

JAL-CPS & JAL-CPS-HE SERIES CCT & POWER SELECTABLE AREA LUMINAIRE

PRODUCT DESCRIPTION

The JAL-CPS CCT & Power Selectable Area Luminaire Series is a group of LED area architectural luminaires designed to illuminate parking areas, roads, building facades, loading docks, and a variety of other general lighting applications. This series has selectable power and CCT facilitating the adjustments in the field as needed and minimizing the number of SKUs carried in inventory. The multiple mounting options make it a versatile luminaire for flood lighting, pole-mounted area lighting, ground and wall lighting, and other exterior lighting requirements.

This new area luminaire allows intelligent programmable control in a traditional easy-to-use twist lock photocell. Standard features include 1-10VDC and DALI dimming, ten-second stray light or lightning delay, 20kV surge protection, and a programmable dusk and dawn level on/off setting. Optional features include an IP65 aluminum enclosure with multiple color choices, 277-480VAC operation, programmable control for nighttime dimmed operation, and lifetime illumination decay adjustments.

Programmed operation includes constant illumination level, turn-off response time delay; nighttime dimmed operation time, and lifetime illumination decay compensation of up to 10 years.

STANDARD FEATURES

Construction and Materials

- Cast Aluminum Alloy / Epoxy Powder Coat Finish / Polycarbonate Lens
- Light can be tilted up to 90-Degrees
- Slip Fitter Mount

Optical System

- Light Distribution: Type II / III / IV / V (JAL-CPS) / Type III (JAL-CPS-HE)

Electrical System

- Power Selectable: **JAL-CPS: 150W** (150W/120W/100W) & **300W** (300W/240W/200W)
JAL-CPS-HE: 150W (150W/100W/70W) / **300W** (300W/240W/200W)
- CCT Selectable: **JAL-CPS: 3000K/4000K/5000K**
JAL-CPS-HE: 3000K/3500K/4000K/4500K/5000K/5700K/6500K
- Input Voltage: 120-277VAC / 200-480VAC (JAL-CPS) / 277-480VAC (JAL-CPS-HE)
- Efficacy: up to 144 lm/W (JAL-CPS) / up to 170 lm/W (JAL-CPS-HE)
- Power Factor: >0.9
- CRI: >80
- Operating Temp: -40°F to 122°F (-40°C to 50°C)
- Total Harmonic Distortion: <20%
- Integral Surge Protection: 10kV Surge Protection Standard

Dimming and Controls

- 0-10V Continuous Dimming Standard

Certifications and Compliance

- UL Listed
- Ingress Protection: IP65 for Wet Locations
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated Emissions
- Complies with Dark Sky Requirements

Lifetime Based on TM21: L70 ≥ 143,000 Hrs / L80 ≥ 122,000 Hrs / L90 ≥ 73,000 Hrs



PERFORMANCE SUMMARY

Primary Input Power	JAL-CPS: 150W (150W/120W/100W) / 300W (300W/240W/200W) JAL-CPS-HE: 150W (150W/100W/70W) / 300W (300W/240W/200W)
Efficacy	up to 144 lm/W (JAL-CPS) / up to 170 lm/W (JAL-CPS-HE)
Input Voltage	120-277VAC / 200-480VAC (JAL-CPS) / 277-480VAC (JAL-CPS-HE)
CCT	JAL-CPS: 3000K/4000K/5000K JAL-CPS-HE: 3000K/3500K/4000K/4500K/5000K/5700K/6500K
IES Optic Type Options for DLC	Type II / III / IV / V (JAL-CPS) / Type III (JAL-CPS-HE)
CRI	>80 Standard
Power Factor	≥0.9
Ambient Working Temp.	-40°C to 50°C (-40°F to 122°F)
Ingress Protection (IP)	IP65 for Wet Locations
Effective Projected Area	1.0 sq. ft. 150W Model 1.2 sq. ft. 300W Model
Dimming & Controls	0-10VDC Dimming Type (Receptacle for NEMA ANSI C136.41 3 or 7-Pin Socket and Twist Lock Dusk-to-Dawn Photocell are optional)
Construction	Cast Aluminum Alloy / Epoxy Powder Coat Finish Polycarbonate Lens
Lifetime Based on TM21	L70 @ ≥ 143,000 hrs L80 @ ≥ 122,000 hrs L90 @ ≥ 73,000 hrs
Certifications & Compliance	RoHS / FCC / UL Listed
Limited Warranty	10 Yrs

OPTIONAL FEATURES

- Traditional Form Factor 3 / 7 pin ANSI C136.41.2013 Receptacle and Twist Lock Photocell and Receptacle Options
- 20kV Surge Protection
- Microwave Bi-Level Step Dimming Motion Sensor
- PIR Sensor
- Remote Control for Motion Sensor
- Mounting Options: Arm for Wall Mount and Trunnion Mount Bracket
- House Side Shield (Back/Front or Right/Left)



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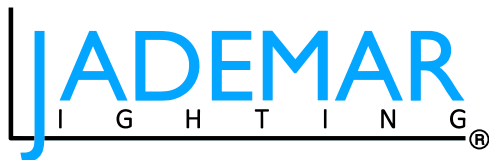


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SPECIFICATION SUBMITTAL DETAIL

Project Name/Type:		Date:
Catalog/Part #:		

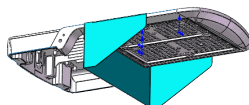
JAL-CPS SERIES CCT & POWER SELECTABLE AREA LUMINAIRE

ORDERING INFORMATION / Example: JAL-CPS-150W-H-50K-T3-PC3-RR-UB-BZ

Product Series	Power Selectable	Input Voltage	CCT	CRI	Light Distribution	Surge Protection	Control Options	Mounting Options	Finish
JAL-CPS	150W (150W/120W/100W) 300W (300W/240W/200W)	Blank (120-277V) Standard H (200-480VAC)	Blank (Selectable 3000K/4000K/5000K)	Blank (80 CRI) Standard	T2 (Type II) T3 (Type III)	10SP (10kV Surge Protection) Standard	PCR-3-PC3 (3-Pin 120-277V Photocell & Receptacle) PCR-3-PC3-H (3-Pin 480V Photocell & Receptacle) PCR-7-IPC7 (7-Pin Intelligent Photocell & Receptacle) PCR-3 (3-Pin Photocell Receptacle) PCR-5 (5-Pin Photocell Receptacle) PCR-7 (7-Pin Photocell Receptacle) BMW0 (Microwave Bi-level Motion Sensor) PIR (PIR Sensor)	SF (Slipfitter Mount) Standard ARM (Wall Mount Arm) TR (Trunnion Mount)	BZ (Bronze) Standard CC (Custom Color) Special Order Replace the "CC" with your custom RAL color
JAL-CPS-HE	150W (150W/100W/70W) 300W (300W/240W/200W)	Blank (120-277V) Standard H (277-480V)	Blank (Selectable 3000K/3500K/4000K/ 4500K/5000K/5700K/ 6500K)	90 (90 CRI) Special Order	T4 (Type IV) T5 (Type V)	20SP (20kV Surge Protection)			

FIELD INSTALLED OPTIONS

JAL-CPS-SBF-150W	House side shield (Back/Front) for the 150W Model
JAL-CPS-SBF-300W	House side shield (Back/Front) for the 300W Model
JAL-CPS-SRL-150W	House side shield (Right/Left) for the 150W Model
JAL-CPS-SRL-300W	House side shield (Right/Left) for the 300W Model
JAL-CPS-TR	Trunnion Mount
JAL-CPS-ARM	Arm Mount



JAL-MS-RC	Hand held remote control for JAL-MS
PC3	3 Pin NEMA Type Photocell
PC3-H	3 Pin NEMA Type Photocell 480V
IPC7	7 Pin Intelligent Photocell step dimming feature
PC3-SC	Shorting Cap

LUMEN PERFORMANCE AND ELECTRICAL DATA

Model #			JAL-CPS-150W						JAL-CPS-300W						
Primary Input Power			150W		120W		100W		300W		240W		200W		
Optic Type	CCT	Input Voltage	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy	
Type 2	3000	120-277V	19,838	132	16,244	135	13,652	137	40,769	136	32,489	135	27,732	139	
	4000		20,236	135	17,300	144	14,189	142	43,419	145	34,601	144	28,290	141	
	5000		20,643	138	17,439	145	14,195	142	43,665	146	34,877	145	28,858	144	
Type 3	3000		20,610	137	16,514	138	13,286	133	41,271	138	33,028	138	26,842	134	
	4000		21,950	146	17,587	147	14,150	142	43,954	147	35,175	146	28,587	143	
	5000		22,204	148	17,756	148	14,242	142	44,324	148	35,511	147	28,878	144	
Type 4	3000		20,680	138	16,129	134	13,237	132	40,932	136	32,258	134	27,527	138	
	4000		22,025	147	17,177	143	14,098	141	43,592	145	34,355	142	29,316	147	
	5000		22,304	149	17,363	145	14,261	143	44,065	147	34,725	144	29,703	149	
Type 5	3000		20,684	138	15,392	128	12,350	123	38,137	127	30,784	128	27,556	138	
	4000		22,028	147	16,393	137	13,152	132	40,616	135	32,785	136	29,347	147	
	5000		22,300	149	16,583	138	13,306	133	41,100	136	33,166	138	29,707	149	
Model #			JAL-CPS-HE-150W						JAL-CPS-HE-300W						
Primary Input Power			150W		100W		70W		300W		240W		200W		
Optic Type	CCT	Input Voltage	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy	
Type 3	3000	120-277V	22,500	150	15,000	150	10,500	150	45,000	150	36,000	150	30,000	150	
	4000		24,000	160	16,000	160	11,200	160	48,000	160	38,400	160	32,000	160	
	5000		25,500	170	17,000	170	11,900	170	51,000	170	40,800	170	34,000	170	
Model #			JAL-CPS-150W-H						JAL-CPS-300W-H						
Primary Input Power			150W		120W		100W		300W		240W		200W		
Optic Type	CCT	Input Voltage	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy	
Type 2	3000	200-480V	20,825	139	16,142	135	13,289	133	41,170	137	32,284	135	28,095	140	
	4000		21,224	139	17,191	143	14,126	141	43,846	149	34,382	149	28,352	142	
	5000		21,548	139	17,310	144	14,276	143	44,285	150	34,620	150	28,777	144	
Type 3	3000		20,164	139	16,282	136	13,412	134	41,592	139	32,564	136	26,716	134	
	4000		21,475	139	17,340	145	14,284	143	44,296	150	34,681	150	28,453	142	
	5000		21,730	139	17,476	146	14,436	144	44,729	151	34,953	151	28,684	143	
Type 4	3000		20,018	139	16,082	134	13,353	134	40,392	135	32,165	134	27,411	137	
	4000		21,320	139	17,128	143	14,221	142	43,018	145	34,256	148	29,193	146	
	5000		21,555	139	17,286	144	14,267	143	43,361	146	34,572	150	29,697	148	
Type 5	3000		18,563	139	15,188	127	12,325	123	38,804	129	30,376	127	27,581	138	
	4000		19,770	139	16,175	135	13,126	131	41,326	140	32,351	140	29,373	147	
	5000		19,972	139	16,302	136	13,210	132	41,804	141	32,603	141	29,802	149	
Model #			JAL-CPS-HE-150W-H						JAL-CPS-HE-300W-H						
Primary Input Power			150W		100W		70W		300W		240W		200W		
Optic Type	CCT	Input Voltage	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy	
Type 3	3000	277-480V	22,500	150	15,000	150	10,500	150	45,000	150	36,000	150	30,000	150	
	4000		24,000	160	16,000	160	11,200	160	48,000	160	38,400	160	32,000	160	
	5000		25,500	170	17,000	170	11,900	170	51,000	170	40,800	170	34,000	170	



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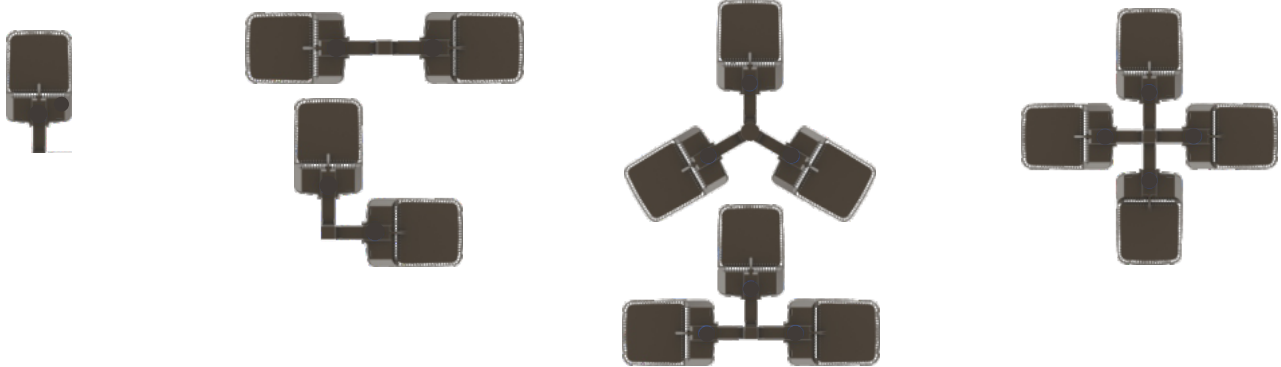
EPA/WEIGHT CONFIGURATIONS

EPA JAL-CPS-150W:
LUMINAIRE AND MOUNT: 1.0 sq. ft.
Total Combined Weight: 15 lbs.
EPA JAL-CPS-300W:
LUMINAIRE AND MOUNT: 1.2sq. ft.
Total Combined Weight: 20 lbs.

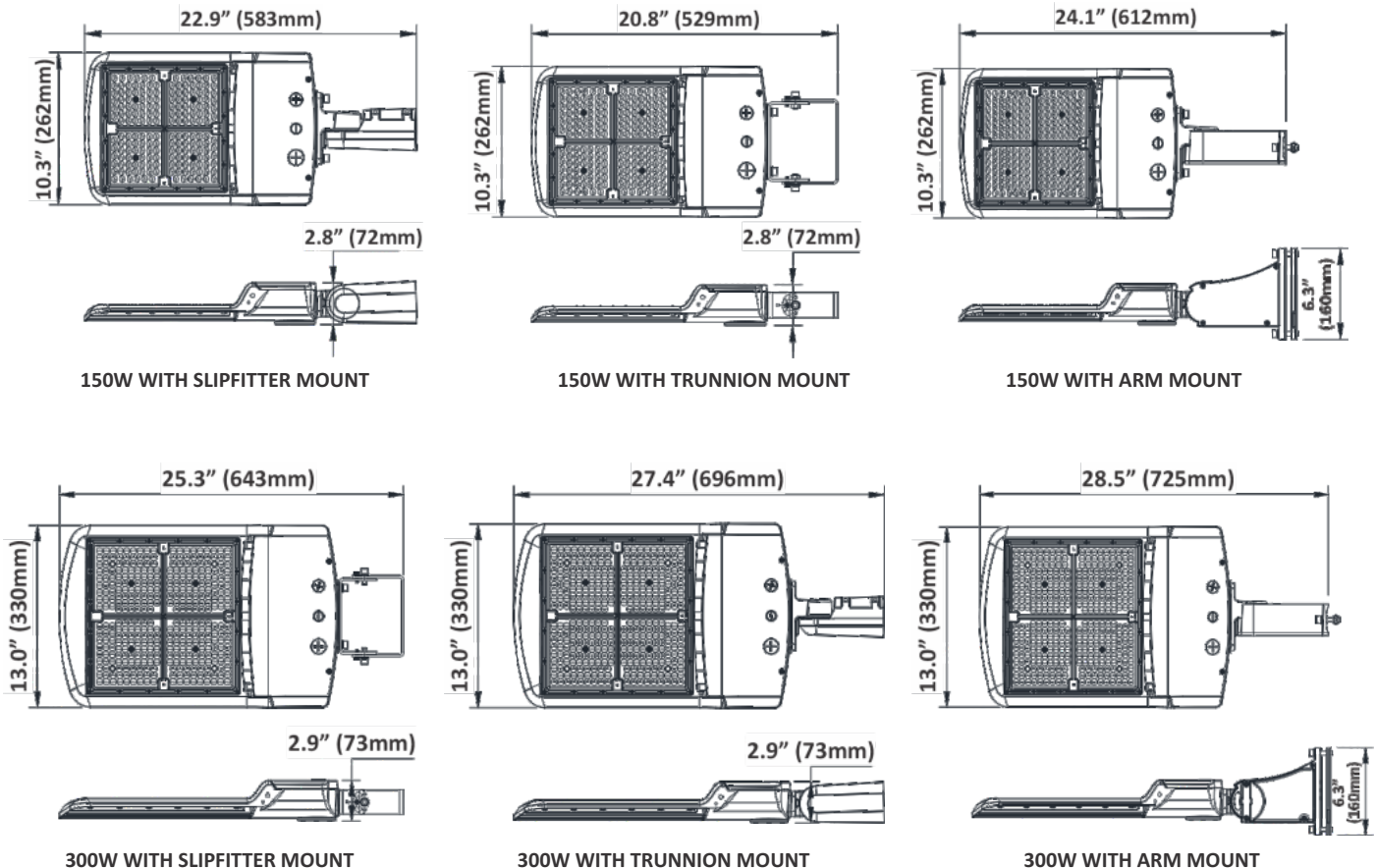
EPA JAL-CPS-150W:
LUMINAIRE AND MOUNT: 1.7 sq. ft.
Total Combined Weight: 30 lbs.
EPA JAL-CPS-300W:
LUMINAIRE AND MOUNT: 2.0 sq. ft.
Total Combined Weight: 20 lbs.

EPA JAL-CPS-150W:
LUMINAIRE AND MOUNT: 2.55 sq. ft.
Total Combined Weight: 45 lbs.
EPA JAL-CPS-300W:
LUMINAIRE AND MOUNT: 3.0 sq. ft.
Total Combined Weight: 60 lbs.

EPA JAL-CPS-150W:
LUMINAIRE AND MOUNT: 3.4 sq. ft.
Total Combined Weight: 60 lbs.
EPA JAL-CPS-300W:
LUMINAIRE AND MOUNT: 4.0 sq. ft.
Total Combined Weight: 80 lbs.



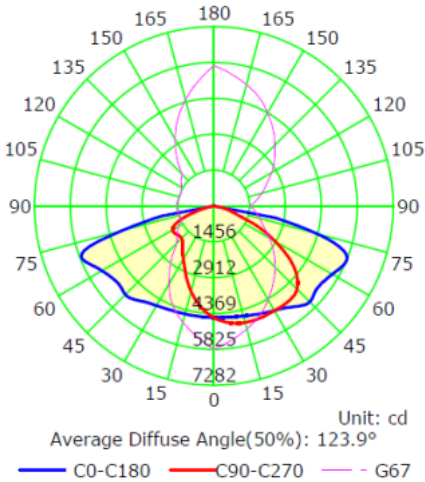
PRODUCT DIMENSIONS



PHOTOMETRY

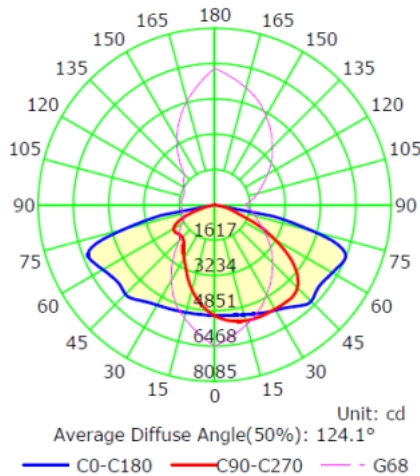
JAL-CPS-150W @ 3000K [TYPE 3]

Luminous Intensity Distribution Curve



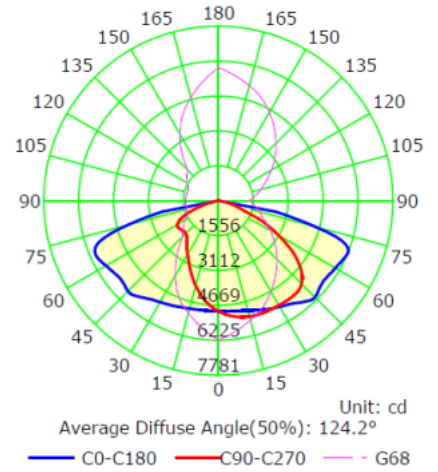
JAL-CPS-150W @ 4000K [TYPE 3]

Luminous Intensity Distribution Curve



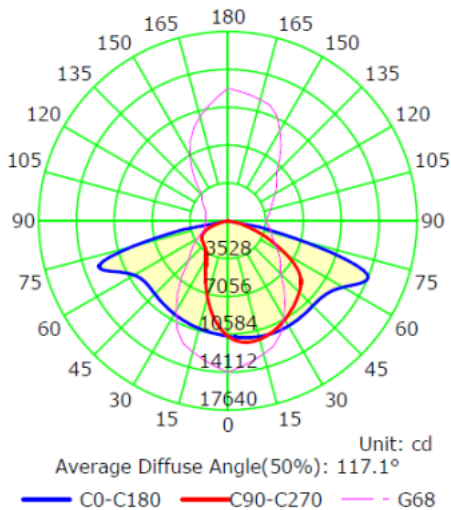
JAL-CPS-150W @ 5000K [TYPE 3]

Luminous Intensity Distribution Curve



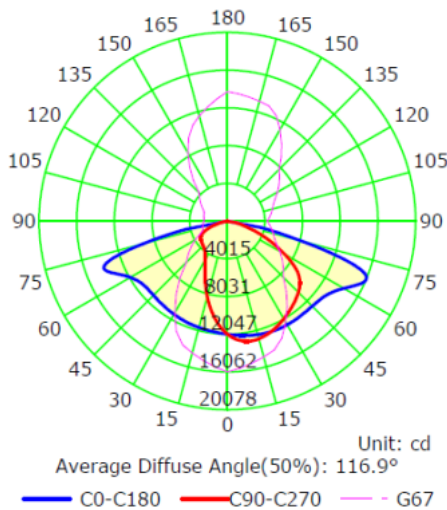
JAL-CPS-300W @ 3000K [TYPE 3]

Luminous Intensity Distribution Curve



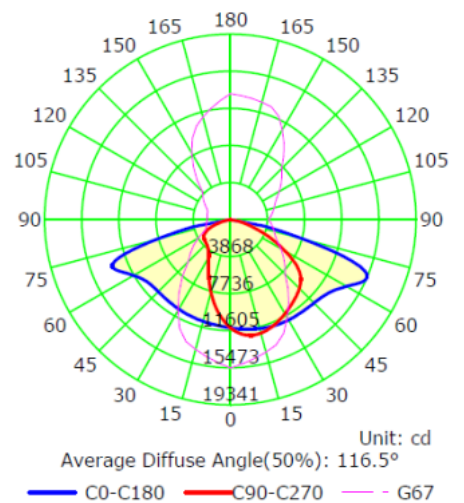
JAL-CPS-300W @ 4000K [TYPE 3]

Luminous Intensity Distribution Curve



JAL-CPS-300W @ 5000K [TYPE 3]

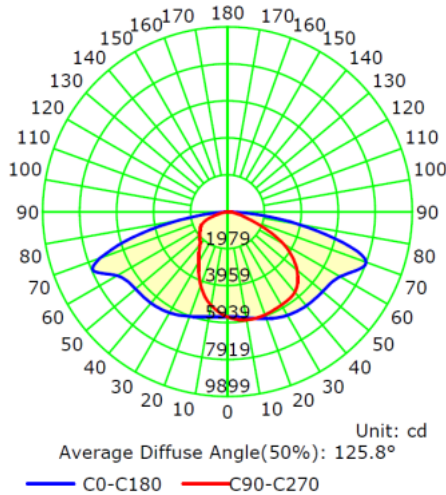
Luminous Intensity Distribution Curve



PHOTOMETRY

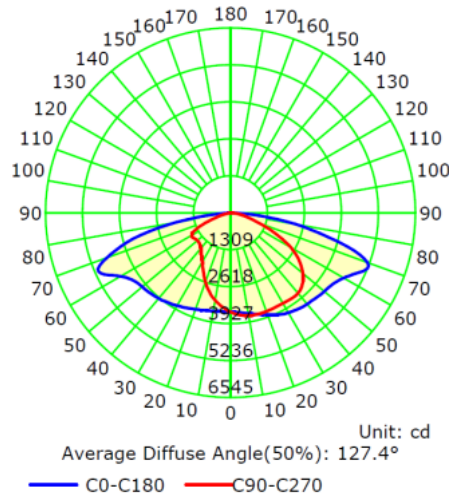
JAL-CPS-HE-150W @ 3000K [TYPE 3]

Luminous Intensity Distribution Curve



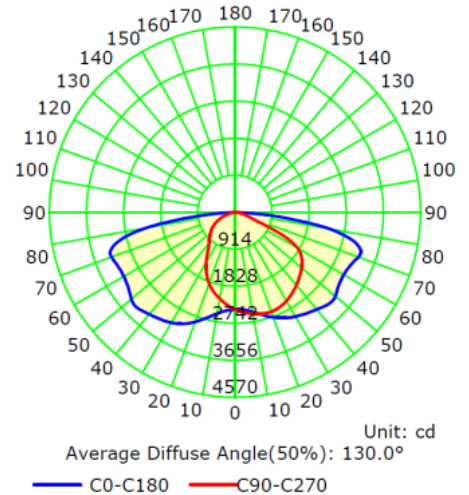
JAL-CPS-HE-100W @ 3000K [TYPE 3]

Luminous Intensity Distribution Curve



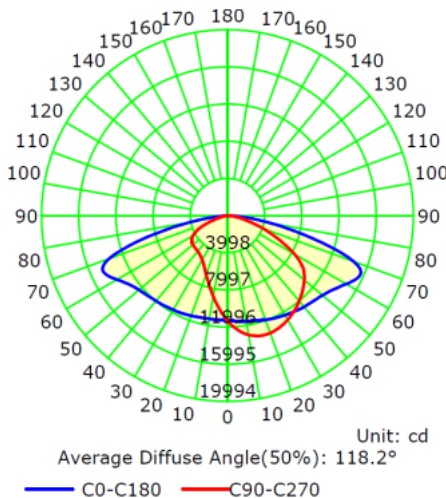
JAL-CPS-HE-70W @ 3000K [TYPE 3]

Luminous Intensity Distribution Curve



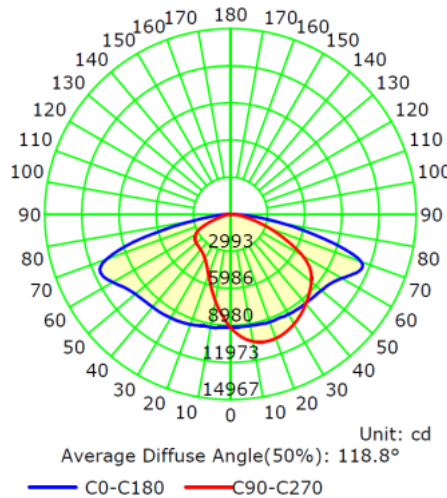
JAL-CPS-HE-300W @ 3000K [TYPE 3]

Luminous Intensity Distribution Curve



JAL-CPS-HE-240W @ 3000K [TYPE 3]

Luminous Intensity Distribution Curve



JAL-CPS-HE-200W @ 3000K [TYPE 3]

Luminous Intensity Distribution Curve

