

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: P979273

Luminaire Tested: PRLX-240-927-LL2-F-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979273  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-240-927-LL2-F-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH FROSTED LENS  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

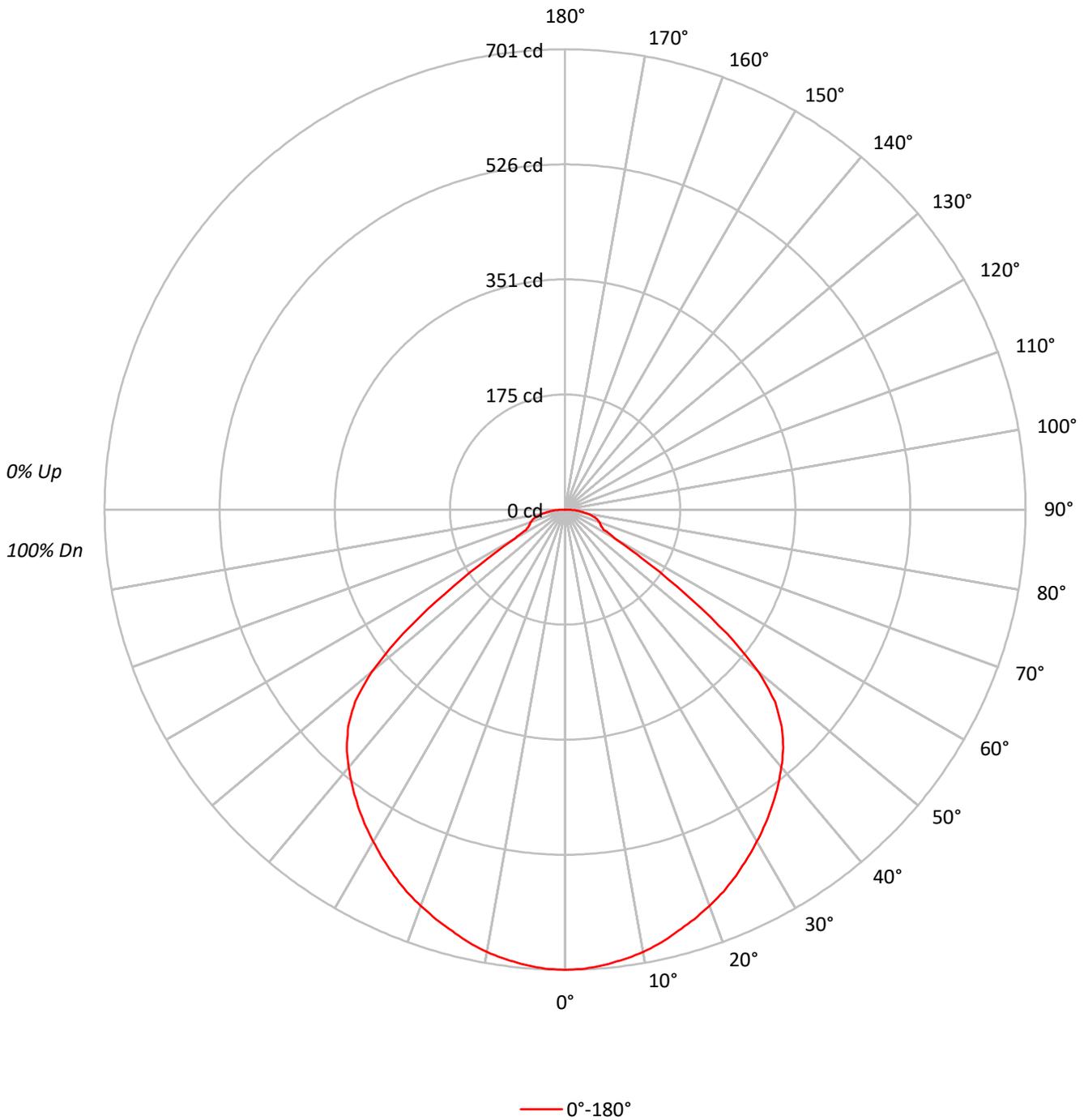
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1568.7 lumens  
Efficiency: N/A  
Efficacy: 142.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37  
Luminous Opening: Circular (Dia: 1.17' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 11  
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	103	100	108	104	101	98	100	98	95	96	94	92	93	91	89	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46
7	70	57	49	44	68	56	49	43	55	48	43	54	47	43	52	47	42	41
8	65	52	45	39	64	52	44	39	50	44	39	49	43	39	48	43	38	37
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

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

	0°
0°	7058
5°	7038
10°	6999
15°	6926
20°	6881
25°	6837
30°	6790
35°	6761
40°	6734
45°	6643
50°	6015
55°	3909
60°	1764
65°	1449
70°	1640
75°	1825
80°	1914
85°	1964

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6643 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.1	4.2
10°-20°	187.7	12.0
20°-30°	283.7	18.1
30°-40°	344.2	21.9
40°-50°	354.9	22.6
50°-60°	201.3	12.8
60°-70°	63.6	4.1
70°-80°	48.6	3.1
80°-90°	18.5	1.2
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°	537.4	34.3
0°-40°	881.7	56.2
0°-60°	1437.9	91.7
0°-90°	1568.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1568.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	701	
5°	696	66
15°	664	188
25°	615	284
35°	550	344
45°	466	355
55°	223	201
65°	61	64
75°	47	49
85°	17	19
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	701.0
2.5°	699.9
5°	696.3
7.5°	690.7
10°	684.5
12.5°	675.7
15°	664.4
17.5°	654.1
20°	642.2
22.5°	629.8
25°	615.4
27.5°	599.9
30°	584.0
32.5°	567.5
35°	550.0
37.5°	531.9
40°	512.3
42.5°	491.7
45°	466.5
47.5°	433.5
50°	384.0
52.5°	311.3
55°	222.7
57.5°	139.7
60°	87.6
62.5°	66.5
65°	60.8
67.5°	58.2
70°	55.7
72.5°	52.1
75°	46.9
77.5°	40.7
80°	33.0
82.5°	25.3
85°	17.0
87.5°	9.3
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	13.43	14.90	13.79	15.21	15.53	13.43	14.90	13.79	15.21	15.53
	3H	14.32	15.63	14.70	15.95	16.32	14.32	15.63	14.70	15.95	16.32
	4H	14.93	16.15	15.33	16.50	16.88	14.93	16.15	15.33	16.50	16.88
	6H	15.53	16.65	15.94	17.02	17.41	15.53	16.65	15.94	17.02	17.41
	8H	15.76	16.83	16.19	17.22	17.62	15.76	16.83	16.19	17.22	17.62
	12H	15.95	16.97	16.38	17.35	17.78	15.95	16.97	16.38	17.35	17.78
4H	2H	13.55	14.77	13.95	15.12	15.50	13.55	14.77	13.95	15.12	15.50
	3H	14.79	15.79	15.21	16.19	16.60	14.79	15.79	15.21	16.19	16.60
	4H	15.62	16.51	16.05	16.93	17.37	15.62	16.51	16.05	16.93	17.37
	6H	16.42	17.20	16.88	17.64	18.11	16.42	17.20	16.88	17.64	18.11
	8H	16.74	17.47	17.21	17.92	18.38	16.74	17.47	17.21	17.92	18.38
	12H	17.00	17.65	17.49	18.13	18.61	17.00	17.65	17.49	18.13	18.61
8H	4H	15.93	16.66	16.40	17.10	17.57	15.93	16.66	16.40	17.10	17.57
	6H	16.90	17.51	17.40	18.00	18.48	16.90	17.51	17.40	18.00	18.48
	8H	17.32	17.87	17.84	18.38	18.87	17.32	17.87	17.84	18.38	18.87
	12H	17.69	18.18	18.20	18.68	19.24	17.69	18.18	18.20	18.68	19.24
12H	4H	15.97	16.62	16.46	17.10	17.58	15.97	16.62	16.46	17.10	17.58
	6H	16.98	17.53	17.50	18.04	18.53	16.98	17.53	17.50	18.04	18.53
	8H	17.47	17.97	17.99	18.46	19.03	17.47	17.97	17.99	18.46	19.03