

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: P979470

Luminaire Tested: PRLX-240-935-LL6-C-U-S-BLAK-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979470  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-240-935-LL6-C-U-S-BLAK-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 240 SHADE WITH CLEAR LENS  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

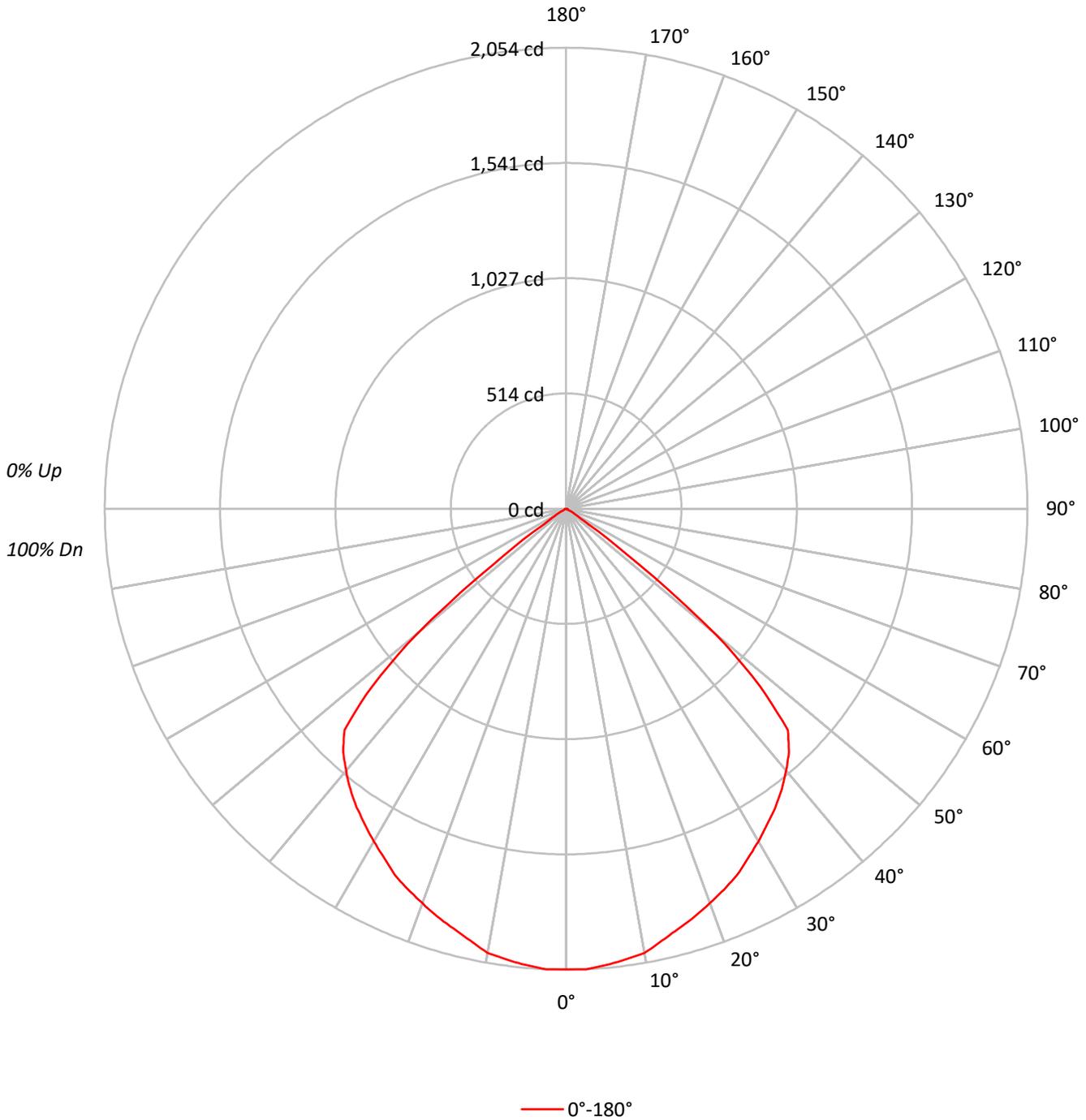
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3833.6 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.39  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	100	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36

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

	0°
0°	20669
5°	20639
10°	20550
15°	20186
20°	20046
25°	20020
30°	19903
35°	19971
40°	20030
45°	19872
50°	13600
55°	2119
60°	524
65°	110
70°	135
75°	179
80°	267
85°	173

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19872 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.9	5.1
10°-20°	547.6	14.3
20°-30°	829.2	21.6
30°-40°	1016.6	26.5
40°-50°	1006.5	26.3
50°-60°	224.4	5.9
60°-70°	8.3	0.2
70°-80°	4.9	0.1
80°-90°	2.3	0.1
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°	1570.7	41.0
0°-40°	2587.3	67.5
0°-60°	3818.2	99.6
0°-90°	3833.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3833.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2053	
5°	2042	194
15°	1936	548
25°	1802	829
35°	1625	1017
45°	1396	1006
55°	121	224
65°	5	8
75°	5	5
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2052.7
2.5°	2054.2
5°	2042.0
7.5°	2026.7
10°	2009.9
12.5°	1971.7
15°	1936.5
17.5°	1906.0
20°	1870.8
22.5°	1837.2
25°	1802.0
27.5°	1754.6
30°	1711.8
32.5°	1667.5
35°	1624.7
37.5°	1577.3
40°	1523.9
42.5°	1468.8
45°	1395.5
47.5°	1172.3
50°	868.2
52.5°	405.0
55°	120.7
57.5°	58.1
60°	26.0
62.5°	9.2
65°	4.6
67.5°	4.6
70°	4.6
72.5°	4.6
75°	4.6
77.5°	4.6
80°	4.6
82.5°	3.1
85°	1.5
87.5°	1.5
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	4.35	5.64	4.71	5.96	6.27	4.35	5.64	4.71	5.96	6.27
	3H	4.26	5.39	4.64	5.72	6.09	4.26	5.39	4.64	5.72	6.09
	4H	4.23	5.29	4.64	5.64	6.02	4.23	5.29	4.64	5.64	6.02
	6H	4.25	5.22	4.67	5.59	5.98	4.25	5.22	4.67	5.59	5.98
	8H	4.26	5.17	4.69	5.56	5.97	4.26	5.17	4.69	5.56	5.97
	12H	4.25	5.11	4.68	5.50	5.93	4.25	5.11	4.68	5.50	5.93
4H	2H	4.15	5.20	4.55	5.55	5.94	4.15	5.20	4.55	5.55	5.94
	3H	4.08	4.93	4.50	5.33	5.73	4.08	4.93	4.50	5.33	5.73
	4H	4.08	4.83	4.52	5.25	5.69	4.08	4.83	4.52	5.25	5.69
	6H	4.17	4.82	4.64	5.26	5.73	4.17	4.82	4.64	5.26	5.73
	8H	4.20	4.80	4.67	5.25	5.72	4.20	4.80	4.67	5.25	5.72
	12H	4.20	4.73	4.69	5.22	5.69	4.20	4.73	4.69	5.22	5.69
8H	4H	3.99	4.59	4.46	5.04	5.51	3.99	4.59	4.46	5.04	5.51
	6H	4.14	4.63	4.64	5.13	5.61	4.14	4.63	4.64	5.13	5.61
	8H	4.20	4.65	4.72	5.16	5.66	4.20	4.65	4.72	5.16	5.66
	12H	4.23	4.63	4.74	5.13	5.70	4.23	4.63	4.74	5.13	5.70
12H	4H	3.96	4.49	4.44	4.97	5.45	3.96	4.49	4.44	4.97	5.45
	6H	4.10	4.55	4.63	5.07	5.56	4.10	4.55	4.63	5.07	5.56
	8H	4.20	4.60	4.71	5.10	5.67	4.20	4.60	4.71	5.10	5.67