

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: P979540

Luminaire Tested: PRLX-240-940-LL5-C-U-S-BLAK-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979540  
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-240-940-LL5-C-U-S-BLAK-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 240 SHADE WITH CLEAR LENS  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

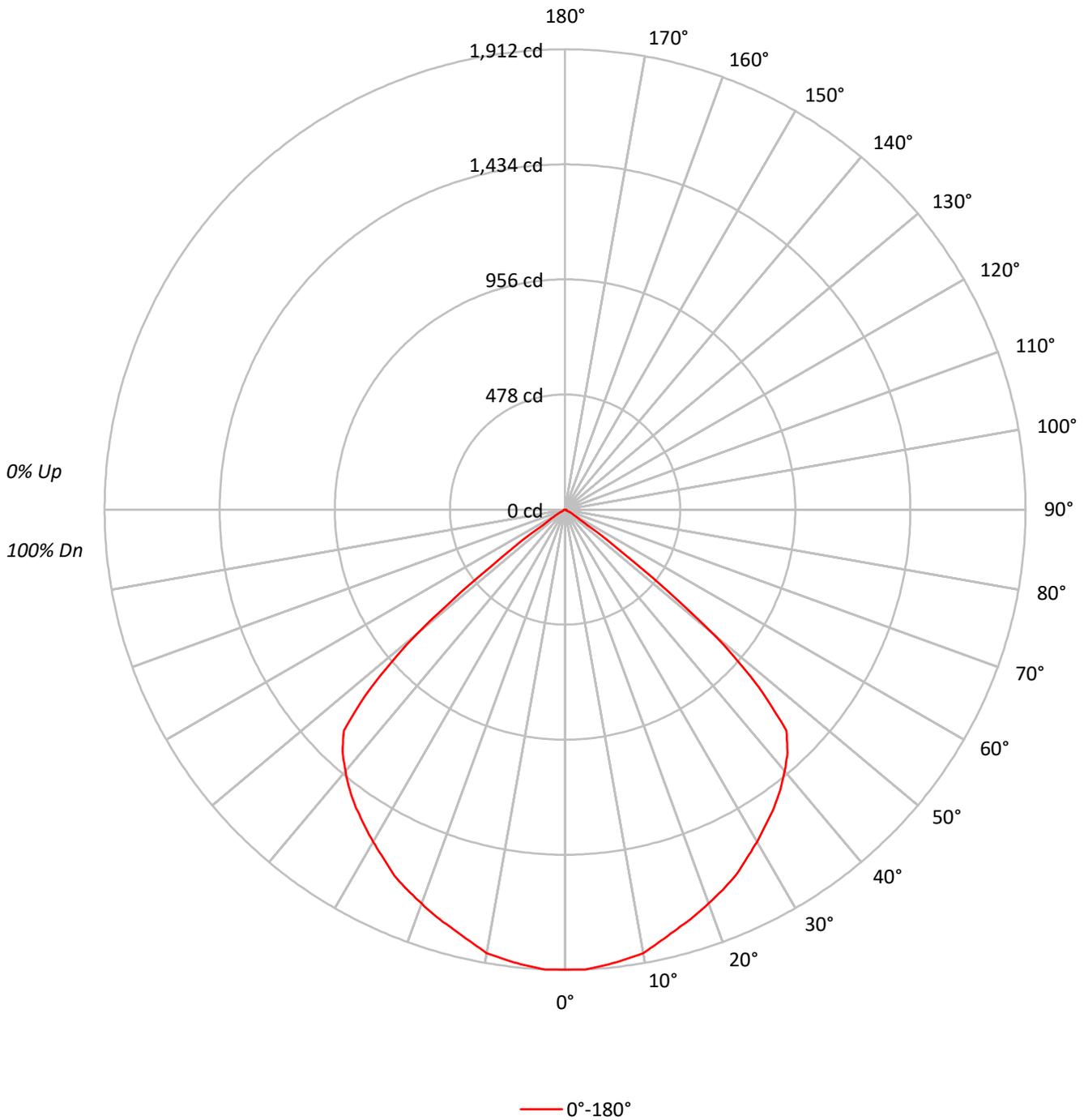
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3568.4 lumens  
Efficiency: N/A  
Efficacy: 121.0 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): 29.5  
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									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	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°	19239
5°	19211
10°	19128
15°	18790
20°	18659
25°	18635
30°	18526
35°	18589
40°	18644
45°	18496
50°	12659
55°	1973
60°	487
65°	102
70°	127
75°	167
80°	249
85°	162

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18496 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.5	5.1
10°-20°	509.7	14.3
20°-30°	771.9	21.6
30°-40°	946.3	26.5
40°-50°	936.8	26.3
50°-60°	208.9	5.9
60°-70°	7.7	0.2
70°-80°	4.5	0.1
80°-90°	2.1	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°	1462.0	41.0
0°-40°	2408.3	67.5
0°-60°	3554.0	99.6
0°-90°	3568.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3568.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1911	
5°	1901	180
15°	1802	510
25°	1677	772
35°	1512	946
45°	1299	937
55°	112	209
65°	4	8
75°	4	5
85°	1	2
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1910.7
2.5°	1912.1
5°	1900.7
7.5°	1886.5
10°	1870.8
12.5°	1835.3
15°	1802.5
17.5°	1774.1
20°	1741.4
22.5°	1710.1
25°	1677.3
27.5°	1633.2
30°	1593.4
32.5°	1552.2
35°	1512.3
37.5°	1468.2
40°	1418.4
42.5°	1367.2
45°	1298.9
47.5°	1091.2
50°	808.1
52.5°	377.0
55°	112.4
57.5°	54.1
60°	24.2
62.5°	8.5
65°	4.3
67.5°	4.3
70°	4.3
72.5°	4.3
75°	4.3
77.5°	4.3
80°	4.3
82.5°	2.8
85°	1.4
87.5°	1.4
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	4.10	5.40	4.46	5.71	6.03	4.10	5.40	4.46	5.71	6.03
	3H	4.01	5.15	4.39	5.48	5.84	4.01	5.15	4.39	5.48	5.84
	4H	3.99	5.04	4.39	5.39	5.77	3.99	5.04	4.39	5.39	5.77
	6H	4.01	4.97	4.42	5.34	5.74	4.01	4.97	4.42	5.34	5.74
	8H	4.01	4.92	4.45	5.32	5.72	4.01	4.92	4.45	5.32	5.72
	12H	4.00	4.87	4.43	5.25	5.68	4.00	4.87	4.43	5.25	5.68
4H	2H	3.90	4.95	4.31	5.31	5.69	3.90	4.95	4.31	5.31	5.69
	3H	3.84	4.68	4.25	5.08	5.49	3.84	4.68	4.25	5.08	5.49
	4H	3.83	4.58	4.27	5.00	5.45	3.83	4.58	4.27	5.00	5.45
	6H	3.93	4.57	4.39	5.02	5.49	3.93	4.57	4.39	5.02	5.49
	8H	3.96	4.56	4.43	5.00	5.48	3.96	4.56	4.43	5.00	5.48
	12H	3.95	4.48	4.44	4.97	5.44	3.95	4.48	4.44	4.97	5.44
8H	4H	3.75	4.35	4.22	4.79	5.27	3.75	4.35	4.22	4.79	5.27
	6H	3.89	4.39	4.39	4.88	5.37	3.89	4.39	4.39	4.88	5.37
	8H	3.95	4.40	4.47	4.91	5.41	3.95	4.40	4.47	4.91	5.41
	12H	3.98	4.38	4.49	4.87	5.45	3.98	4.38	4.49	4.87	5.45
12H	4H	3.71	4.24	4.20	4.73	5.20	3.71	4.24	4.20	4.73	5.20
	6H	3.86	4.31	4.38	4.82	5.32	3.86	4.31	4.38	4.82	5.32
	8H	3.95	4.35	4.46	4.85	5.42	3.95	4.35	4.46	4.85	5.42