



Product Model Number

CKO-CH15-092043-2201

✓ Model Number Definitions

CKO-XXXX-XXXXXX-XXXX

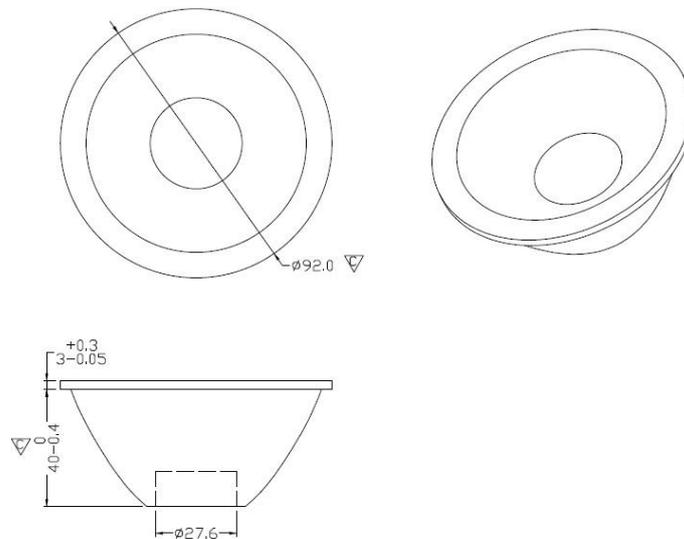


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation
Ex:
CH→CoB High Intensity
CC→CoB Compact
CS→Soft Shading for CoB LED
HC→Holder for CoB LED

- 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) : Φ92 x 43



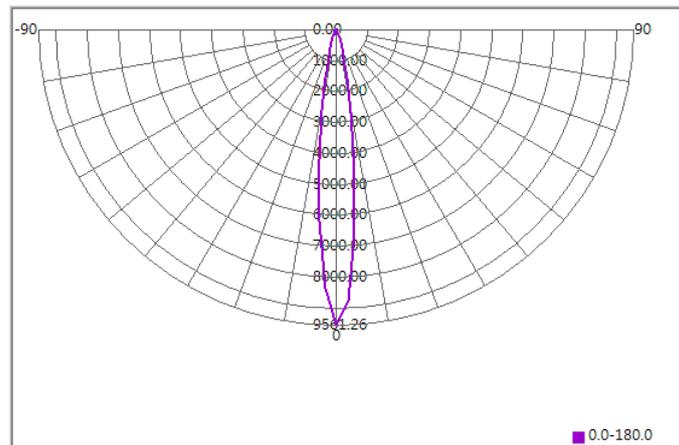
▽:Critical Dimension



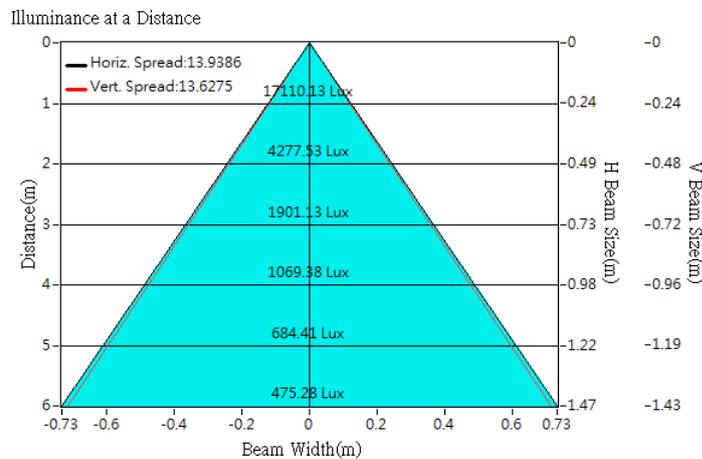
Optical Characteristics

Model Number	CKO-CH15-092043-2201	<p>"H" definition</p> <p>The diagram illustrates the 'H' definition as the distance from the LED surface to the center of the beam at a specific distance. It shows a cross-section of the beam with a horizontal line representing the LED surface and a vertical line representing the distance 'H' to the center of the beam. Labels include 'LES' (LED Surface), 'CoB' (Center of Beam), and '"H" mm (distance)'.</p>
LED	CREE CXB1816	
LES / LED Size	Φ 12 mm	
FWHM (D50)	13°	
Field Angle (D10)	30°	
H (distance)	3.65 mm	
Dimension	Φ =92 mm, Thickness=43 mm	
Luminous Flux	1789 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

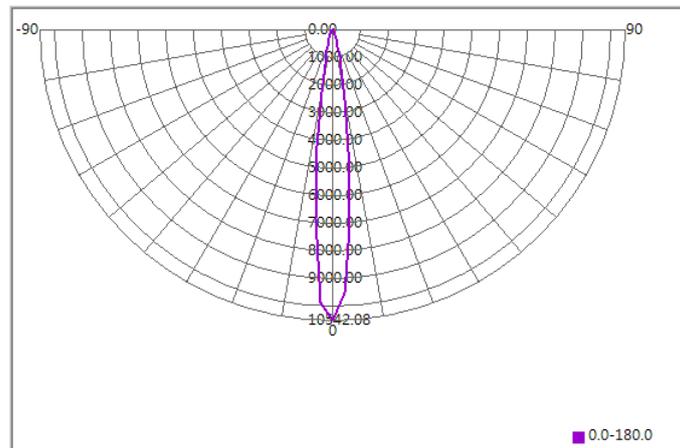




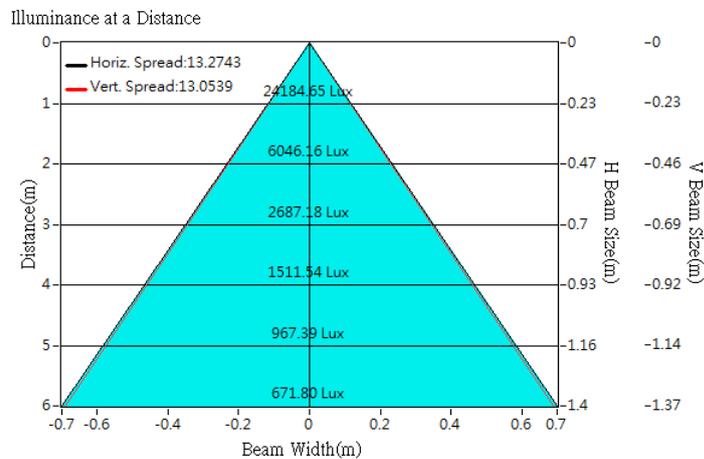
Optical Characteristics

Model Number	CKO-CH15-092043-2201	<p>"H" definition</p>
LED	CREE CXB1820	
LES / LED Size	Φ 12 mm	
FWHM (D50)	13°	
Field Angle (D10)	29°	
H (distance)	3.65 mm	
Dimension	Φ =92 mm, Thickness=43 mm	
Luminous Flux	2294 lm	
Material	PC / UL94V2	

cd/klm



Illuminance At Distances

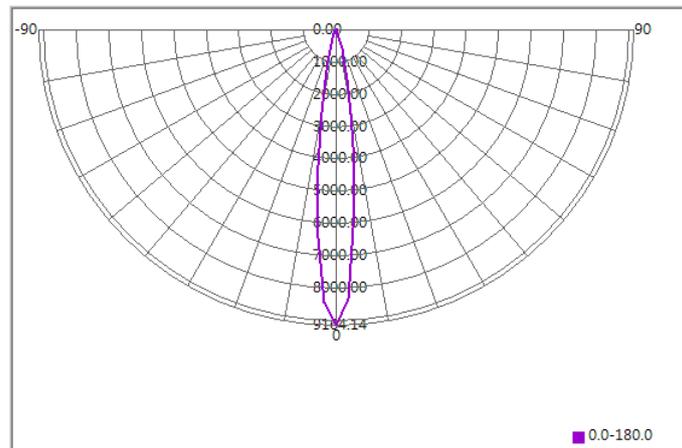




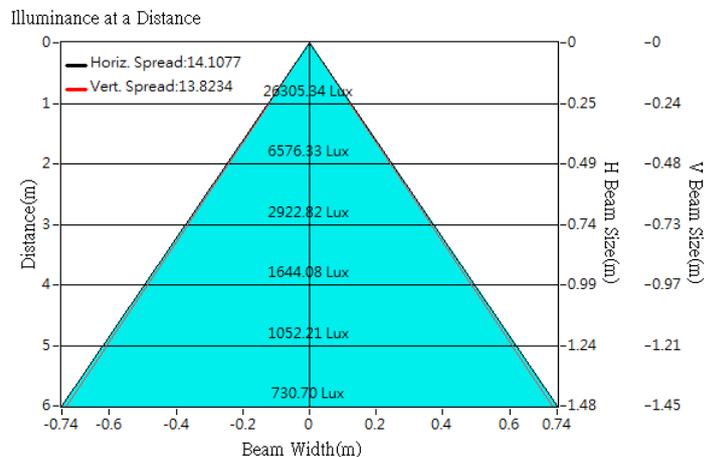
Optical Characteristics

Model Number	CKO-CH15-092043-2201	<p>"H" definition</p> <p>LES CoB</p>
LED	CMA1825	
LES / LED Size	Φ 12 mm	
FWHM (D50)	14°	
Field Angle (D10)	31°	
H (distance)	3.65 mm	
Dimension	Φ =92 mm, Thickness=43 mm	
Luminous Flux	2870 lm	
Material	PC / UL94V2	

cd/klm

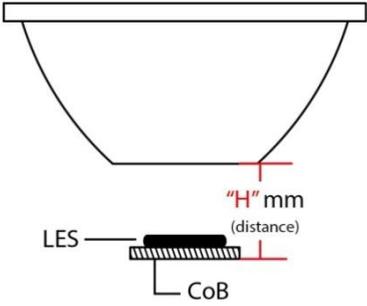


Illuminance At Distances

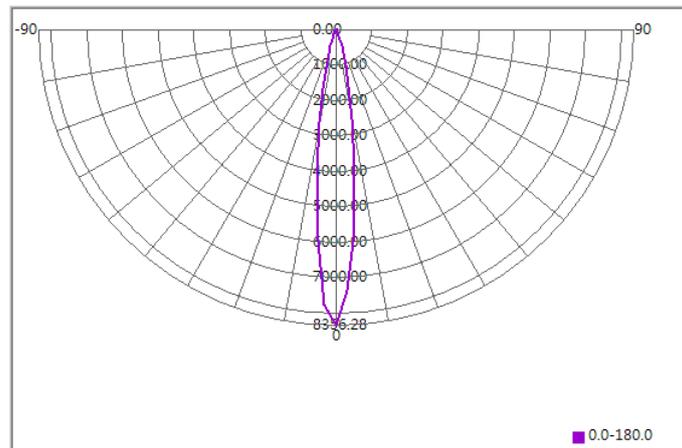




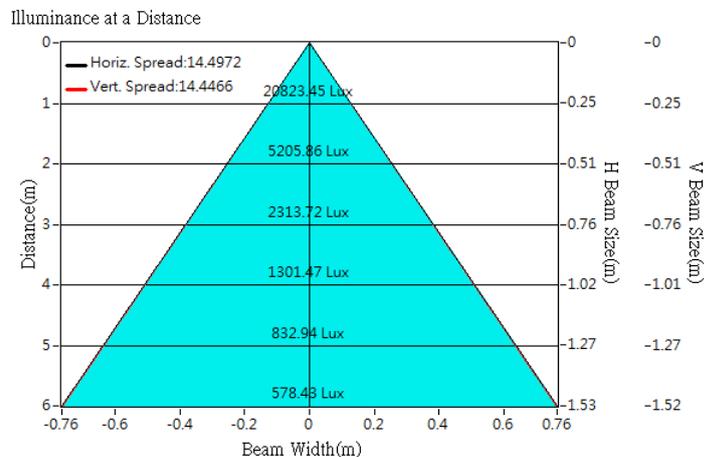
Optical Characteristics

Model Number	CKO-CH15-092043-2201		<p>"H" definition</p> 
LED	CXA1830		
LES / LED Size	Φ 14 mm		
FWHM (D50)	14°		
Field Angle (D10)	33°		
H (distance)	3.65 mm		
Dimension	Φ =92 mm, Thickness=43 mm		
Luminous Flux	2491 lm	Measured @ 29.9 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

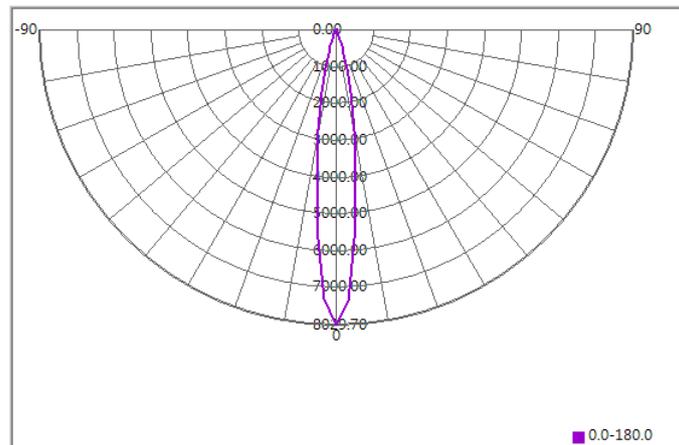




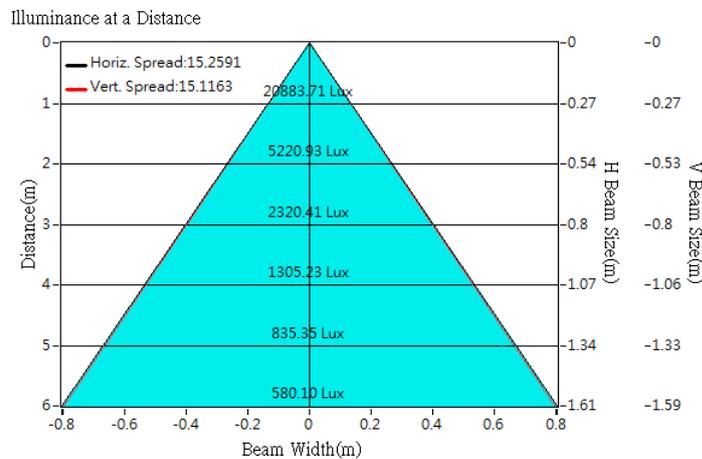
Optical Characteristics

Model Number	CKO-CH15-092043-2201		<p>"H" definition</p>
LED	CREE CXB1830		
LES / LED Size	Φ 14 mm		
FWHM (D50)	15°		
Field Angle (D10)	34°		
H (distance)	3.65 mm		
Dimension	Φ =92 mm, Thickness=43 mm		
Luminous Flux	2600 lm	Measured @ 27.7 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

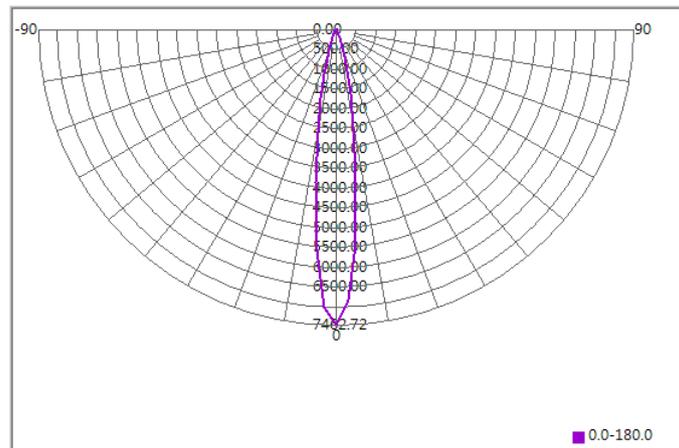




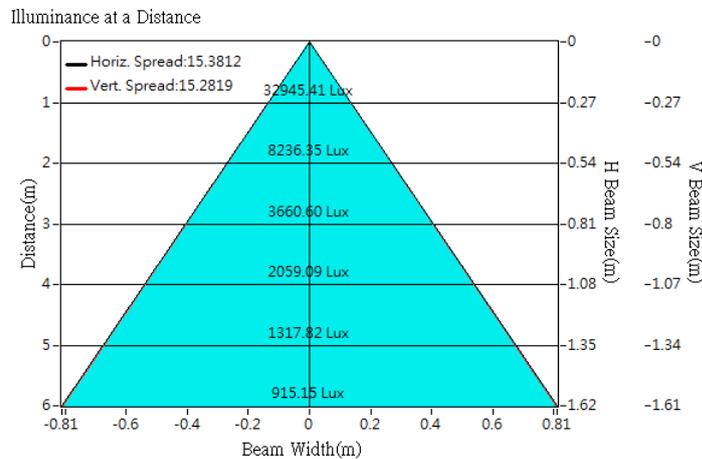
Optical Characteristics

Model Number	CKO-CH15-092043-2201		<p>"H" definition</p>
LED	CMA1840		
LES / LED Size	Φ 14 mm		
FWHM (D50)	15°		
Field Angle (D10)	35°		
H (distance)	3.65 mm		
Dimension	Φ =92 mm, Thickness=43 mm		
Luminous Flux	4414 lm	Measured @ 38.8 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

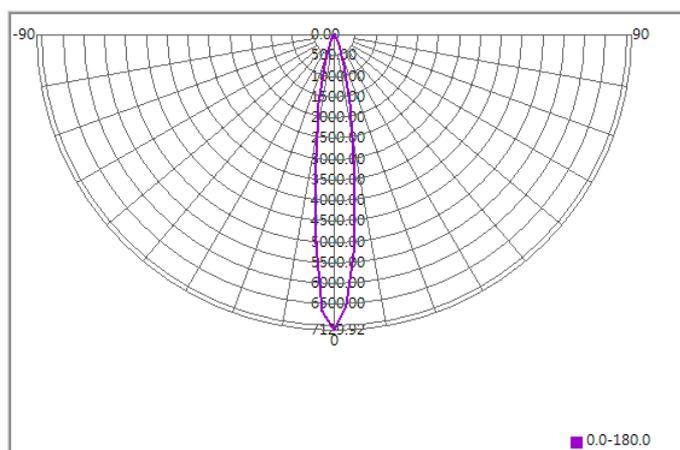




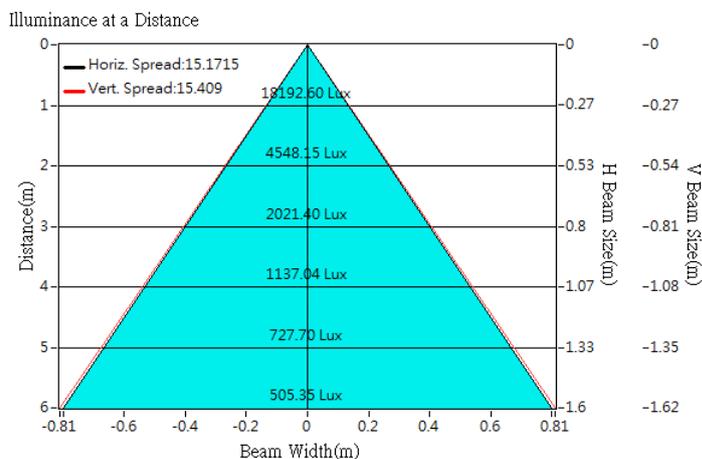
Optical Characteristics

Model Number	CKO-CH15-092043-2201		<p>"H" definition</p>
LED	CMT1922		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	15°		
Field Angle (D10)	36°		
H (distance)	3.65 mm		
Dimension	Φ =92 mm, Thickness=43 mm		
Luminous Flux	2551 lm	Measured @ 21.1 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

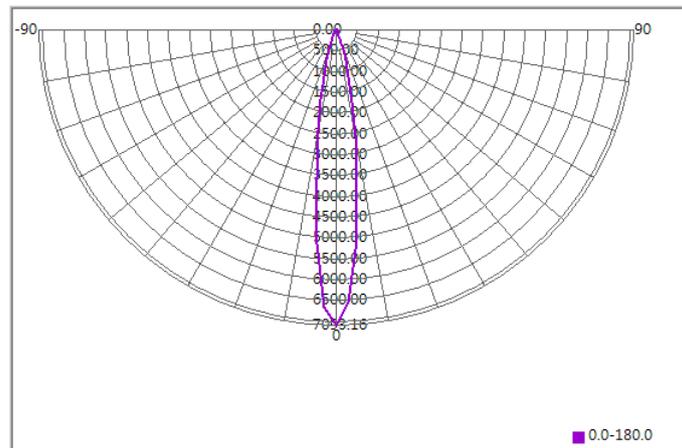




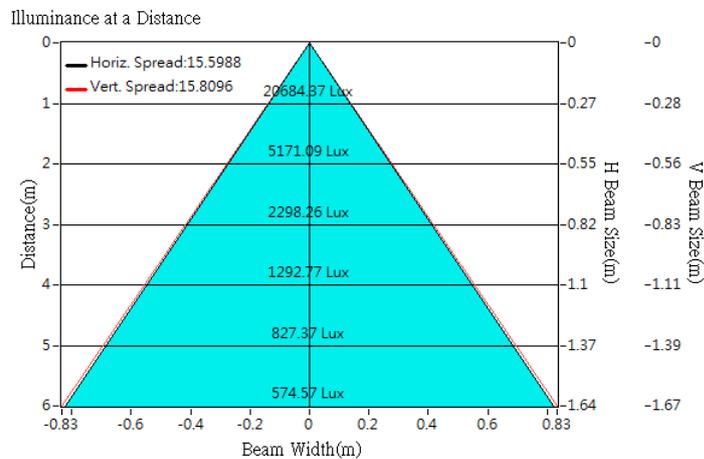
Optical Characteristics

Model Number	CKO-CH15-092043-2201		<p>"H" definition</p>
LED	CMT1925		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	15°		
Field Angle (D10)	36°		
H (distance)	3.65 mm		
Dimension	Φ =92 mm, Thickness=43 mm		
Luminous Flux	2916 lm	Measured @ 24.4 W	
Material	PC / UL94V2		

cd/klm

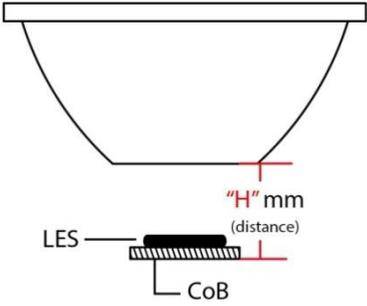


Illuminance At Distances

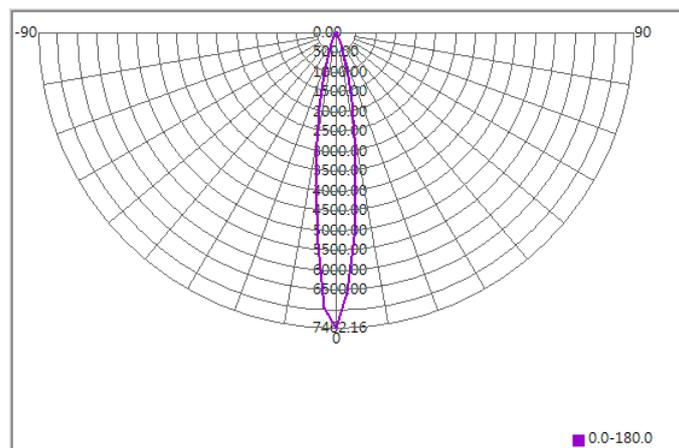




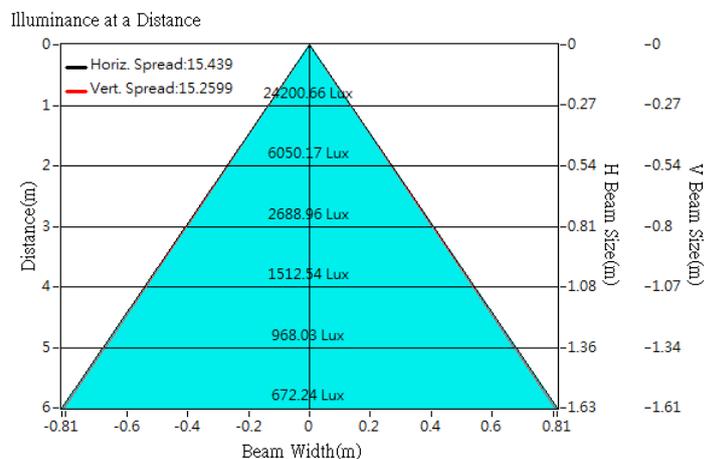
Optical Characteristics

Model Number	CKO-CH15-092043-2201		<p>"H" definition</p> 
LED	CMT1930		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	15°		
Field Angle (D10)	36°		
H (distance)	3.65 mm		
Dimension	Φ =92 mm, Thickness=43 mm		
Luminous Flux	3243 lm	Measured @ 28.0 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

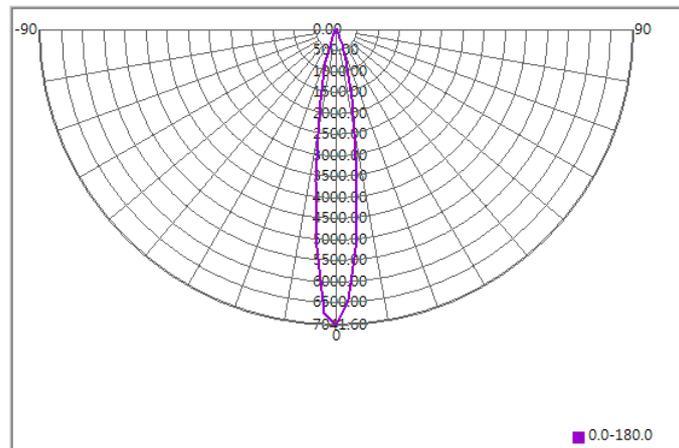




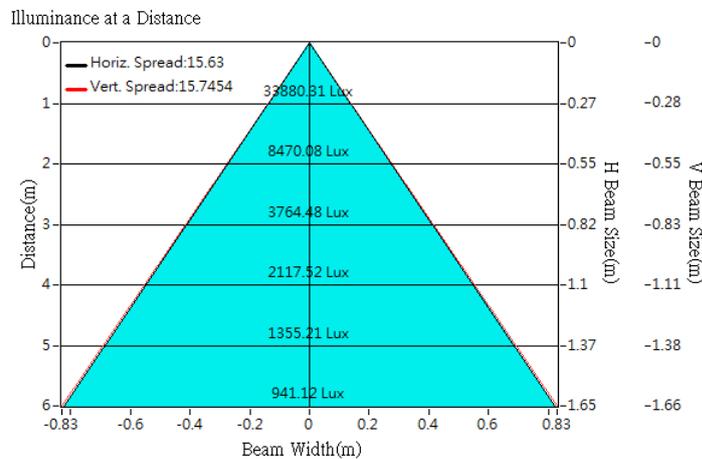
Optical Characteristics

Model Number	CKO-CH15-092043-2201		<p>"H" definition</p> <p>LES CoB</p>
LED	CMT1945		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	15°		
Field Angle (D10)	36°		
H (distance)	3.65 mm		
Dimension	Φ =92 mm, Thickness=43 mm		
Luminous Flux	4811 lm	Measured @ 42.3 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

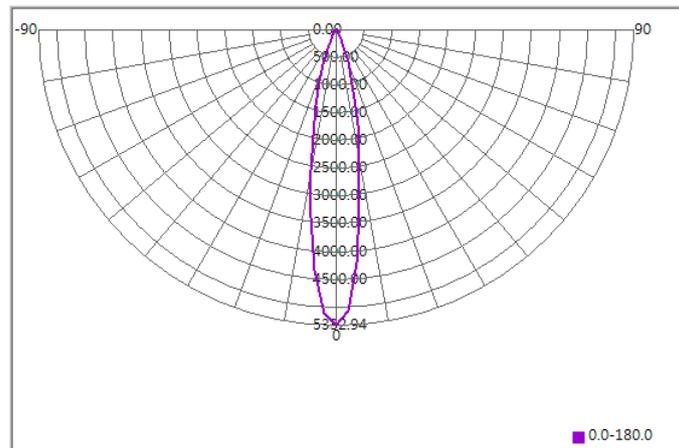




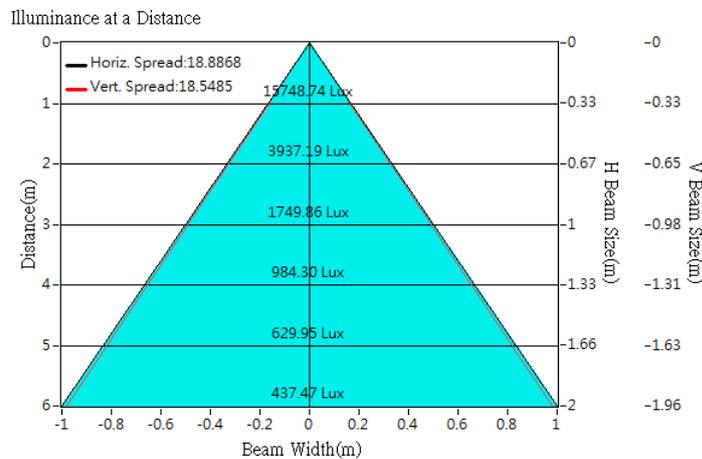
Optical Characteristics

Model Number	CKO-CH15-092043-2201		<p>"H" definition</p> <p>LES CoB</p>
LED	CREE CXB2530		
LES / LED Size	Φ 19 mm		
FWHM (D50)	18°		
Field Angle (D10)	43°		
H (distance)	3.65 mm		
Dimension	Φ =92 mm, Thickness=43 mm		
Luminous Flux	2953 lm	Measured @ 27.7 W	
Material	PC / UL94V2		

cd/klm

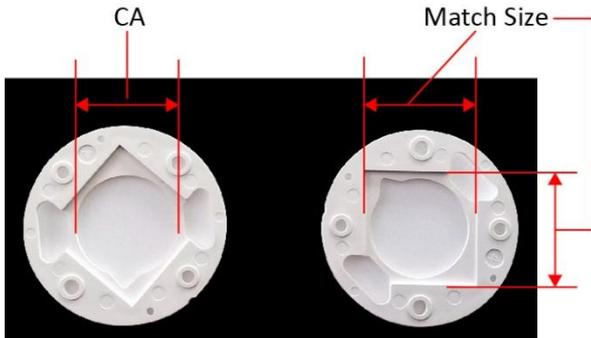


Illuminance At Distances





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