angle (D10)	68°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2933 lm	Measured @ 25 W	
Material	PC / UL94V2		

cd/klm

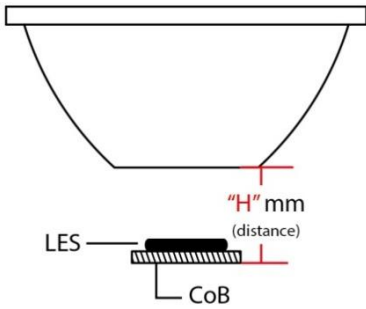


Illuminance At Distances

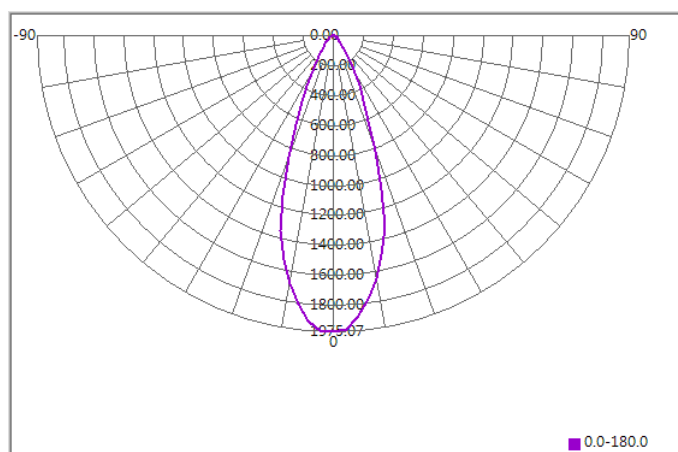




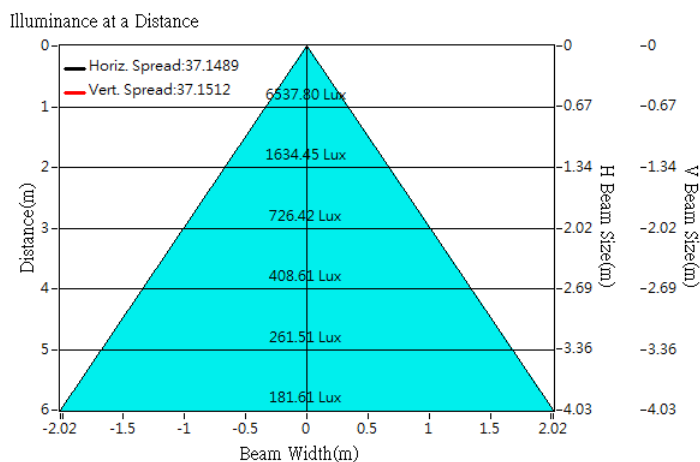
Optical Characteristics

Model Number	CKO-CH15-075033-4405		
LED	CMT1930		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	37°		
Field Angle (D10)	67°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	3310 lm	Measured @ 29 W	
Material	PC / UL94V2		

cd/klm

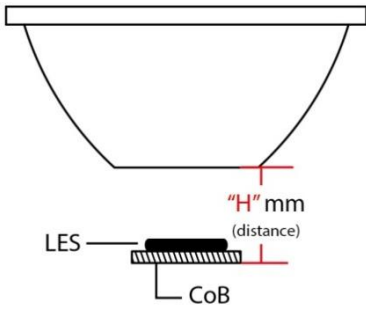


Illuminance At Distances

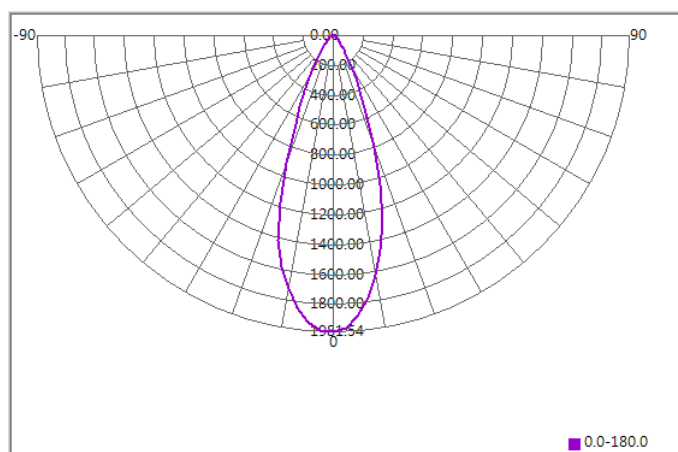




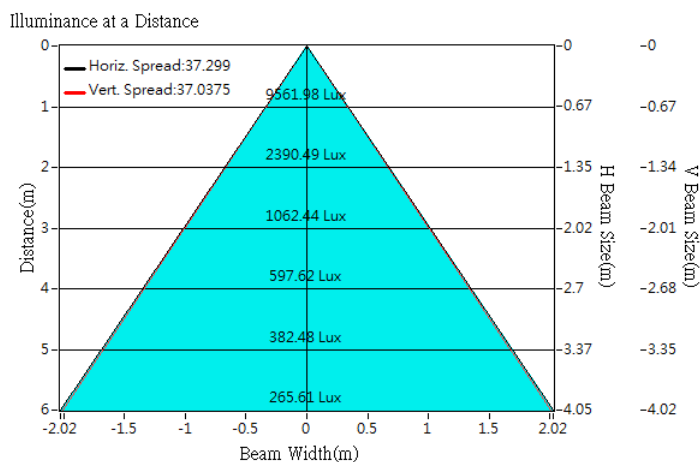
Optical Characteristics

Model Number	CKO-CH15-075033-4405		
LED	CMT1945		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	37°		
Field Angle (D10)	67°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	4825 lm	Measured @ 44 W	
Material	PC / UL94V2		

cd/klm

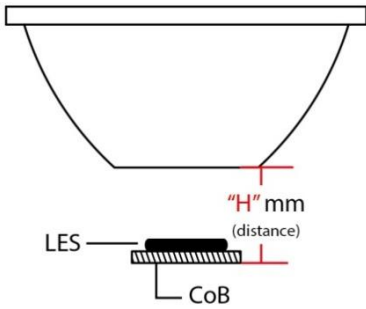


Illuminance At Distances

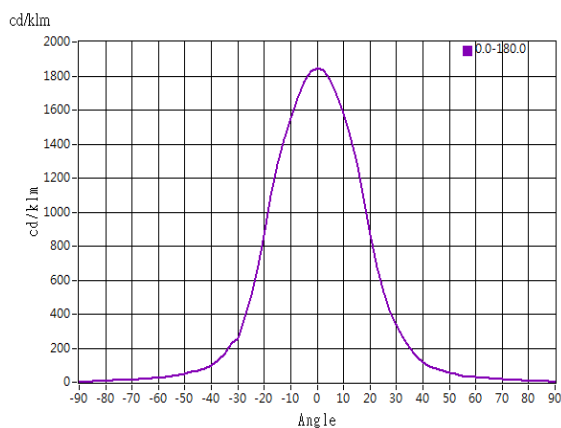




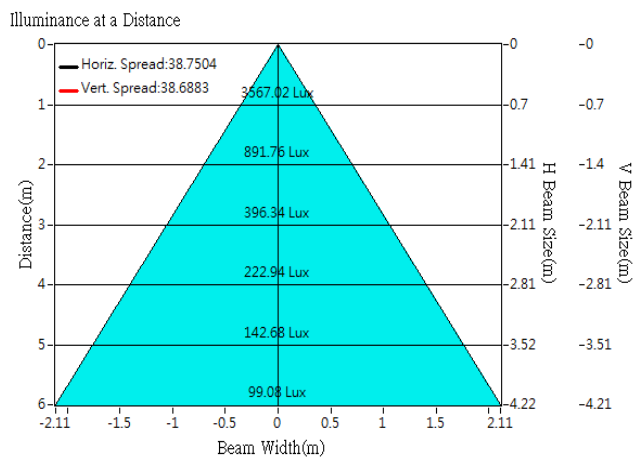
Optical Characteristics

Model Number	CKO-CH15-075033-4405		“H” definition 
LED	CREE CXA2520		
LES / LED Size	Φ 19 mm		
FWHM (D50)	39°		
Field Angle (D10)	70°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	1933 lm	Measured @ 20.2 W	
Material	PC / UL94V2		

cd/klm

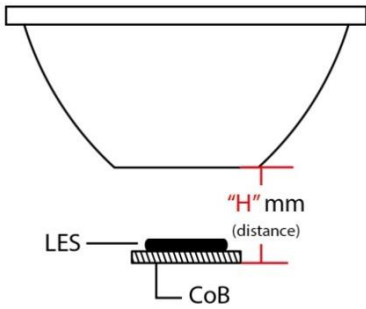


Illuminance At Distances

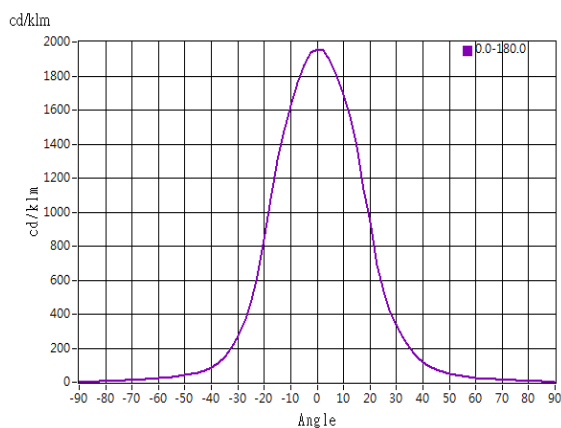




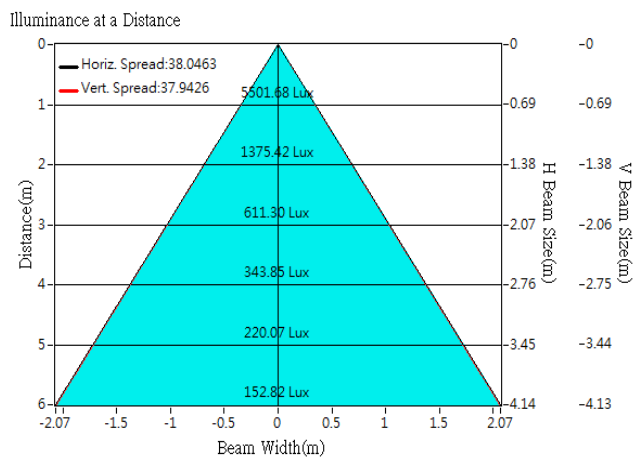
Optical Characteristics

Model Number	CKO-CH15-075033-4405		"H" definition 
LED	CREE CXA2530		
LES / LED Size	Φ 19 mm		
FWHM (D50)	38°		
Field Angle (D10)	68°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	2808 lm	Measured @ 29.7 W	
Material	PC / UL94V2		

cd/klm

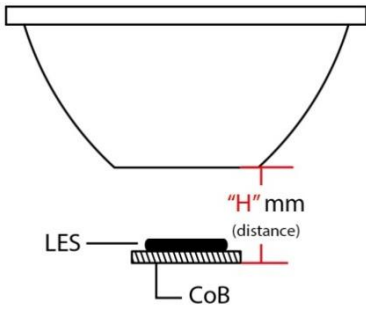


Illuminance At Distances

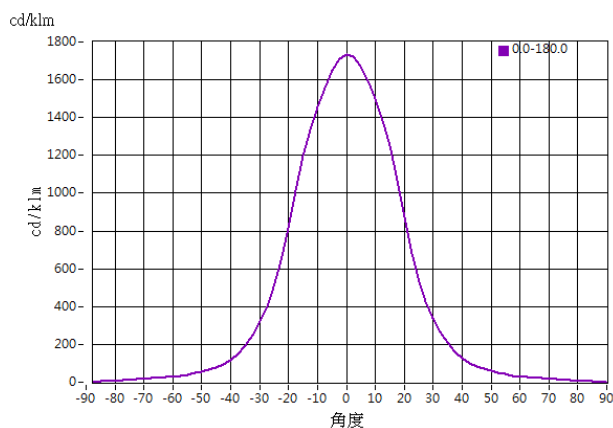




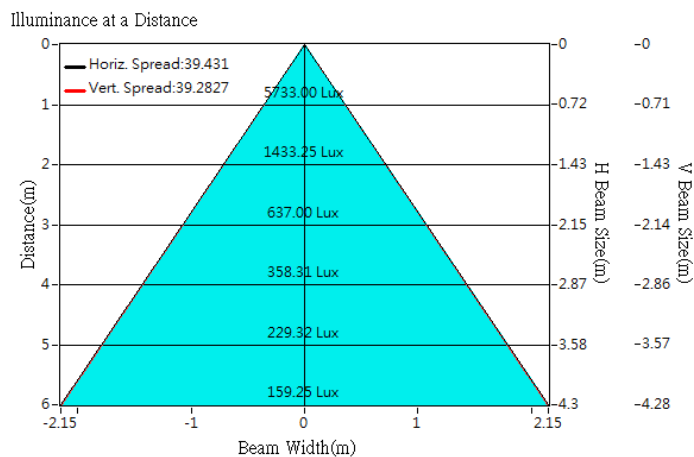
Optical Characteristics

Model Number	CKO-CH15-075033-4405		
LED	CXB2530		
LES / LED Size	Φ 19 mm		
FWHM (D50)	39°		
Field Angle (D10)	73°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	3304 lm	Measured @ 27.8 W	
Material	PC / UL94V2		

cd/klm

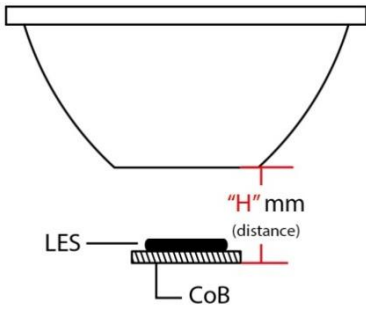


Illuminance At Distances

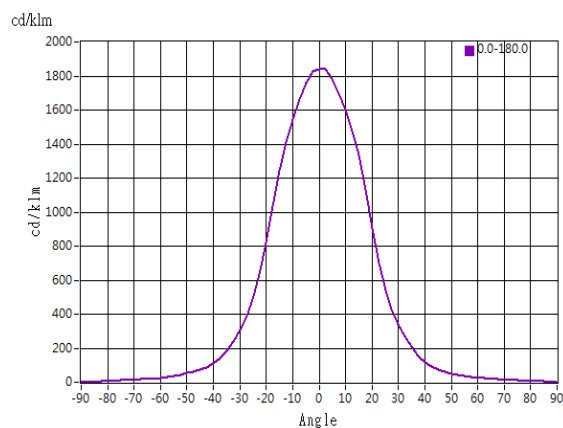




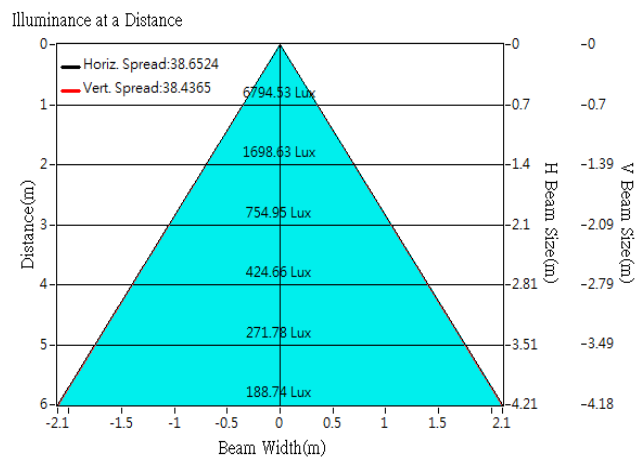
Optical Characteristics

Model Number	CKO-CH15-075033-4405		"H" definition 
LED	CREE CXA2540		
LES / LED Size	Φ 19 mm		
FWHM (D50)	39°		
Field Angle (D10)	71°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	3697 lm	Measured @ 39.8 W	
Material	PC / UL94V2		

cd/klm

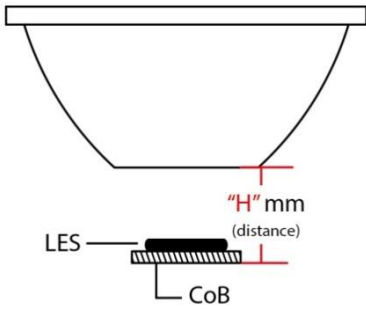


Illuminance At Distances

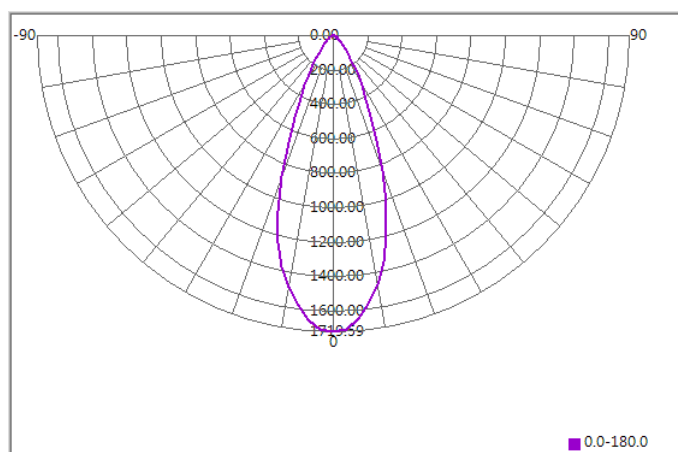




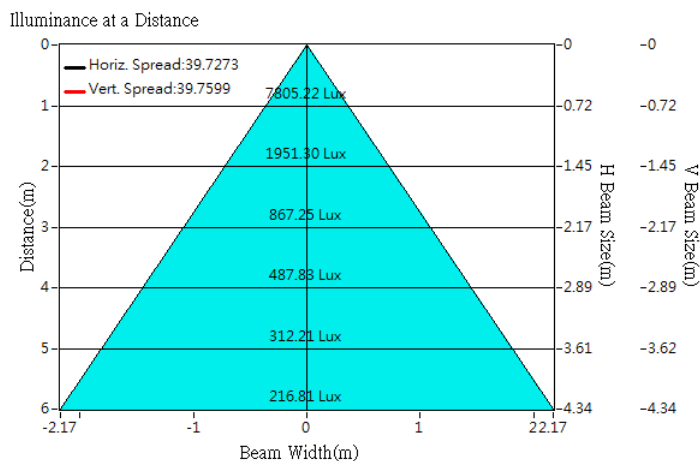
Optical Characteristics

Model Number	CKO-CH15-075033-4405		
LED	CXB2540		
LES / LED Size	Φ 19 mm		
FWHM (D50)	40°		
Field Angle (D10)	74°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	4539 lm	Measured @ 38 W	
Material	PC / UL94V2		

cd/klm

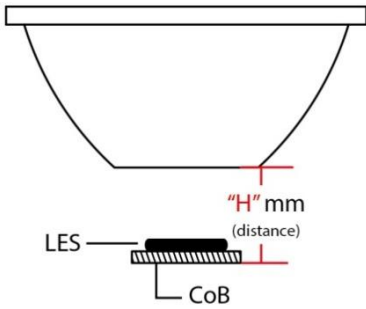


Illuminance At Distances

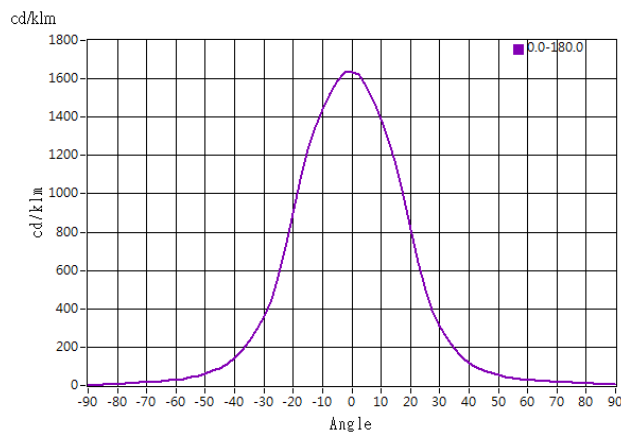




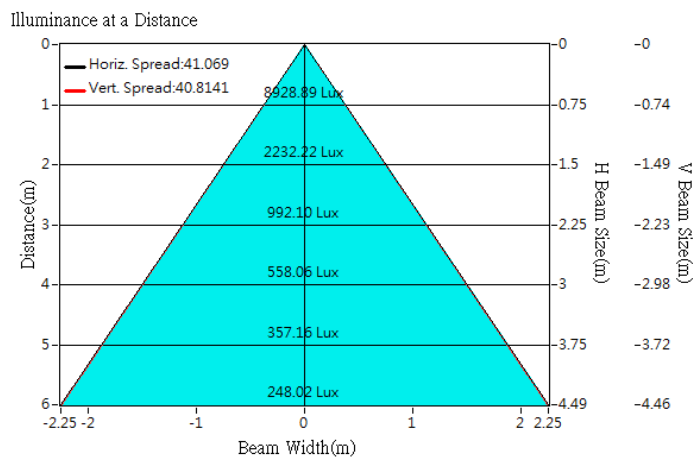
Optical Characteristics

Model Number	CKO-CH15-075033-4405		
LED	CMA2550		
LES / LED Size	Φ 19 mm		
FWHM (D50)	41°		
Field Angle (D10)	75°		
H (distance)	3.65mm		
Dimension	Φ =75 mm, Thickness=33 mm		
Luminous Flux	5461 lm	Measured @ 43.1 W	
Material	PC / UL94V2		

cd/klm

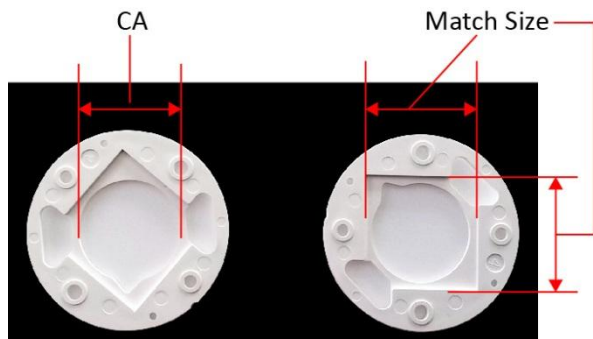


Illuminance At Distances





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