



Product Model Number

CKO-CH15-060027-4309

✓ Model Number Definitions

CKO-XXXX-XXXXXX-XXXX

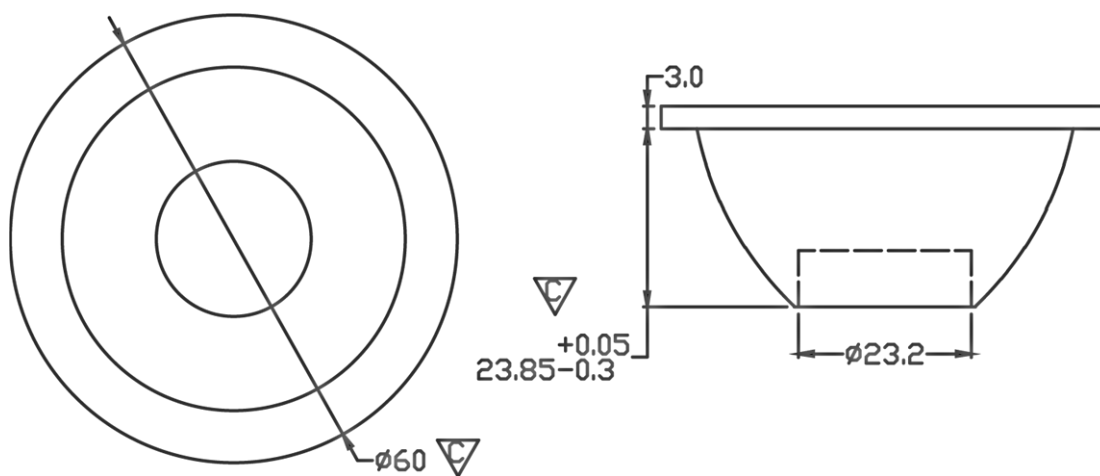


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation
Ex:
CH→CoB High Intensity
CC→CoB Compact
CS→Soft Shading for CoB LED
HC→Holder for CoB LED

- 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) : Φ60 x 26.85



▽:Critical Dimension



✓ Optical Characteristics – Angle Performances

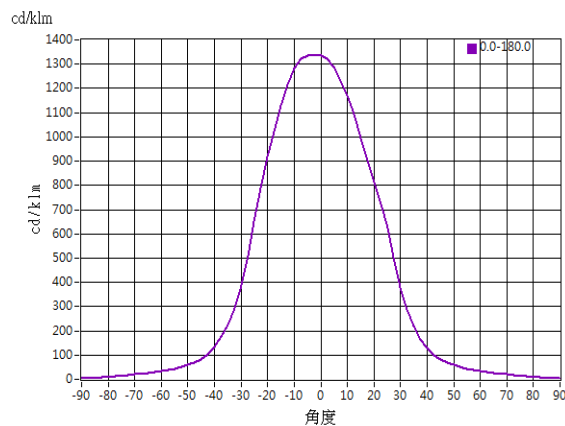
CREE	LED LES (mm)	FWHM (degrees)	Field Angle (degrees)
XHP50	5.0 x 5.0	49°	79°
CXA1304	Φ6	42°	72°
CXA1310	Φ6	43°	74°
CXB1310	Φ6	41°	73°
CXA1507	Φ9	43°	73°
CXB1507	Φ9	44°	75°
CXA1510	Φ9	45°	76°
CXA1512	Φ9	46°	77°
CXB1512	Φ9	43°	74°
CMA1516	Φ9	45°	76°
CXA1520	Φ9	43°	73°
CXB1520	Φ9	43°	74°
CMT1407	Φ9.8	45°	76°
CMT1420	Φ9.8	43°	74°
CXA1816	Φ12	46°	79°
CXB1816	Φ12	46°	79°
CXA1820	Φ12	46°	78°
CXB1820	Φ12	46°	79°
CMA1825	Φ12	47°	79°
CXA1850	Φ12	45°	74°
CXA1830	Φ14	47°	80°
CXB1830	Φ14	47°	78°
CMA1840	Φ14	48°	81°
CMT1922	Φ14.5	48°	82°
CMT1925	Φ14.5	49°	83°
CMT1930	Φ14.5	47°	80°
CMT1945	Φ14.5	48°	82°
CXA2520	Φ19	50°	86°
CXB2530	Φ19	51°	88°
CXA2540	Φ19	51°	86°
CXB2540	Φ19	52°	89°
CMA2550	Φ19	53°	90°



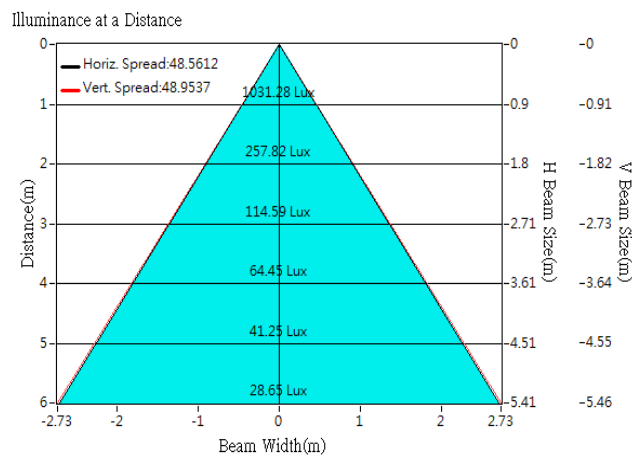
Optical Characteristics

Model Number	CKO-CH15-060027-4309		<p>"H" definition</p>
LED	CREE XHP50		
LES / LED Size	Φ 5.0x5.0 mm		
FWHM (D50)	49°		
Field Angle (D10)	79°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	772 lm	Measured @ 8.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

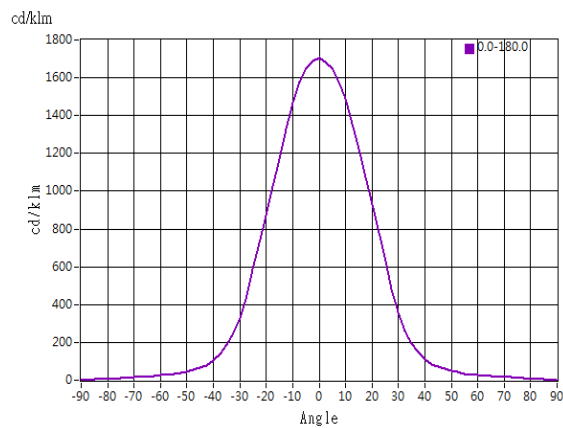




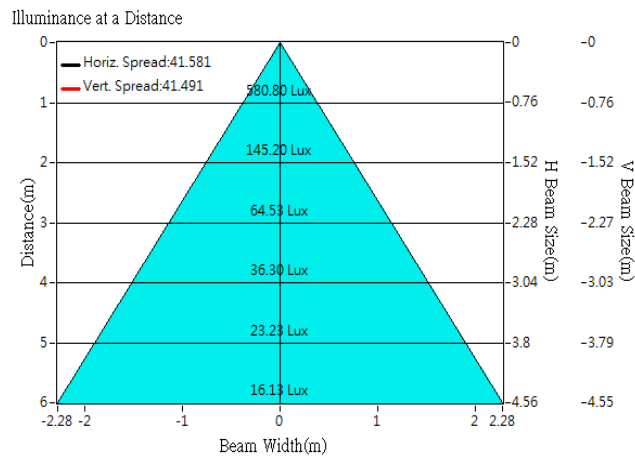
Optical Characteristics

Model Number	CKO-CH15-060027-4309		<p>"H" definition</p>
LED	CREE CXA1304		
LES / LED Size	Φ 6 mm		
FWHM (D50)	42°		
Field Angle (D10)	72°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	340 lm	Measured @ 3.7 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

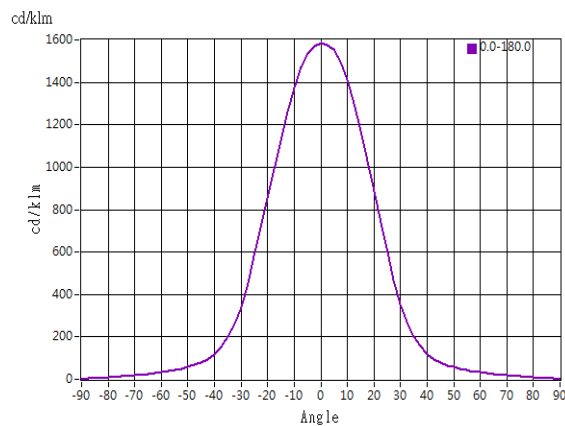




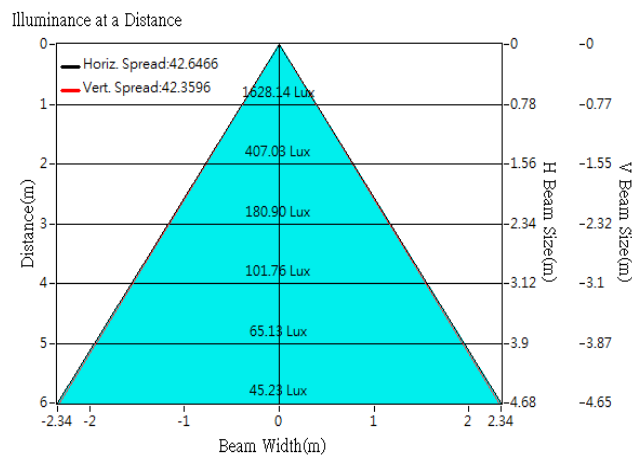
Optical Characteristics

Model Number	CKO-CH15-060027-4309		<p>"H" definition</p>
LED	CREE CXA1310		
LES / LED Size	Φ 6 mm		
FWHM (D50)	43°		
Field Angle (D10)	74°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1027 lm	Measured @ 12.7 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

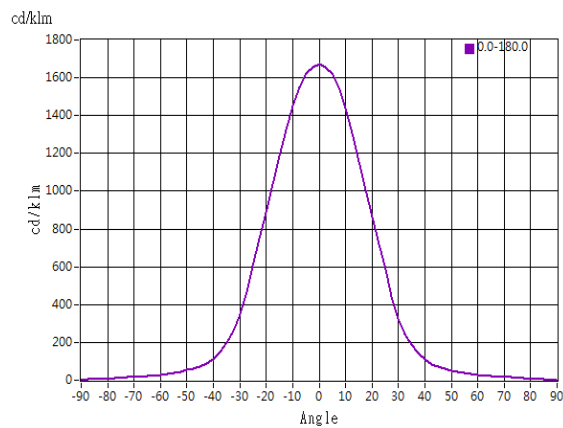




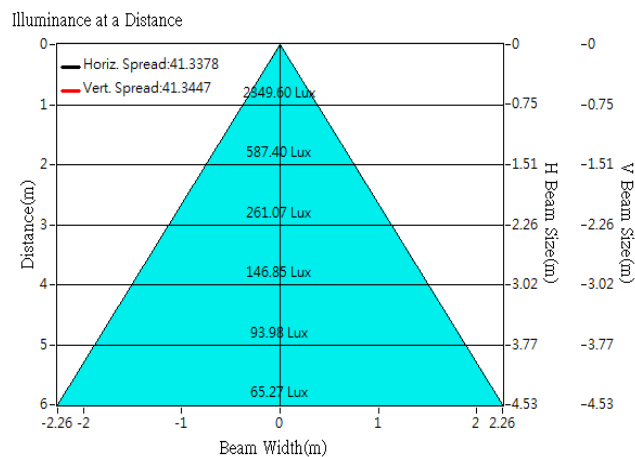
Optical Characteristics

Model Number	CKO-CH15-060027-4309		<p>"H" definition</p>
LED	CREE CXB1310		
LES / LED Size	Φ 6 mm		
FWHM (D50)	41°		
Field Angle (D10)	73°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1402 lm	Measured @ 11.9 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

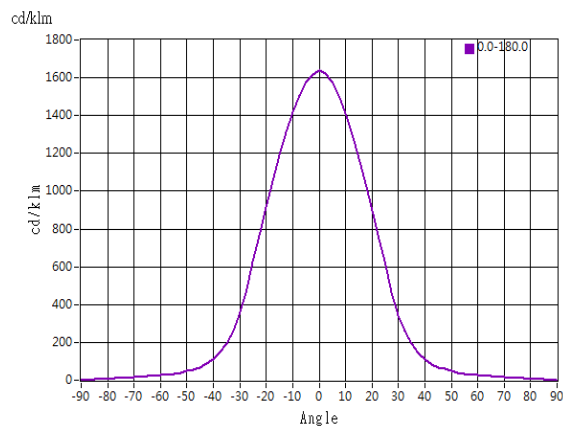




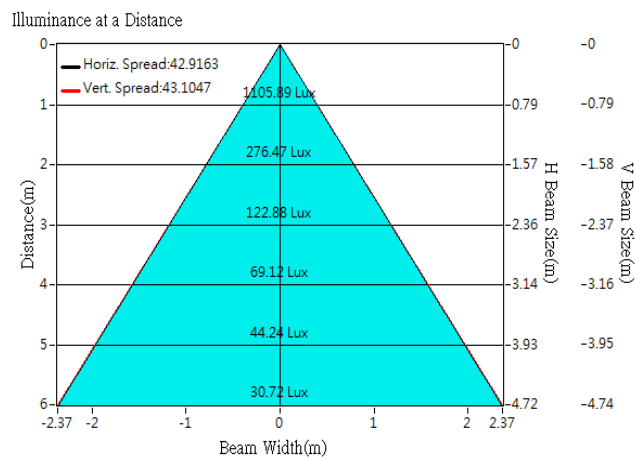
Optical Characteristics

Model Number	CKO-CH15-060027-4309	<p>"H" definition</p> <p>LES CoB</p>
LED	CREE CXA1507	
LES / LED Size	Φ 9 mm	
FWHM (D50)	43°	
Field Angle (D10)	73°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	675 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

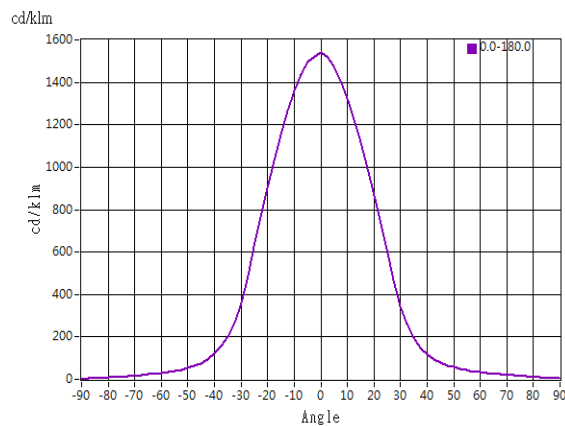




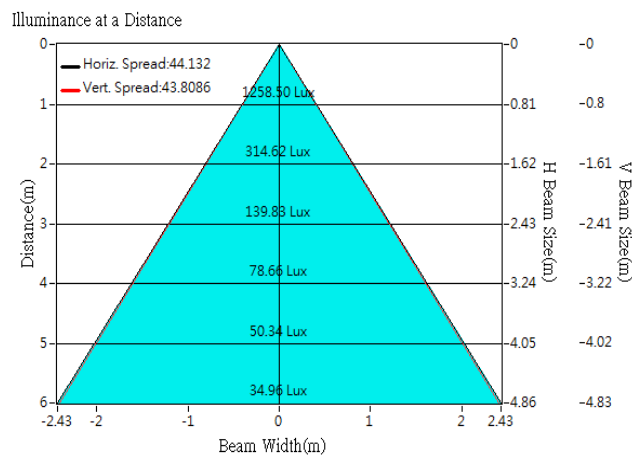
Optical Characteristics

Model Number	CKO-CH15-060027-4309		<p>"H" definition</p>
LED	CREE CXB1507		
LES / LED Size	Φ 9 mm		
FWHM (D50)	44°		
Field Angle (D10)	75°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	817 lm	Measured @ 7.1 W	
Material	PC / UL94V2		

cd/klm

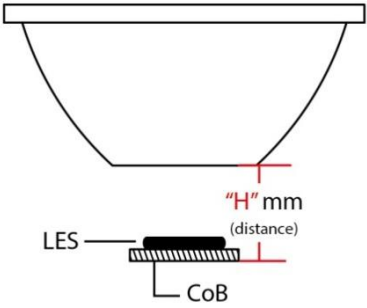


Illuminance At Distances

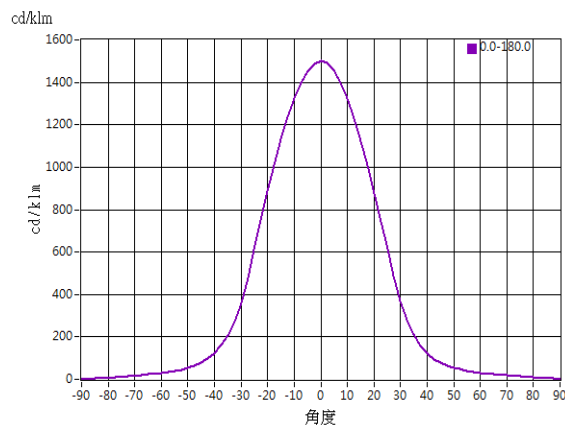




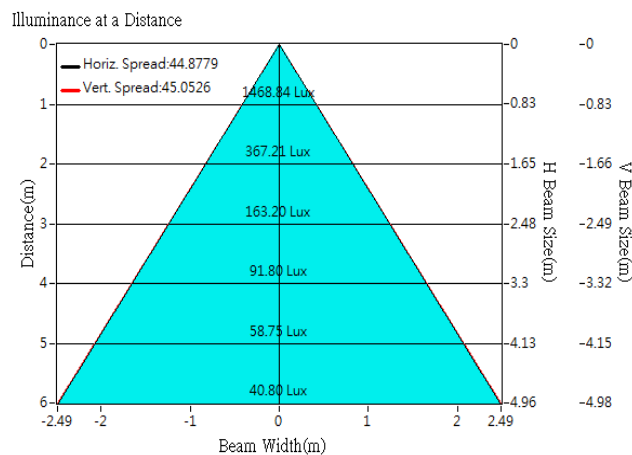
Optical Characteristics

Model Number	CKO-CH15-060027-4309	<p>"H" definition</p> 
LED	CREE CXA1510	
LES / LED Size	Φ 9 mm	
FWHM (D50)	45°	
Field Angle (D10)	76°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	980 lm Measured @ 9.1 W	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

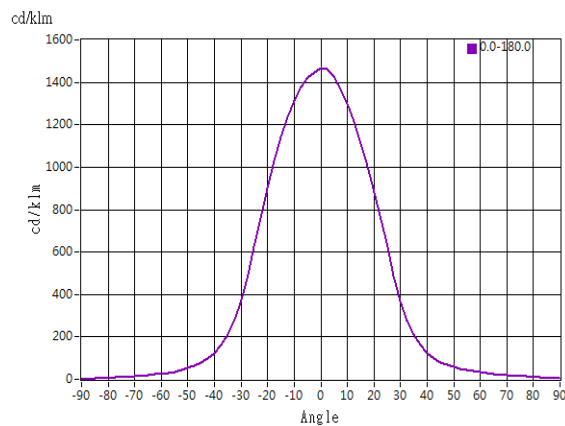




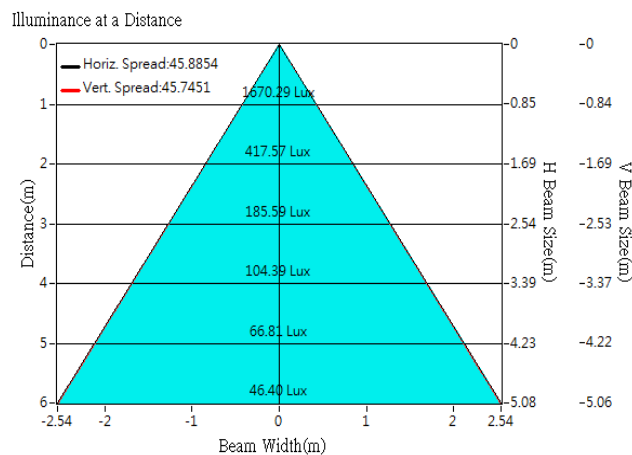
Optical Characteristics

Model Number	CKO-CH15-060027-4309	<p>"H" definition</p>
LED	CREE CXA1512	
LES / LED Size	Φ 9 mm	
FWHM (D50)	46°	
Field Angle (D10)	77°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	1139 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

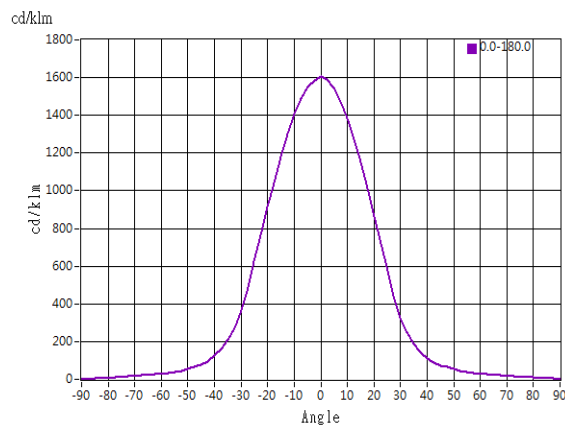




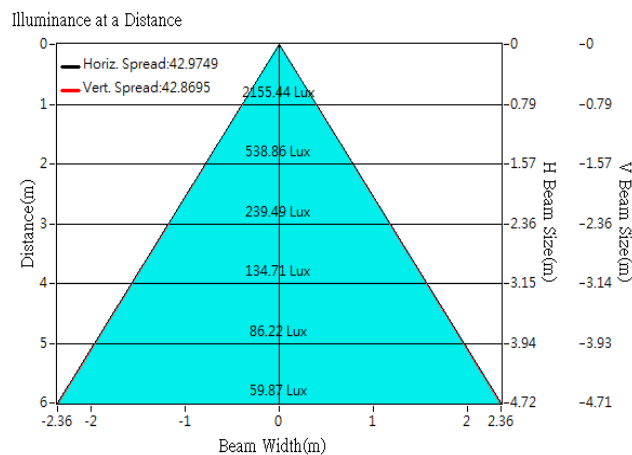
Optical Characteristics

Model Number	CKO-CH15-060027-4309	<p>"H" definition</p> <p>LES CoB</p>
LED	CREE CXB1512	
LES / LED Size	Φ 9 mm	
FWHM (D50)	43°	
Field Angle (D10)	74°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	1344 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

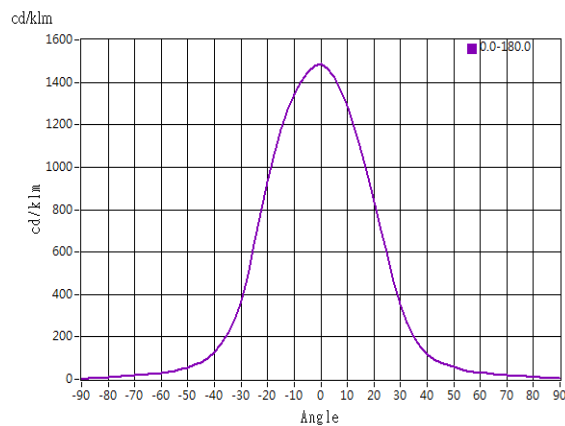




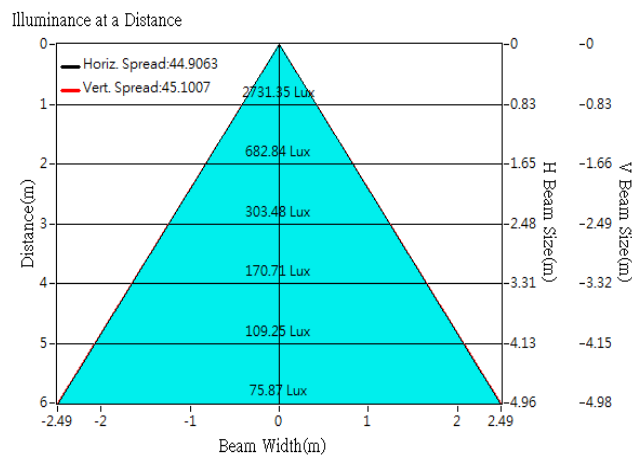
Optical Characteristics

Model Number	CKO-CH15-060027-4309	<p>"H" definition</p> <p>LES CoB</p>
LED	CREE CMA1516	
LES / LED Size	Φ 9 mm	
FWHM (D50)	45°	
Field Angle (D10)	76°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	1835 lm Measured @ 15.8 W	
Material	PC / UL94V2	

cd/klm

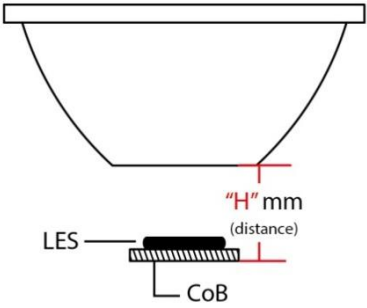


Illuminance At Distances

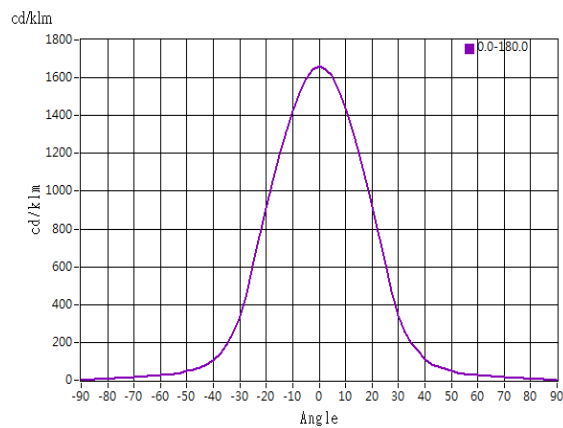




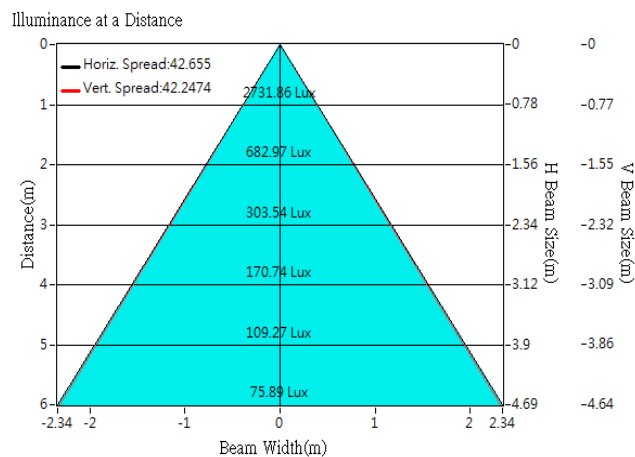
Optical Characteristics

Model Number	CKO-CH15-060027-4309	<p>"H" definition</p> 
LED	CREE CXA1520	
LES / LED Size	Φ 9 mm	
FWHM (D50)	43°	
Field Angle (D10)	73°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	1642m	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

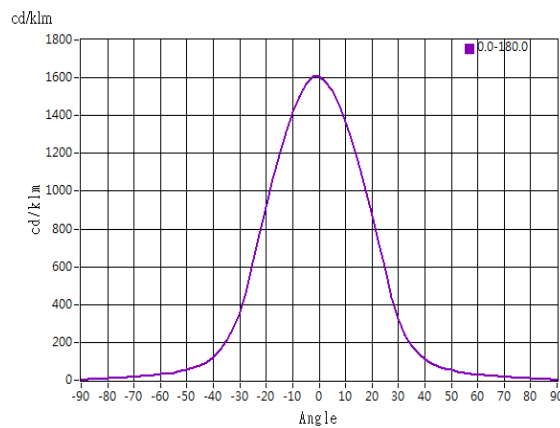




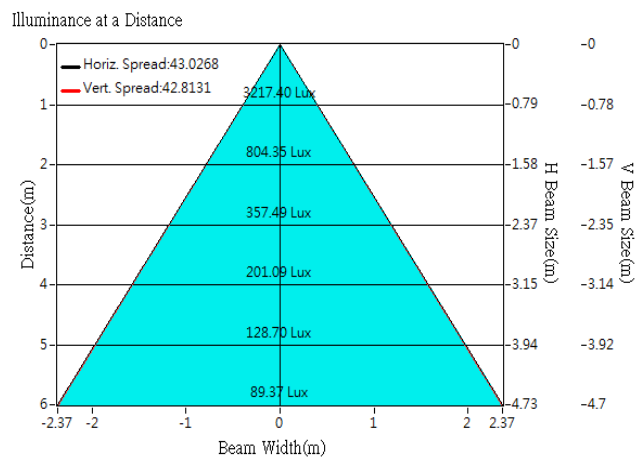
Optical Characteristics

Model Number	CKO-CH15-060027-4309	<p>"H" definition</p> <p>LES CoB</p>
LED	CREE CXB1520	
LES / LED Size	Φ 9 mm	
FWHM (D50)	43°	
Field Angle (D10)	74°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	2004m	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

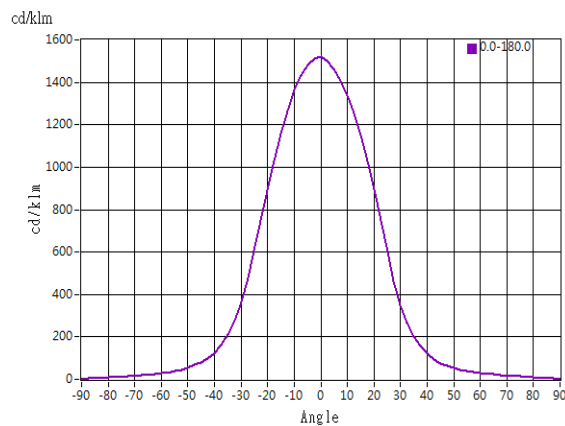




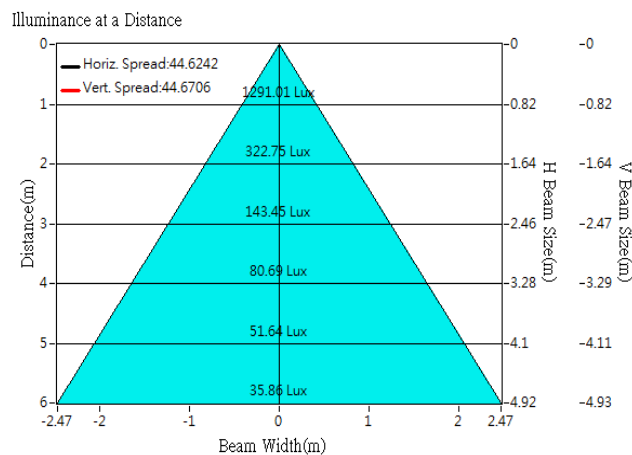
Optical Characteristics

Model Number	CKO-CH15-060027-4309	<p>"H" definition</p>
LED	CREE CMT1407	
LES / LED Size	Φ 9.8 mm	
FWHM (D50)	45°	
Field Angle (D10)	76°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	850 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

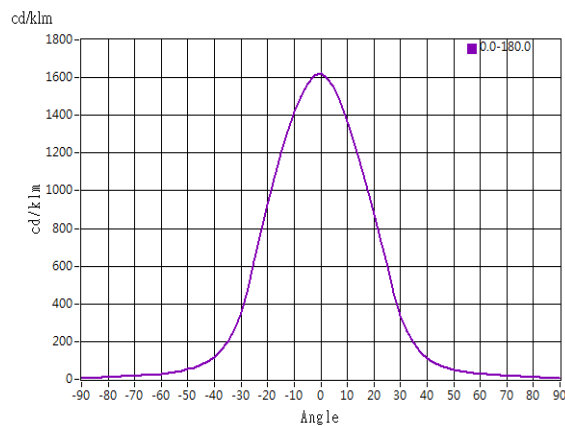




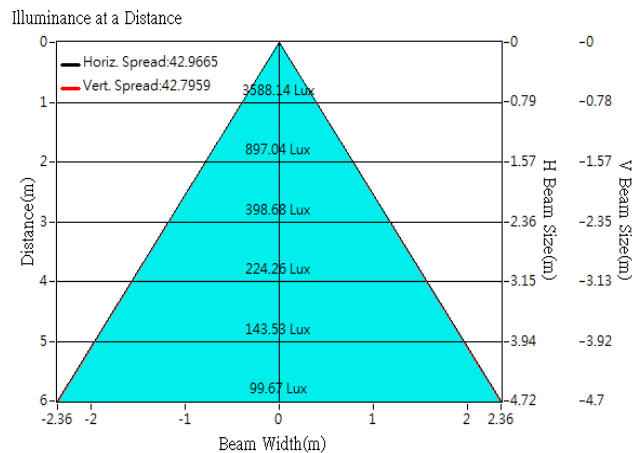
Optical Characteristics

Model Number	CKO-CH15-060027-4309	<p>"H" definition</p>
LED	CREE CMT1420	
LES / LED Size	Φ 9.8 mm	
FWHM (D50)	43°	
Field Angle (D10)	74°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	2211 lm Measured @ 19 W	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

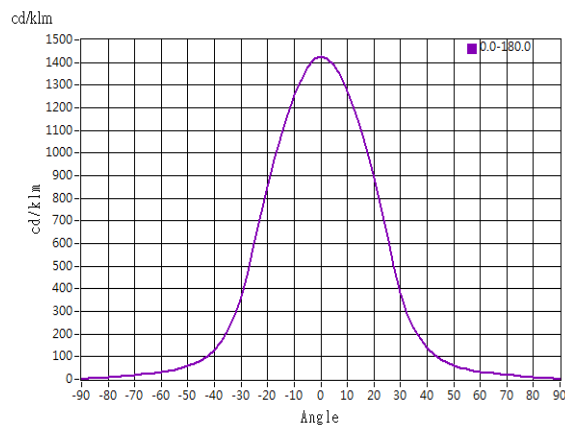




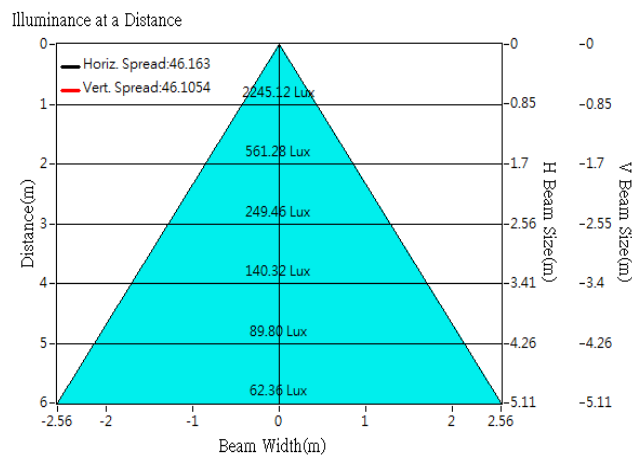
Optical Characteristics

Model Number	CKO-CH15-060027-4309	<p>"H" definition</p> <p>LES CoB</p>
LED	CREE CXA1816	
LES / LED Size	Φ 12 mm	
FWHM (D50)	46°	
Field Angle (D10)	79°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	1573 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

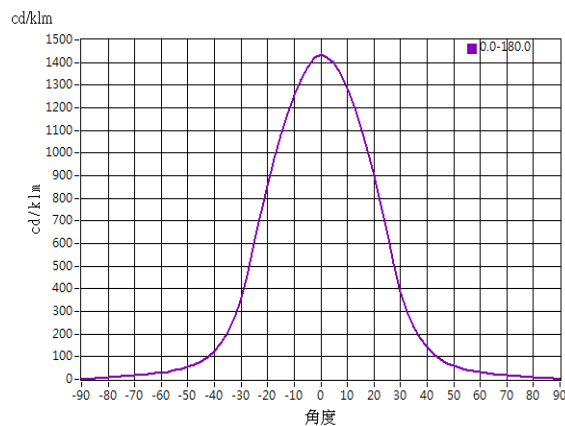




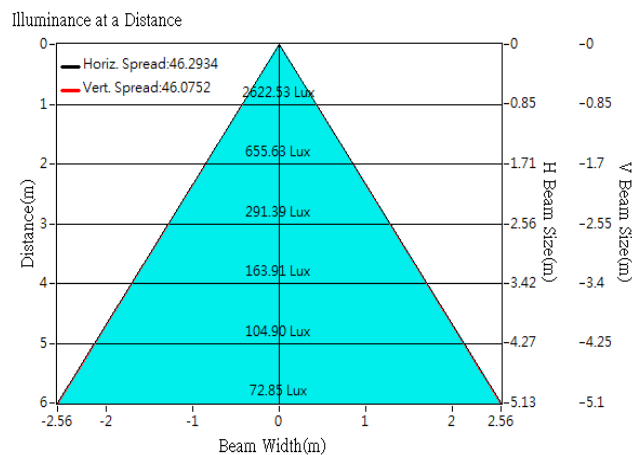
Optical Characteristics

Model Number	CKO-CH15-060027-4309	<p>"H" definition</p> <p>LES CoB</p>
LED	CREE CXB1816	
LES / LED Size	Φ 12 mm	
FWHM (D50)	46°	
Field Angle (D10)	79°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	1830 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

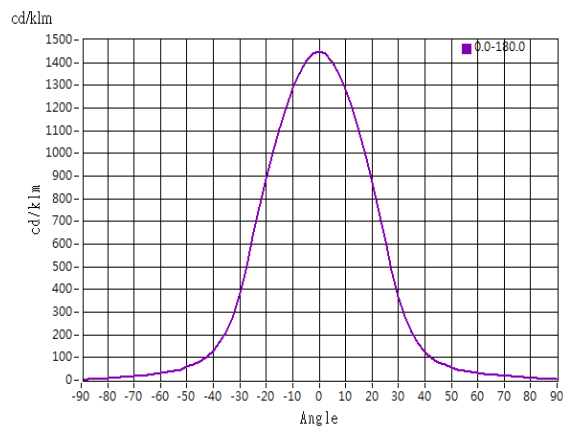




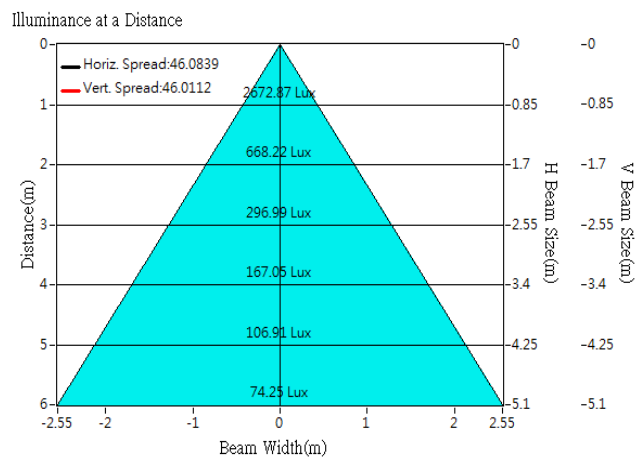
Optical Characteristics

Model Number	CKO-CH15-060027-4309	<p>"H" definition</p>
LED	CREE CXA1820	
LES / LED Size	Φ 12 mm	
FWHM (D50)	46°	
Field Angle (D10)	78°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	1843 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

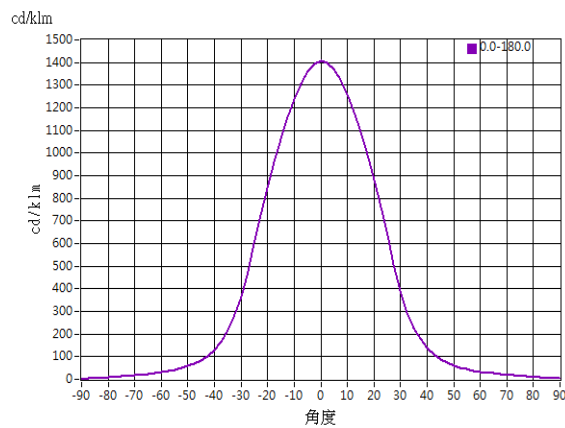




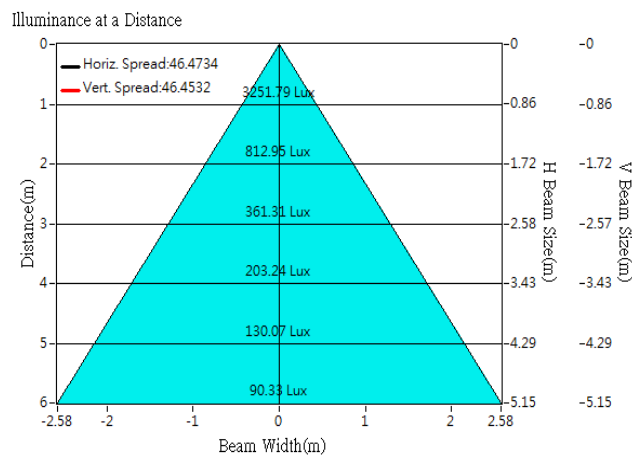
Optical Characteristics

Model Number	CKO-CH15-060027-4309	<p>"H" definition</p>
LED	CREE CXB1820	
LES / LED Size	Φ 12 mm	
FWHM (D50)	46°	
Field Angle (D10)	79°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	2307 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

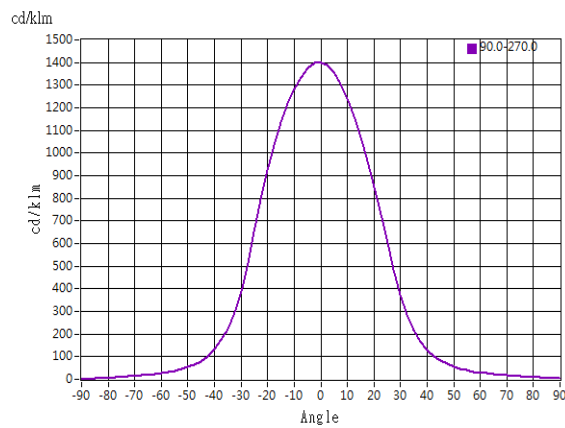




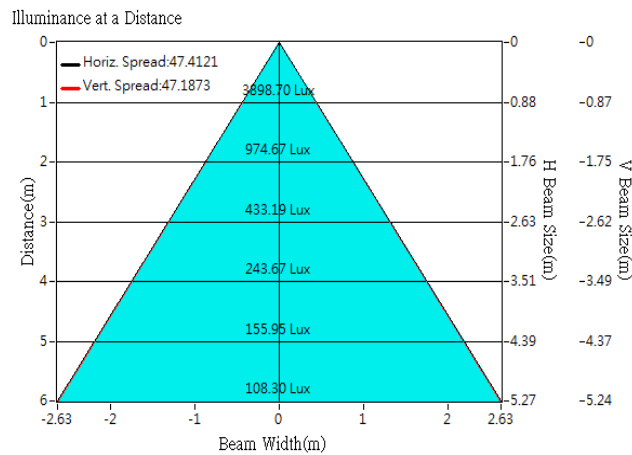
Optical Characteristics

Model Number	CKO-CH15-060027-4309	<p>"H" definition</p>	
LED	CREE CMA1825		
LES / LED Size	Φ 12 mm		
FWHM (D50)	47°		
Field Angle (D10)	79°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2783 lm		Measured @ 25.2 W
Material	PC / UL94V2		

cd/klm

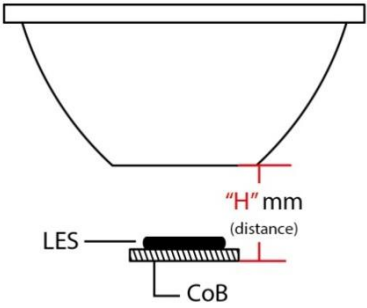


Illuminance At Distances

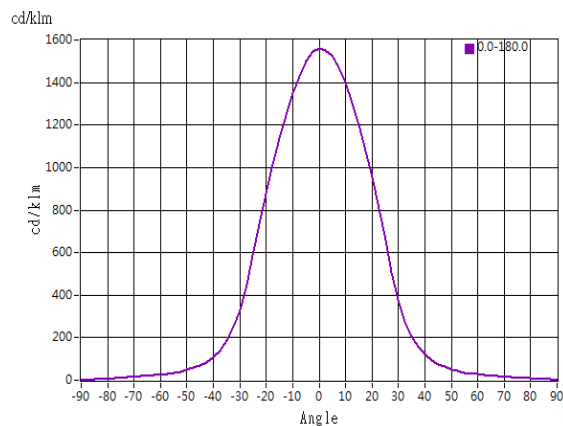




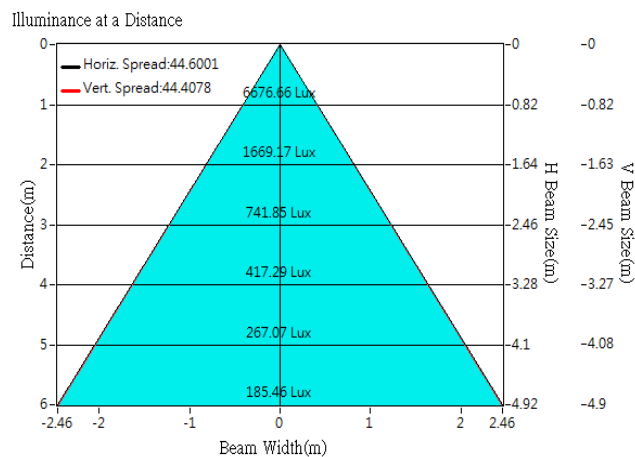
Optical Characteristics

Model Number	CKO-CH15-060027-4309	<p>"H" definition</p> 
LED	CREE CXA1850	
LES / LED Size	Φ 12 mm	
FWHM (D50)	45°	
Field Angle (D10)	74°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	4276 lm Measured @ 47.9W	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

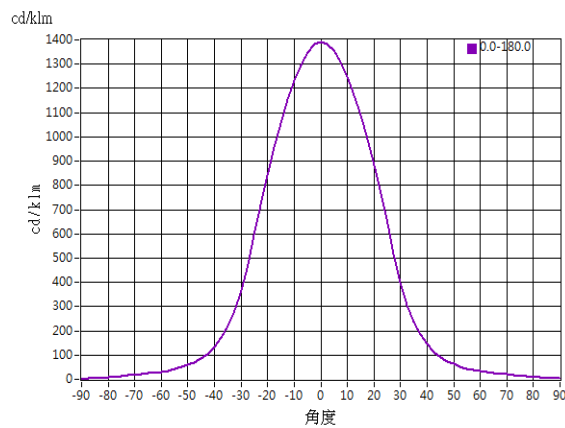




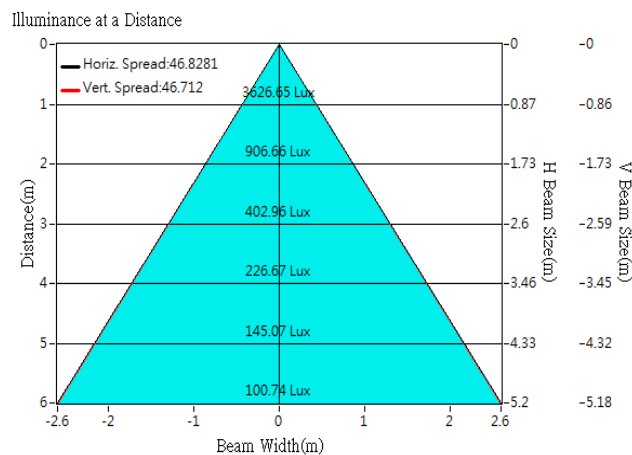
Optical Characteristics

Model Number	CKO-CH15-060027-4309	<p>"H" definition</p>
LED	CREE CXA1830	
LES / LED Size	Φ 14 mm	
FWHM (D50)	47°	
Field Angle (D10)	80°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	2605 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

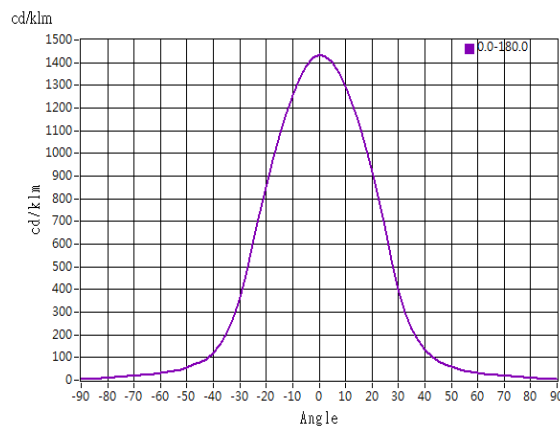




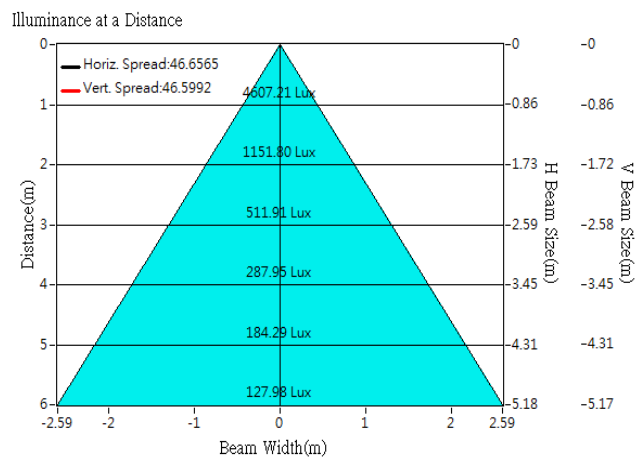
Optical Characteristics

Model Number	CKO-CH15-060027-4309	<p>"H" definition</p> <p>LES CoB</p>
LED	CREE CXB1830	
LES / LED Size	Φ 14 mm	
FWHM (D50)	47°	
Field Angle (D10)	78°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	3214 lm Measured @ 28.3 W	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

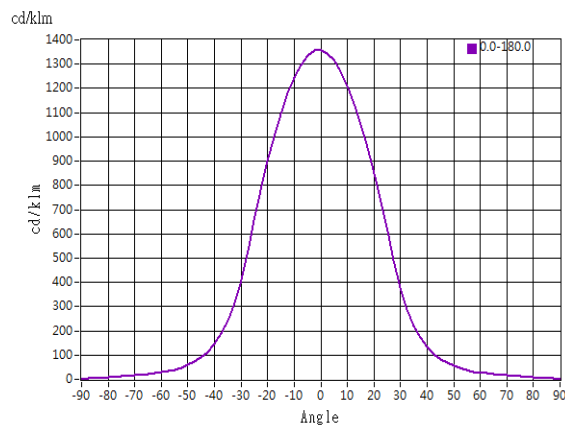




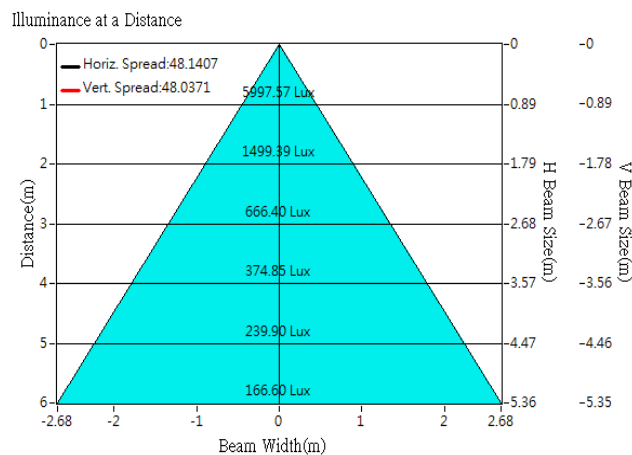
Optical Characteristics

Model Number	CKO-CH15-060027-4309	<p>"H" definition</p> <p>LES CoB</p>
LED	CREE CMA1840	
LES / LED Size	Φ 14 mm	
FWHM (D50)	48°	
Field Angle (D10)	81°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	4419 lm Measured @ 38.5 W	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

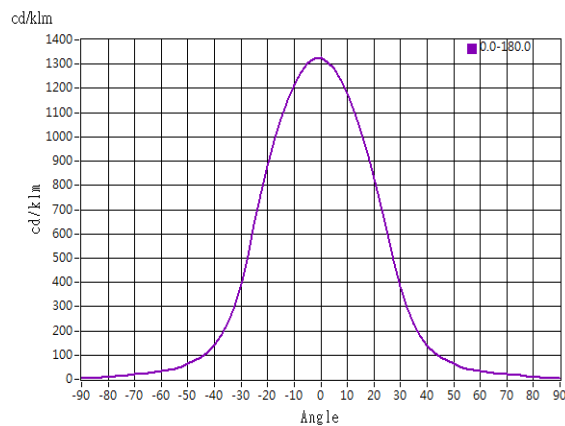




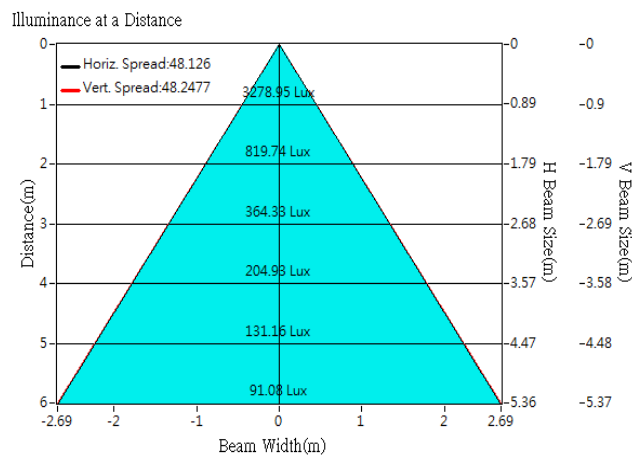
Optical Characteristics

Model Number	CKO-CH15-060027-4309	<p>"H" definition</p>
LED	CREE CMT1922	
LES / LED Size	Φ 14.5 mm	
FWHM (D50)	48°	
Field Angle (D10)	82°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	2474 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

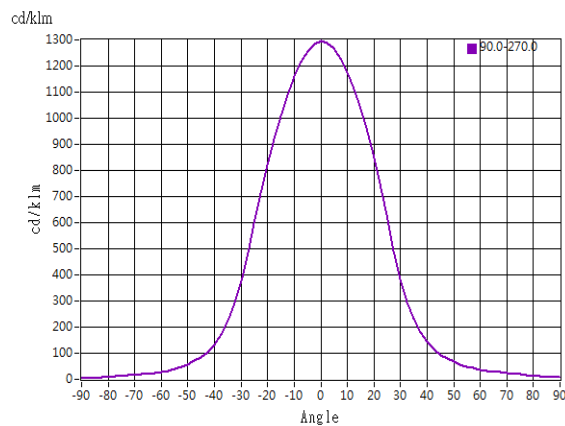




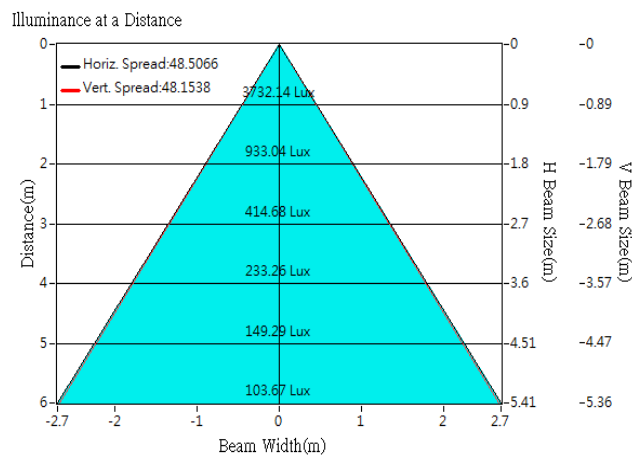
Optical Characteristics

Model Number	CKO-CH15-060027-4309	<p>"H" definition</p>
LED	CREE CMT1925	
LES / LED Size	Φ 14.5 mm	
FWHM (D50)	49°	
Field Angle (D10)	83°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	2882 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

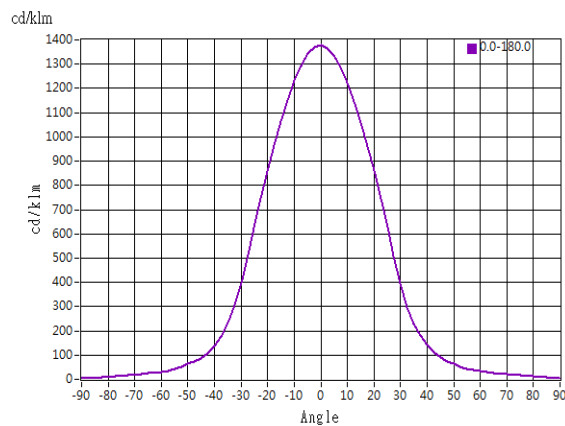




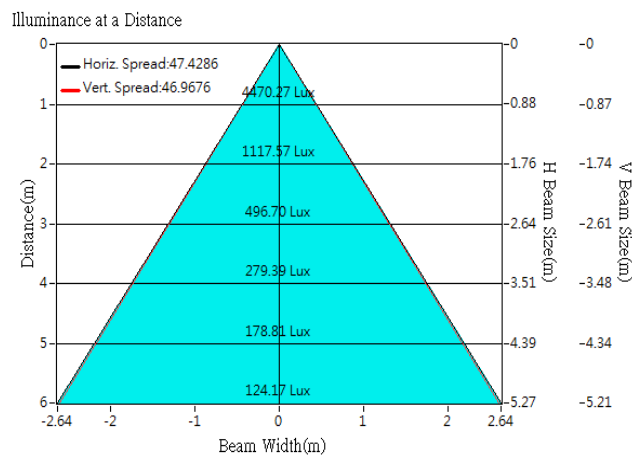
Optical Characteristics

Model Number	CKO-CH15-060027-4309	<p>"H" definition</p> <p>LES CoB</p>
LED	CREE CMT1930	
LES / LED Size	Φ 14.5 mm	
FWHM (D50)	47°	
Field Angle (D10)	80°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	3245 lm Measured @ 29.1 W	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

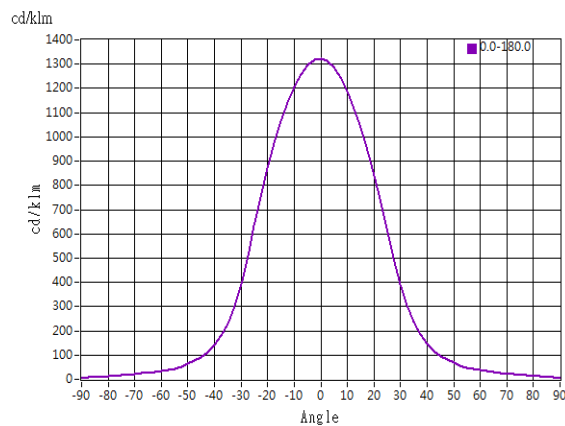




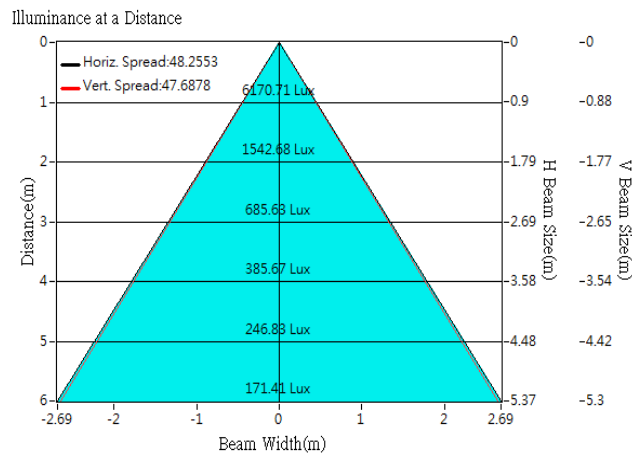
Optical Characteristics

Model Number	CKO-CH15-060027-4309	<p>"H" definition</p> <p>LES CoB</p>
LED	CREE CMT1945	
LES / LED Size	Φ 14.5 mm	
FWHM (D50)	48°	
Field Angle (D10)	82°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	4664 lm Measured @ 43.8 W	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

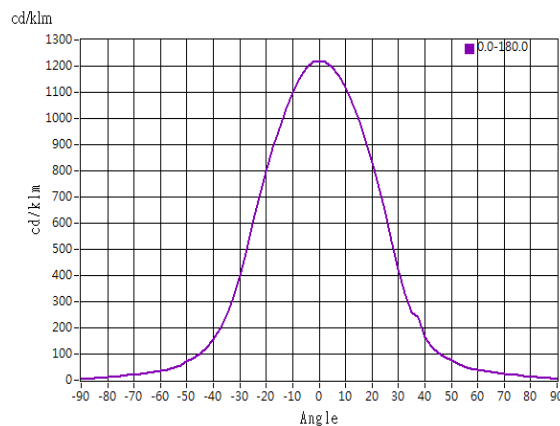




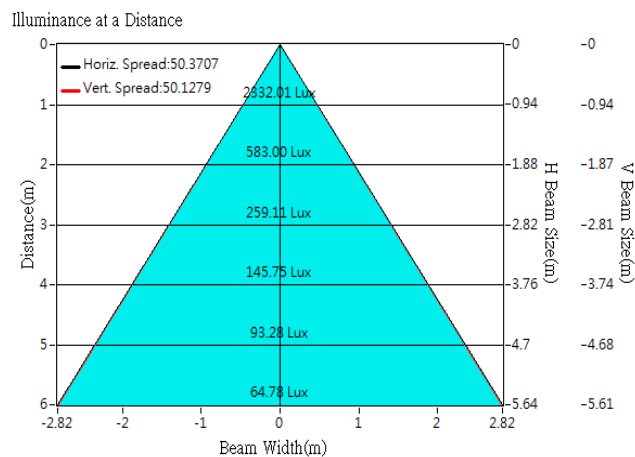
Optical Characteristics

Model Number	CKO-CH15-060027-4309	<p>"H" definition</p> <p>LES CoB</p>
LED	CREE CXA2520	
LES / LED Size	Φ 19 mm	
FWHM (D50)	50°	
Field Angle (D10)	86°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	1911 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

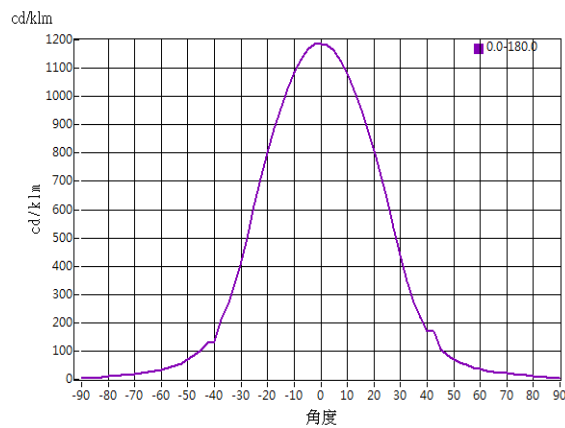




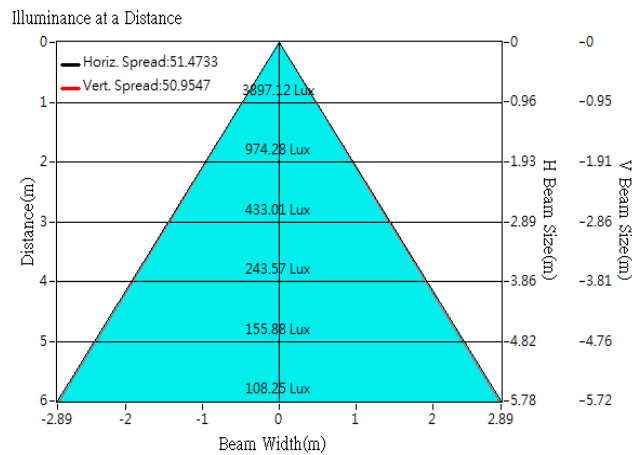
Optical Characteristics

Model Number	CKO-CH15-060027-4309		<p>"H" definition</p>
LED	CREE CXB2530		
LES / LED Size	Φ 19 mm		
FWHM (D50)	51°		
Field Angle (D10)	88°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	3286 lm	Measured @ 27.9 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

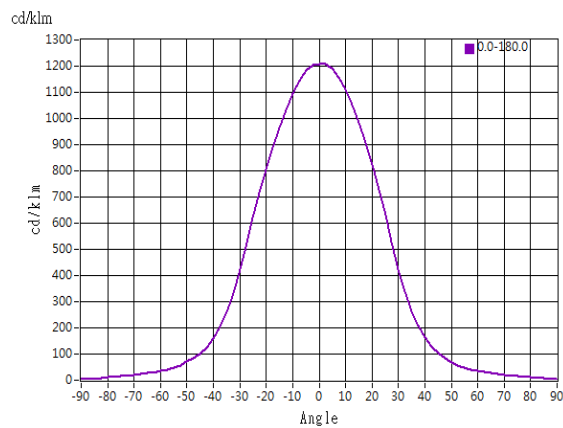




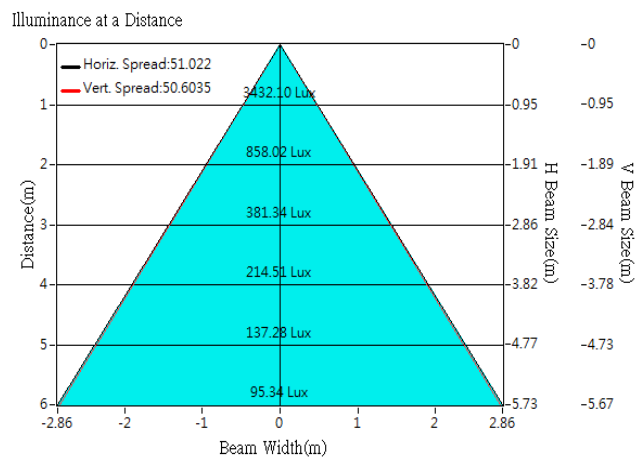
Optical Characteristics

Model Number	CKO-CH15-060027-4309		<p>"H" definition</p>
LED	CREE CXA2540		
LES / LED Size	Φ 19 mm		
FWHM (D50)	51°		
Field Angle (D10)	86°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2842 lm	Measured @ 40.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

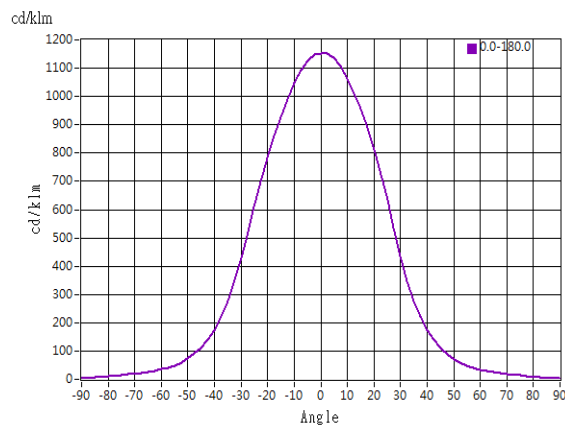




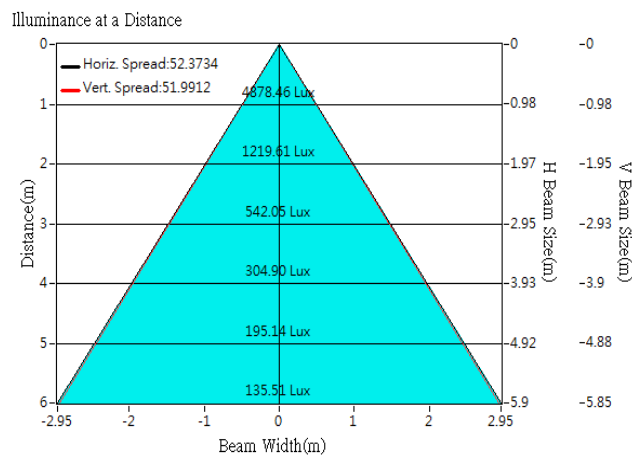
Optical Characteristics

Model Number	CKO-CH15-060027-4309		<p>"H" definition</p>
LED	CREE CXB2540		
LES / LED Size	Φ 19 mm		
FWHM (D50)	52°		
Field Angle (D10)	89°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	4231 lm	Measured @ 38 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

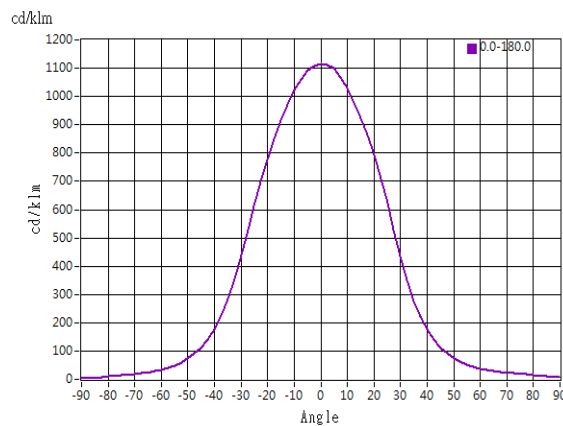




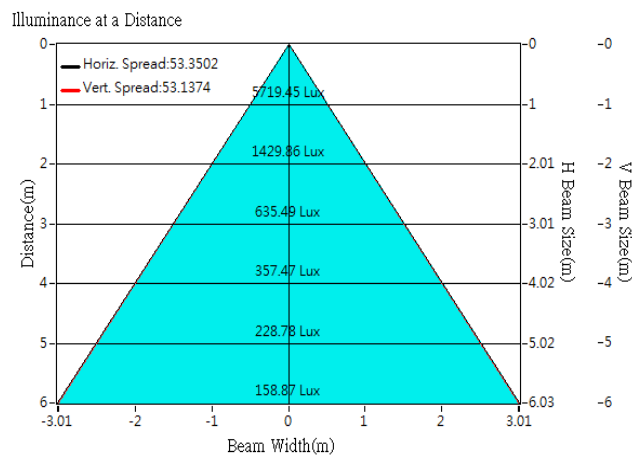
Optical Characteristics

Model Number	CKO-CH15-060027-4309	<p>"H" definition</p>
LED	CREE CMA2550	
LES / LED Size	Φ 19 mm	
FWHM (D50)	53°	
Field Angle (D10)	90°	
H (distance)	3.65mm	
Dimension	Φ =60 mm, Thickness=26.85 mm	
Luminous Flux	5125 lm Measured @ 43.1 W	
Material	PC / UL94V2	

cd/klm

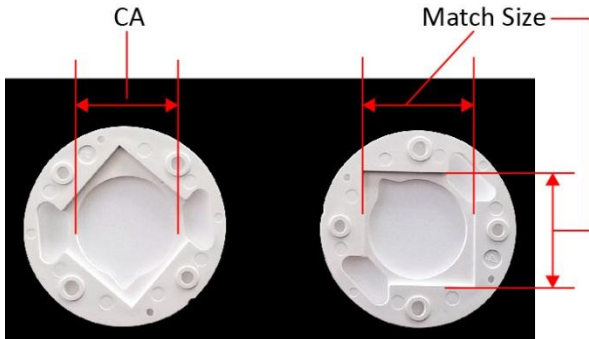


Illuminance At Distances





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