

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P980371

Luminaire Tested: PRLX-243-930-LL8-C-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P980371  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-31)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-243-930-LL8-C-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 243 SHADE WITH CLEAR LENS  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

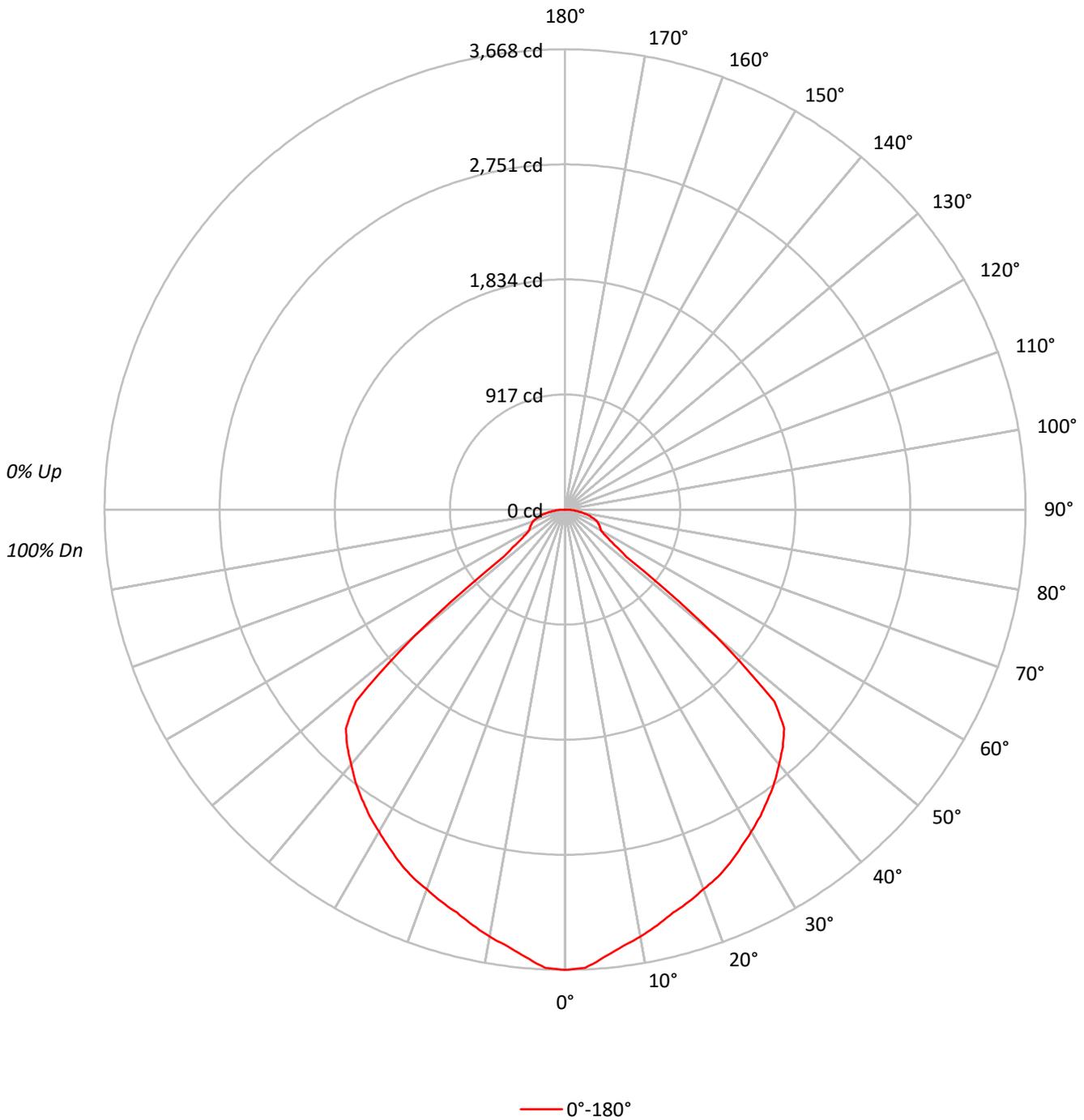
Lumens per Lamp: N/A  
Luminaire Lumens: 7403.6 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.38  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 61.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68
4	88	78	71	65	86	77	70	65	75	68	64	72	67	63	70	66	62	60
5	82	71	63	57	80	70	63	57	68	61	56	66	60	56	64	59	55	53
6	76	65	57	51	75	64	56	51	62	55	50	60	55	50	59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45	56	49	45	54	49	45	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39
9	62	50	43	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	18099
5°	17738
10°	17313
15°	16986
20°	16908
25°	16922
30°	16888
35°	16974
40°	17075
45°	17223
50°	11964
55°	3892
60°	3247
65°	3522
70°	3857
75°	4009
80°	3830
85°	3883

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17223 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	337.9	4.6
10°-20°	941.6	12.7
20°-30°	1432.3	19.3
30°-40°	1764.9	23.8
40°-50°	1810.6	24.5
50°-60°	526.1	7.1
60°-70°	297.7	4.0
70°-80°	217.7	2.9
80°-90°	75.0	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2711.8	36.6
0°-40°	4476.7	60.5
0°-60°	6813.3	92.0
0°-90°	7403.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7403.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3668	
5°	3582	338
15°	3326	942
25°	3108	1432
35°	2818	1765
45°	2468	1811
55°	452	526
65°	302	298
75°	210	218
85°	69	75
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3668.3
2.5°	3656.9
5°	3581.5
7.5°	3510.6
10°	3455.8
12.5°	3394.0
15°	3325.5
17.5°	3277.5
20°	3220.3
22.5°	3172.3
25°	3108.4
27.5°	3035.2
30°	2964.4
32.5°	2895.8
35°	2818.1
37.5°	2740.4
40°	2651.2
42.5°	2566.7
45°	2468.4
47.5°	2260.4
50°	1558.7
52.5°	612.5
55°	452.5
57.5°	372.5
60°	329.1
62.5°	315.4
65°	301.7
67.5°	285.7
70°	267.4
72.5°	242.3
75°	210.3
77.5°	171.4
80°	134.8
82.5°	100.6
85°	68.6
87.5°	38.9
90°	0.0



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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.58	14.00	12.95	14.31	14.62	12.58	14.00	12.95	14.31	14.62
	3H	15.01	16.26	15.38	16.59	16.95	15.01	16.26	15.38	16.59	16.95
	4H	16.06	17.23	16.47	17.58	17.97	16.06	17.23	16.47	17.58	17.97
	6H	16.85	17.93	17.26	18.29	18.69	16.85	17.93	17.26	18.29	18.69
	8H	17.13	18.15	17.55	18.54	18.94	17.13	18.15	17.55	18.54	18.94
	12H	17.34	18.32	17.77	18.70	19.13	17.34	18.32	17.77	18.70	19.13
4H	2H	13.33	14.50	13.73	14.85	15.24	13.33	14.50	13.73	14.85	15.24
	3H	16.03	16.99	16.44	17.39	17.79	16.03	16.99	16.44	17.39	17.79
	4H	17.22	18.08	17.65	18.50	18.94	17.22	18.08	17.65	18.50	18.94
	6H	18.13	18.88	18.59	19.32	19.79	18.13	18.88	18.59	19.32	19.79
	8H	18.46	19.16	18.93	19.60	20.07	18.46	19.16	18.93	19.60	20.07
	12H	18.73	19.35	19.21	19.83	20.30	18.73	19.35	19.21	19.83	20.30
8H	4H	17.64	18.34	18.11	18.79	19.26	17.64	18.34	18.11	18.79	19.26
	6H	18.70	19.28	19.20	19.77	20.25	18.70	19.28	19.20	19.77	20.25
	8H	19.12	19.64	19.64	20.15	20.65	19.12	19.64	19.64	20.15	20.65
	12H	19.49	19.96	20.00	20.45	21.02	19.49	19.96	20.00	20.45	21.02
12H	4H	17.69	18.31	18.17	18.79	19.26	17.69	18.31	18.17	18.79	19.26
	6H	18.78	19.30	19.30	19.82	20.31	18.78	19.30	19.30	19.82	20.31
	8H	19.27	19.74	19.79	20.23	20.80	19.27	19.74	19.79	20.23	20.80