

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: P980271

Luminaire Tested: PRLX-243-927-LL6-C-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P980271  
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-243-927-LL6-C-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 243 SHADE WITH CLEAR LENS  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

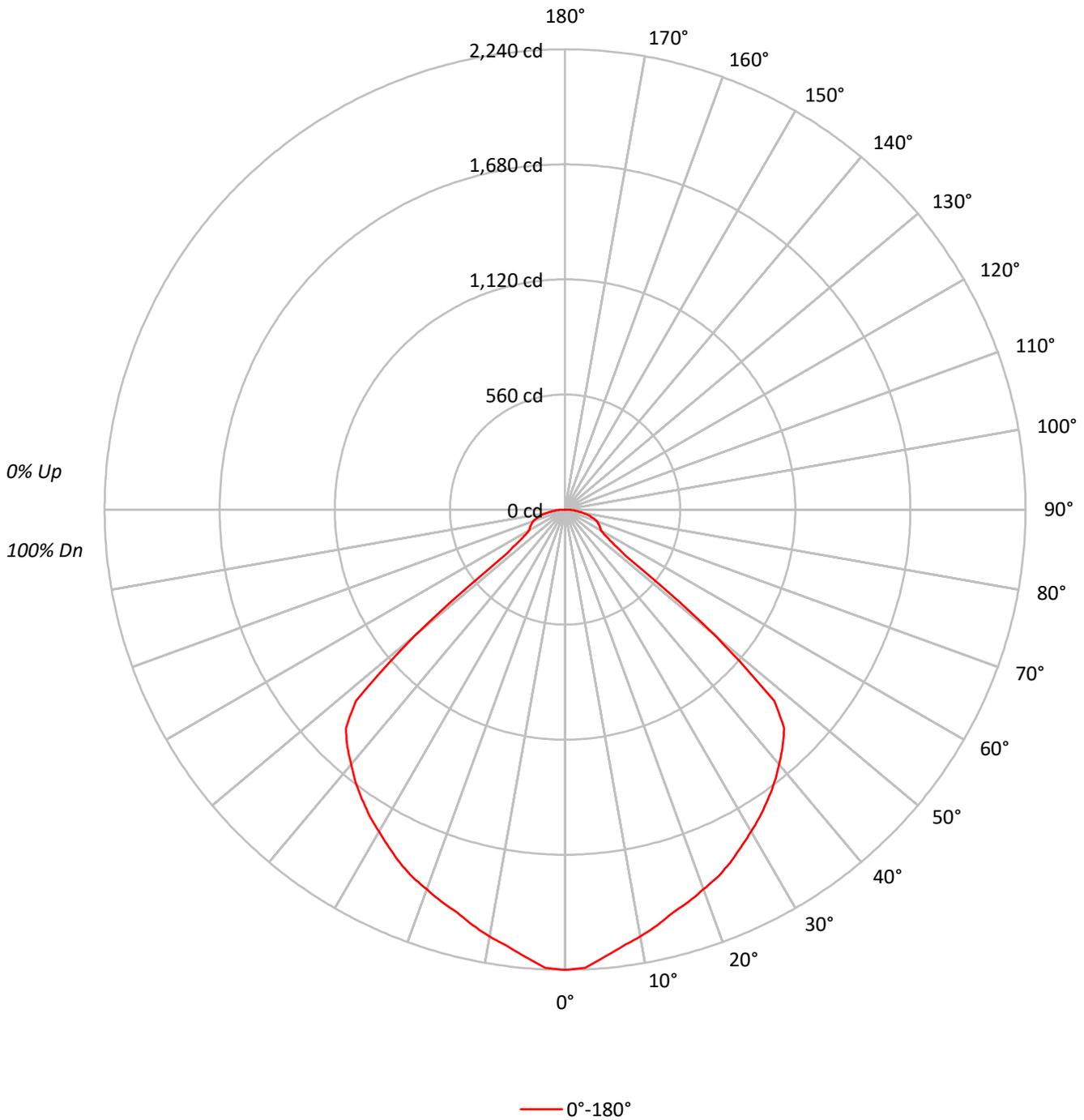
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4520.5 lumens  
Efficiency: N/A  
Efficacy: 134.9 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): 33.5  
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	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	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77				77
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68				68
4	88	78	71	65	86	77	70	65	75	68	64	72	67	63	70	66	62	60				60
5	82	71	63	57	80	70	63	57	68	61	56	66	60	56	64	59	55	53				53
6	76	65	57	51	75	64	56	51	62	55	50	60	55	50	59	54	50	48				48
7	71	59	51	46	70	58	51	46	57	50	45	56	49	45	54	49	45	43				43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39				39
9	62	50	43	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35				35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				32

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

	0°
0°	11051
5°	10830
10°	10571
15°	10372
20°	10324
25°	10332
30°	10312
35°	10364
40°	10426
45°	10516
50°	7305
55°	2377
60°	1983
65°	2150
70°	2356
75°	2448
80°	2338
85°	2372

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10516 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.3	4.6
10°-20°	574.9	12.7
20°-30°	874.5	19.3
30°-40°	1077.6	23.8
40°-50°	1105.5	24.5
50°-60°	321.2	7.1
60°-70°	181.7	4.0
70°-80°	132.9	2.9
80°-90°	45.8	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°	1655.8	36.6
0°-40°	2733.4	60.5
0°-60°	4160.1	92.0
0°-90°	4520.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4520.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2240	
5°	2187	206
15°	2030	575
25°	1898	875
35°	1721	1078
45°	1507	1106
55°	276	321
65°	184	182
75°	128	133
85°	42	46
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2239.8
2.5°	2232.8
5°	2186.8
7.5°	2143.5
10°	2110.0
12.5°	2072.3
15°	2030.5
17.5°	2001.2
20°	1966.3
22.5°	1937.0
25°	1897.9
27.5°	1853.2
30°	1810.0
32.5°	1768.1
35°	1720.7
37.5°	1673.2
40°	1618.8
42.5°	1567.2
45°	1507.1
47.5°	1380.2
50°	951.7
52.5°	374.0
55°	276.3
57.5°	227.5
60°	201.0
62.5°	192.6
65°	184.2
67.5°	174.4
70°	163.3
72.5°	147.9
75°	128.4
77.5°	104.7
80°	82.3
82.5°	61.4
85°	41.9
87.5°	23.7
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	10.87	12.28	11.24	12.60	12.91	10.87	12.28	11.24	12.60	12.91
	3H	13.29	14.55	13.67	14.88	15.24	13.29	14.55	13.67	14.88	15.24
	4H	14.35	15.52	14.75	15.87	16.25	14.35	15.52	14.75	15.87	16.25
	6H	15.13	16.21	15.55	16.58	16.97	15.13	16.21	15.55	16.58	16.97
	8H	15.41	16.44	15.84	16.83	17.23	15.41	16.44	15.84	16.83	17.23
	12H	15.63	16.61	16.06	16.99	17.42	15.63	16.61	16.06	16.99	17.42
4H	2H	11.62	12.79	12.02	13.14	13.52	11.62	12.79	12.02	13.14	13.52
	3H	14.31	15.27	14.73	15.67	16.08	14.31	15.27	14.73	15.67	16.08
	4H	15.51	16.37	15.94	16.78	17.23	15.51	16.37	15.94	16.78	17.23
	6H	16.42	17.16	16.88	17.61	18.07	16.42	17.16	16.88	17.61	18.07
	8H	16.75	17.45	17.21	17.89	18.36	16.75	17.45	17.21	17.89	18.36
	12H	17.01	17.63	17.50	18.12	18.59	17.01	17.63	17.50	18.12	18.59
8H	4H	15.93	16.63	16.40	17.07	17.54	15.93	16.63	16.40	17.07	17.54
	6H	16.98	17.56	17.48	18.06	18.54	16.98	17.56	17.48	18.06	18.54
	8H	17.41	17.93	17.92	18.44	18.93	17.41	17.93	17.92	18.44	18.93
	12H	17.78	18.24	18.29	18.74	19.30	17.78	18.24	18.29	18.74	19.30
12H	4H	15.98	16.60	16.46	17.08	17.55	15.98	16.60	16.46	17.08	17.55
	6H	17.07	17.59	17.59	18.10	18.59	17.07	17.59	17.59	18.10	18.59
	8H	17.56	18.03	18.07	18.52	19.09	17.56	18.03	18.07	18.52	19.09