



Product Model Number

CKO-CH15-045021-1602

✓ Model Number Definitions

CKO-XXXX-XXXXXX-XXXX

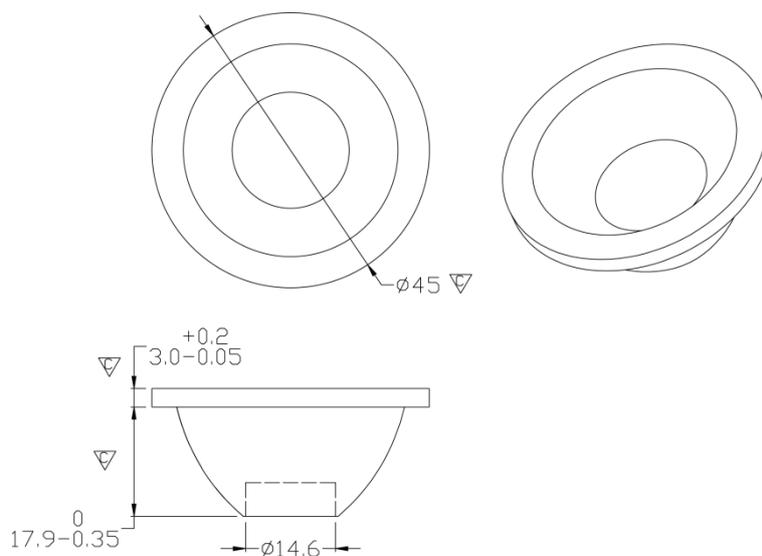


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation
Ex:
CH→CoB High Intensity
CC→CoB Compact
CS→Soft Shading for CoB LED
HC→Holder for CoB LED

- 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) : Φ45 x 20.9



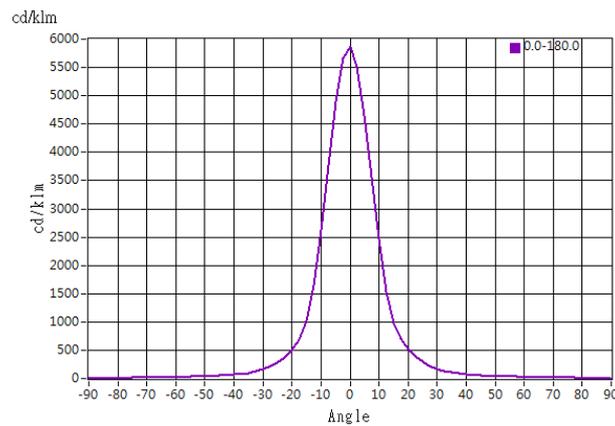
▽:Critical Dimension



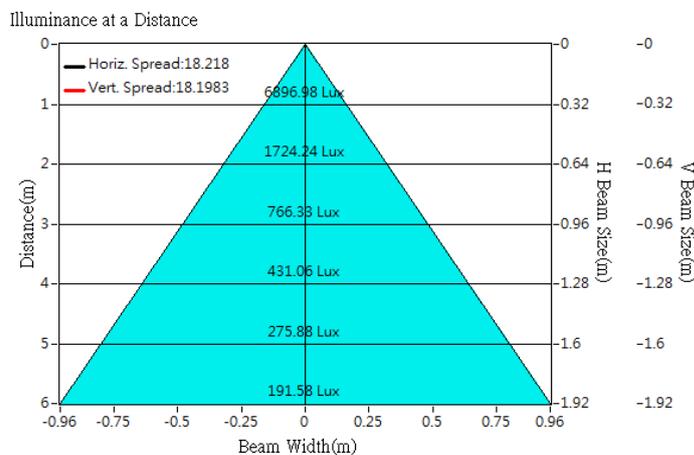
Optical Characteristics

Model Number	CKO-CH15-045021-1602		<p>"H" definition</p>
LED	MHD-G		
LES / LED Size	7.0 x 7.0		
FWHM (D50)	18°		
Field Angle (D10)	38°		
H (distance)	2.5 mm		
MCPCB Height	1.1 mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1173 lm	Measured @ 12.9 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

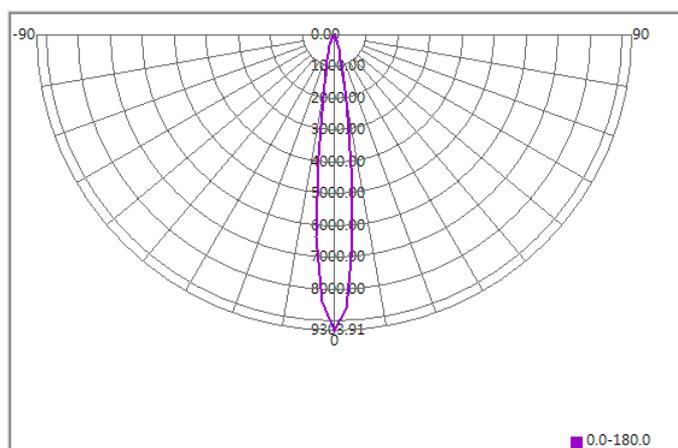




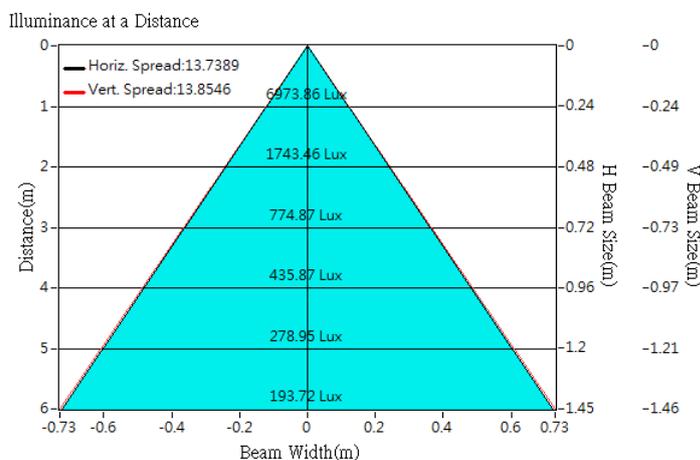
Optical Characteristics

Model Number	CKO-CH15-045021-1602		<p>"H" definition</p> <p>LES CoB</p>
LED	CMA1303		
LES / LED Size	Φ 4.5 mm		
FWHM (D50)	13°		
Field Angle (D10)	28°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	749.5 lm	Measured @ 6.7 W	
Material	PC / UL94V2		

cd/klm

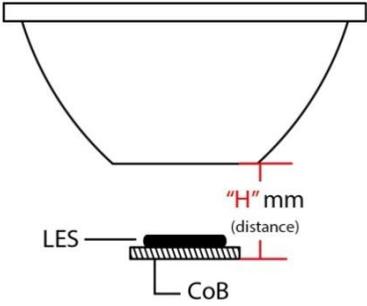


Illuminance At Distances

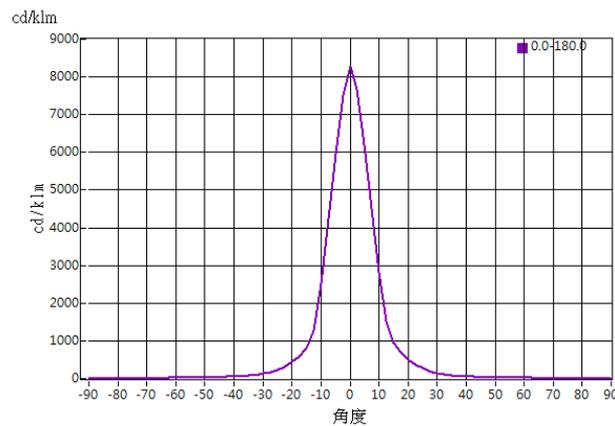




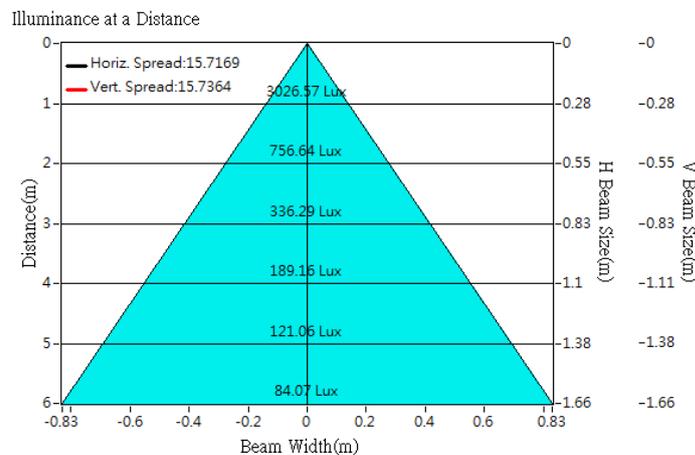
Optical Characteristics

Model Number	CKO-CH15-045021-1602		<p>"H" definition</p> 
LED	CREE CXA1304		
LES / LED Size	Φ 6 mm		
FWHM (D50)	15°		
Field Angle (D10)	31°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	366 lm	Measured @ 3.7 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

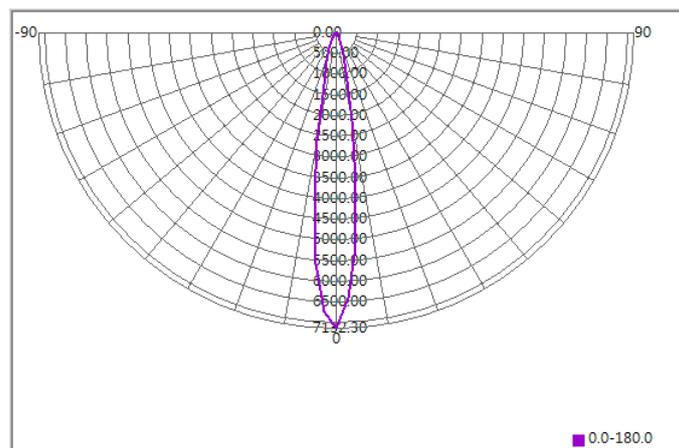




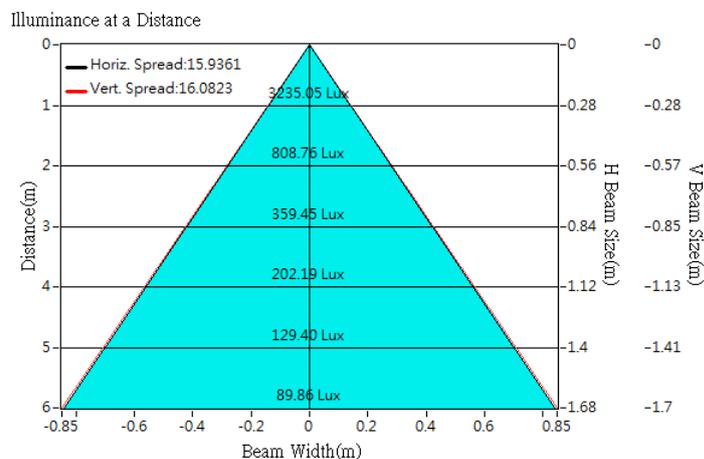
Optical Characteristics

Model Number	CKO-CH15-045021-1602		<p>"H" definition</p> <p>LES CoB</p>
LED	CREE CXB1304		
LES / LED Size	Φ 6 mm		
FWHM (D50)	15°		
Field Angle (D10)	33°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	436 lm	Measured @ 3.4 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

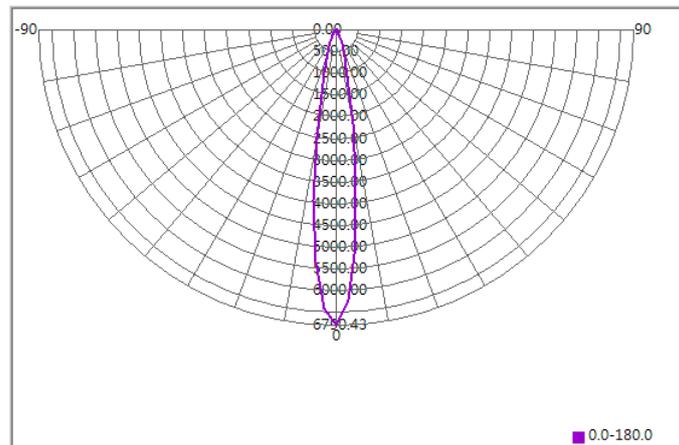




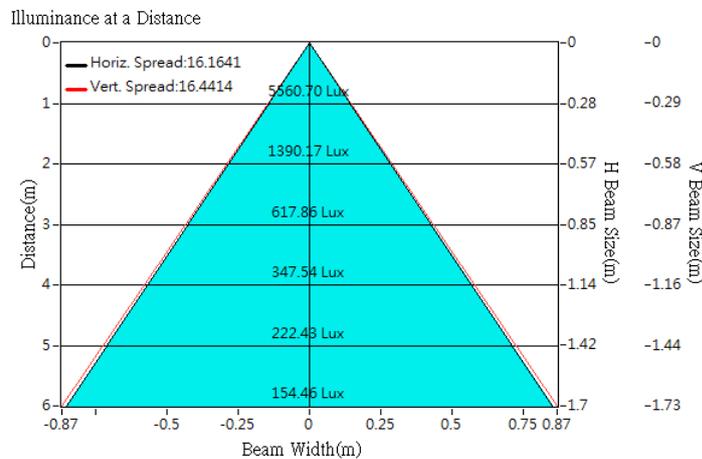
Optical Characteristics

Model Number	CKO-CH15-045021-1602		<p>"H" definition</p> <p>LES CoB</p>
LED	CMA1306		
LES / LED Size	Φ 6 mm		
FWHM (D50)	16°		
Field Angle (D10)	35°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	818 lm	Measured @ 6.2 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

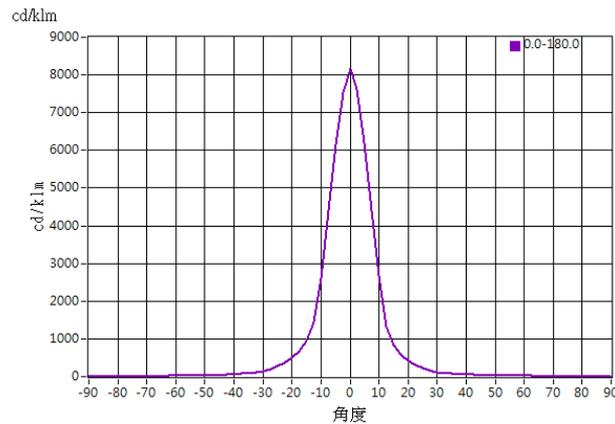




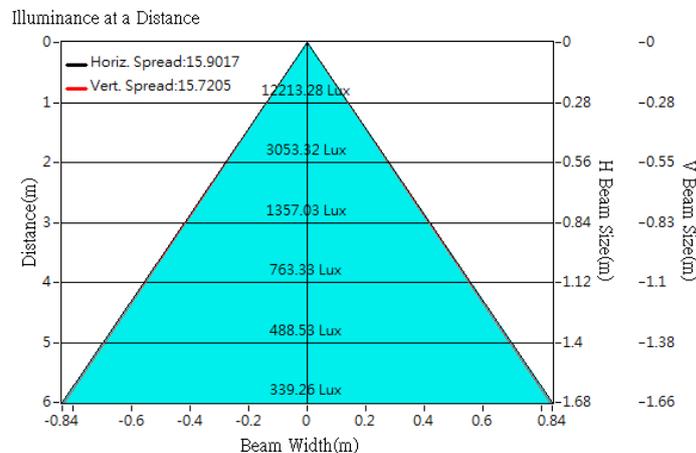
Optical Characteristics

Model Number	CKO-CH15-045021-1602	<p>"H" definition</p>
LED	CREE CXB1310	
LES / LED Size	Φ 6 mm	
FWHM (D50)	15°	
Field Angle (D10)	31°	
H (distance)	2.5mm	
Dimension	Φ =45 mm, Thickness=20.9 mm	
Luminous Flux	1494 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

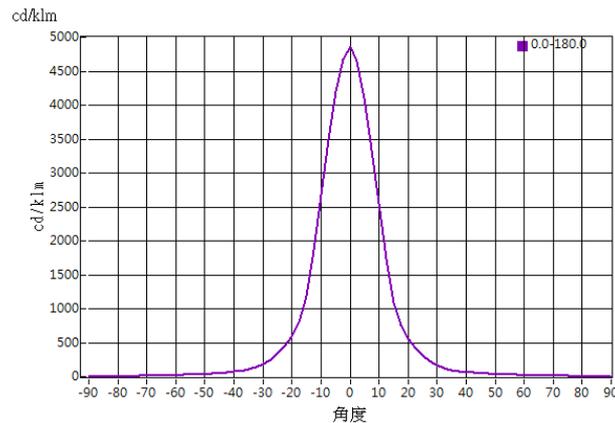




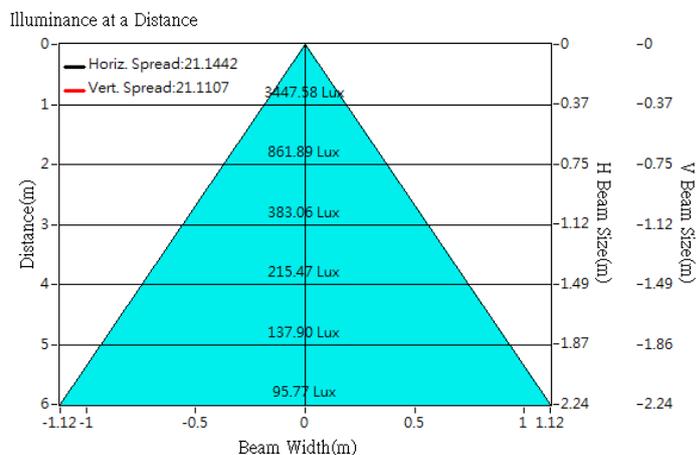
Optical Characteristics

Model Number	CKO-CH15-045021-1602		<p>"H" definition</p>
LED	CREE CXA1507		
LES / LED Size	Φ 9 mm		
FWHM (D50)	21°		
Field Angle (D10)	43°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	709 lm	Measured @ 7.3 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

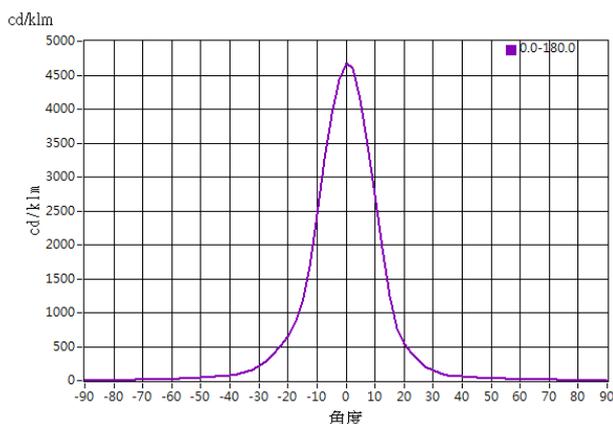




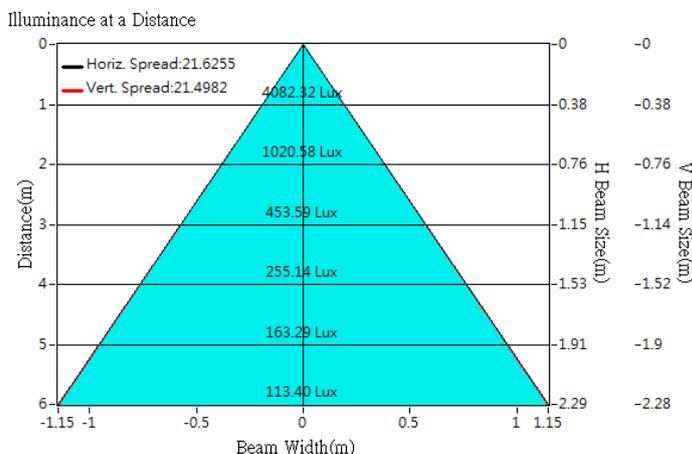
Optical Characteristics

Model Number	CKO-CH15-045021-1602		<p>"H" definition</p>
LED	CREE CXB1507		
LES / LED Size	Φ 9 mm		
FWHM (D50)	22°		
Field Angle (D10)	45°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	874 lm	Measured @ 7.2 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

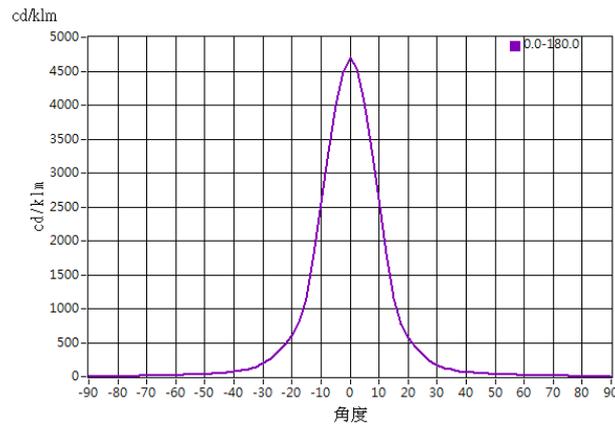




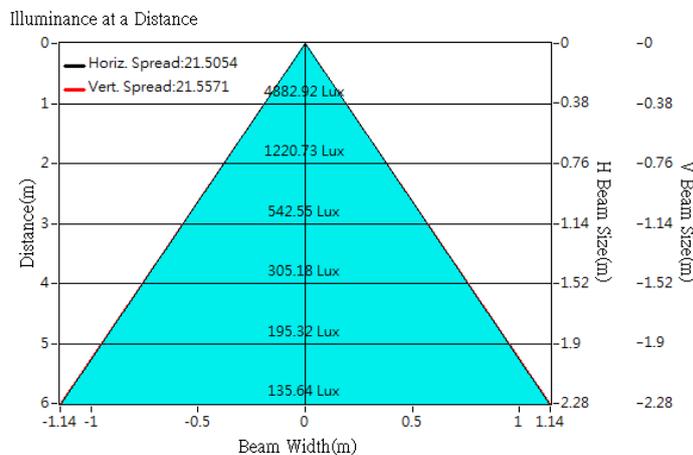
Optical Characteristics

Model Number	CKO-CH15-045021-1602		<p>"H" definition</p>
LED	CREE CXA1510		
LES / LED Size	Φ 9 mm		
FWHM (D50)	22°		
Field Angle (D10)	44°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1040 lm	Measured @ 9.1 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

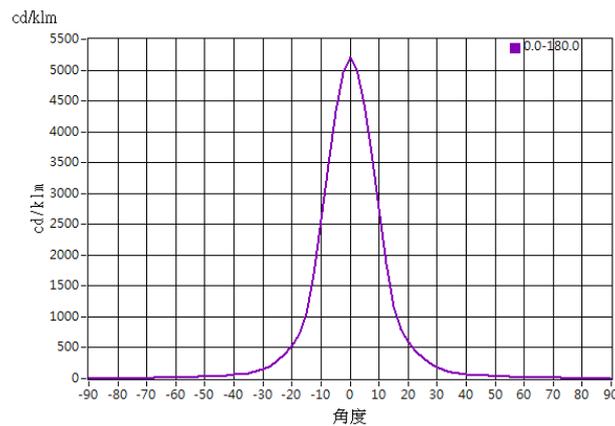




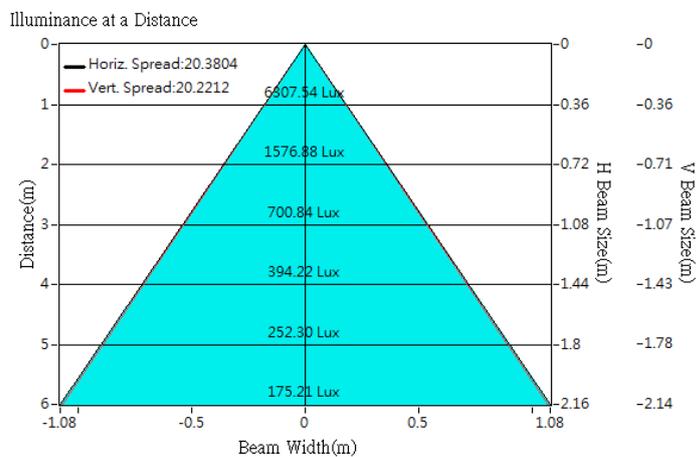
Optical Characteristics

Model Number	CKO-CH15-045021-1602		<p>"H" definition</p>
LED	CREE CXA1512		
LES / LED Size	Φ 9 mm		
FWHM (D50)	20°		
Field Angle (D10)	41°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1211 lm	Measured @ 13.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

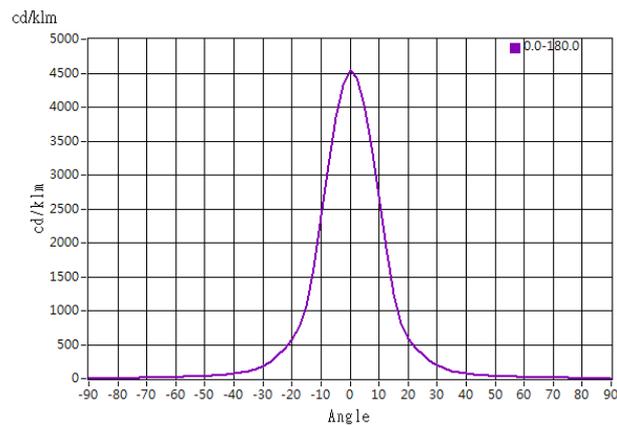




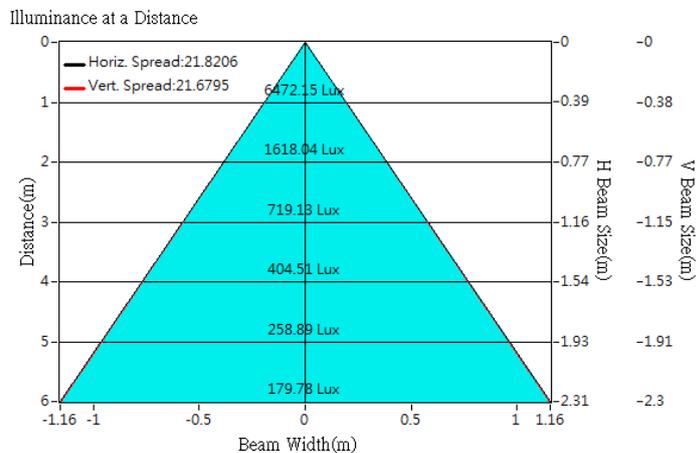
Optical Characteristics

Model Number	CKO-CH15-045021-1602		<p>"H" definition</p>
LED	CREE CXB1512		
LES / LED Size	Φ 9 mm		
FWHM (D50)	22°		
Field Angle (D10)	45°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1428 lm	Measured @ 12.2 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

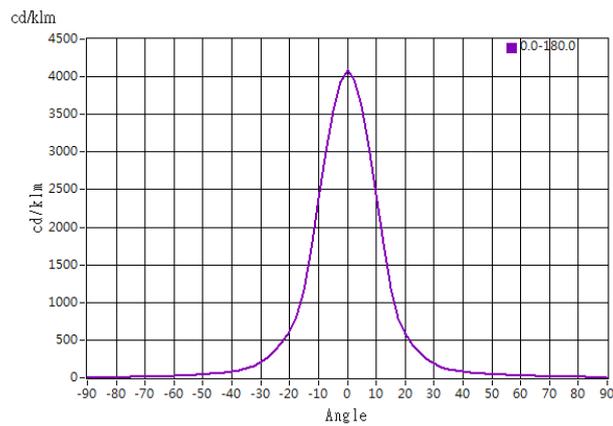




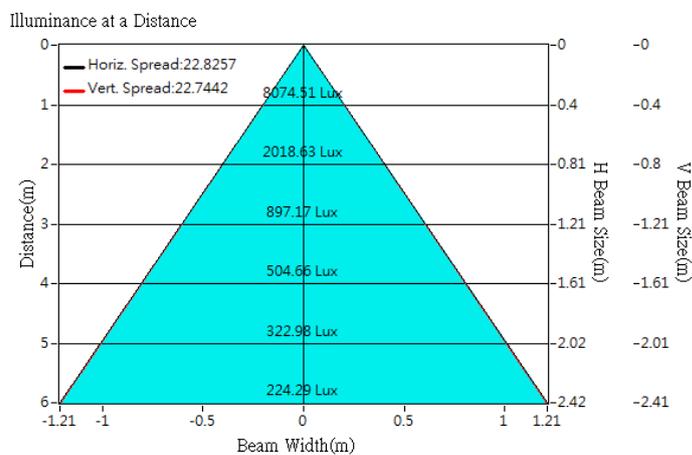
Optical Characteristics

Model Number	CKO-CH15-045021-1602		<p>"H" definition</p>
LED	CREE CMA1516		
LES / LED Size	Φ 9 mm		
FWHM (D50)	23°		
Field Angle (D10)	47°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1979 lm	Measured @ 15.8 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

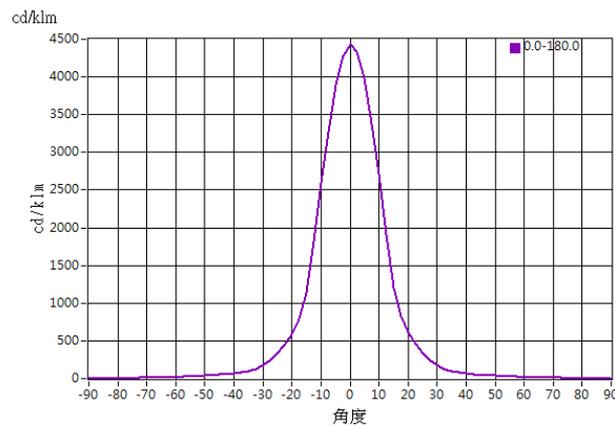




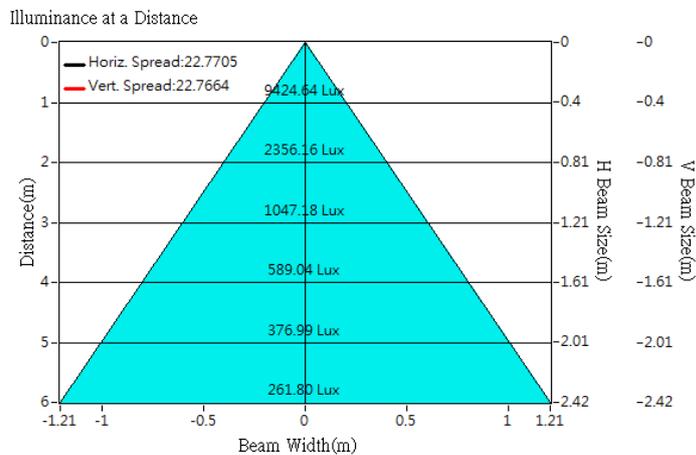
Optical Characteristics

Model Number	CKO-CH15-045021-1602		<p>"H" definition</p>
LED	CREE CXB1520		
LES / LED Size	Φ 9 mm		
FWHM (D50)	23°		
Field Angle (D10)	45°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	2126 lm	Measured @ 16.8W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

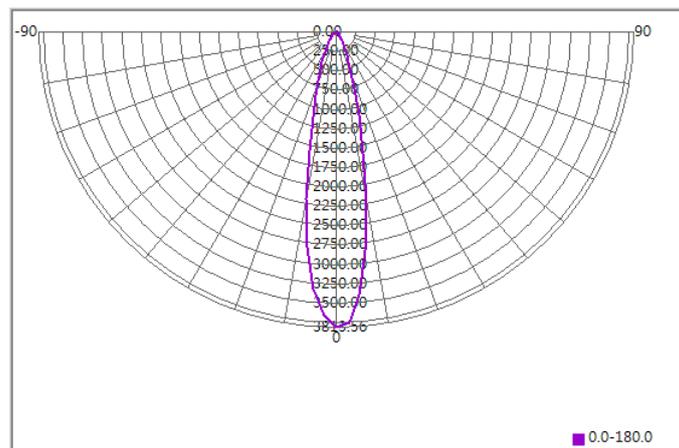




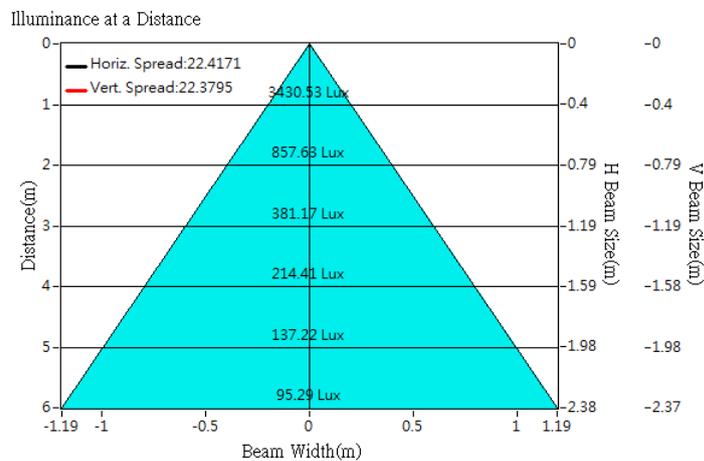
Optical Characteristics

Model Number	CKO-CH15-045021-1602		<p>"H" definition</p> <p>LES CoB</p>
LED	CMT1407		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	22°		
Field Angle (D10)	50°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	900 lm	Measured @ 6.9 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

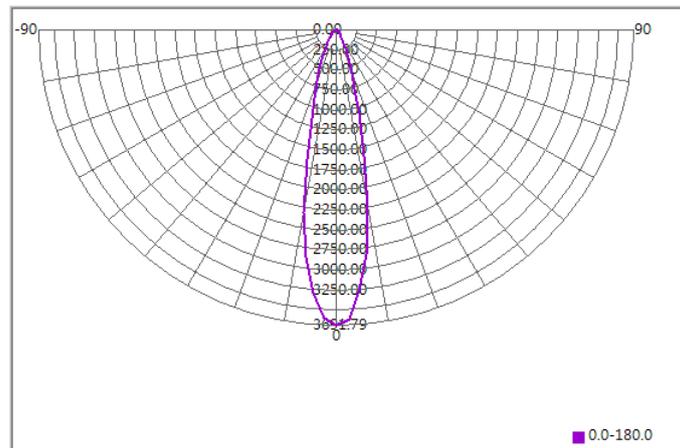




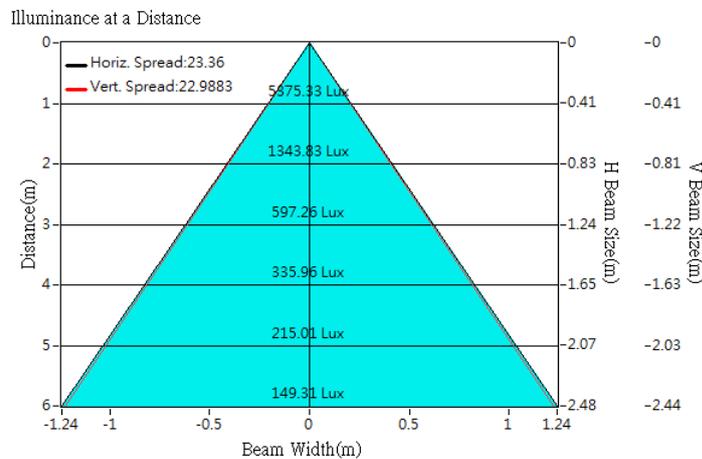
Optical Characteristics

Model Number	CKO-CH15-045021-1602		<p>"H" definition</p>
LED	CMT1412		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	23°		
Field Angle (D10)	51°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1456 lm	Measured @ 12.6 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

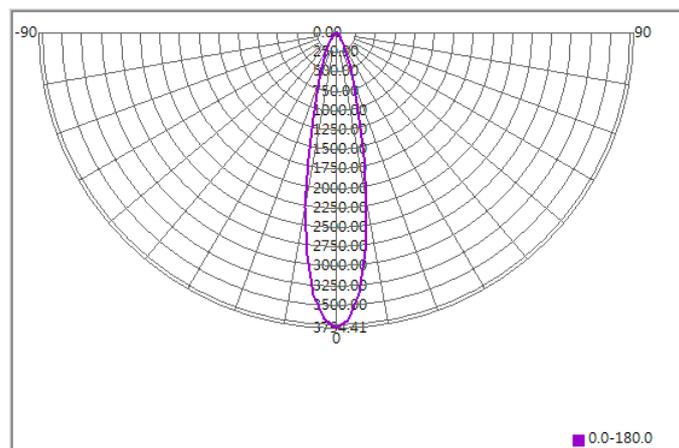




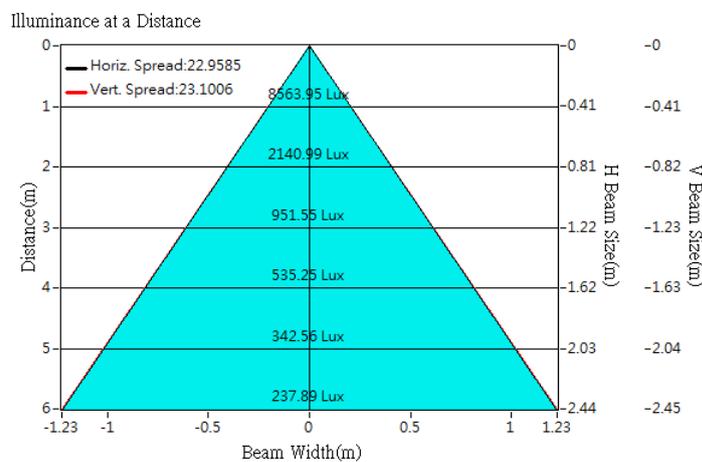
Optical Characteristics

Model Number	CKO-CH15-045021-1602		<p>"H" definition</p> <p>LES CoB</p>
LED	CMT1420		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	23°		
Field Angle (D10)	50°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	2257 lm	Measured @ 19 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

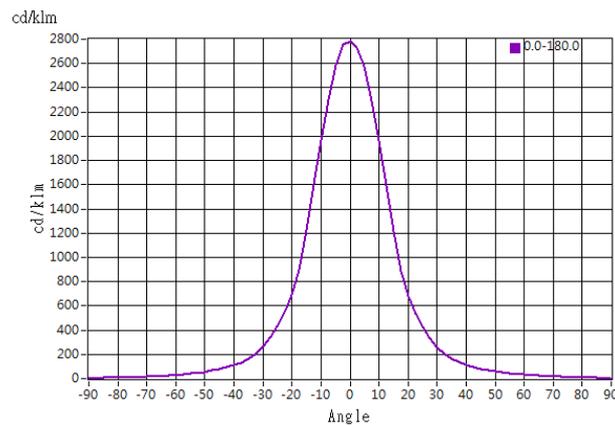




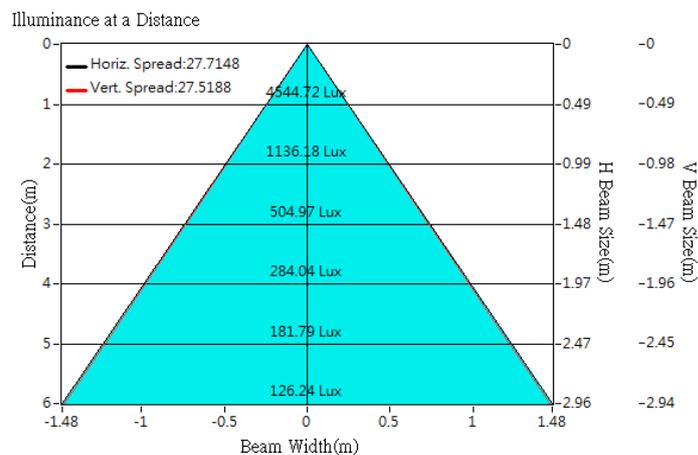
Optical Characteristics

Model Number	CKO-CH15-045021-1602		<p>"H" definition</p> <p>LES CoB</p>
LED	CREE CXA1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	28°		
Field Angle (D10)	59°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1631 lm	Measured @ 16.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

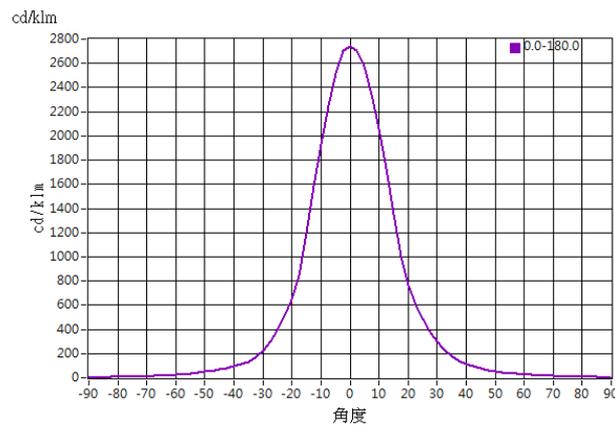




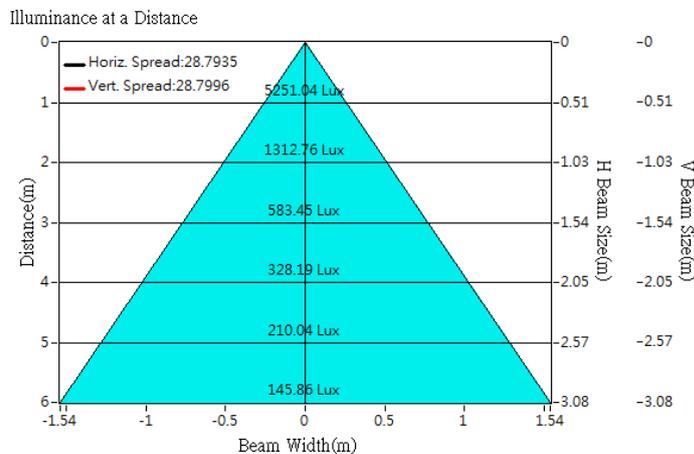
Optical Characteristics

Model Number	CKO-CH15-045021-1602		<p>"H" definition</p> <p>LES CoB</p>
LED	CREE CXB1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	29°		
Field Angle (D10)	59°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1919 lm	Measured @ 15.9W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

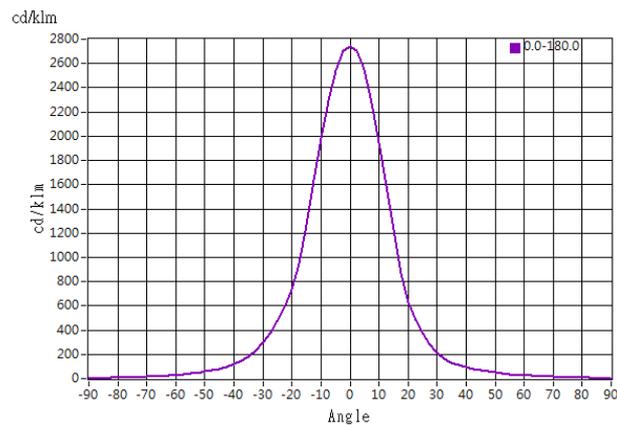




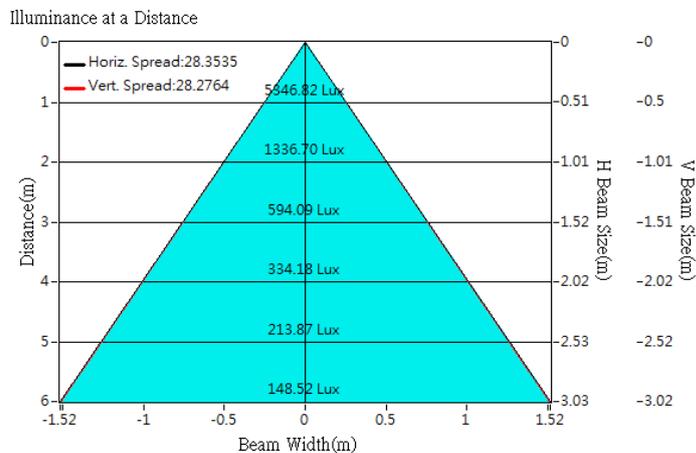
Optical Characteristics

Model Number	CKO-CH15-045021-1602		<p>"H" definition</p>
LED	CREE CXA1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	28°		
Field Angle (D10)	59°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1953 lm	Measured @ 20 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

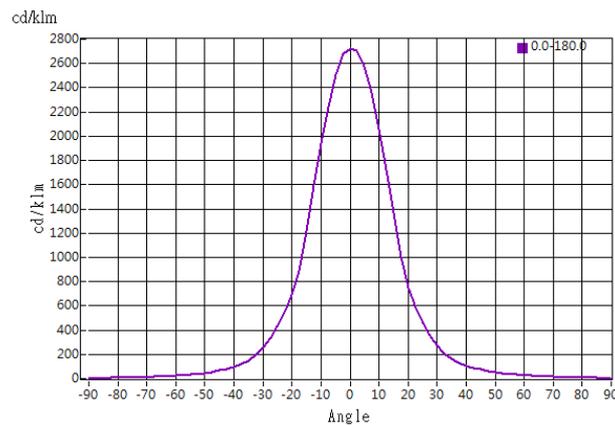




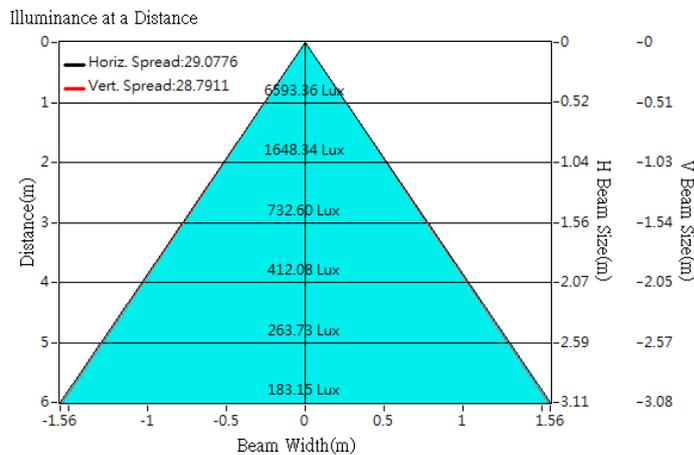
Optical Characteristics

Model Number	CKO-CH15-045021-1602		<p>"H" definition</p>
LED	CREE CXB1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	29°		
Field Angle (D10)	60°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	2424 lm	Measured @ 19.8 W	
Material	PC / UL94V2		

cd/klm

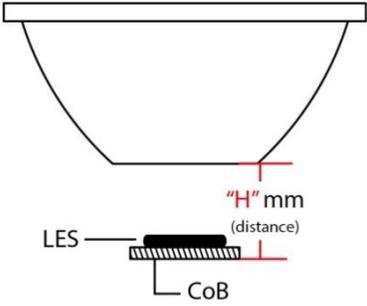


Illuminance At Distances

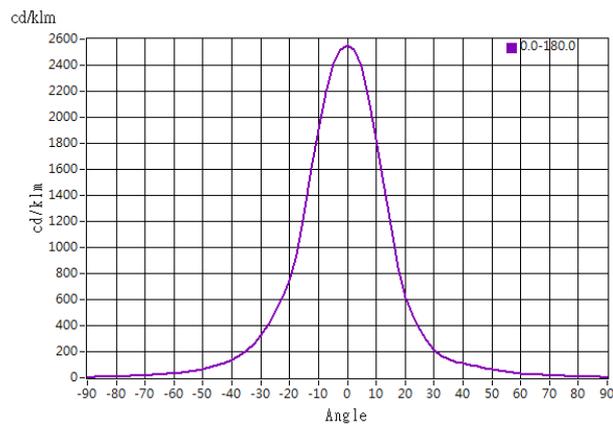




Optical Characteristics

Model Number	CKO-CH15-045021-1602		<p>"H" definition</p> 
LED	CREE CMA1825		
LES / LED Size	Φ 12 mm		
FWHM (D50)	29°		
Field Angle (D10)	61°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	2954 lm	Measured @ 25.1 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

