

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: P979903

Luminaire Tested: PRLX-242-927-LL1-F-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979903  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-242-927-LL1-F-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 242 SHADE WITH FROSTED LENS  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

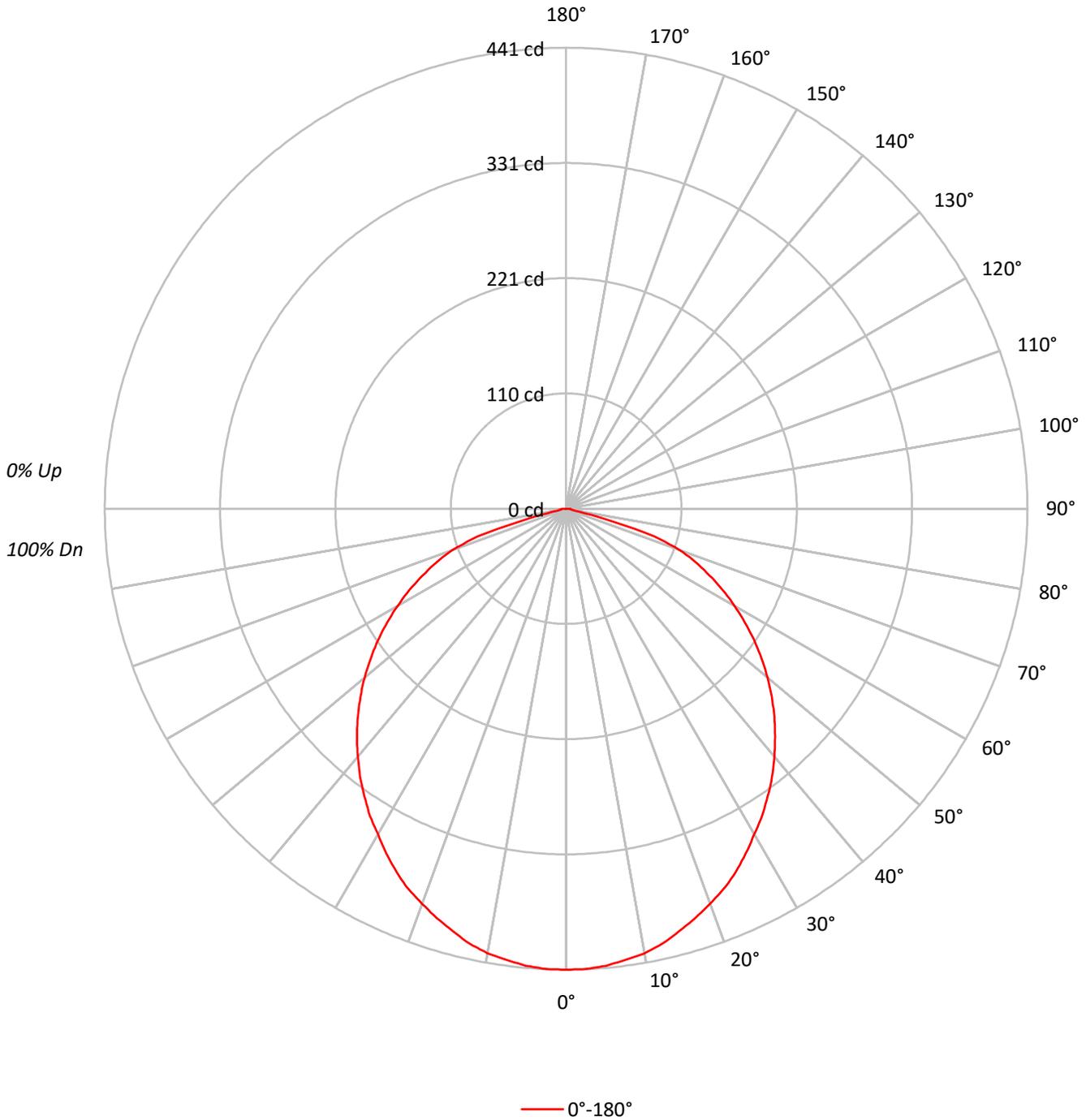
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1163.6 lumens  
Efficiency: N/A  
Efficacy: 155.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.34  
Luminous Opening: Circular (Dia: 1.75' 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	100	92	86	80	98	90	85	79	87	82	78	84	80	76	81	77	74	72
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

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

	0°
0°	1974
5°	1972
10°	1963
15°	1939
20°	1916
25°	1894
30°	1859
35°	1836
40°	1809
45°	1781
50°	1750
55°	1711
60°	1663
65°	1602
70°	1514
75°	628
80°	137
85°	216

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1781 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.7	3.6
10°-20°	118.1	10.1
20°-30°	176.5	15.2
30°-40°	210.2	18.1
40°-50°	217.1	18.7
50°-60°	195.9	16.8
60°-70°	149.7	12.9
70°-80°	50.6	4.3
80°-90°	3.9	0.3
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°	336.3	28.9
0°-40°	546.5	47.0
0°-60°	959.5	82.5
0°-90°	1163.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1163.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	441	
5°	439	42
15°	418	118
25°	384	177
35°	336	210
45°	281	217
55°	219	196
65°	151	150
75°	36	51
85°	4	4
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	441.1
2.5°	440.8
5°	439.0
7.5°	435.5
10°	431.9
12.5°	426.3
15°	418.5
17.5°	410.8
20°	402.3
22.5°	393.9
25°	383.6
27.5°	372.0
30°	359.7
32.5°	348.7
35°	336.0
37.5°	323.3
40°	309.6
42.5°	295.8
45°	281.4
47.5°	266.6
50°	251.4
52.5°	235.5
55°	219.3
57.5°	202.7
60°	185.8
62.5°	168.9
65°	151.3
67.5°	134.0
70°	115.7
72.5°	88.5
75°	36.3
77.5°	7.8
80°	5.3
82.5°	4.9
85°	4.2
87.5°	2.5
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	14.22	15.82	14.58	16.14	16.45	14.22	15.82	14.58	16.14	16.45
	3H	16.05	17.49	16.42	17.81	18.18	16.05	17.49	16.42	17.81	18.18
	4H	16.28	17.63	16.68	17.98	18.36	16.28	17.63	16.68	17.98	18.36
	6H	16.23	17.48	16.64	17.84	18.23	16.23	17.48	16.64	17.84	18.23
	8H	16.20	17.39	16.62	17.78	18.18	16.20	17.39	16.62	17.78	18.18
	12H	16.18	17.32	16.60	17.70	18.13	16.18	17.32	16.60	17.70	18.13
4H	2H	14.87	16.22	15.27	16.57	16.95	14.87	16.22	15.27	16.57	16.95
	3H	16.87	18.00	17.28	18.40	18.80	16.87	18.00	17.28	18.40	18.80
	4H	17.09	18.10	17.52	18.52	18.95	17.09	18.10	17.52	18.52	18.95
	6H	17.05	17.93	17.51	18.37	18.83	17.05	17.93	17.51	18.37	18.83
	8H	17.02	17.84	17.48	18.28	18.75	17.02	17.84	17.48	18.28	18.75
	12H	17.00	17.73	17.49	18.21	18.68	17.00	17.73	17.49	18.21	18.68
8H	4H	17.14	17.96	17.61	18.40	18.87	17.14	17.96	17.61	18.40	18.87
	6H	17.09	17.76	17.59	18.25	18.73	17.09	17.76	17.59	18.25	18.73
	8H	17.06	17.66	17.57	18.16	18.65	17.06	17.66	17.57	18.16	18.65
	12H	17.05	17.57	17.56	18.07	18.63	17.05	17.57	17.56	18.07	18.63
12H	4H	17.12	17.85	17.60	18.33	18.80	17.12	17.85	17.60	18.33	18.80
	6H	17.05	17.65	17.56	18.16	18.64	17.05	17.65	17.56	18.16	18.64
	8H	17.04	17.56	17.55	18.06	18.62	17.04	17.56	17.55	18.06	18.62