

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: P979532

Luminaire Tested: PRLX-240-940-LL4-F-U-S-BLAK-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979532  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-240-940-LL4-F-U-S-BLAK-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 240 SHADE WITH FROSTED LENS  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

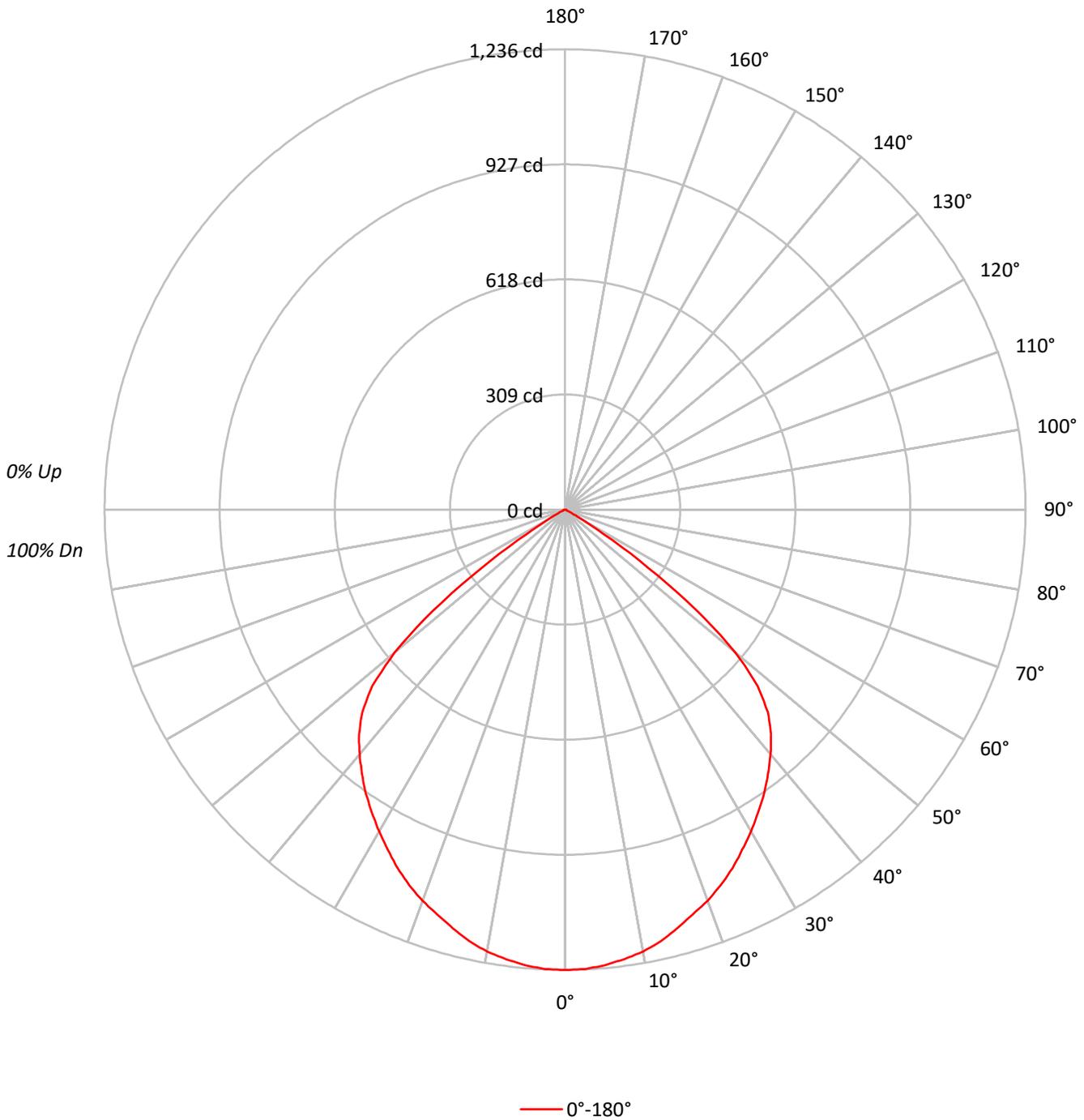
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2366.2 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.33  
Luminous Opening: Circular (Dia: 1.17' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 20.5  
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	112	109	106	103	110	106	104	101	102	100	98	99	97	95	95	94	92	90			90	
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81			81	
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72			72	
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64			64	
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57			57	
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51			51	
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	57	51	47	46			46	
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43	41			41	
9	64	52	45	40	63	51	44	40	50	44	39	49	43	39	48	43	39	37			37	
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34			34	

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

0°	
0°	12448
5°	12412
10°	12322
15°	12131
20°	11981
25°	11811
30°	11601
35°	11449
40°	11274
45°	10959
50°	9342
55°	4770
60°	773
65°	98
70°	91
75°	121
80°	122
85°	116

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10959 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.5	4.9
10°-20°	328.4	13.9
20°-30°	489.3	20.7
30°-40°	582.3	24.6
40°-50°	581.3	24.6
50°-60°	255.0	10.8
60°-70°	8.8	0.4
70°-80°	3.1	0.1
80°-90°	1.4	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°	934.2	39.5
0°-40°	1516.6	64.1
0°-60°	2352.9	99.4
0°-90°	2366.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2366.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1236	
5°	1228	116
15°	1164	328
25°	1063	489
35°	931	582
45°	770	581
55°	272	255
65°	4	9
75°	3	3
85°	1	1
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1236.3
2.5°	1235.3
5°	1228.0
7.5°	1217.6
10°	1205.2
12.5°	1187.6
15°	1163.7
17.5°	1139.8
20°	1118.1
22.5°	1092.1
25°	1063.1
27.5°	1029.9
30°	997.8
32.5°	964.6
35°	931.4
37.5°	895.1
40°	857.7
42.5°	818.3
45°	769.6
47.5°	701.1
50°	596.4
52.5°	448.1
55°	271.7
57.5°	122.4
60°	38.4
62.5°	8.3
65°	4.1
67.5°	3.1
70°	3.1
72.5°	3.1
75°	3.1
77.5°	3.1
80°	2.1
82.5°	2.1
85°	1.0
87.5°	1.0
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	11.06	12.41	11.43	12.72	13.04	11.06	12.41	11.43	12.72	13.04
	3H	10.94	12.12	11.32	12.45	12.82	10.94	12.12	11.32	12.45	12.82
	4H	10.88	11.97	11.28	12.32	12.70	10.88	11.97	11.28	12.32	12.70
	6H	10.81	11.81	11.22	12.18	12.57	10.81	11.81	11.22	12.18	12.57
	8H	10.77	11.71	11.20	12.11	12.51	10.77	11.71	11.20	12.11	12.51
	12H	10.73	11.63	11.16	12.02	12.45	10.73	11.63	11.16	12.02	12.45
4H	2H	10.87	11.96	11.27	12.31	12.70	10.87	11.96	11.27	12.31	12.70
	3H	10.75	11.62	11.16	12.03	12.43	10.75	11.62	11.16	12.03	12.43
	4H	10.67	11.45	11.11	11.87	12.31	10.67	11.45	11.11	11.87	12.31
	6H	10.60	11.27	11.06	11.71	12.18	10.60	11.27	11.06	11.71	12.18
	8H	10.55	11.17	11.02	11.62	12.09	10.55	11.17	11.02	11.62	12.09
	12H	10.51	11.06	10.99	11.54	12.02	10.51	11.06	10.99	11.54	12.02
8H	4H	10.53	11.16	11.00	11.60	12.08	10.53	11.16	11.00	11.60	12.08
	6H	10.44	10.96	10.94	11.45	11.93	10.44	10.96	10.94	11.45	11.93
	8H	10.38	10.85	10.91	11.37	11.86	10.38	10.85	10.91	11.37	11.86
	12H	10.34	10.76	10.85	11.26	11.83	10.34	10.76	10.85	11.26	11.83
12H	4H	10.48	11.04	10.97	11.52	11.99	10.48	11.04	10.97	11.52	11.99
	6H	10.37	10.84	10.90	11.36	11.85	10.37	10.84	10.90	11.36	11.85
	8H	10.33	10.76	10.85	11.25	11.82	10.33	10.76	10.85	11.25	11.82