

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: P979311

Luminaire Tested: PRLX-240-927-LL6-C-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979311  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-240-927-LL6-C-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH CLEAR LENS  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

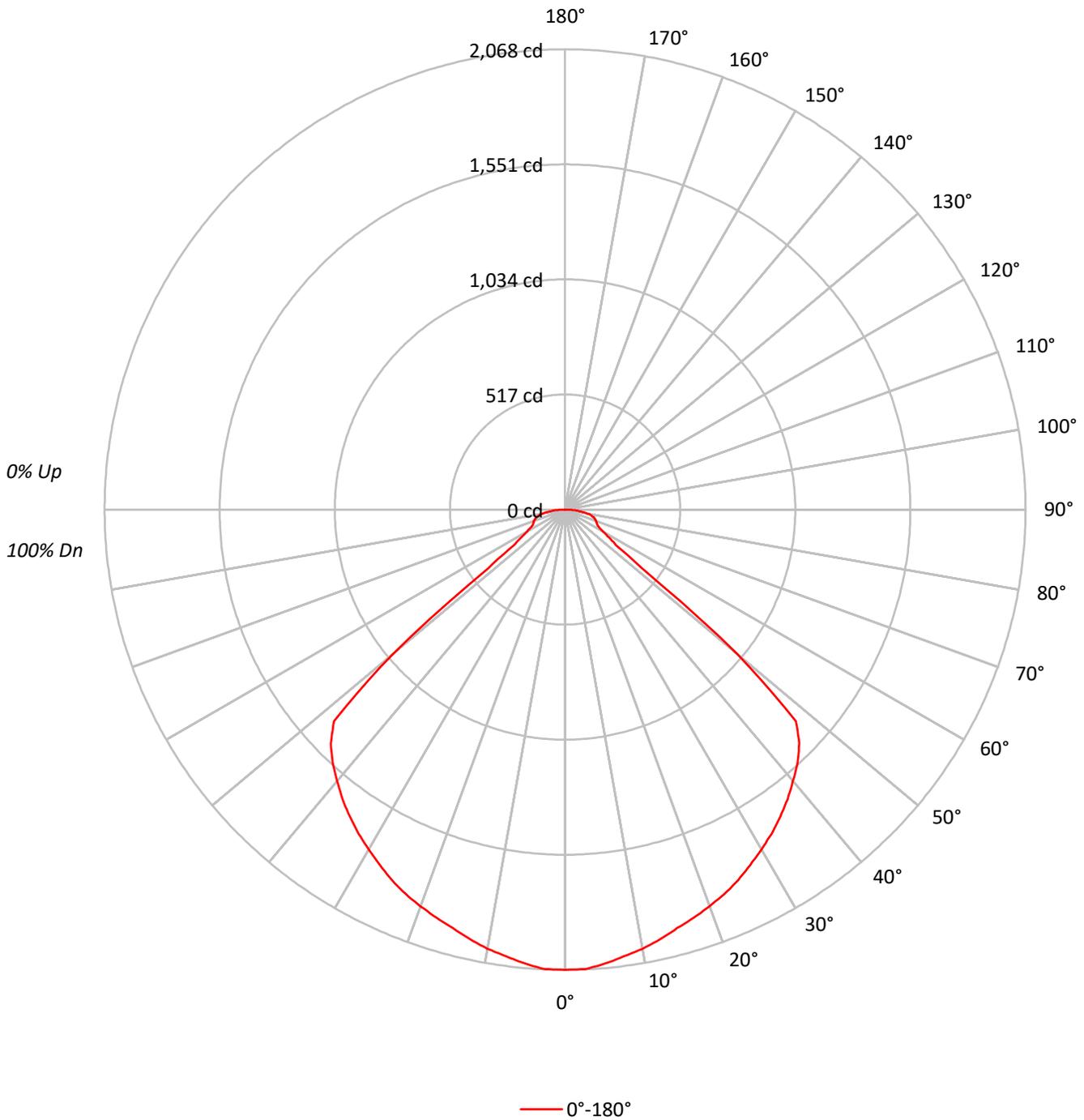
Lumens per Lamp: N/A  
Luminaire Lumens: 4451.0 lumens  
Efficiency: N/A  
Efficacy: 132.9 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.43  
Luminous Opening: Circular (Dia: 1.17' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 33.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88				88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77				77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68				68
4	88	78	70	64	86	77	70	64	74	68	63	72	67	62	70	65	62	60				60
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53				53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47				47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42				42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38				38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	36	46	40	36	35				35
10	58	46	38	34	57	45	38	34	44	38	33	43	37	33	43	37	33	32				32

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

0°	
0°	20824
5°	20706
10°	20489
15°	20293
20°	20321
25°	20419
30°	20508
35°	20705
40°	20929
45°	21183
50°	15826
55°	4924
60°	3935
65°	3791
70°	4354
75°	5159
80°	5909
85°	5800

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21183 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.0	4.4
10°-20°	551.0	12.4
20°-30°	847.3	19.0
30°-40°	1054.8	23.7
40°-50°	1106.6	24.9
50°-60°	342.1	7.7
60°-70°	162.2	3.6
70°-80°	136.9	3.1
80°-90°	56.0	1.3
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°	1592.4	35.8
0°-40°	2647.2	59.5
0°-60°	4095.9	92.0
0°-90°	4451.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4451.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2068	
5°	2049	194
15°	1947	551
25°	1838	847
35°	1684	1055
45°	1488	1107
55°	280	342
65°	159	162
75°	133	137
85°	50	56
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2068.1
2.5°	2066.7
5°	2048.6
7.5°	2024.9
10°	2003.9
12.5°	1977.4
15°	1946.7
17.5°	1923.0
20°	1896.5
22.5°	1870.0
25°	1837.9
27.5°	1800.2
30°	1763.9
32.5°	1726.2
35°	1684.4
37.5°	1641.1
40°	1592.3
42.5°	1544.8
45°	1487.6
47.5°	1406.7
50°	1010.3
52.5°	434.0
55°	280.5
57.5°	233.0
60°	195.4
62.5°	170.3
65°	159.1
67.5°	153.5
70°	147.9
72.5°	140.9
75°	132.6
77.5°	120.0
80°	101.9
82.5°	76.8
85°	50.2
87.5°	27.9
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	13.53	14.96	13.89	15.27	15.58	13.53	14.96	13.89	15.27	15.58
	3H	15.49	16.76	15.87	17.09	17.45	15.49	16.76	15.87	17.09	17.45
	4H	16.65	17.83	17.05	18.18	18.56	16.65	17.83	17.05	18.18	18.56
	6H	17.78	18.87	18.20	19.24	19.63	17.78	18.87	18.20	19.24	19.63
	8H	18.21	19.25	18.64	19.64	20.04	18.21	19.25	18.64	19.64	20.04
	12H	18.52	19.51	18.95	19.89	20.32	18.52	19.51	18.95	19.89	20.32
4H	2H	14.04	15.22	14.44	15.57	15.95	14.04	15.22	14.44	15.57	15.95
	3H	16.41	17.37	16.82	17.78	18.18	16.41	17.37	16.82	17.78	18.18
	4H	17.79	18.65	18.22	19.07	19.51	17.79	18.65	18.22	19.07	19.51
	6H	19.11	19.86	19.57	20.31	20.77	19.11	19.86	19.57	20.31	20.77
	8H	19.61	20.31	20.07	20.76	21.23	19.61	20.31	20.07	20.76	21.23
	12H	19.98	20.61	20.46	21.09	21.56	19.98	20.61	20.46	21.09	21.56
8H	4H	18.32	19.02	18.78	19.47	19.94	18.32	19.02	18.78	19.47	19.94
	6H	19.82	20.41	20.32	20.90	21.38	19.82	20.41	20.32	20.90	21.38
	8H	20.43	20.96	20.94	21.47	21.96	20.43	20.96	20.94	21.47	21.96
	12H	20.91	21.38	21.42	21.88	22.44	20.91	21.38	21.42	21.88	22.44
12H	4H	18.41	19.04	18.90	19.52	20.00	18.41	19.04	18.90	19.52	20.00
	6H	19.96	20.49	20.48	21.01	21.50	19.96	20.49	20.48	21.01	21.50
	8H	20.64	21.12	21.15	21.61	22.18	20.64	21.12	21.15	21.61	22.18