



Product Model Number

CKO-CH15-060027-4301

✓ Model Number Definitions

CKO-XXXX-XXXXXX-XXXX

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(A)

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(B)

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(C)

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(D)

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(E)

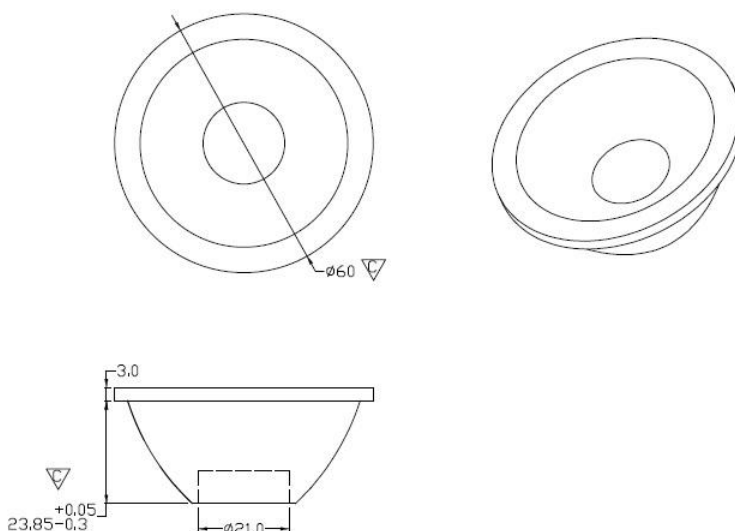


- A. Chun Kuang Optics Corp. Product
- B. Product Type: product abbreviation
Ex:
CH→CoB High Intensity
CC→CoB Compact
CS→Soft Shading for CoB LED
HC→Holder for CoB LED

- C. Identity Code
- D. Lens / Fixture Size
Ex: 075026=Φ75mm / Thickness=26mm (round up)
- C. Serial Numbers

The lens datasheet is applicable for **Philips LED**, that manufactured by Chun Kuang Optics Corp.

✓ Dimensions (mm) : Φ60 x 26.85



▽:Critical Dimension



✓ **Optical Characteristics – Angle Performances**

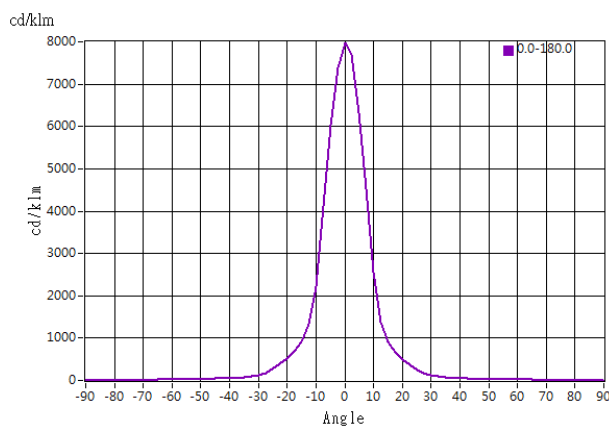
Philips	LED LES (mm)	FWHM (degrees)	Field Angle (degrees)
Fortimo SLM 1203 L09 G6	Φ9	15°	32°
Fortimo SLM 1203 L09 G6_DL	Φ9	16°	35°
Fortimo SLM 1203 L09 G6_PI	Φ9	16°	35°
Fortimo SLM PW 1204 L09 G7	Φ9	15°	34°
Fortimo SLM 1201 L09 G7N	Φ9.8	15°	34°
Fortimo SLM 1202 L09 G7N	Φ9.8	17°	37°
Fortimo SLM 1203 L09 G7N	Φ9.8	17°	35°
Fortimo SLM 1204 L09 G7N	Φ9.8	16°	34°
Fortimo SLM 1205 L13 G7	Φ13	23°	48°
Fortimo SLM PW 1205 L13 G6	Φ13	23°	47°
Fortimo SLM PW 1205 L13 G6_DL	Φ13	22°	50°
Fortimo SLM PW 1205 L13 G6_PI	Φ13	22°	50°
Fortimo SLM 1205 L15 G7N	Φ14.5	25°	50°
Fortimo SLM 1206 L15 G7N	Φ14.5	25°	50°
Fortimo SLM 1208 L15 G7N	Φ14.5	23°	50°
Fortimo SLM 1208 L15 G7	Φ15	25°	52°
Fortimo SLM 1208 L15 G6	Φ15	25°	51°
Fortimo SLM 1208 L15 G6_DL	Φ15	25°	52°
Fortimo SLM 1208 L15 G6_PI	Φ15	25°	52°



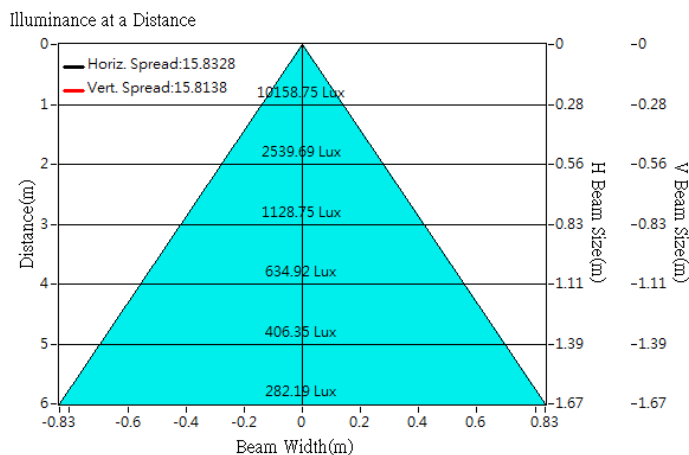
Optical Characteristics

Model Number	CKO-CH15-060027-4301		"H" definition 
LED	Fortimo SLM 1203 L09 G6		
LES / LED Size	Φ 9 mm		
FWHM (D50)	15°		
Field Angle (D10)	32°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1272 lm	Measured @ 10.4 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

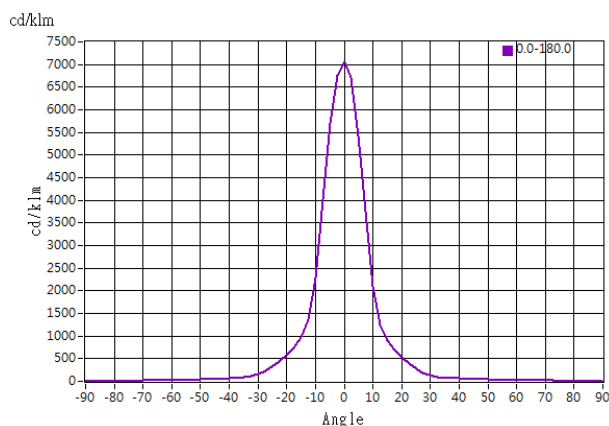




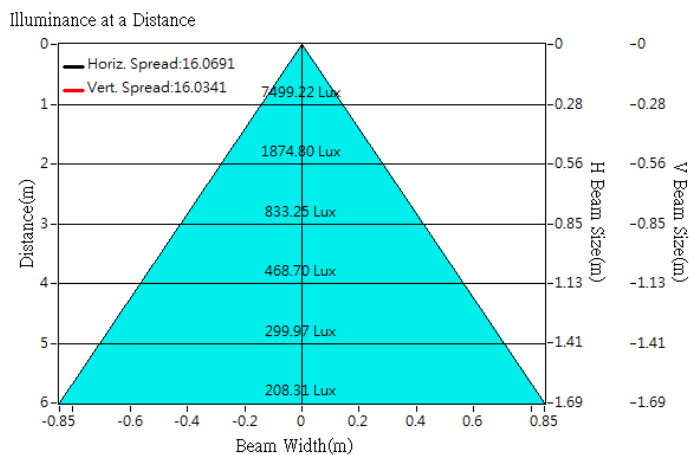
Optical Characteristics

Model Number	CKO-CH15-060027-4301		
LED	Fortimo SLM 1203 L09 G6_DL		
LES / LED Size	Φ 9 mm		
FWHM (D50)	16°		
Field Angle (D10)	35°		
H (distance)	3.5mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1063 lm	Measured @ 10.5 W	
Material	PC / UL94V2		

cd/klm



Illuminance At Distances

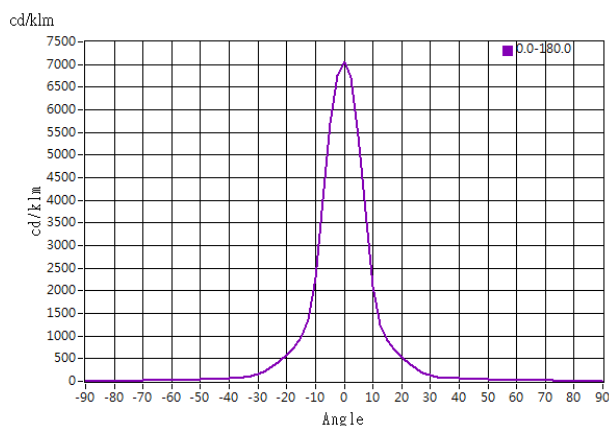




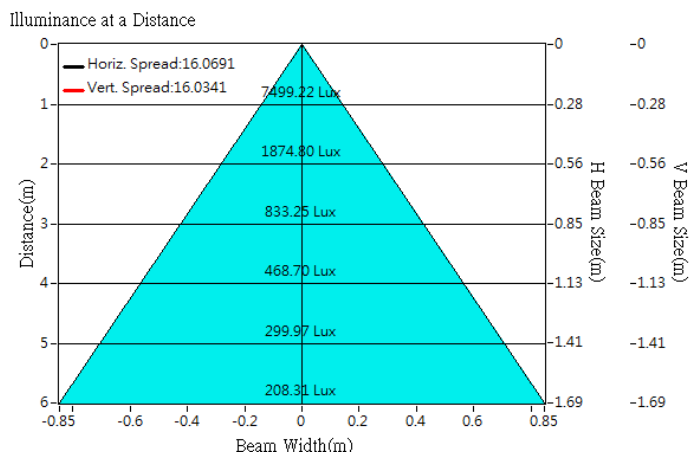
Optical Characteristics

Model Number	CKO-CH15-060027-4301		"H" definition
LED	Fortimo SLM 1203 L09 G6_PI		
LES / LED Size	Φ 9 mm		
FWHM (D50)	16°		
Field Angle (D10)	35°		
H (distance)	3.5mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1063 lm	Measured @ 10.5 W	
Material	PC / UL94V2		

cd/klm

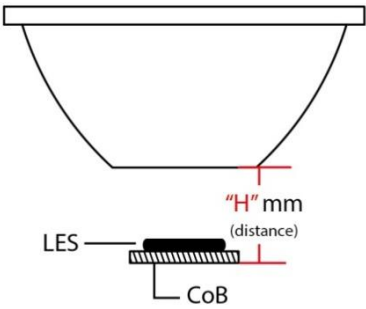


Illuminance At Distances

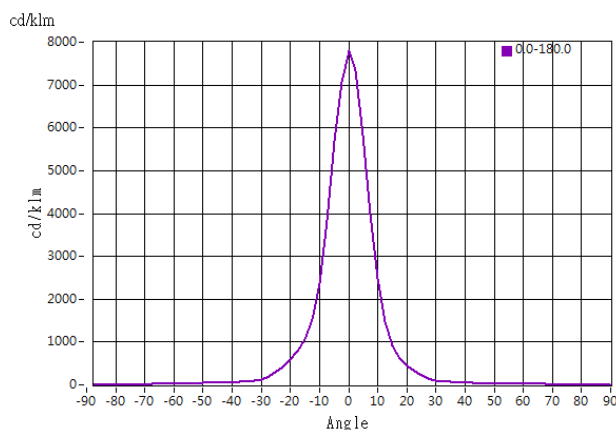




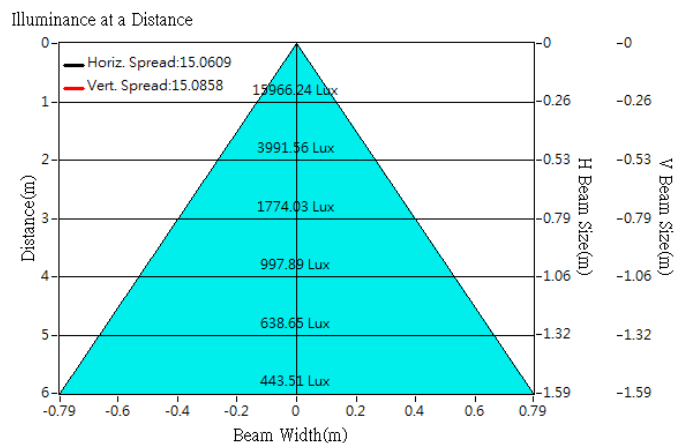
Optical Characteristics

Model Number	CKO-CH15-060027-4301		
LED	Fortimo SLM PW 1204 L09 G7		
LES / LED Size	Φ 9 mm		
FWHM (D50)	15°		
Field Angle (D10)	34°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2048 lm	Measured @ 21.6 W	
Material	PC / UL94V2		

cd/klm

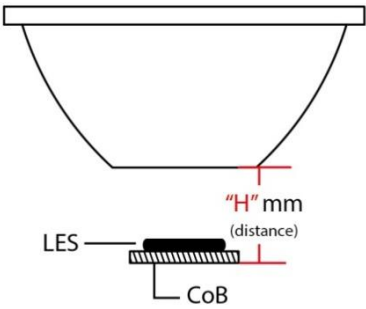


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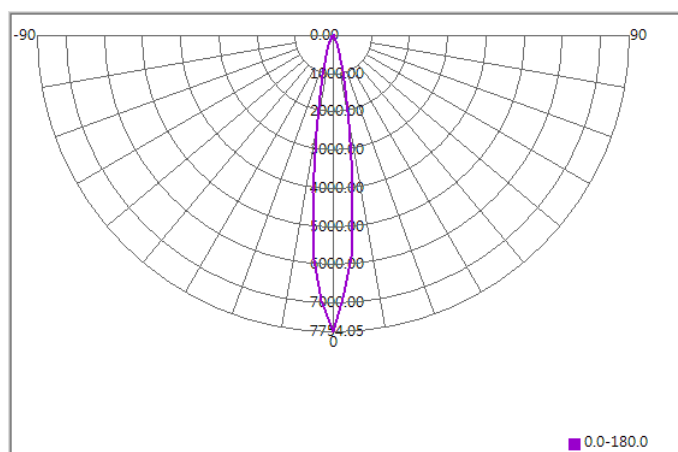




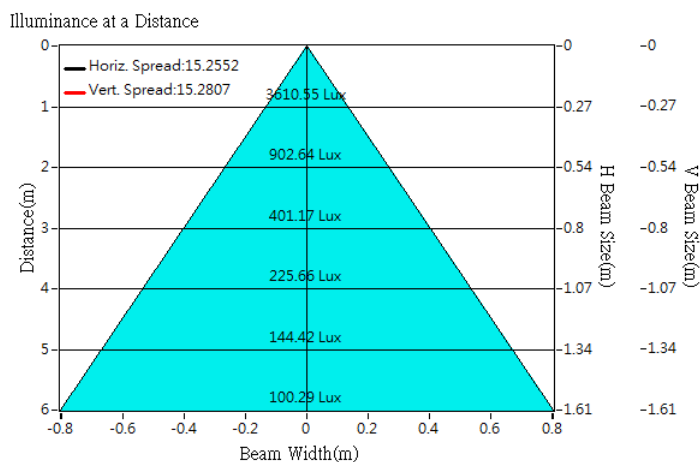
Optical Characteristics

Model Number	CKO-CH15-060027-4301		
LED	Fortimo SLM 1201 L09 G7N		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	15°		
Field Angle (D10)	34°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	465 lm	Measured @ 3.09 W	
Material	PC / UL94V2		

cd/klm

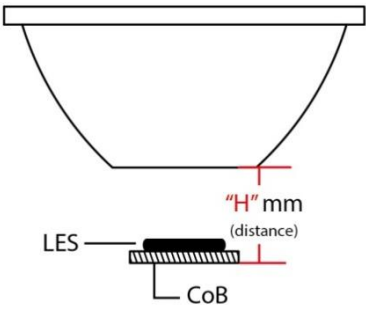


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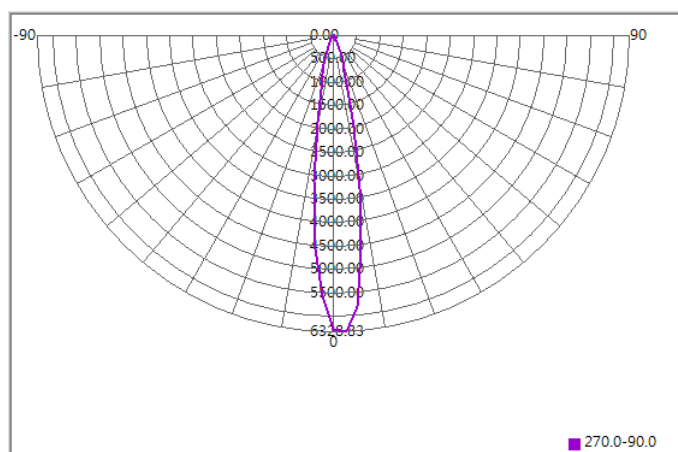




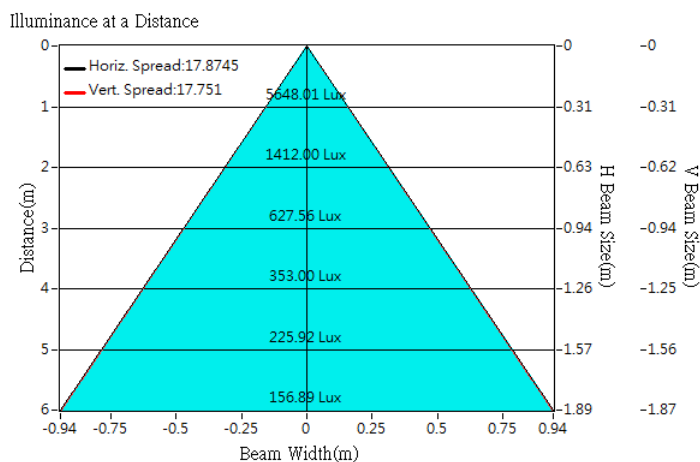
Optical Characteristics

Model Number	CKO-CH15-060027-4301		
LED	Fortimo SLM 1202 L09 G7N		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	17°		
Field Angle (D10)	37°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	900.9 lm	Measured @ 6.1 W	
Material	PC / UL94V2		

cd/klm

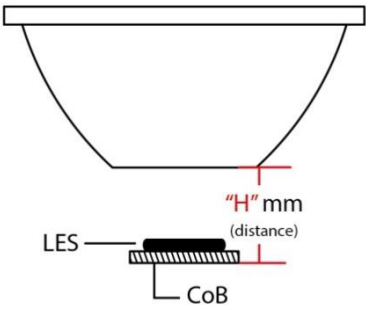


Illuminance At Distances

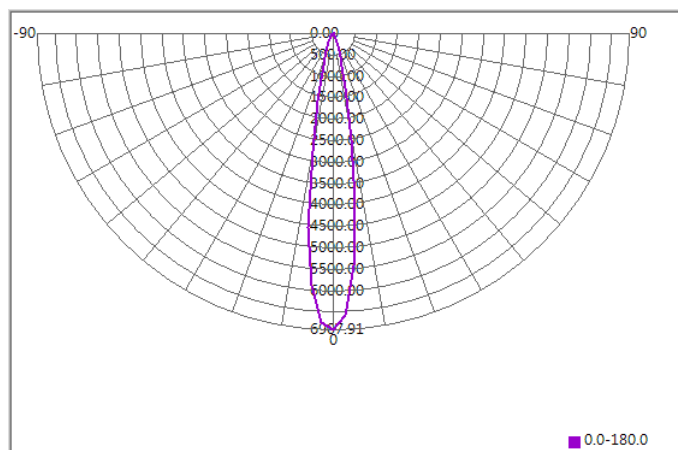




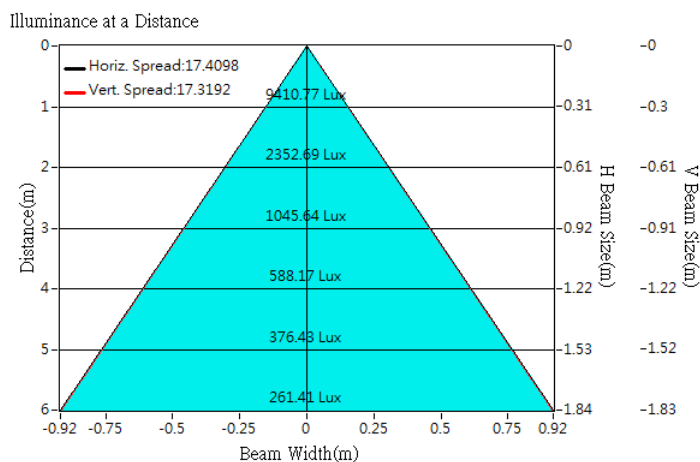
Optical Characteristics

Model Number	CKO-CH15-060027-4301		"H" definition 
LED	Fortimo SLM 1203 L09 G7N		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	17°		
Field Angle (D10)	35°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1362 lm	Measured @ 9.2 W	
Material	PC / UL94V2		

cd/klm

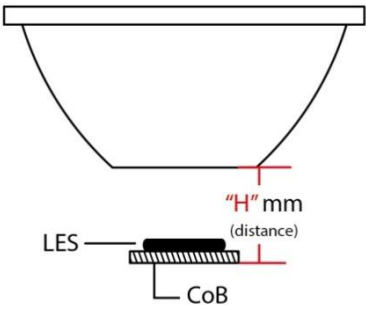


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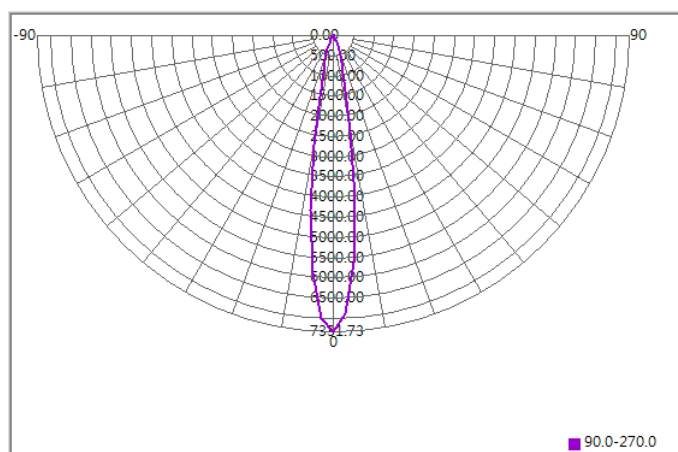




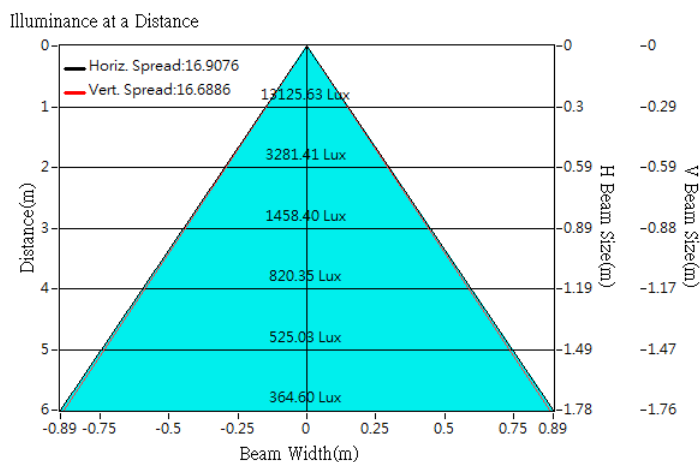
Optical Characteristics

Model Number	CKO-CH15-060027-4301		"H" definition 
LED	Fortimo SLM 1204 L09 G7N		
LES / LED Size	Φ 9.8 mm		
FWHM (D50)	16°		
Field Angle (D10)	34°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1790 lm	Measured @ 12.3 W	
Material	PC / UL94V2		

cd/klm

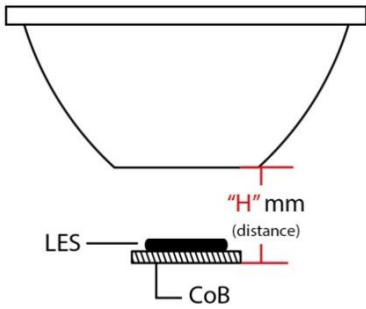


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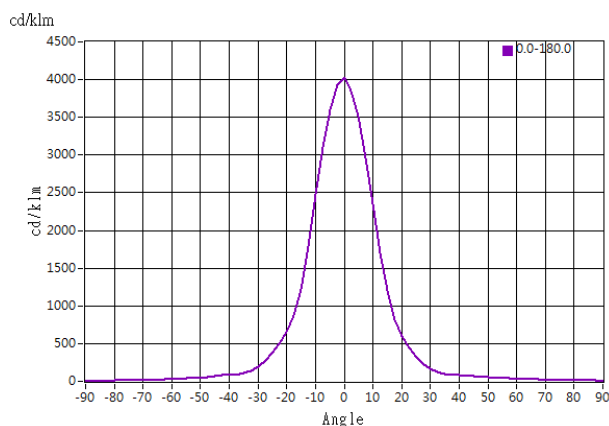




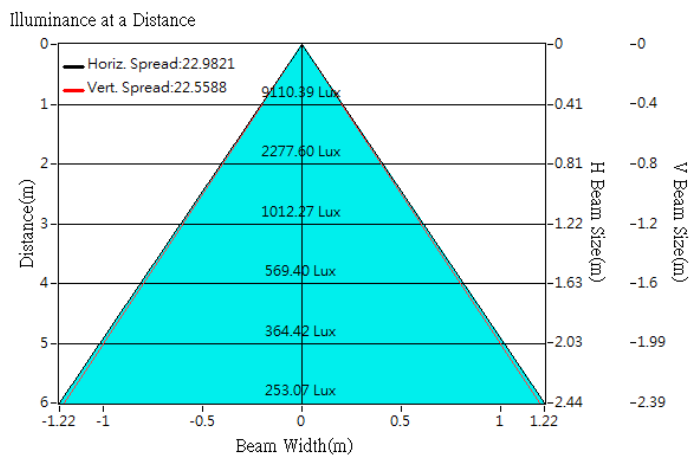
Optical Characteristics

Model Number	CKO-CH15-060027-4301		“H” definition 
LED	Fortimo SLM 1205 L13 G7		
LES / LED Size	Φ 13 mm		
FWHM (D50)	23°		
Field Angle (D10)	48°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2262 lm	Measured @ 17.5 W	
Material	PC / UL94V2		

cd/klm

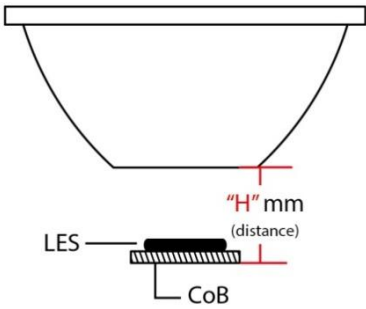


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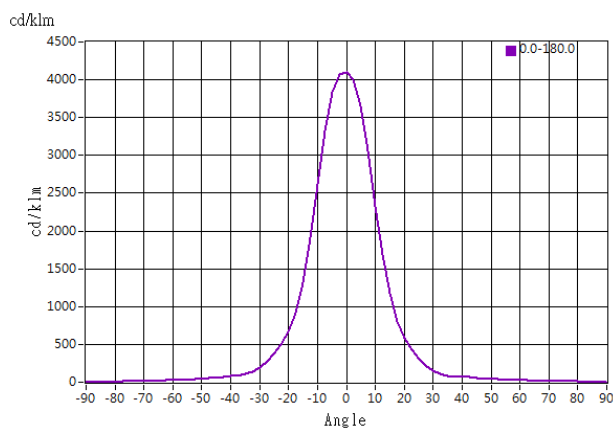




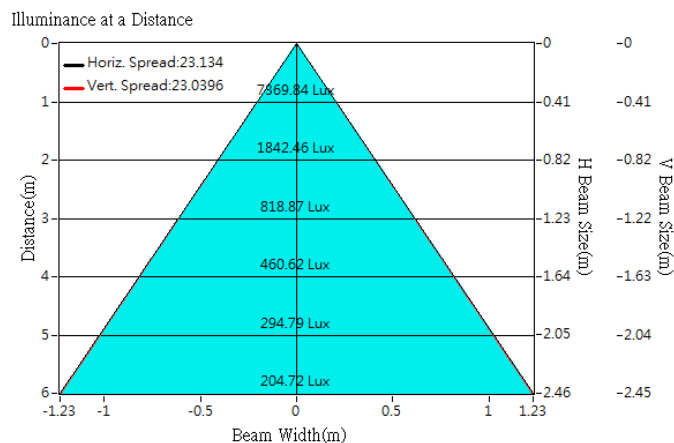
Optical Characteristics

Model Number	CKO-CH15-060027-4301		"H" definition 
LED	Fortimo SLM PW 1205 L13 G6		
LES / LED Size	Φ 13 mm		
FWHM (D50)	23°		
Field Angle (D10)	47°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	1799 lm	Measured @ 13.6 W	
Material	PC / UL94V2		

cd/klm

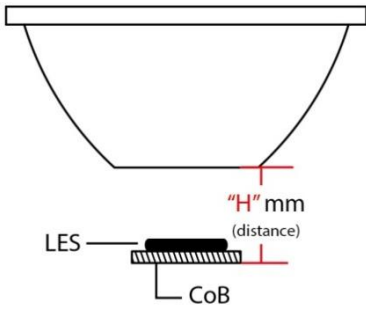


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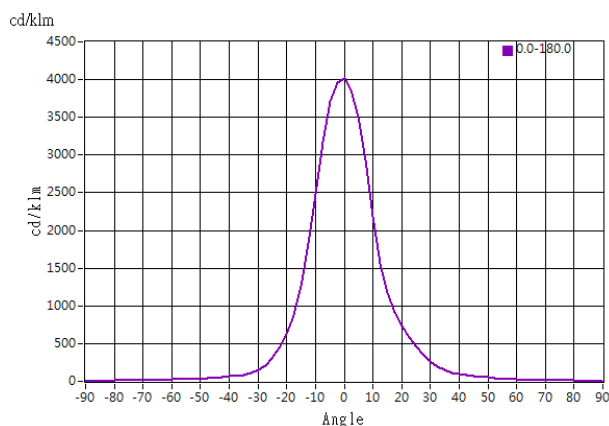




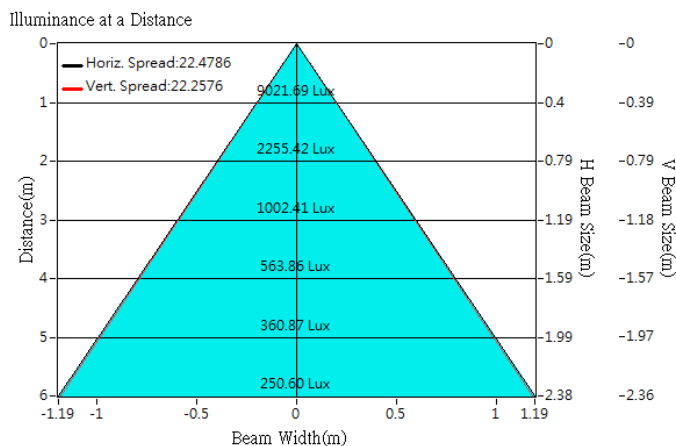
Optical Characteristics

Model Number	CKO-CH15-060027-4301		
LED	Fortimo SLM PW 1205 L13 G6_DL		
LES / LED Size	Φ 13 mm		
FWHM (D50)	22°		
Field Angle (D10)	50°		
H (distance)	3.5mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2244 lm	Measured @ 13.4 W	
Material	PC / UL94V2		

cd/klm

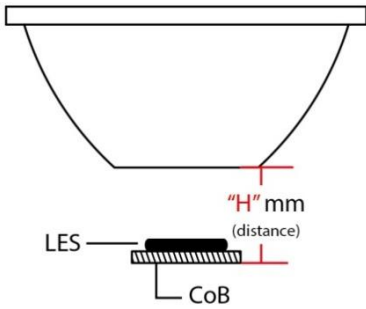


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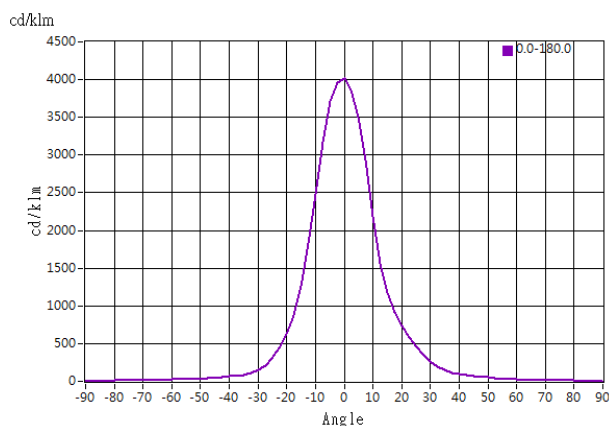




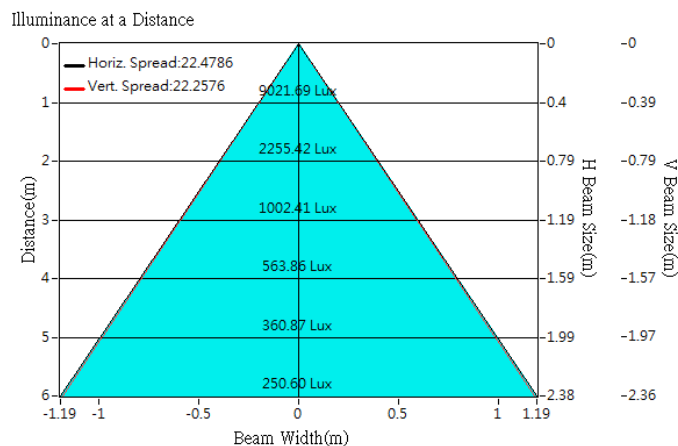
Optical Characteristics

Model Number	CKO-CH15-060027-4301		
LED	Fortimo SLM PW 1205 L13 G6_PI		
LES / LED Size	Φ 13 mm		
FWHM (D50)	22°		
Field Angle (D10)	50°		
H (distance)	3.5mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2244 lm	Measured @ 13.4 W	
Material	PC / UL94V2		

cd/klm

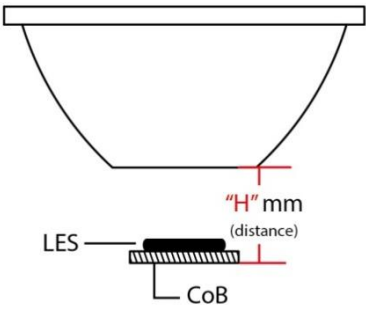


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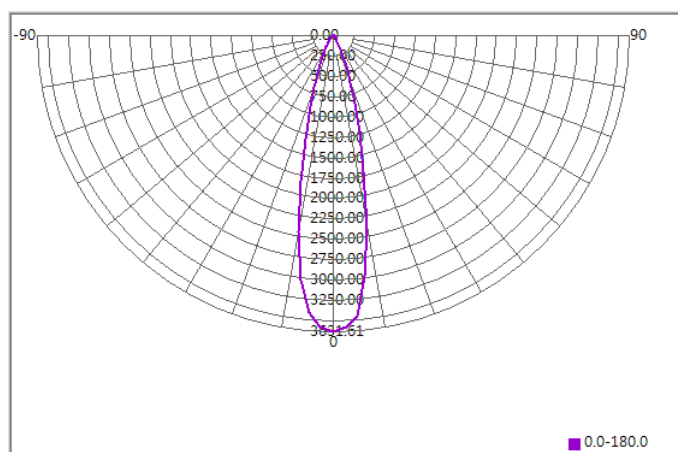




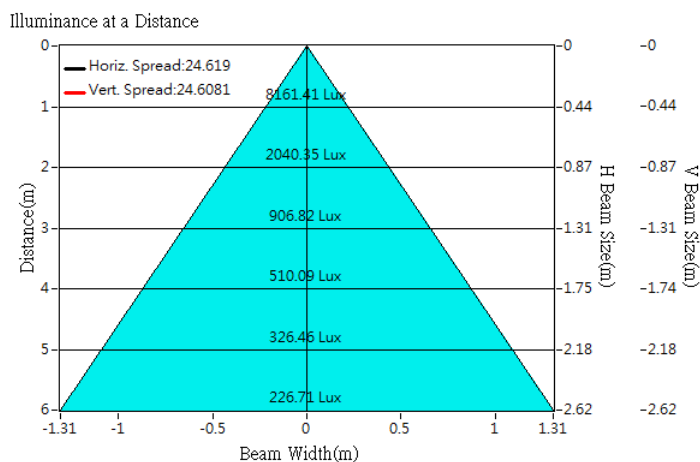
Optical Characteristics

Model Number	CKO-CH15-060027-4301		"H" definition 
LED	Fortimo SLM 1205 L15 G7N		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	25°		
Field Angle (D10)	50°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2247 lm	Measured @ 15.4 W	
Material	PC / UL94V2		

cd/klm

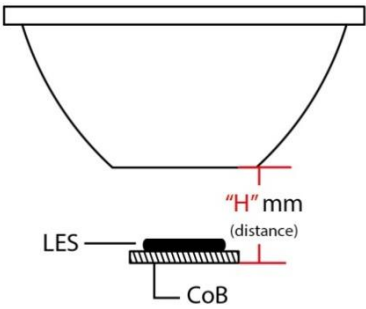


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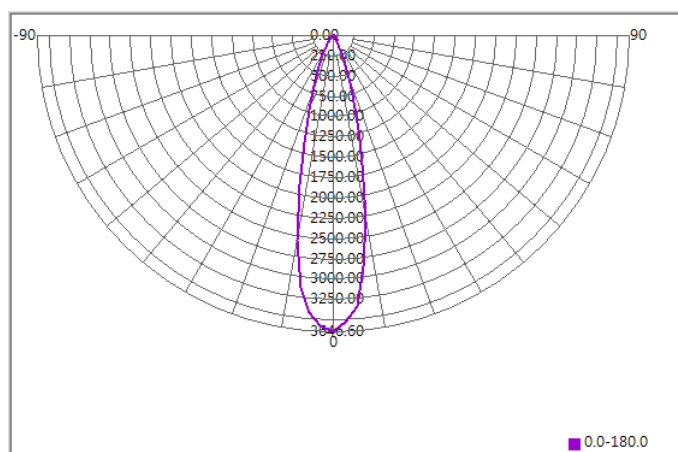




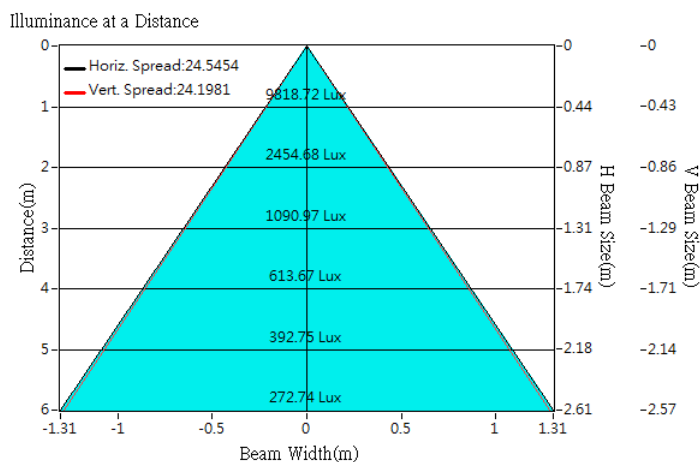
Optical Characteristics

Model Number	CKO-CH15-060027-4301		
LED	Fortimo SLM 1206 L15 G7N		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	25°		
Field Angle (D10)	50°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2692 lm	Measured @ 18.5 W	
Material	PC / UL94V2		

cd/klm

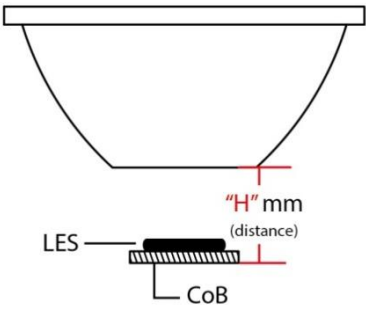


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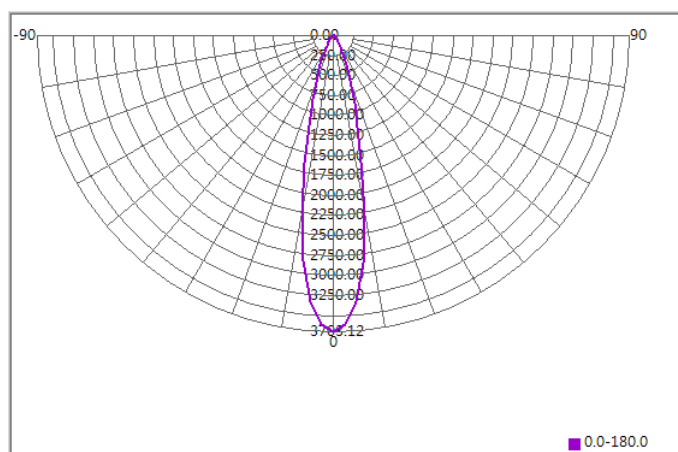




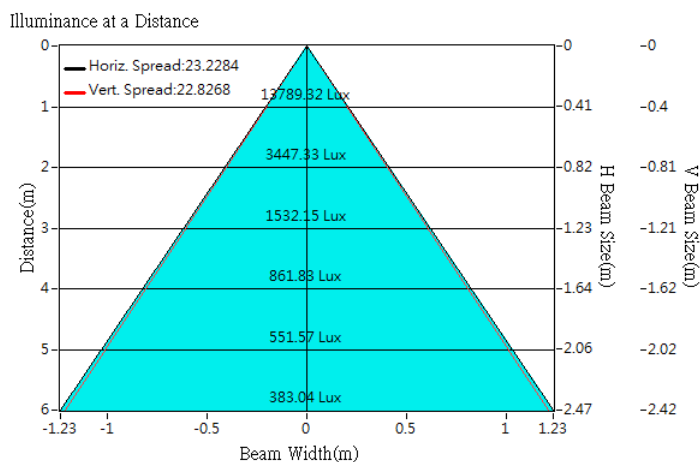
Optical Characteristics

Model Number	CKO-CH15-060027-4301		"H" definition 
LED	Fortimo SLM 1208 L15 G7N		
LES / LED Size	Φ 14.5 mm		
FWHM (D50)	23°		
Field Angle (D10)	50°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	3723 lm	Measured @ 24.7 W	
Material	PC / UL94V2		

cd/klm

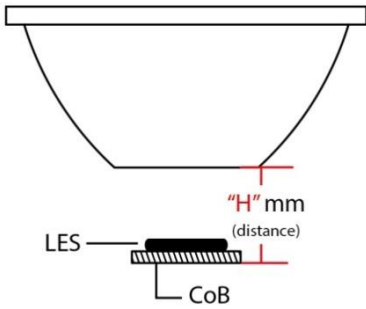


Illuminance At Distances

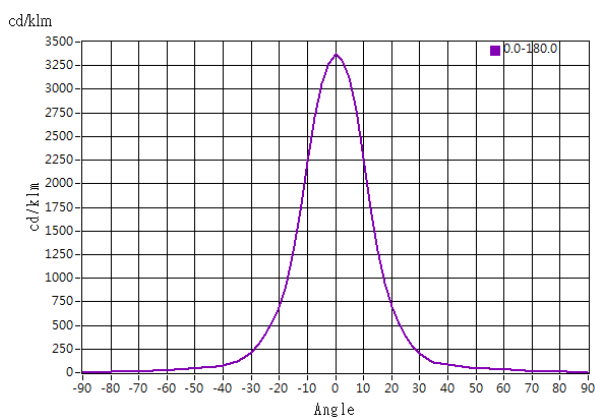




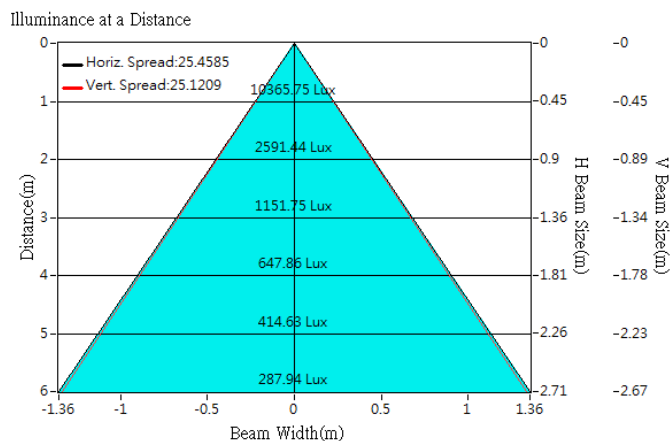
Optical Characteristics

Model Number	CKO-CH15-060027-4301		“H” definition 
LED	Fortimo SLM 1208 L15 G7		
LES / LED Size	Φ 15 mm		
FWHM (D50)	25°		
Field Angle (D10)	52°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	3075 lm	Measured @ 25.9 W	
Material	PC / UL94V2		

cd/klm

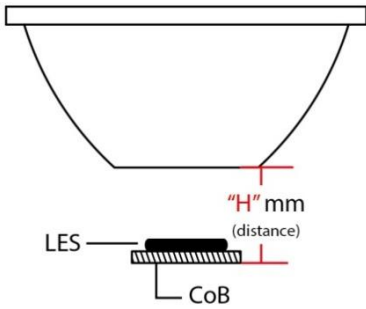


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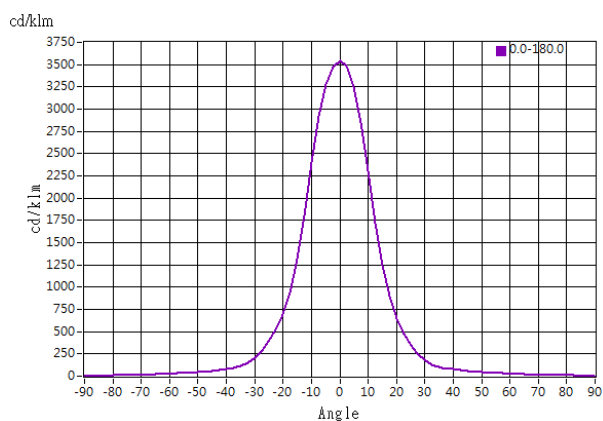




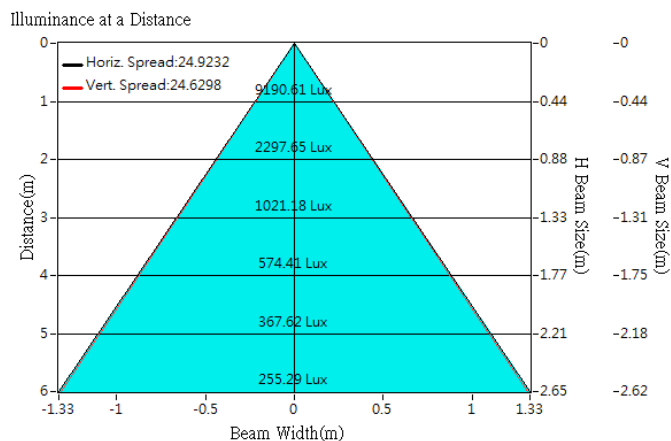
Optical Characteristics

Model Number	CKO-CH15-060027-4301		"H" definition 
LED	Fortimo SLM 1208 L15 G6		
LES / LED Size	Φ 15 mm		
FWHM (D50)	25°		
Field Angle (D10)	51°		
H (distance)	3.65mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2591 lm	Measured @ 26.8 W	
Material	PC / UL94V2		

cd/klm

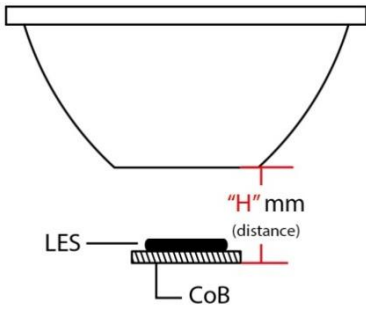


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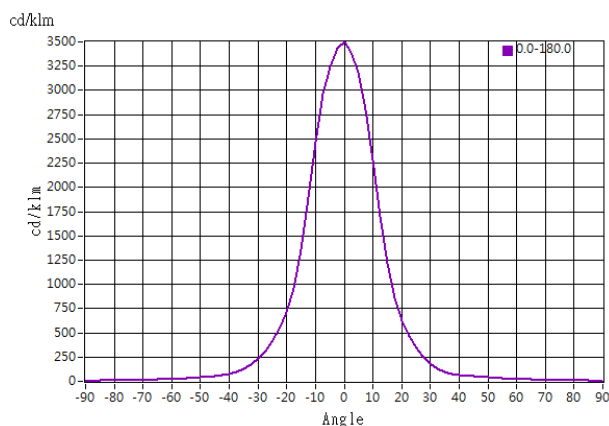




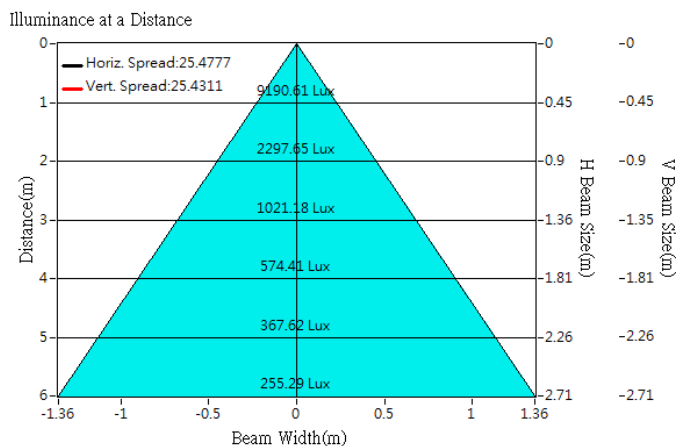
Optical Characteristics

Model Number	CKO-CH15-060027-4301		“H” definition 
LED	Fortimo SLM 1208 L15 G6_DL		
LES / LED Size	Φ 15 mm		
FWHM (D50)	25°		
Field Angle (D10)	52°		
H (distance)	3.5mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2627 lm	Measured @ 26.8 W	
Material	PC / UL94V2		

cd/klm

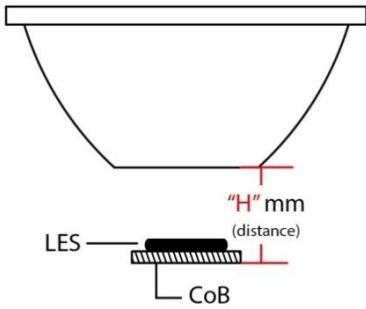


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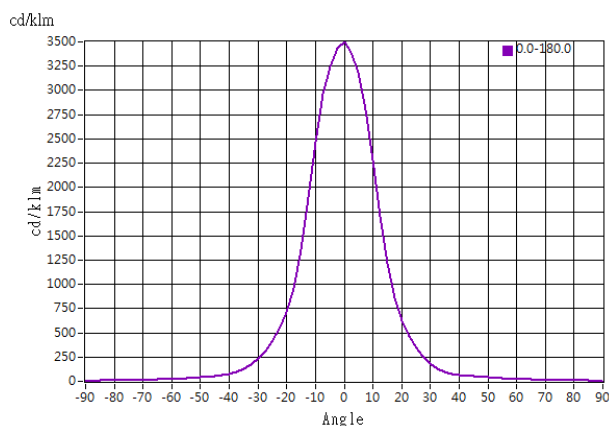




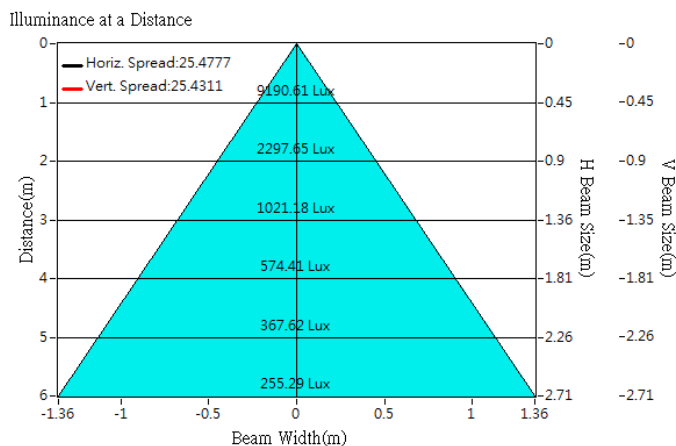
Optical Characteristics

Model Number	CKO-CH15-060027-4301		
LED	Fortimo SLM 1208 L15 G6_PI		
LES / LED Size	Φ 15 mm		
FWHM (D50)	25°		
Field Angle (D10)	52°		
H (distance)	3.5mm		
Dimension	Φ =60 mm, Thickness=26.85 mm		
Luminous Flux	2627 lm	Measured @ 26.8 W	
Material	PC / UL94V2		

cd/klm

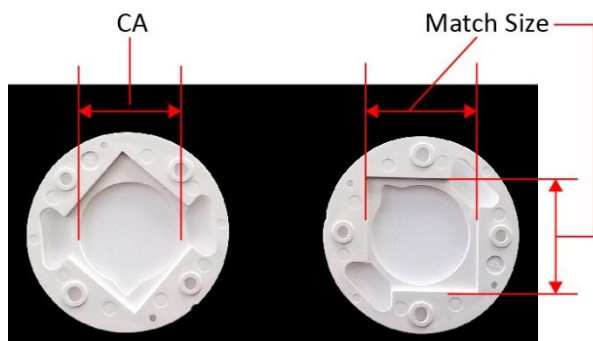


Illuminance At Distances





Lens Accessories - CoB Holder



Example of LES Area & LED Size
Dimension Locations

Product Model	Match Size (mm)	CA (mm)	Material	Applicability
CKO-HC14-161911-0501	16.3 x 19.3	Φ 11.9	PBT	Philips 1202
CKO-HC14-161911-0501	16.3 x 19.3	Φ 11.9	PBT	Philips 1203
CKO-HC14-202419-0502	20.3 x 24.3	Φ 19.2	PBT	Philips 1204
CKO-HC14-202419-0502	20.3 x 24.3	Φ 19.2	PBT	Philips 1205