



Product Model Number

CKO-CH15-092043-2401

✓ Model Number Definitions

CKO-XXXX-XXXXXX-XXXX

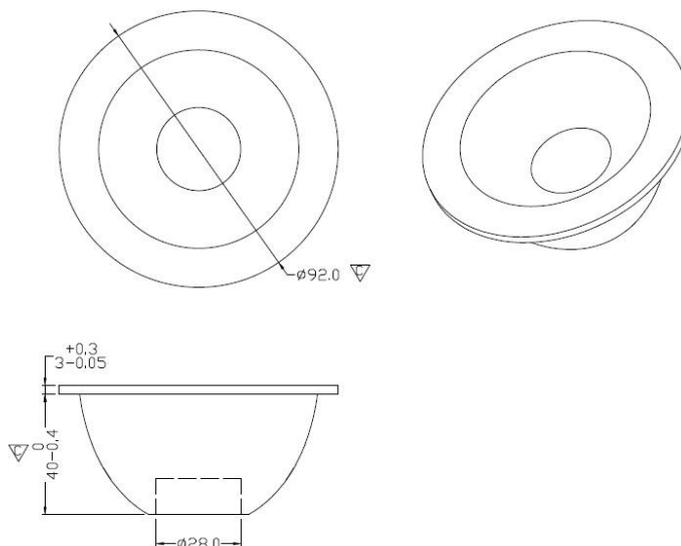


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation
Ex:
CH→CoB High Intensity
CC→CoB Compact
CS→Soft Shading for CoB LED
HC→Holder for CoB LED

- 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



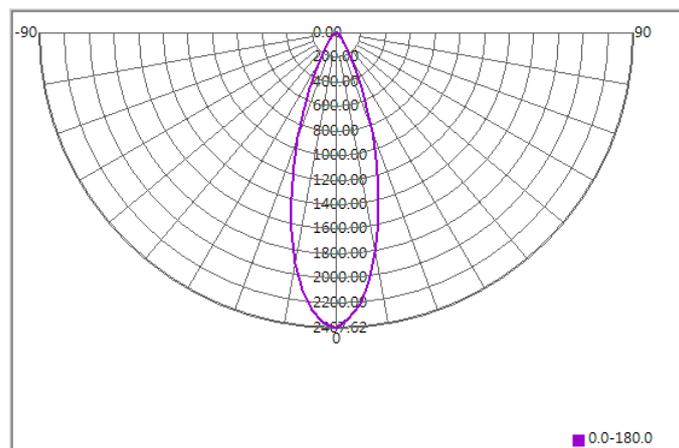
▽:Critical Dimension



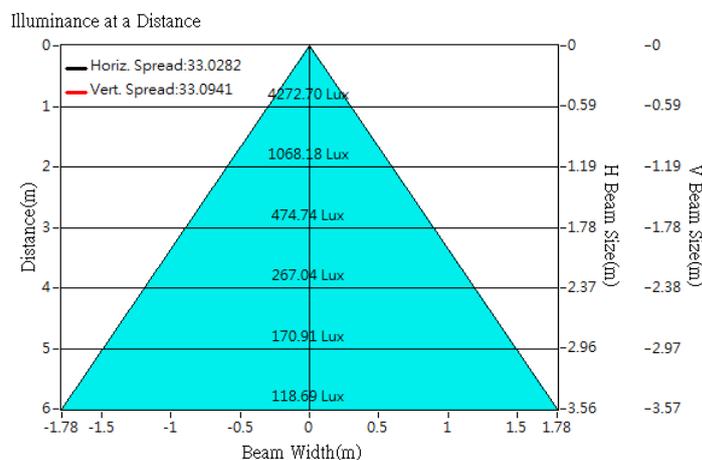
Optical Characteristics

| | | |
|-------------------|---------------------------|--|
| Model Number | CKO-CH15-092043-2401 | <p>"H" definition</p> <p>LES CoB</p> |
| LED | CREE CXB1816 | |
| LES / LED Size | Φ 12 mm | |
| FWHM (D50) | 33° | |
| Field Angle (D10) | 61° | |
| H (distance) | 3.65 mm | |
| Dimension | Φ =92 mm, Thickness=43 mm | |
| Luminous Flux | 1774 lm | |
| Material | PC / UL94V2 | |

cd/klm



Illuminance At Distances

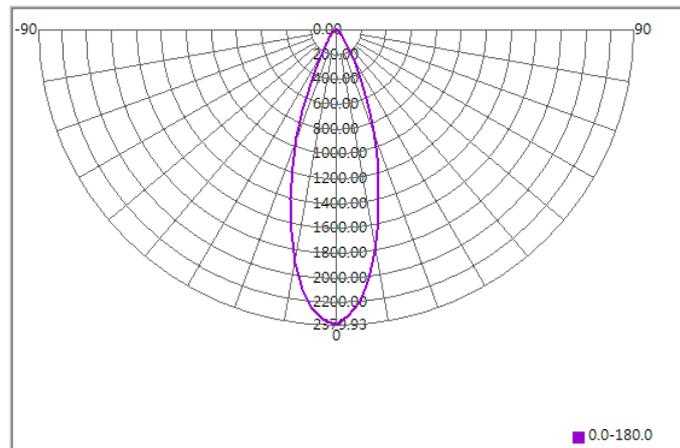




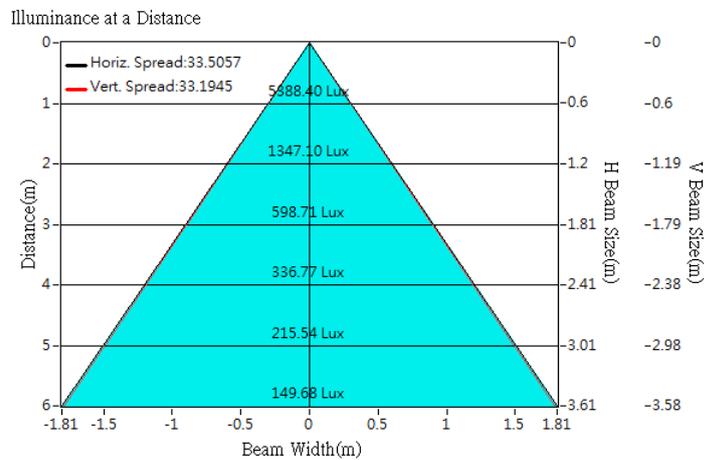
Optical Characteristics

| | | | |
|-------------------|---------------------------|-------------------|-----------------------|
| Model Number | CKO-CH15-092043-2401 | | <p>"H" definition</p> |
| LED | CREE CXB1820 | | |
| LES / LED Size | Φ 12 mm | | |
| FWHM (D50) | 34° | | |
| Field Angle (D10) | 61° | | |
| H (distance) | 3.65 mm | | |
| Dimension | Φ =92 mm, Thickness=43 mm | | |
| Luminous Flux | 2264 lm | Measured @ 19.4 W | |
| Material | PC / UL94V2 | | |

cd/klm



Illuminance At Distances

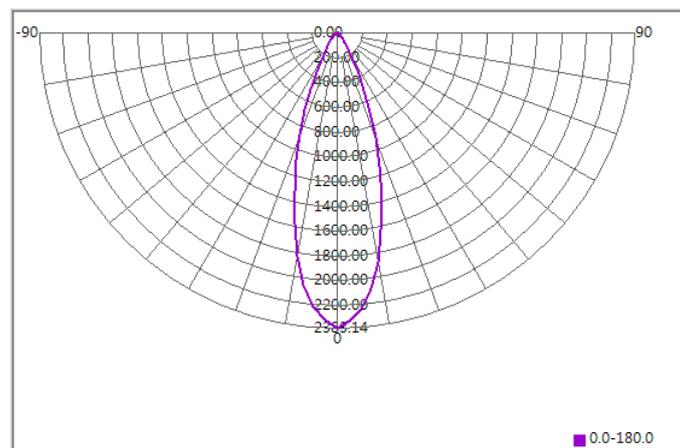




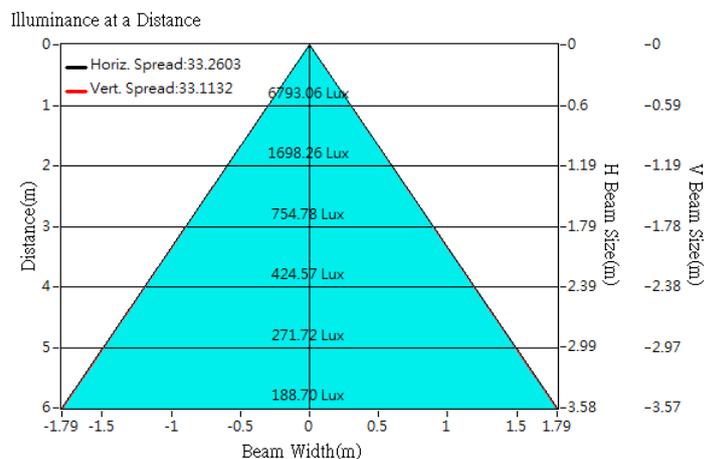
Optical Characteristics

| | | | |
|-------------------|---------------------------|-------------------|-----------------------|
| Model Number | CKO-CH15-092043-2401 | | <p>"H" definition</p> |
| LED | CMA1825 | | |
| LES / LED Size | Φ 12 mm | | |
| FWHM (D50) | 33° | | |
| Field Angle (D10) | 61° | | |
| H (distance) | 3.65 mm | | |
| Dimension | Φ =92 mm, Thickness=43 mm | | |
| Luminous Flux | 2850 lm | Measured @ 24.6 W | |
| Material | PC / UL94V2 | | |

cd/klm



Illuminance At Distances

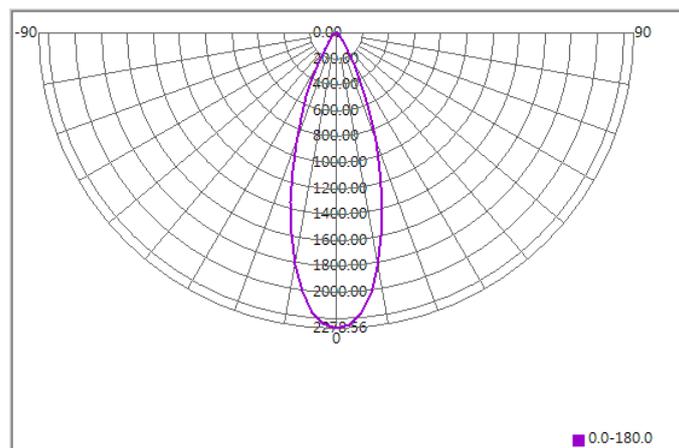




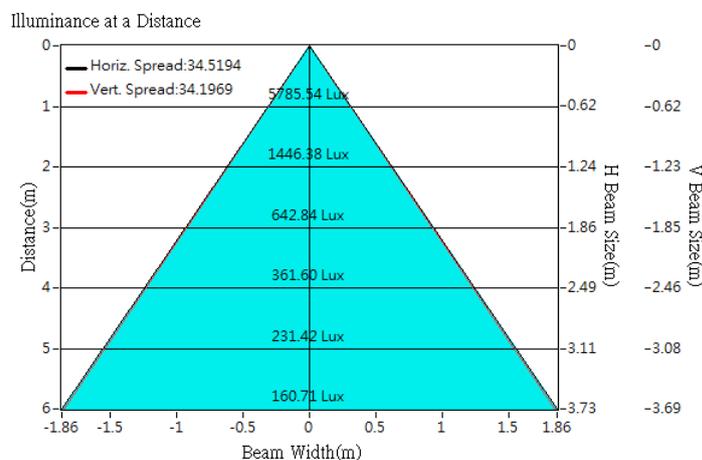
Optical Characteristics

| | | | |
|-------------------|---------------------------|-------------------|--|
| Model Number | CKO-CH15-092043-2401 | | <p>"H" definition</p> <p>LES CoB</p> |
| LED | CXA1830 | | |
| LES / LED Size | Φ 14 mm | | |
| FWHM (D50) | 35° | | |
| Field Angle (D10) | 62° | | |
| H (distance) | 3.65 mm | | |
| Dimension | Φ =92 mm, Thickness=43 mm | | |
| Luminous Flux | 2538 lm | Measured @ 29.9 W | |
| Material | PC / UL94V2 | | |

cd/klm



Illuminance At Distances

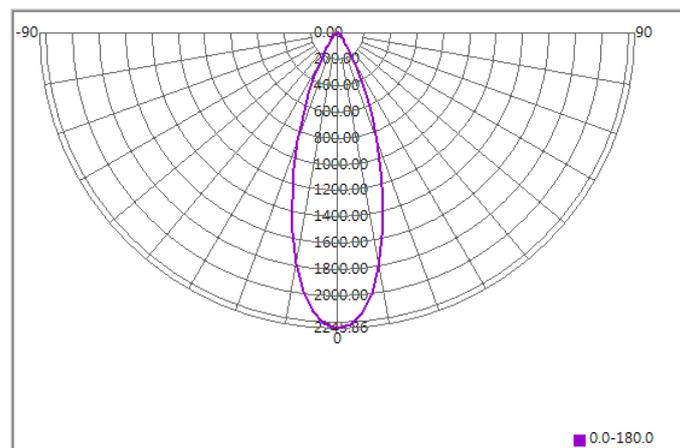




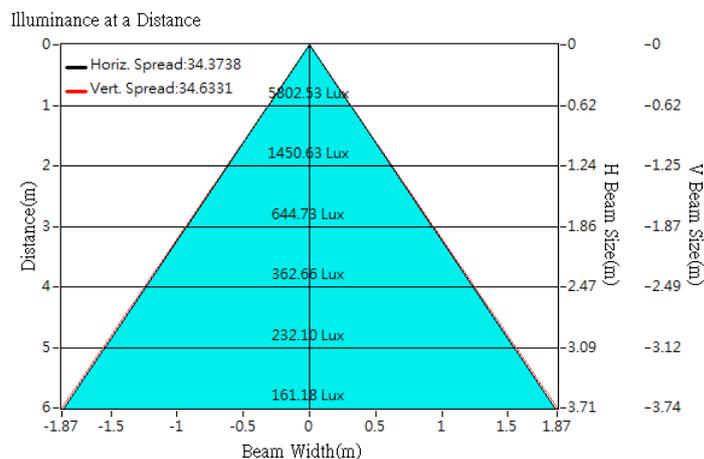
Optical Characteristics

| | | | |
|-------------------|---------------------------|-------------------|-----------------------|
| Model Number | CKO-CH15-092043-2401 | | <p>"H" definition</p> |
| LED | CREE CXB1830 | | |
| LES / LED Size | Φ 14 mm | | |
| FWHM (D50) | 34° | | |
| Field Angle (D10) | 63° | | |
| H (distance) | 3.65 mm | | |
| Dimension | Φ =92 mm, Thickness=43 mm | | |
| Luminous Flux | 2583 lm | Measured @ 27.7 W | |
| Material | PC / UL94V2 | | |

cd/klm



Illuminance At Distances

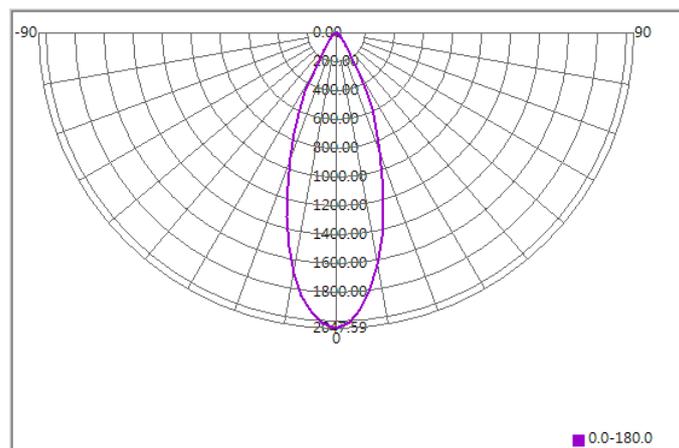




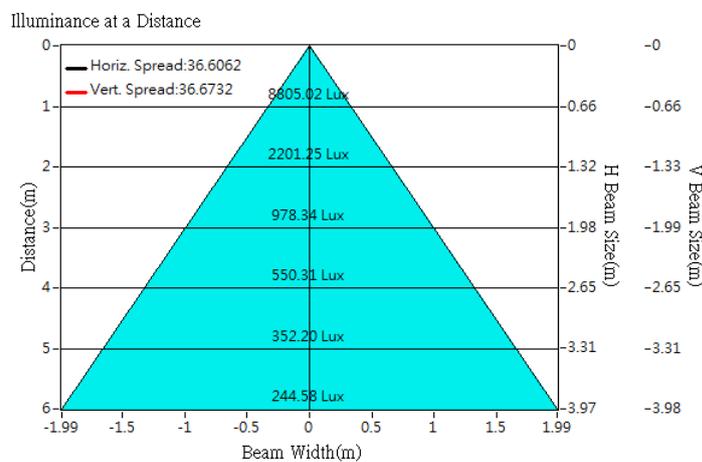
Optical Characteristics

| | | | |
|-------------------|---------------------------|-------------------|--|
| Model Number | CKO-CH15-092043-2401 | | <p>"H" definition</p> <p>LES CoB</p> |
| LED | CMA1840 | | |
| LES / LED Size | Φ 14 mm | | |
| FWHM (D50) | 36° | | |
| Field Angle (D10) | 63° | | |
| H (distance) | 3.65 mm | | |
| Dimension | Φ =92 mm, Thickness=43 mm | | |
| Luminous Flux | 4300 lm | Measured @ 38.7 W | |
| Material | PC / UL94V2 | | |

cd/klm



Illuminance At Distances

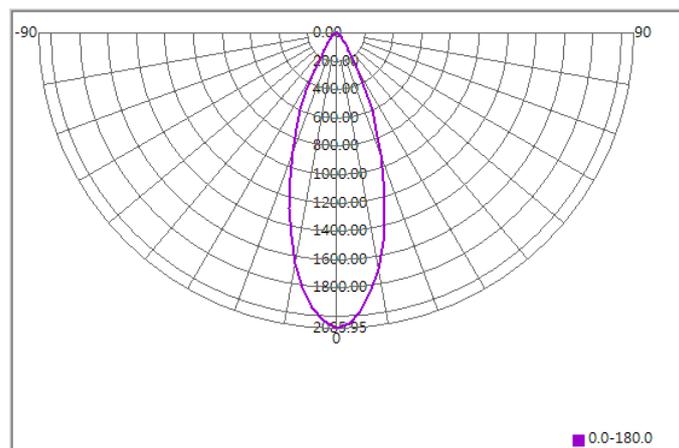




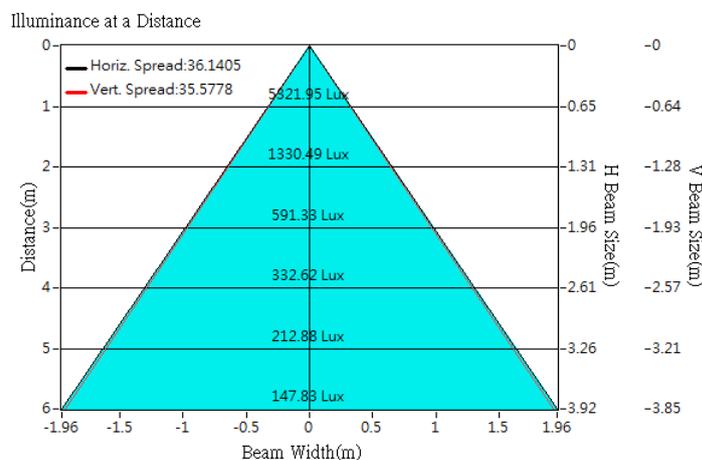
Optical Characteristics

| | | | |
|-------------------|---------------------------|-------------------|--|
| Model Number | CKO-CH15-092043-2401 | | <p>"H" definition</p> <p>LES CoB</p> |
| LED | CMT1922 | | |
| LES / LED Size | Φ 14.5 mm | | |
| FWHM (D50) | 34° | | |
| Field Angle (D10) | 62° | | |
| H (distance) | 3.65 mm | | |
| Dimension | Φ =92 mm, Thickness=43 mm | | |
| Luminous Flux | 2551 lm | Measured @ 21.2 W | |
| Material | PC / UL94V2 | | |

cd/klm



Illuminance At Distances

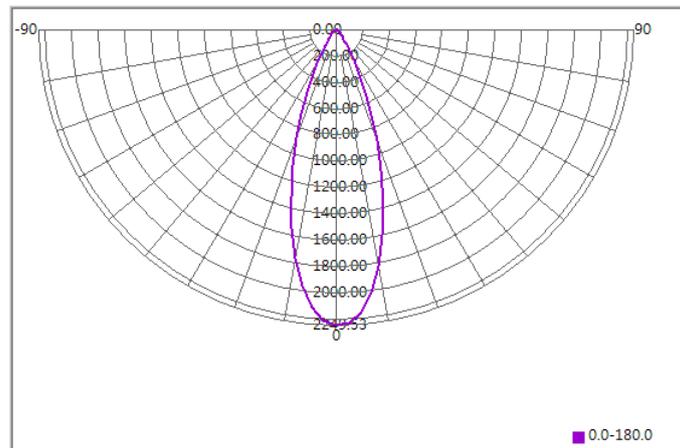




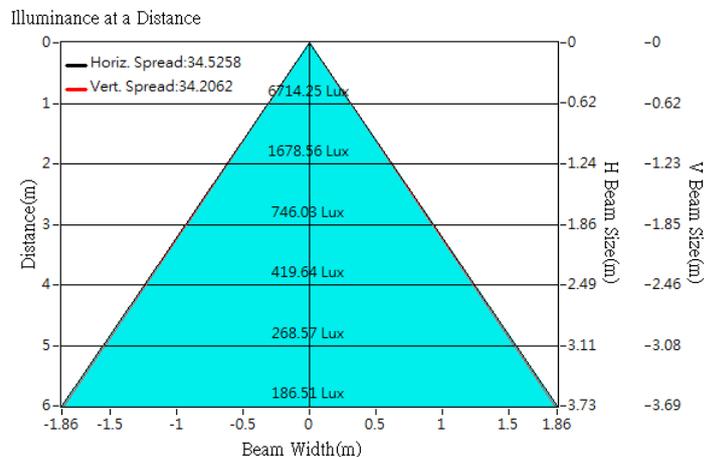
Optical Characteristics

| | | | |
|-------------------|---------------------------|-------------------|--|
| Model Number | CKO-CH15-092043-2401 | | <p>"H" definition</p> <p>LES CoB</p> |
| LED | CMT1925 | | |
| LES / LED Size | Φ 14.5 mm | | |
| FWHM (D50) | 35° | | |
| Field Angle (D10) | 63° | | |
| H (distance) | 3.65 mm | | |
| Dimension | Φ =92 mm, Thickness=43 mm | | |
| Luminous Flux | 2984 lm | Measured @ 24.4 W | |
| Material | PC / UL94V2 | | |

cd/klm

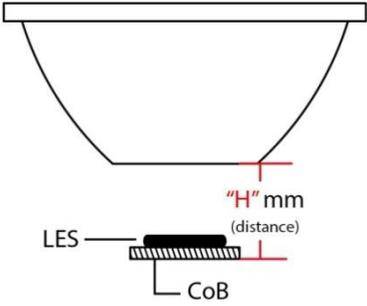


Illuminance At Distances

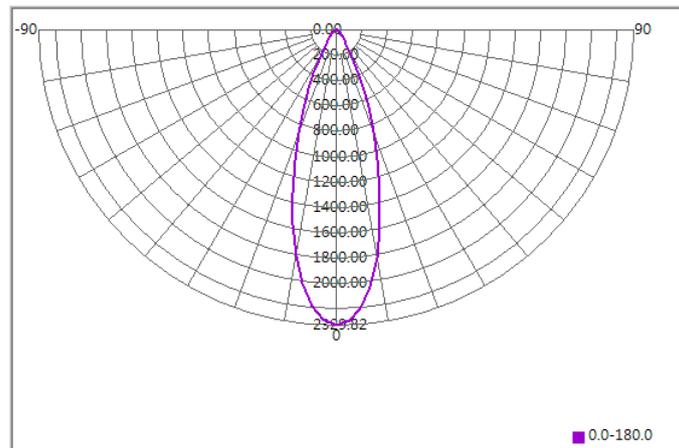




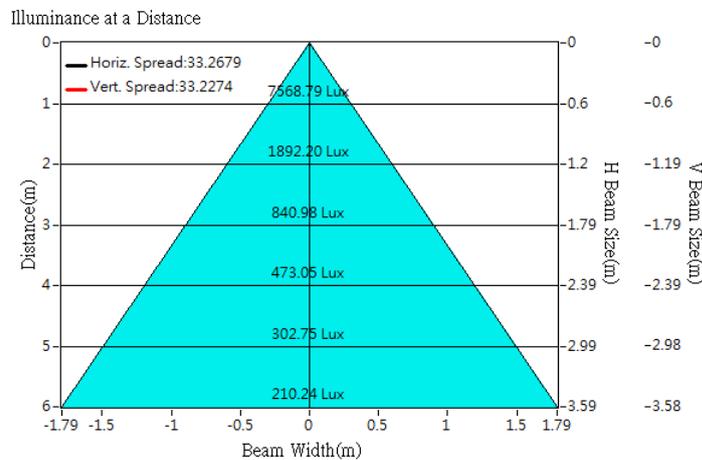
Optical Characteristics

| | | | |
|-------------------|---------------------------|-------------------|--|
| Model Number | CKO-CH15-092043-2401 | | <p>"H" definition</p>  |
| LED | CMT1930 | | |
| LES / LED Size | Φ 14.5 mm | | |
| FWHM (D50) | 33° | | |
| Field Angle (D10) | 62° | | |
| H (distance) | 3.65 mm | | |
| Dimension | Φ =92 mm, Thickness=43 mm | | |
| Luminous Flux | 3248 lm | Measured @ 28.0 W | |
| Material | PC / UL94V2 | | |

cd/klm



Illuminance At Distances

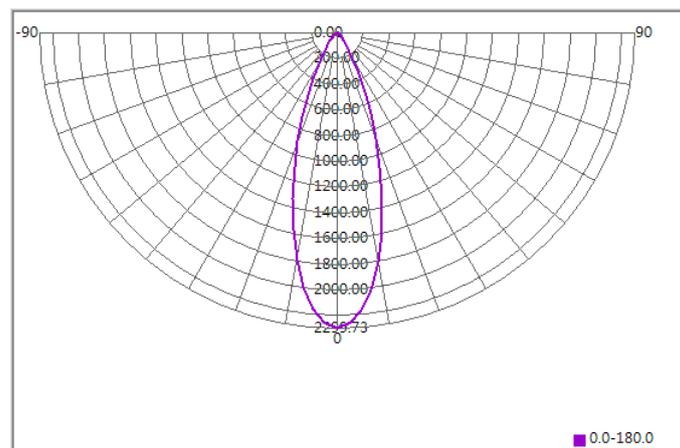




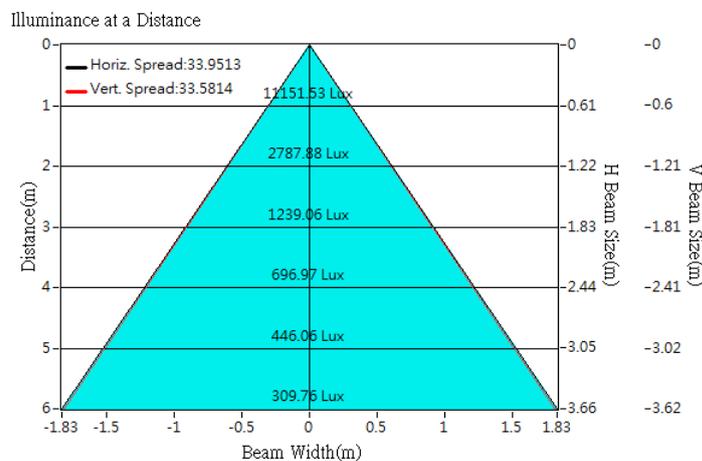
Optical Characteristics

| | | |
|-------------------|---------------------------|--|
| Model Number | CKO-CH15-092043-2401 | <p>"H" definition</p> <p>LES CoB</p> |
| LED | CMT1945 | |
| LES / LED Size | Φ 14.5 mm | |
| FWHM (D50) | 34° | |
| Field Angle (D10) | 62° | |
| H (distance) | 3.65 mm | |
| Dimension | Φ =92 mm, Thickness=43 mm | |
| Luminous Flux | 4849 lm | |
| Material | PC / UL94V2 | |

cd/klm



Illuminance At Distances

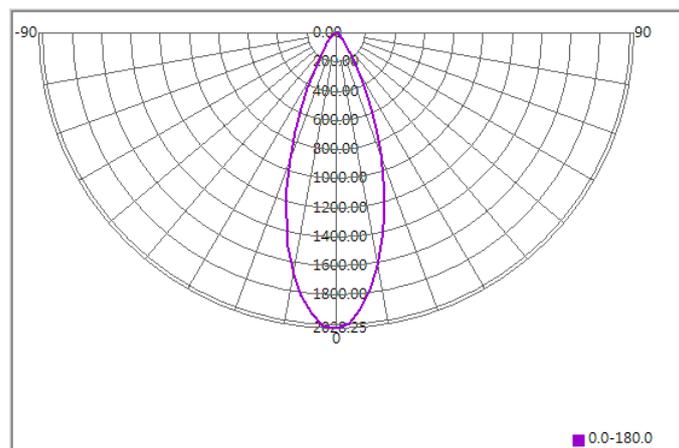




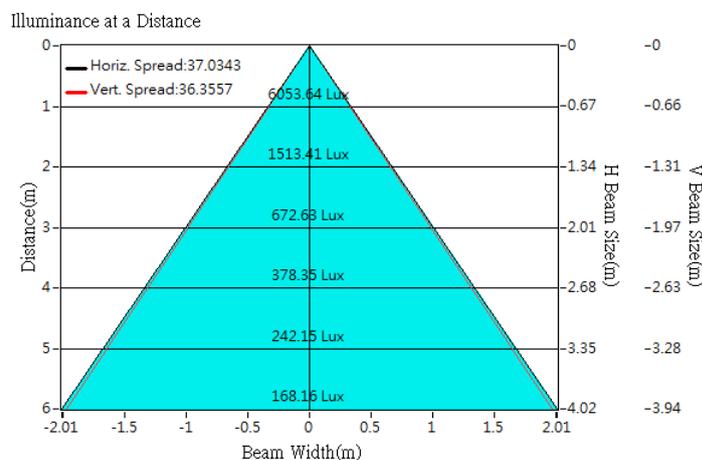
Optical Characteristics

| | | | |
|-------------------|---------------------------|-------------------|--|
| Model Number | CKO-CH15-092043-2401 | | <p>"H" definition</p> <p>LES CoB</p> |
| LED | CXB 2530 | | |
| LES / LED Size | Φ 19 mm | | |
| FWHM (D50) | 37° | | |
| Field Angle (D10) | 66° | | |
| H (distance) | 3.65 mm | | |
| Dimension | Φ =92 mm, Thickness=43 mm | | |
| Luminous Flux | 2984 lm | Measured @ 27.6 W | |
| Material | PC / UL94V2 | | |

cd/klm

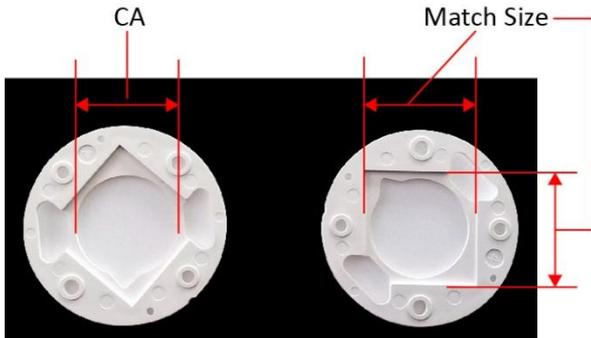


Illuminance At Distances





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 |