

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: P980301

Luminaire Tested: PRLX-243-930-LL1-C-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P980301  
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-LL1-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: -

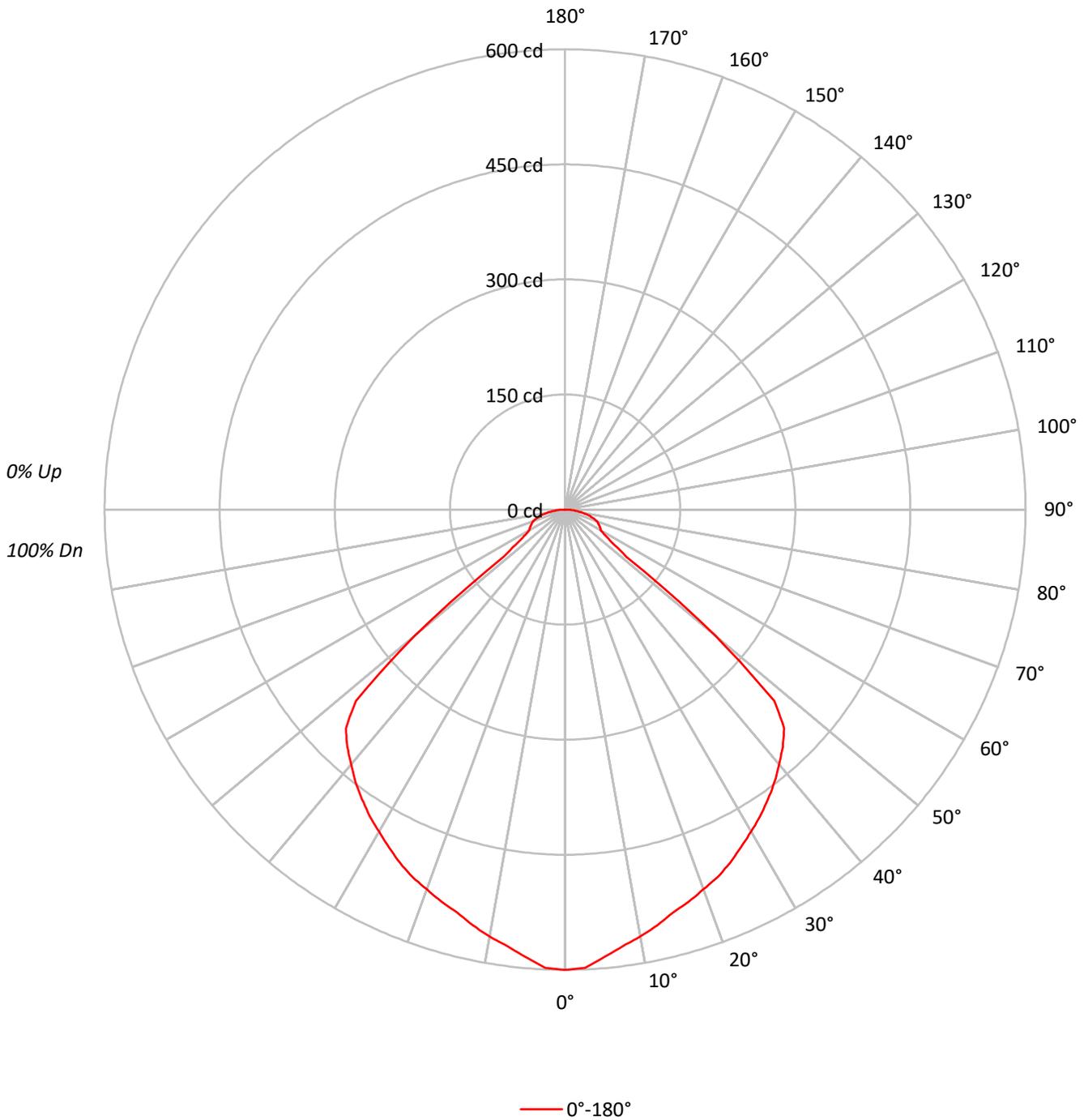
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1210.8 lumens  
Efficiency: N/A  
Efficacy: 161.4 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): 7.5  
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77				77
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68				68
4	88	78	71	65	86	77	70	65	75	68	64	72	67	63	70	66	62	60				60
5	82	71	63	57	80	70	63	57	68	61	56	66	60	56	64	59	55	53				53
6	76	65	57	51	75	64	56	51	62	55	50	60	55	50	59	54	50	48				48
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43				43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39				39
9	62	50	43	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35				35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				32

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

	0°
0°	2960
5°	2901
10°	2832
15°	2778
20°	2765
25°	2768
30°	2762
35°	2776
40°	2793
45°	2817
50°	1957
55°	637
60°	531
65°	576
70°	630
75°	656
80°	628
85°	634

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2817 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.3	4.6
10°-20°	154.0	12.7
20°-30°	234.2	19.3
30°-40°	288.6	23.8
40°-50°	296.1	24.5
50°-60°	86.0	7.1
60°-70°	48.7	4.0
70°-80°	35.6	2.9
80°-90°	12.3	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°	443.5	36.6
0°-40°	732.2	60.5
0°-60°	1114.3	92.0
0°-90°	1210.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1210.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	600	
5°	586	55
15°	544	154
25°	508	234
35°	461	289
45°	404	296
55°	74	86
65°	49	49
75°	34	36
85°	11	12
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	600.0
2.5°	598.1
5°	585.8
7.5°	574.2
10°	565.2
12.5°	555.1
15°	543.9
17.5°	536.0
20°	526.7
22.5°	518.8
25°	508.4
27.5°	496.4
30°	484.8
32.5°	473.6
35°	460.9
37.5°	448.2
40°	433.6
42.5°	419.8
45°	403.7
47.5°	369.7
50°	254.9
52.5°	100.2
55°	74.0
57.5°	60.9
60°	53.8
62.5°	51.6
65°	49.3
67.5°	46.7
70°	43.7
72.5°	39.6
75°	34.4
77.5°	28.0
80°	22.1
82.5°	16.4
85°	11.2
87.5°	6.4
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	6.29	7.70	6.66	8.02	8.33	6.29	7.70	6.66	8.02	8.33
	3H	8.71	9.97	9.09	10.30	10.66	8.71	9.97	9.09	10.30	10.66
	4H	9.77	10.94	10.17	11.29	11.67	9.77	10.94	10.17	11.29	11.67
	6H	10.56	11.63	10.97	12.00	12.40	10.56	11.63	10.97	12.00	12.40
	8H	10.83	11.86	11.26	12.25	12.65	10.83	11.86	11.26	12.25	12.65
	12H	11.05	12.02	11.48	12.41	12.84	11.05	12.02	11.48	12.41	12.84
4H	2H	7.04	8.21	7.44	8.56	8.94	7.04	8.21	7.44	8.56	8.94
	3H	9.73	10.69	10.14	11.09	11.50	9.73	10.69	10.14	11.09	11.50
	4H	10.93	11.79	11.36	12.20	12.65	10.93	11.79	11.36	12.20	12.65
	6H	11.84	12.59	12.30	13.03	13.49	11.84	12.59	12.30	13.03	13.49
	8H	12.17	12.87	12.63	13.31	13.78	12.17	12.87	12.63	13.31	13.78
	12H	12.43	13.05	12.92	13.54	14.01	12.43	13.05	12.92	13.54	14.01
8H	4H	11.35	12.05	11.82	12.49	12.96	11.35	12.05	11.82	12.49	12.96
	6H	12.41	12.98	12.90	13.48	13.96	12.41	12.98	12.90	13.48	13.96
	8H	12.83	13.35	13.34	13.86	14.35	12.83	13.35	13.34	13.86	14.35
	12H	13.20	13.66	13.71	14.16	14.72	13.20	13.66	13.71	14.16	14.72
12H	4H	11.40	12.02	11.88	12.50	12.97	11.40	12.02	11.88	12.50	12.97
	6H	12.49	13.01	13.01	13.53	14.02	12.49	13.01	13.01	13.53	14.02
	8H	12.98	13.45	13.49	13.94	14.51	12.98	13.45	13.49	13.94	14.51