

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: P979641

Luminaire Tested: PRLX-241-927-LL7-C-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979641  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-241-927-LL7-C-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH CLEAR LENS  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

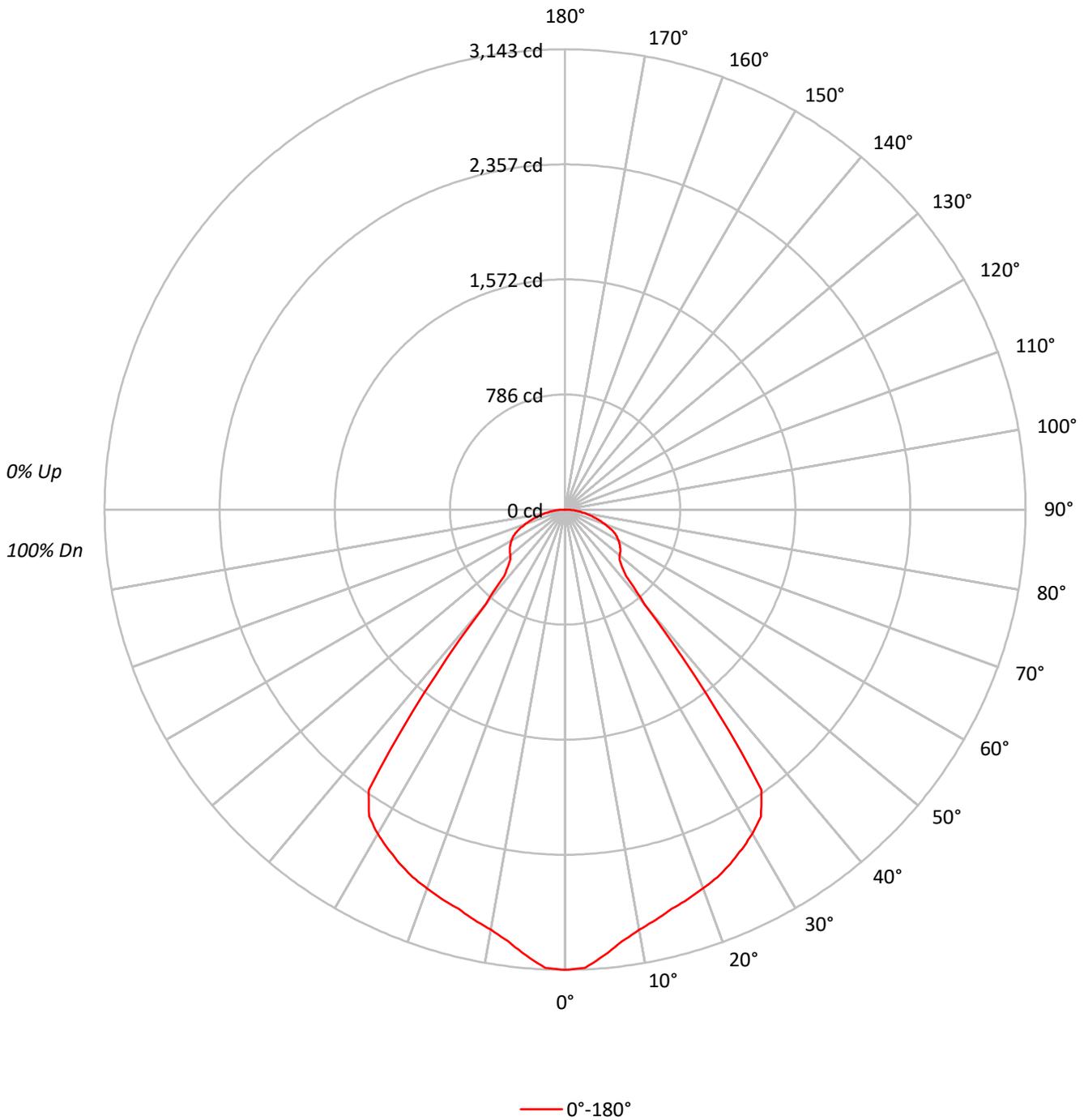
Lumens per Lamp: N/A  
Luminaire Lumens: 5070.7 lumens  
Efficiency: N/A  
Efficacy: 105.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.09  
Luminous Opening: Circular (Dia: 1.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 48  
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	105	101	98	100	98	95	97	94	92	93	91	90	88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68
4	89	79	71	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61
5	83	72	64	59	81	71	64	59	69	63	58	67	62	57	65	61	57	55
6	78	66	59	53	76	65	58	53	64	57	52	62	56	52	61	56	52	50
7	73	61	54	48	71	60	53	48	59	53	48	58	52	48	56	51	47	45
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42
9	65	53	46	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38
10	61	49	42	38	60	49	42	37	48	42	37	47	41	37	46	41	37	36

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

	0°
0°	24227
5°	23658
10°	22808
15°	22514
20°	22590
25°	22696
30°	22764
35°	21980
40°	8488
45°	5965
50°	5842
55°	6180
60°	6502
65°	6698
70°	6473
75°	6118
80°	5727
85°	5307

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 65°  
 Luminance: 6698 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	287.0	5.7
10°-20°	799.4	15.8
20°-30°	1230.2	24.3
30°-40°	1251.3	24.7
40°-50°	448.3	8.8
50°-60°	410.0	8.1
60°-70°	358.2	7.1
70°-80°	217.9	4.3
80°-90°	68.5	1.4
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°	2316.6	45.7
0°-40°	3567.9	70.4
0°-60°	4426.2	87.3
0°-90°	5070.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5070.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3143	
5°	3057	287
15°	2821	799
25°	2668	1230
35°	2336	1251
45°	547	448
55°	460	410
65°	367	358
75°	205	218
85°	60	68
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3142.6
2.5°	3131.7
5°	3057.2
7.5°	2973.6
10°	2913.6
12.5°	2868.1
15°	2820.9
17.5°	2790.0
20°	2753.6
22.5°	2717.3
25°	2668.2
27.5°	2613.7
30°	2557.3
32.5°	2486.4
35°	2335.6
37.5°	1581.3
40°	843.4
42.5°	614.3
45°	547.1
47.5°	505.3
50°	487.1
52.5°	474.4
55°	459.8
57.5°	441.7
60°	421.7
62.5°	398.0
65°	367.2
67.5°	327.2
70°	287.2
72.5°	245.4
75°	205.4
77.5°	167.2
80°	129.0
82.5°	94.5
85°	60.0
87.5°	32.7
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	16.79	18.11	17.15	18.42	18.74	16.79	18.11	17.15	18.42	18.74
	3H	18.94	20.13	19.32	20.46	20.82	18.94	20.13	19.32	20.46	20.82
	4H	19.73	20.84	20.13	21.19	21.57	19.73	20.84	20.13	21.19	21.57
	6H	20.31	21.34	20.73	21.71	22.10	20.31	21.34	20.73	21.71	22.10
	8H	20.52	21.49	20.95	21.88	22.29	20.52	21.49	20.95	21.88	22.29
	12H	20.66	21.59	21.09	21.97	22.40	20.66	21.59	21.09	21.97	22.40
4H	2H	17.53	18.65	17.94	19.00	19.38	17.53	18.65	17.94	19.00	19.38
	3H	19.85	20.78	20.26	21.18	21.58	19.85	20.78	20.26	21.18	21.58
	4H	20.75	21.58	21.18	22.00	22.44	20.75	21.58	21.18	22.00	22.44
	6H	21.46	22.19	21.92	22.63	23.10	21.46	22.19	21.92	22.63	23.10
	8H	21.71	22.39	22.18	22.84	23.31	21.71	22.39	22.18	22.84	23.31
	12H	21.90	22.50	22.38	22.98	23.45	21.90	22.50	22.38	22.98	23.45
8H	4H	21.07	21.75	21.54	22.19	22.66	21.07	21.75	21.54	22.19	22.66
	6H	21.92	22.48	22.43	22.97	23.45	21.92	22.48	22.43	22.97	23.45
	8H	22.26	22.76	22.78	23.27	23.76	22.26	22.76	22.78	23.27	23.76
	12H	22.55	22.98	23.06	23.47	24.04	22.55	22.98	23.06	23.47	24.04
12H	4H	21.10	21.70	21.58	22.18	22.65	21.10	21.70	21.58	22.18	22.65
	6H	21.99	22.48	22.51	23.00	23.49	21.99	22.48	22.51	23.00	23.49
	8H	22.39	22.82	22.91	23.32	23.89	22.39	22.82	22.91	23.32	23.89