

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: P980441

Luminaire Tested: PRLX-243-935-LL7-C-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P980441  
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-243-935-LL7-C-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 243 SHADE WITH CLEAR LENS  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

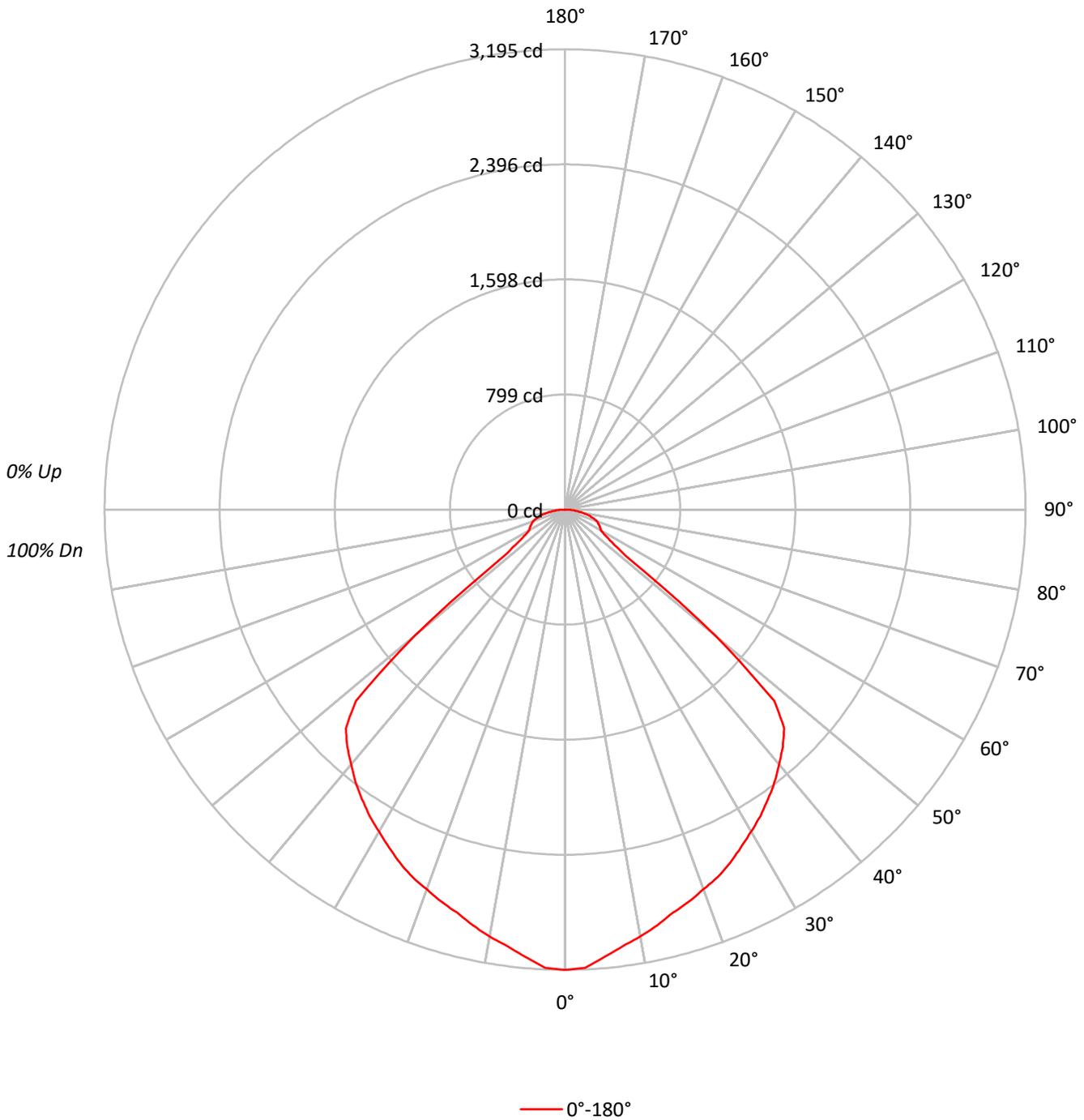
Lumens per Lamp: N/A  
Luminaire Lumens: 6448.5 lumens  
Efficiency: N/A  
Efficacy: 134.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.38  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 48  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage 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																		
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																												
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88																												
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77																												
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68																												
4	88	78	71	65	86	77	70	65	75	68	64	72	67	63	70	66	62	60																												
5	82	71	63	57	80	70	63	57	68	61	56	66	60	56	64	59	55	53																												
6	76	65	57	51	75	64	56	51	62	55	50	60	55	50	59	54	50	48																												
7	71	59	51	46	70	58	51	46	57	50	45	56	49	45	54	49	45	43																												
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39																												
9	62	50	43	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35																												
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32																												

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

	0°
0°	15764
5°	15449
10°	15079
15°	14795
20°	14727
25°	14739
30°	14709
35°	14784
40°	14873
45°	15002
50°	10421
55°	3391
60°	2829
65°	3068
70°	3360
75°	3490
80°	3338
85°	3380

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15002 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.3	4.6
10°-20°	820.2	12.7
20°-30°	1247.5	19.3
30°-40°	1537.2	23.8
40°-50°	1577.0	24.5
50°-60°	458.2	7.1
60°-70°	259.3	4.0
70°-80°	189.6	2.9
80°-90°	65.3	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°	2361.9	36.6
0°-40°	3899.1	60.5
0°-60°	5934.4	92.0
0°-90°	6448.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6448.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3195	
5°	3119	294
15°	2896	820
25°	2707	1247
35°	2454	1537
45°	2150	1577
55°	394	458
65°	263	259
75°	183	190
85°	60	65
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3195.1
2.5°	3185.1
5°	3119.4
7.5°	3057.7
10°	3009.9
12.5°	2956.2
15°	2896.5
17.5°	2854.7
20°	2804.9
22.5°	2763.1
25°	2707.4
27.5°	2643.6
30°	2581.9
32.5°	2522.2
35°	2454.5
37.5°	2386.8
40°	2309.2
42.5°	2235.6
45°	2150.0
47.5°	1968.8
50°	1357.7
52.5°	533.5
55°	394.2
57.5°	324.5
60°	286.7
62.5°	274.7
65°	262.8
67.5°	248.8
70°	232.9
72.5°	211.0
75°	183.1
77.5°	149.3
80°	117.5
82.5°	87.6
85°	59.7
87.5°	33.8
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	12.10	13.52	12.47	13.83	14.15	12.10	13.52	12.47	13.83	14.15
	3H	14.53	15.78	14.91	16.11	16.47	14.53	15.78	14.91	16.11	16.47
	4H	15.58	16.75	15.98	17.10	17.49	15.58	16.75	15.98	17.10	17.49
	6H	16.37	17.45	16.78	17.82	18.21	16.37	17.45	16.78	17.82	18.21
	8H	16.65	17.67	17.08	18.06	18.46	16.65	17.67	17.08	18.06	18.46
	12H	16.86	17.84	17.29	18.22	18.65	16.86	17.84	17.29	18.22	18.65
4H	2H	12.85	14.03	13.26	14.38	14.76	12.85	14.03	13.26	14.38	14.76
	3H	15.55	16.51	15.96	16.91	17.31	15.55	16.51	15.96	16.91	17.31
	4H	16.74	17.60	17.17	18.02	18.46	16.74	17.60	17.17	18.02	18.46
	6H	17.65	18.40	18.11	18.84	19.31	17.65	18.40	18.11	18.84	19.31
	8H	17.98	18.68	18.45	19.13	19.59	17.98	18.68	18.45	19.13	19.59
	12H	18.25	18.87	18.73	19.35	19.82	18.25	18.87	18.73	19.35	19.82
8H	4H	17.16	17.86	17.63	18.31	18.77	17.16	17.86	17.63	18.31	18.77
	6H	18.22	18.80	18.72	19.29	19.77	18.22	18.80	18.72	19.29	19.77
	8H	18.64	19.16	19.16	19.68	20.17	18.64	19.16	19.16	19.68	20.17
	12H	19.01	19.48	19.52	19.97	20.54	19.01	19.48	19.52	19.97	20.54
12H	4H	17.21	17.83	17.69	18.31	18.78	17.21	17.83	17.69	18.31	18.78
	6H	18.30	18.82	18.82	19.34	19.83	18.30	18.82	18.82	19.34	19.83
	8H	18.79	19.26	19.31	19.76	20.32	18.79	19.26	19.31	19.76	20.32