



Product Model Number

CKO-CH15-045021-1603

✓ Model Number Definitions

CKO-XXXX-XXXXXX-XXXX

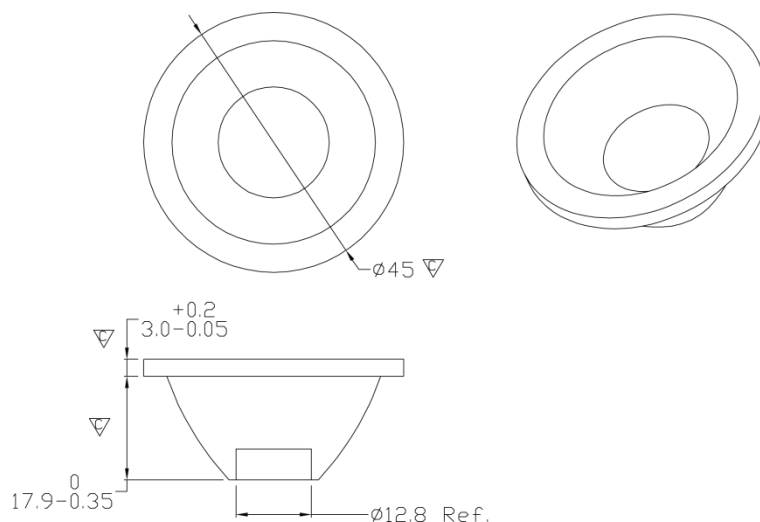


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation
Ex:
CH→CoB High Intensity
CC→CoB Compact
CS→Soft Shading for CoB LED
HC→Holder for CoB LED

- 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



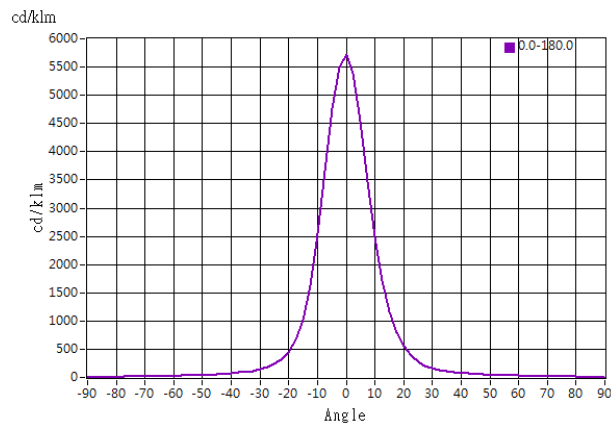
▽:Critical Dimension



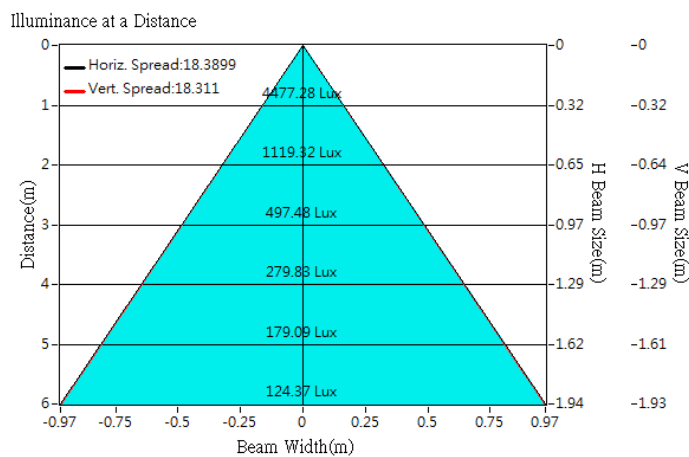
Optical Characteristics

Model Number	CKO-CH15-045021-1603		<p>"H" definition</p>
LED	XHP 50		
LES / LED Size	5.0 x 5.0		
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	783 lm	Measured @ 8.9 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

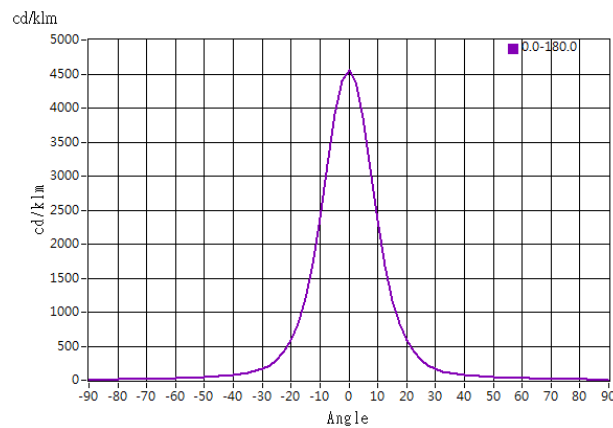




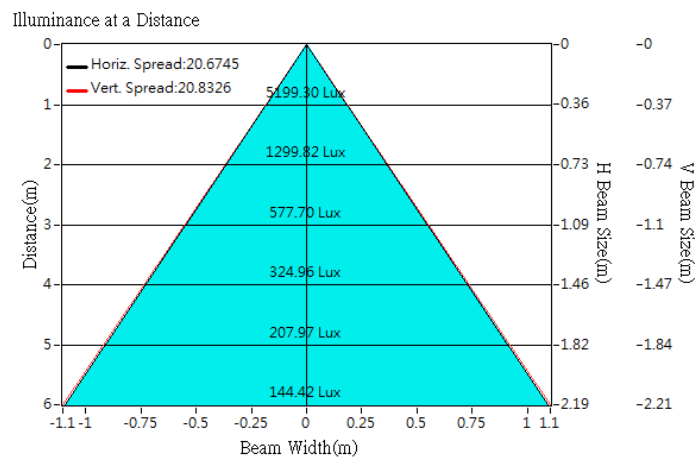
Optical Characteristics

Model Number	CKO-CH15-045021-1603		<p>"H" definition</p>
LED	MHD-G		
LES / LED Size	7.0 x 7.0		
FWHM (D50)	21°		
Field Angle (D10)	44°		
H (distance)	2.5 mm		
MCPCB Height	1.1 mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1141 lm	Measured @ 12.9 W	
Material	PC / UL94V2		

cd/klm

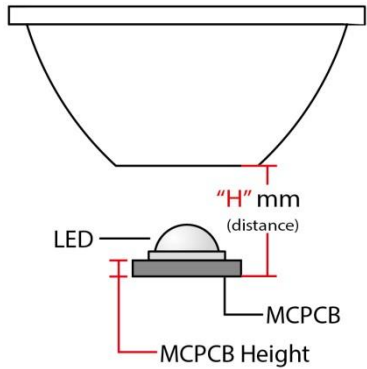


Illuminance At Distances

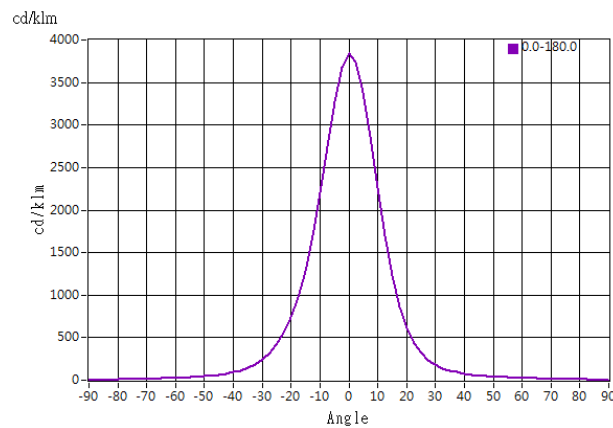




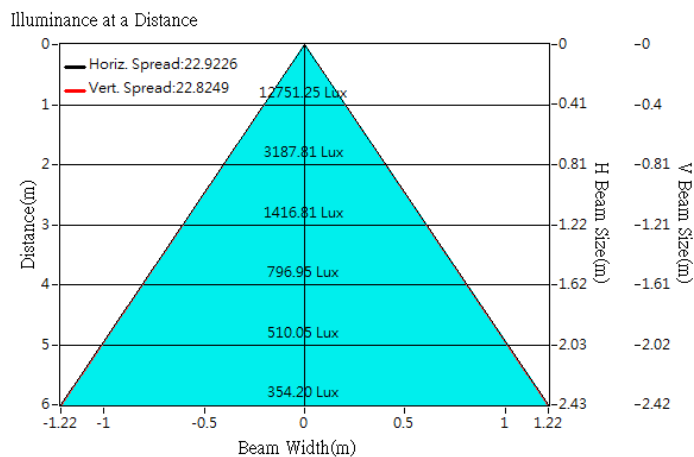
Optical Characteristics

Model Number	CKO-CH15-045021-1603		<p>"H" definition</p> 
LED	XHP70.2		
LES / LED Size	7.0 x 7.0		
FWHM (D50)	23°		
Field Angle (D10)	49°		
H (distance)	2.5 mm		
MCPCB Height	1.1 mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	3322 lm	Measured @ 32.2 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

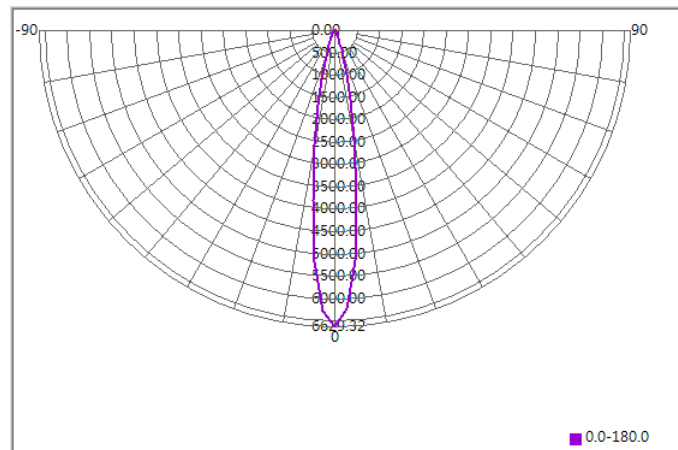




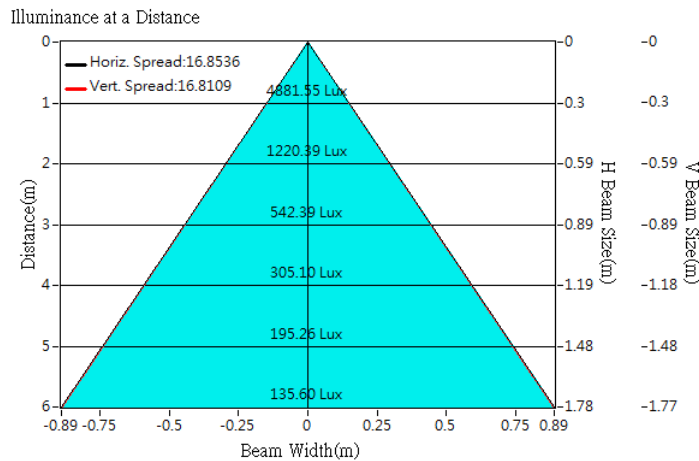
Optical Characteristics

Model Number	CKO-CH15-045021-1603		<p>"H" definition</p> <p>LES CoB</p>
LED	CMA1303		
LES / LED Size	Φ 4.5 mm		
FWHM (D50)	16°		
Field Angle (D10)	36°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	736 lm	Measured @ 6.73 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

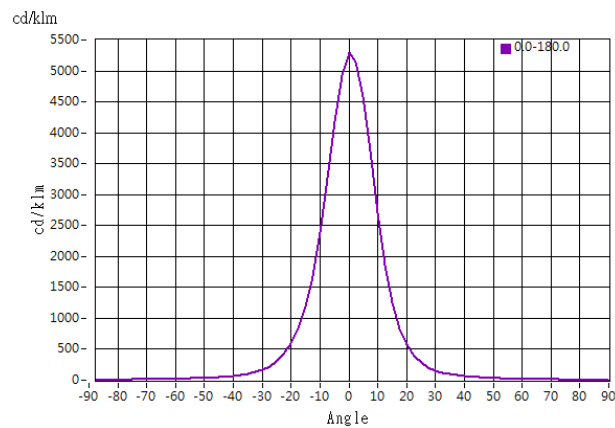




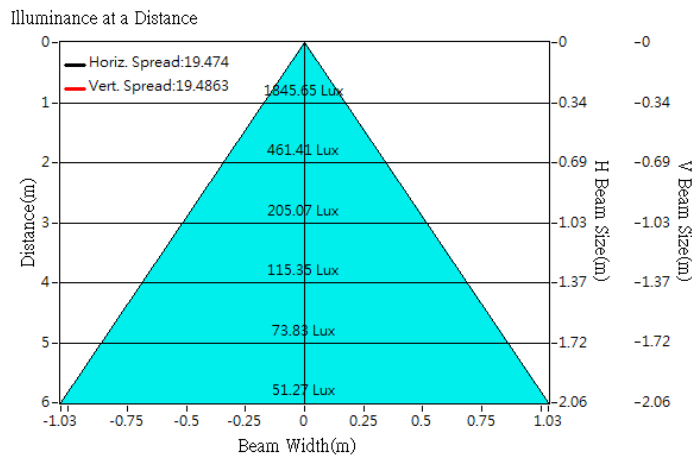
Optical Characteristics

Model Number	CKO-CH15-045021-1603		<p>"H" definition</p>
LED	CREE CXA1304		
LES / LED Size	Φ 6 mm		
FWHM (D50)	19°		
Field Angle (D10)	42°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	349 lm	Measured @ 3.7 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

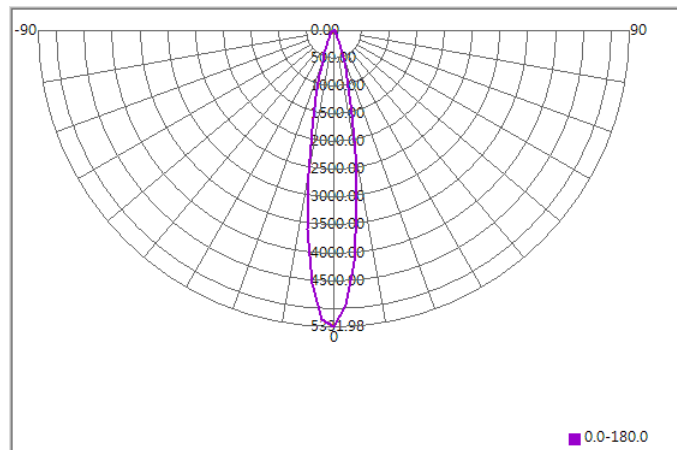




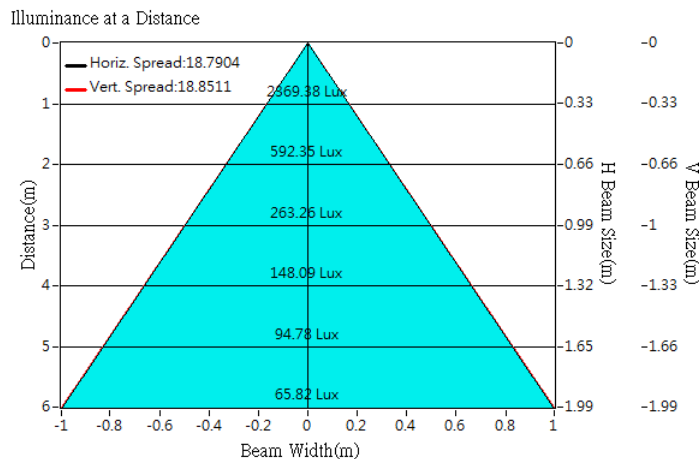
Optical Characteristics

Model Number	CKO-CH15-045021-1603		<p>"H" definition</p>
LED	CREE CXB1304		
LES / LED Size	Φ 6 mm		
FWHM (D50)	18°		
Field Angle (D10)	41°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	444 lm	Measured @ 3.4 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

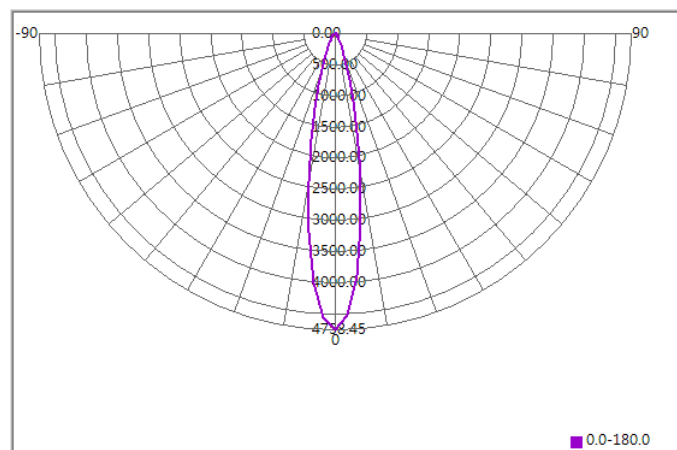




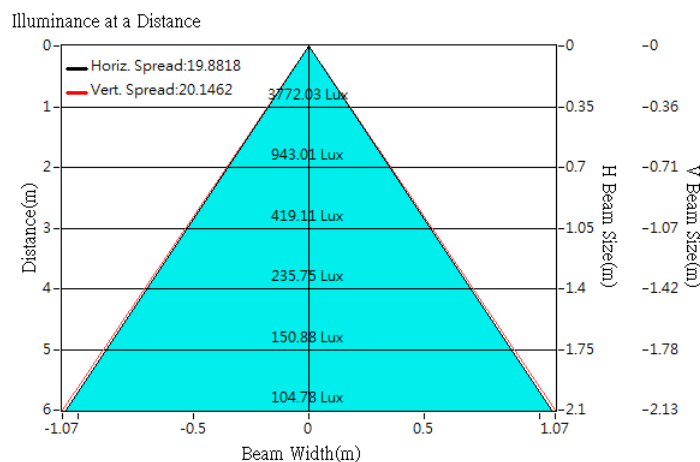
Optical Characteristics

Model Number	CKO-CH15-045021-1603		<p>"H" definition</p> <p>LES CoB</p>
LED	CMA1306		
LES / LED Size	Φ 6 mm		
FWHM (D50)	19°		
Field Angle (D10)	43°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	792 lm	Measured @ 6.1 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

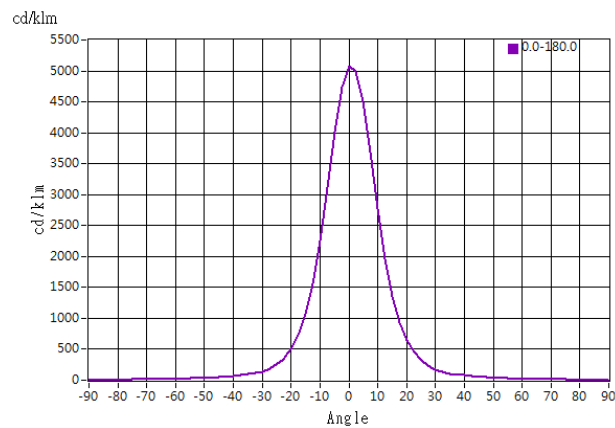




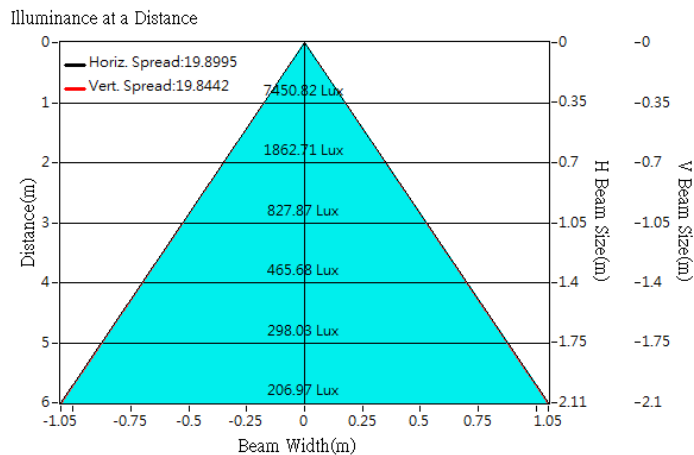
Optical Characteristics

Model Number	CKO-CH15-045021-1603		<p>"H" definition</p>
LED	CREE CXB1310		
LES / LED Size	Φ 6 mm		
FWHM (D50)	19°		
Field Angle (D10)	42°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1467 lm	Measured @ 12.2 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

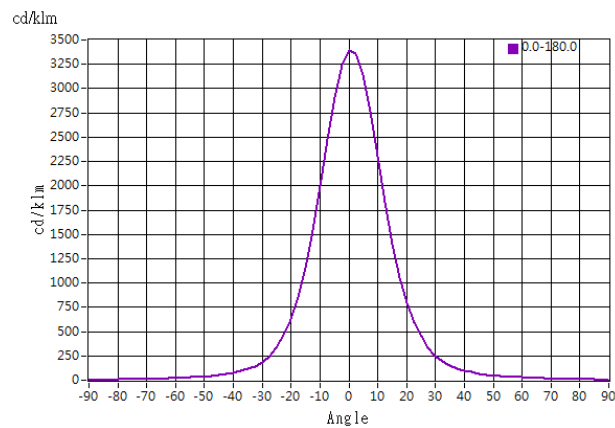




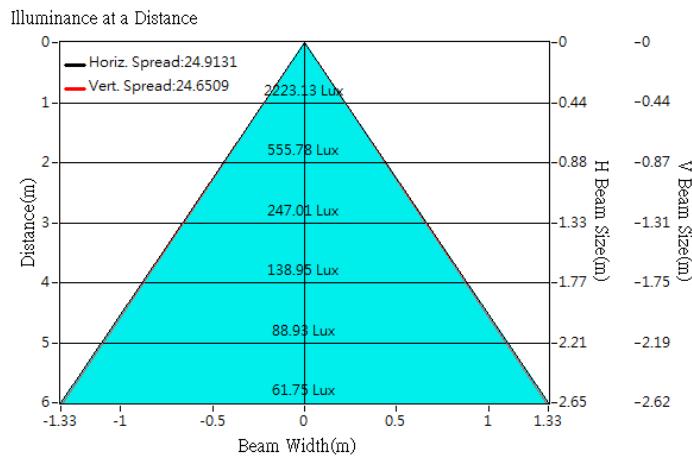
Optical Characteristics

Model Number	CKO-CH15-045021-1603		<p>"H" definition</p>
LED	CREE CXA1507		
LES / LED Size	Φ 9 mm		
FWHM (D50)	25°		
Field Angle (D10)	52°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	655 lm	Measured @ 7.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

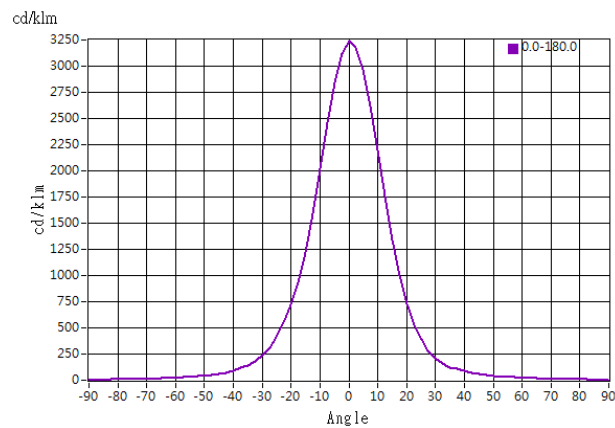




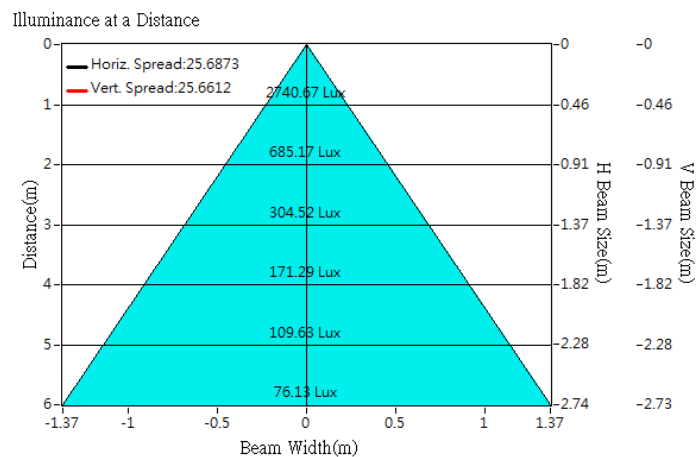
Optical Characteristics

Model Number	CKO-CH15-045021-1603		<p>"H" definition</p>
LED	CREE CXB1507		
LES / LED Size	Φ 9 mm		
FWHM (D50)	26°		
Field Angle (D10)	54°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	847 lm	Measured @ 7.2 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

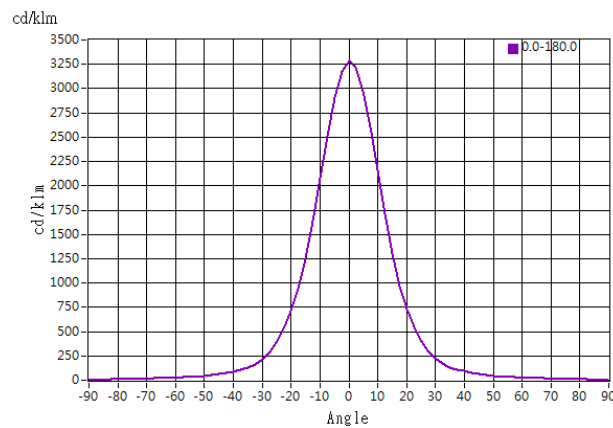




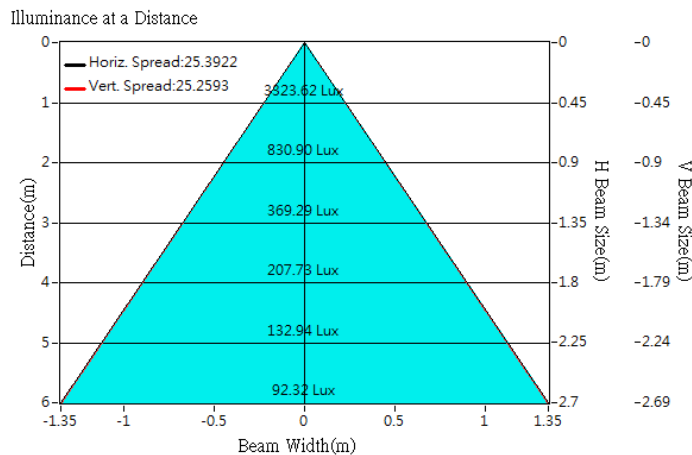
Optical Characteristics

Model Number	CKO-CH15-045021-1603		<p>"H" definition</p>
LED	CREE CXA1510		
LES / LED Size	Φ 9 mm		
FWHM (D50)	25°		
Field Angle (D10)	53°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1013 lm	Measured @ 9.1 W	
Material	PC / UL94V2		

cd/klm

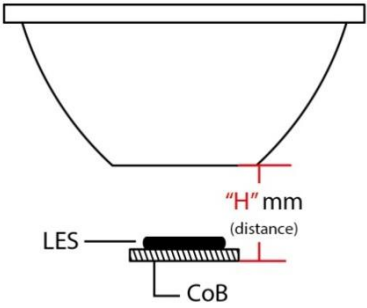


Illuminance At Distances

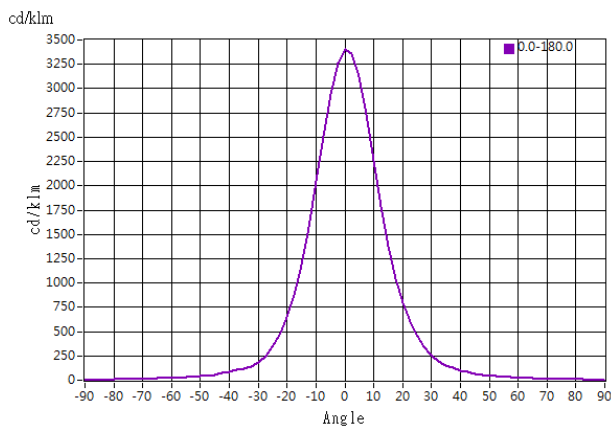




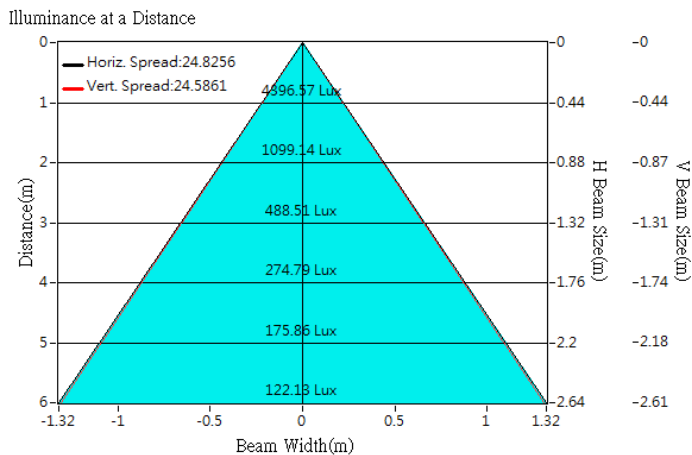
Optical Characteristics

Model Number	CKO-CH15-045021-1603	<p>"H" definition</p> 
LED	CREE CXA1512	
LES / LED Size	Φ 9 mm	
FWHM (D50)	25°	
Field Angle (D10)	53°	
H (distance)	2.5mm	
Dimension	Φ =45 mm, Thickness=20.9 mm	
Luminous Flux	1291 lm Measured @ 13.2 W	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

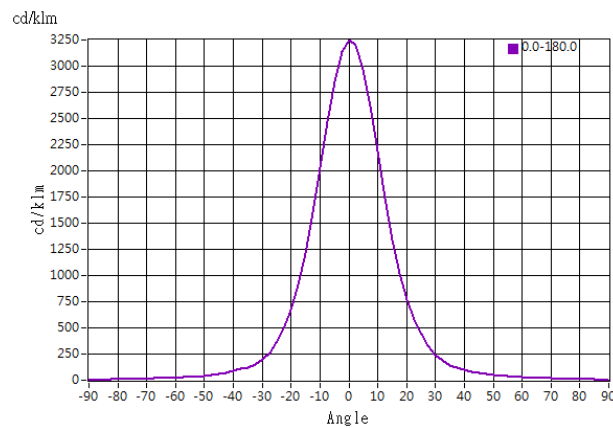




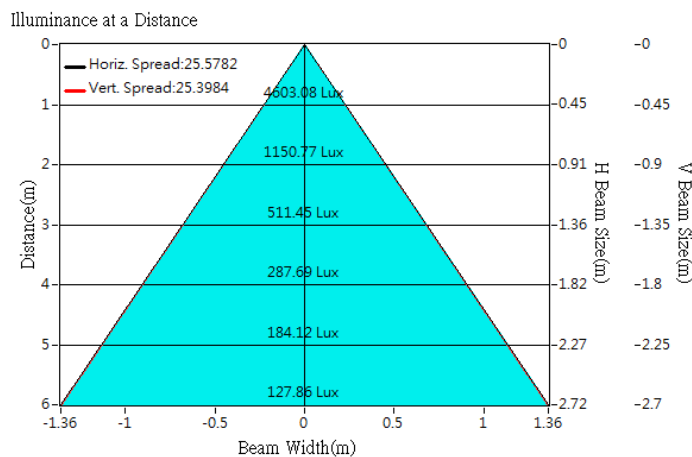
Optical Characteristics

Model Number	CKO-CH15-045021-1603		<p>"H" definition</p>
LED	CREE CXB1512		
LES / LED Size	Φ 9 mm		
FWHM (D50)	26°		
Field Angle (D10)	53°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1417 lm	Measured @ 12.2 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

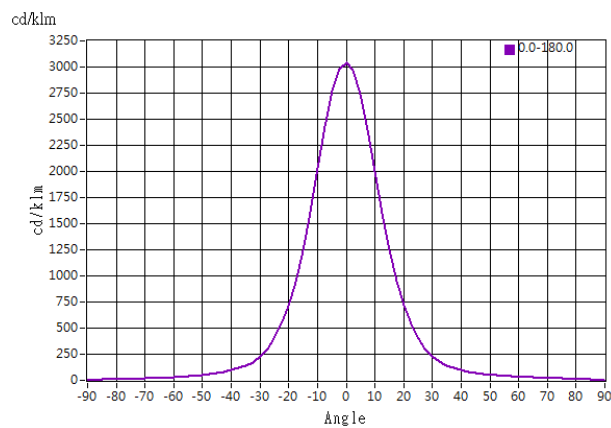




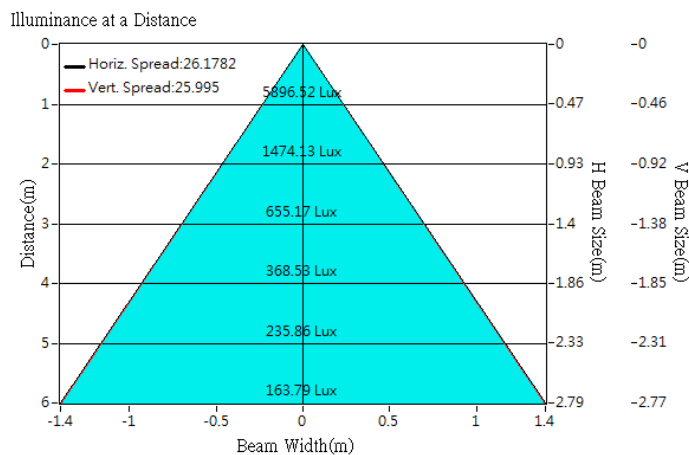
Optical Characteristics

Model Number	CKO-CH15-045021-1603		<p>"H" definition</p>
LED	CREE CMA 1516		
LES / LED Size	Φ 9 mm		
FWHM (D50)	26°		
Field Angle (D10)	55°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1940 lm	Measured @ 15.8 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

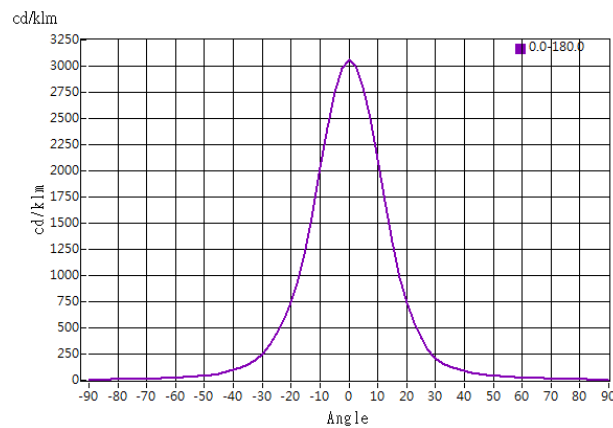




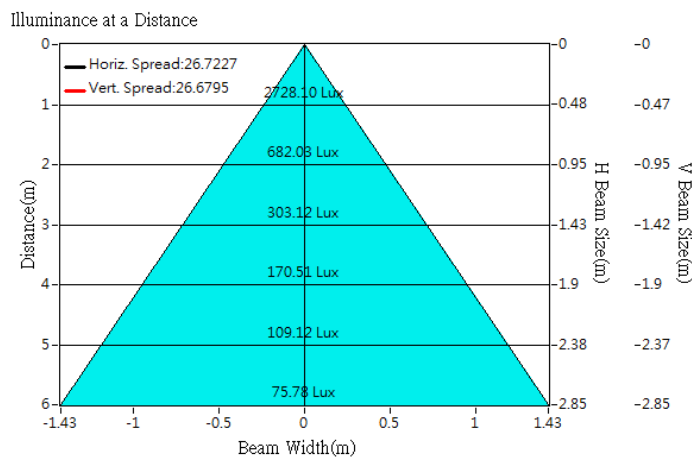
Optical Characteristics

Model Number	CKO-CH15-045021-1603		<p>"H" definition</p>
LED	CREE CXB1520		
LES / LED Size	Φ 9 mm		
FWHM (D50)	27°		
Field Angle (D10)	56°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	892 lm	Measured @ 6.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

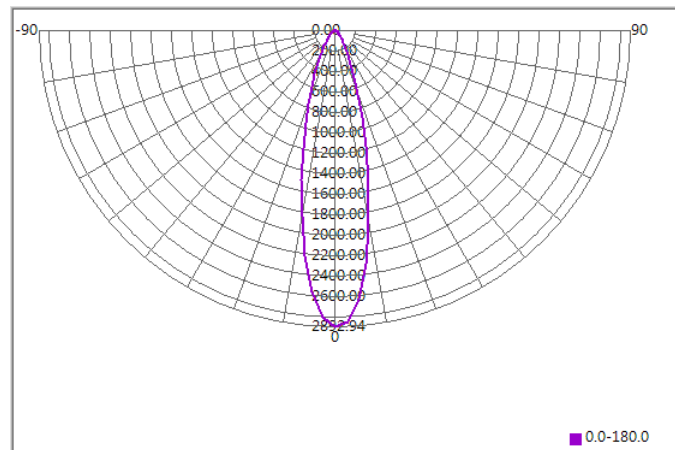




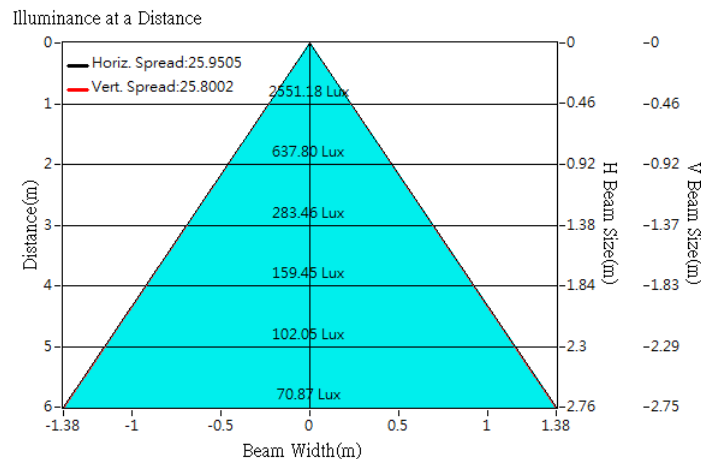
Optical Characteristics

Model Number	CKO-CH15-045021-1603		<p>"H" definition</p> <p>LES CoB</p>
LED	CMT1407		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	26°		
Field Angle (D10)	57°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	881 lm	Measured @ 6.9 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

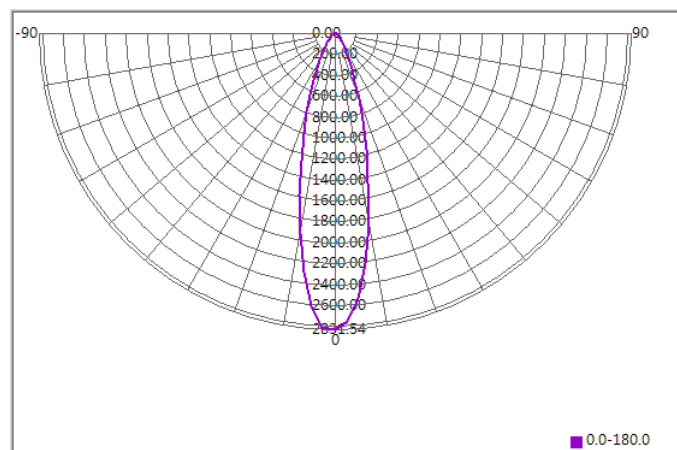




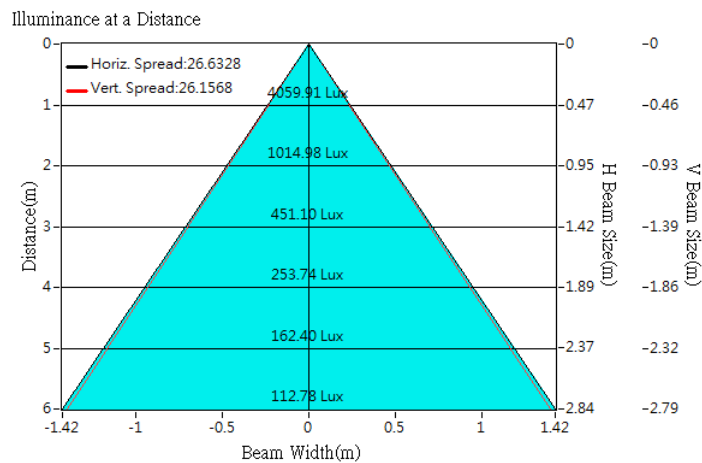
Optical Characteristics

Model Number	CKO-CH15-045021-1603		<p>"H" definition</p> <p>LES CoB</p>
LED	CMT1412		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	27°		
Field Angle (D10)	58°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1433 lm	Measured @ 12.6 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

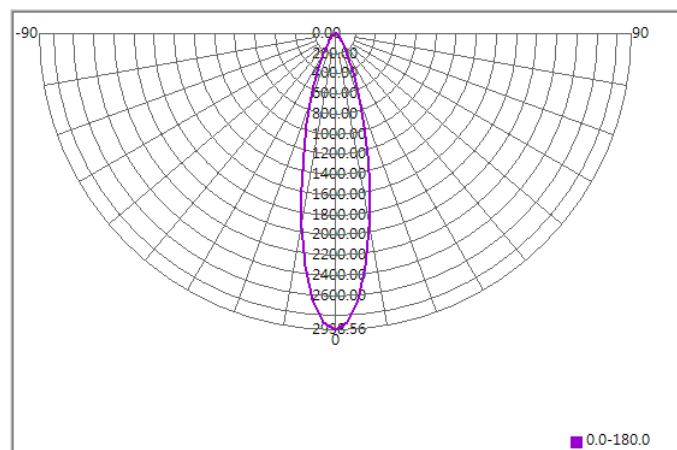




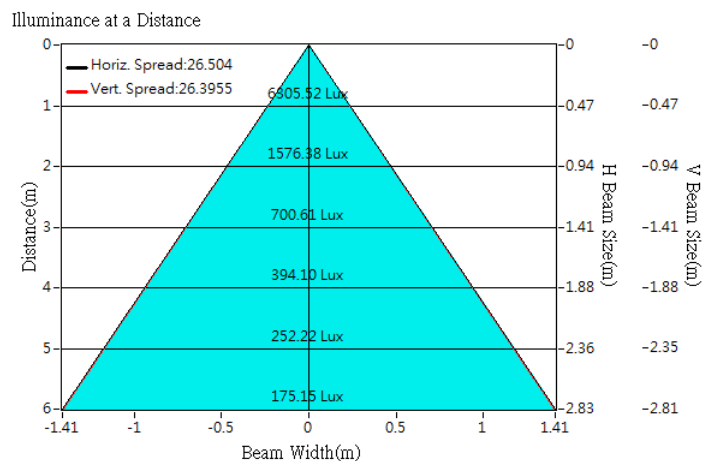
Optical Characteristics

Model Number	CKO-CH15-045021-1603		<p>"H" definition</p> <p>LES CoB</p>
LED	CMT1420		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	27°		
Field Angle (D10)	56°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	2146 lm	Measured @ 19 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

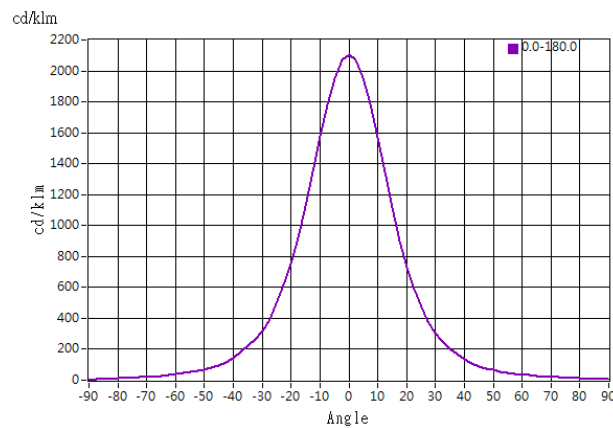




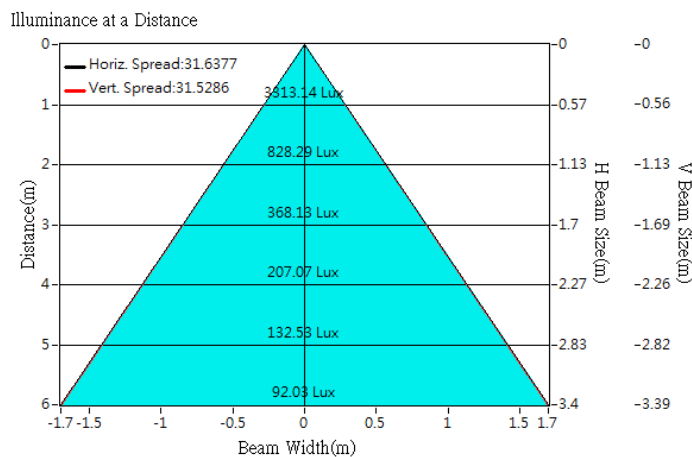
Optical Characteristics

Model Number	CKO-CH15-045021-1603		<p>"H" definition</p>
LED	CREE CXA1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	32°		
Field Angle (D10)	70°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1576 lm	Measured @ 16.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

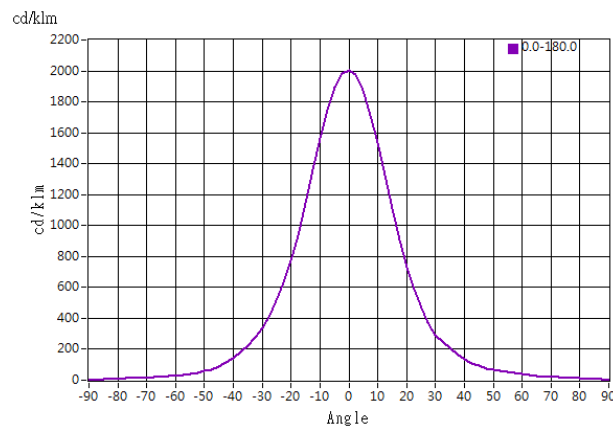




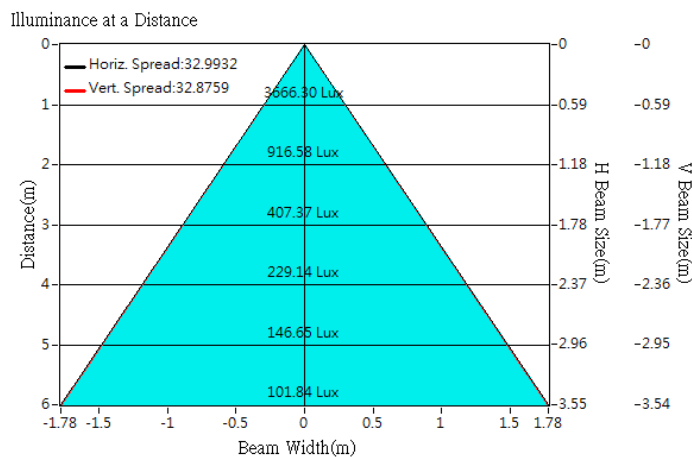
Optical Characteristics

Model Number	CKO-CH15-045021-1603		<p>"H" definition</p>
LED	CREE CXB1816		
LES / LED Size	Φ 12 mm		
FWHM (D50)	33°		
Field Angle (D10)	72°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1827 lm	Measured @ 15.8 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

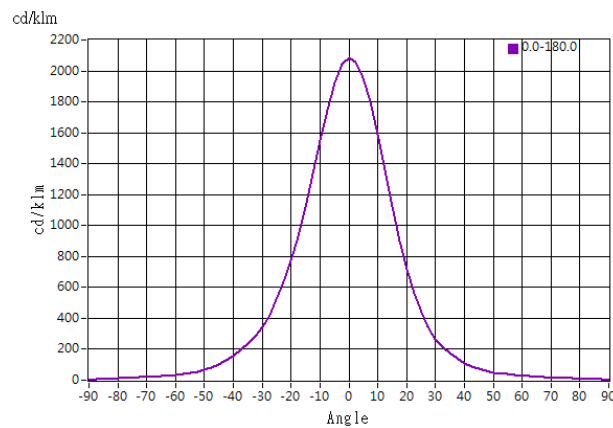




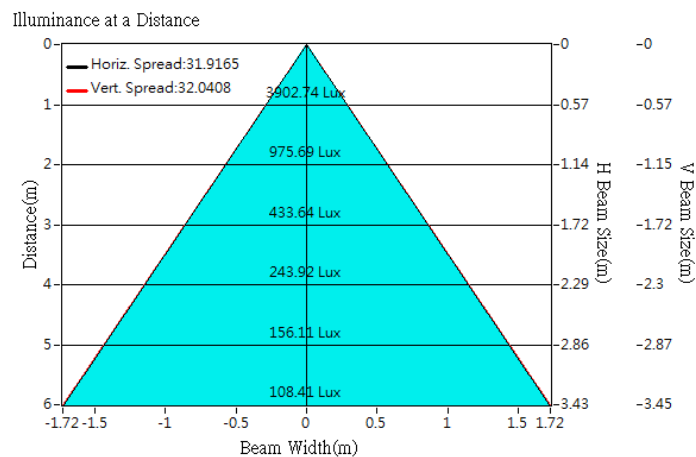
Optical Characteristics

Model Number	CKO-CH15-045021-1603		<p>"H" definition</p>
LED	CREE CXA1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	32°		
Field Angle (D10)	70°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	1872 lm	Measured @ 20 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

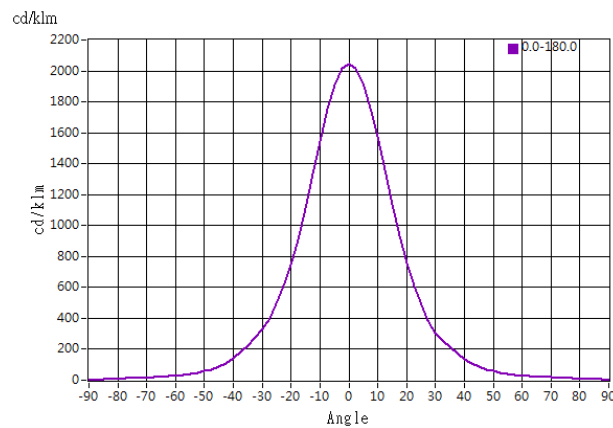




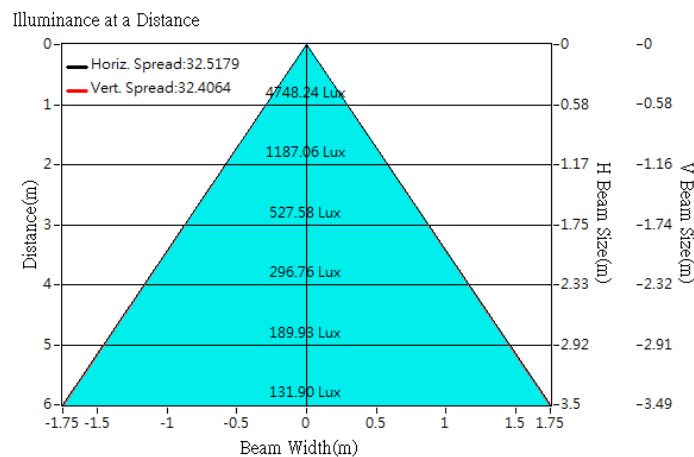
Optical Characteristics

Model Number	CKO-CH15-045021-1603		<p>"H" definition</p>
LED	CREE CXB1820		
LES / LED Size	Φ 12 mm		
FWHM (D50)	33°		
Field Angle (D10)	72°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	2324 lm	Measured @ 19.8 W	
Material	PC / UL94V2		

cd/klm

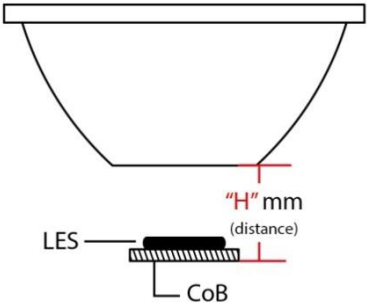


Illuminance At Distances

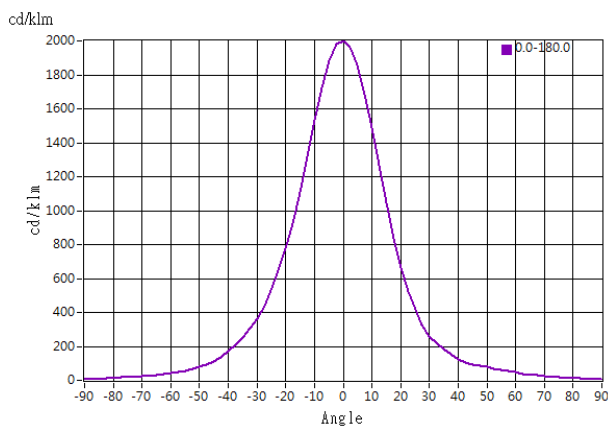




Optical Characteristics

Model Number	CKO-CH15-045021-1603		<p>"H" definition</p> 
LED	CREE CMA 1825		
LES / LED Size	Φ 12 mm		
FWHM (D50)	32°		
Field Angle (D10)	72°		
H (distance)	2.5mm		
Dimension	Φ =45 mm, Thickness=20.9 mm		
Luminous Flux	2874 lm	Measured @ 25.1 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

