

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: P979261

Luminaire Tested: PRLX-240-927-LL1-C-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979261  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-240-927-LL1-C-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH CLEAR LENS  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

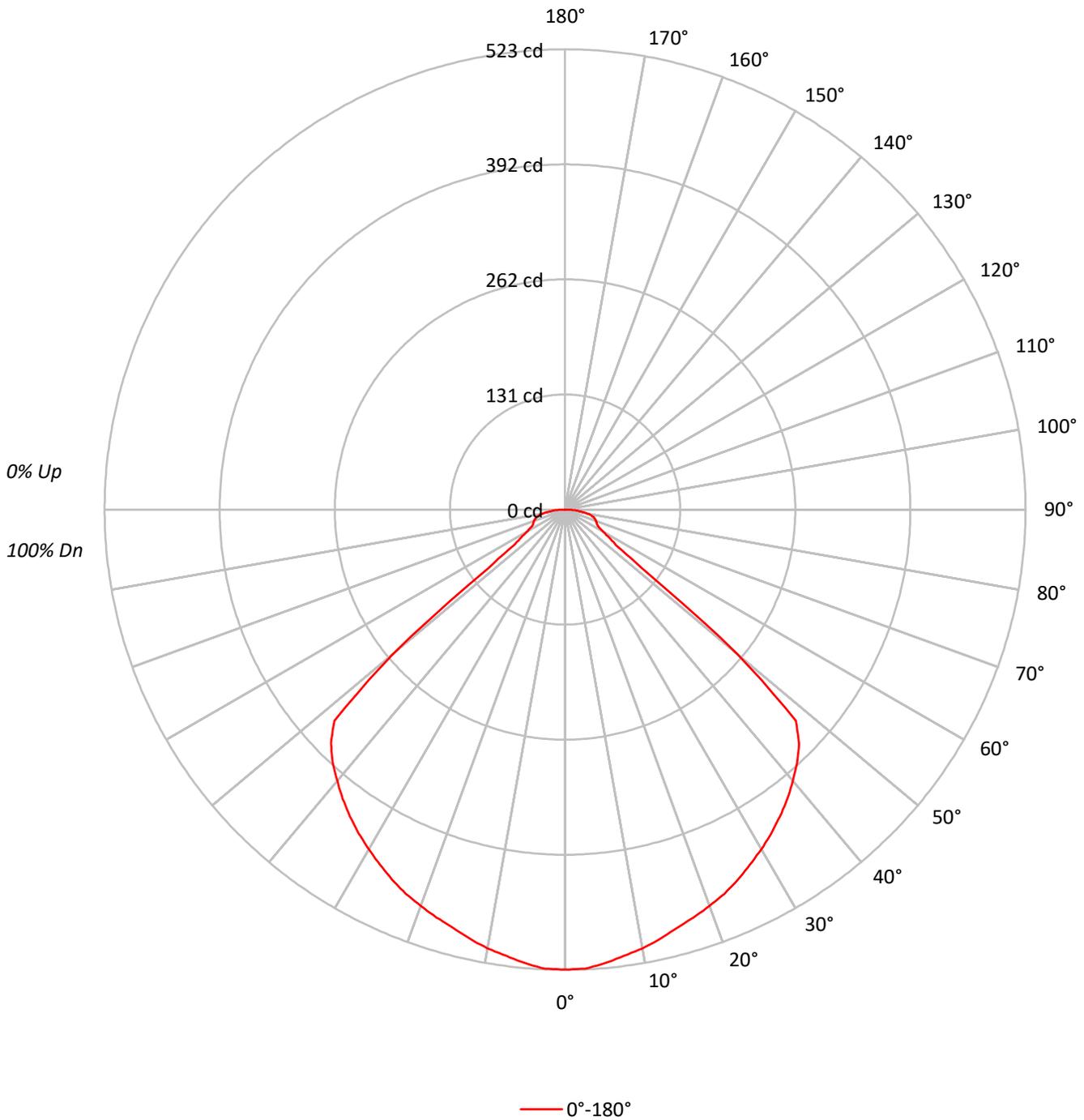
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1124.7 lumens  
Efficiency: N/A  
Efficacy: 150.0 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.43  
Luminous Opening: Circular (Dia: 1.17' 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									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	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	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88													88															
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77													77															
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68													68															
4	88	78	70	64	86	77	70	64	74	68	63	72	67	62	70	65	62	60													60															
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53													53															
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47													47															
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42													42															
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38													38															
9	62	50	42	37	61	49	42	37	48	41	37	47	41	36	46	40	36	35													35															
10	58	46	38	34	57	45	38	34	44	38	33	43	37	33	43	37	33	32													32															

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

	0°
0°	5262
5°	5232
10°	5177
15°	5128
20°	5135
25°	5159
30°	5182
35°	5231
40°	5288
45°	5353
50°	3999
55°	1245
60°	995
65°	958
70°	1101
75°	1303
80°	1490
85°	1467

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5353 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.0	4.4
10°-20°	139.2	12.4
20°-30°	214.1	19.0
30°-40°	266.5	23.7
40°-50°	279.6	24.9
50°-60°	86.5	7.7
60°-70°	41.0	3.6
70°-80°	34.6	3.1
80°-90°	14.2	1.3
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°	402.4	35.8
0°-40°	668.9	59.5
0°-60°	1035.0	92.0
0°-90°	1124.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1124.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	523	
5°	518	49
15°	492	139
25°	464	214
35°	426	267
45°	376	280
55°	71	86
65°	40	41
75°	34	35
85°	13	14
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	522.6
2.5°	522.2
5°	517.6
7.5°	511.6
10°	506.3
12.5°	499.6
15°	491.9
17.5°	485.9
20°	479.2
22.5°	472.5
25°	464.4
27.5°	454.9
30°	445.7
32.5°	436.2
35°	425.6
37.5°	414.7
40°	402.3
42.5°	390.3
45°	375.9
47.5°	355.4
50°	255.3
52.5°	109.7
55°	70.9
57.5°	58.9
60°	49.4
62.5°	43.0
65°	40.2
67.5°	38.8
70°	37.4
72.5°	35.6
75°	33.5
77.5°	30.3
80°	25.7
82.5°	19.4
85°	12.7
87.5°	7.1
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	8.75	10.18	9.12	10.49	10.81	8.75	10.18	9.12	10.49	10.81
	3H	10.72	11.98	11.10	12.31	12.67	10.72	11.98	11.10	12.31	12.67
	4H	11.87	13.06	12.28	13.41	13.79	11.87	13.06	12.28	13.41	13.79
	6H	13.00	14.09	13.42	14.46	14.85	13.00	14.09	13.42	14.46	14.85
	8H	13.43	14.46	13.86	14.85	15.26	13.43	14.46	13.86	14.85	15.26
	12H	13.74	14.73	14.17	15.11	15.54	13.74	14.73	14.17	15.11	15.54
4H	2H	9.26	10.44	9.66	10.79	11.17	9.26	10.44	9.66	10.79	11.17
	3H	11.63	12.60	12.04	13.00	13.40	11.63	12.60	12.04	13.00	13.40
	4H	13.01	13.88	13.44	14.29	14.73	13.01	13.88	13.44	14.29	14.73
	6H	14.33	15.08	14.79	15.53	15.99	14.33	15.08	14.79	15.53	15.99
	8H	14.83	15.53	15.29	15.98	16.45	14.83	15.53	15.29	15.98	16.45
	12H	15.20	15.83	15.68	16.31	16.78	15.20	15.83	15.68	16.31	16.78
8H	4H	13.54	14.25	14.01	14.69	15.16	13.54	14.25	14.01	14.69	15.16
	6H	15.04	15.63	15.54	16.12	16.60	15.04	15.63	15.54	16.12	16.60
	8H	15.64	16.18	16.16	16.69	17.18	15.64	16.18	16.16	16.69	17.18
	12H	16.13	16.60	16.64	17.10	17.66	16.13	16.60	16.64	17.10	17.66
12H	4H	13.63	14.26	14.12	14.74	15.22	13.63	14.26	14.12	14.74	15.22
	6H	15.18	15.71	15.70	16.22	16.71	15.18	15.71	15.70	16.22	16.71
	8H	15.86	16.34	16.37	16.83	17.40	15.86	16.34	16.37	16.83	17.40