

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: P979531

Luminaire Tested: PRLX-240-940-LL4-C-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979531  
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-240-940-LL4-C-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH CLEAR LENS  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

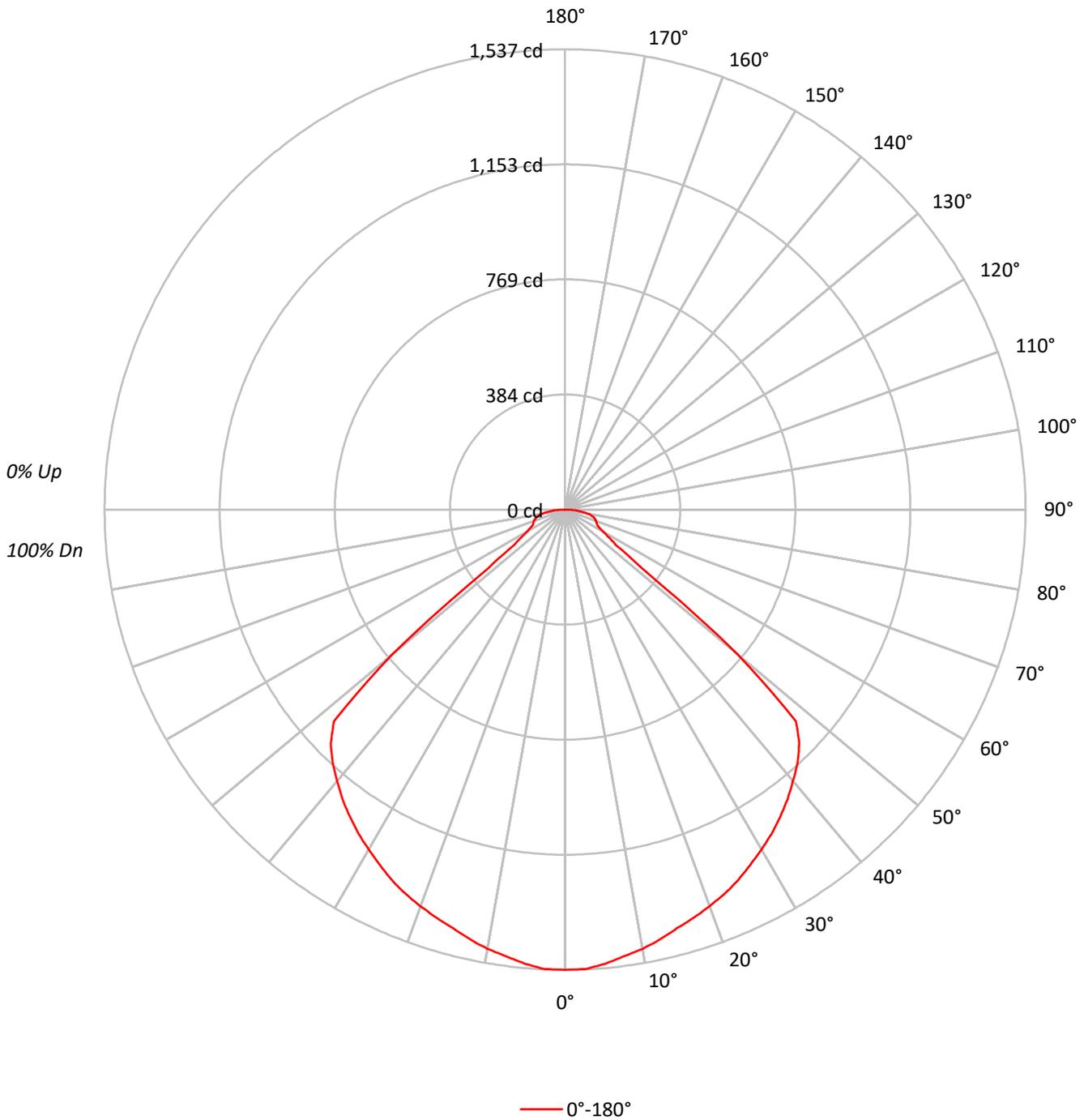
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3308.0 lumens  
Efficiency: N/A  
Efficacy: 160.6 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): 20.6  
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	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	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88																																				
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77																																				
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68																																				
4	88	78	70	64	86	77	70	64	74	68	63	72	67	62	70	65	62	60																																				
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53																																				
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47																																				
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42																																				
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38																																				
9	62	50	42	37	61	49	42	37	48	41	37	47	41	36	46	40	36	35																																				
10	58	46	38	34	57	45	38	34	44	38	33	43	37	33	43	37	33	32																																				

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

0°	
0°	15477
5°	15390
10°	15228
15°	15083
20°	15103
25°	15176
30°	15243
35°	15388
40°	15555
45°	15743
50°	11763
55°	3660
60°	2924
65°	2816
70°	3235
75°	3832
80°	4389
85°	4309

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15743 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.2	4.4
10°-20°	409.5	12.4
20°-30°	629.7	19.0
30°-40°	784.0	23.7
40°-50°	822.4	24.9
50°-60°	254.3	7.7
60°-70°	120.5	3.6
70°-80°	101.8	3.1
80°-90°	41.6	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°	1183.5	35.8
0°-40°	1967.5	59.5
0°-60°	3044.2	92.0
0°-90°	3308.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3308.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1537	
5°	1523	144
15°	1447	410
25°	1366	630
35°	1252	784
45°	1106	822
55°	208	254
65°	118	120
75°	98	102
85°	37	42
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1537.1
2.5°	1536.0
5°	1522.6
7.5°	1504.9
10°	1489.4
12.5°	1469.7
15°	1446.9
17.5°	1429.2
20°	1409.5
22.5°	1389.8
25°	1366.0
27.5°	1337.9
30°	1311.0
32.5°	1283.0
35°	1251.9
37.5°	1219.7
40°	1183.4
42.5°	1148.1
45°	1105.6
47.5°	1045.5
50°	750.9
52.5°	322.6
55°	208.5
57.5°	173.2
60°	145.2
62.5°	126.5
65°	118.2
67.5°	114.1
70°	109.9
72.5°	104.8
75°	98.5
77.5°	89.2
80°	75.7
82.5°	57.0
85°	37.3
87.5°	20.7
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	12.50	13.93	12.86	14.24	14.55	12.50	13.93	12.86	14.24	14.55
	3H	14.46	15.73	14.84	16.06	16.42	14.46	15.73	14.84	16.06	16.42
	4H	15.62	16.80	16.02	17.15	17.53	15.62	16.80	16.02	17.15	17.53
	6H	16.75	17.84	17.17	18.21	18.60	16.75	17.84	17.17	18.21	18.60
	8H	17.18	18.21	17.61	18.60	19.01	17.18	18.21	17.61	18.60	19.01
	12H	17.48	18.47	17.92	18.86	19.29	17.48	18.47	17.92	18.86	19.29
4H	2H	13.01	14.19	13.41	14.54	14.92	13.01	14.19	13.41	14.54	14.92
	3H	15.38	16.34	15.79	16.75	17.15	15.38	16.34	15.79	16.75	17.15
	4H	16.75	17.62	17.19	18.04	18.48	16.75	17.62	17.19	18.04	18.48
	6H	18.08	18.83	18.54	19.28	19.74	18.08	18.83	18.54	19.28	19.74
	8H	18.57	19.28	19.04	19.73	20.20	18.57	19.28	19.04	19.73	20.20
	12H	18.94	19.57	19.43	20.05	20.53	18.94	19.57	19.43	20.05	20.53
8H	4H	17.29	17.99	17.75	18.44	18.91	17.29	17.99	17.75	18.44	18.91
	6H	18.79	19.38	19.29	19.87	20.35	18.79	19.38	19.29	19.87	20.35
	8H	19.39	19.93	19.91	20.44	20.93	19.39	19.93	19.91	20.44	20.93
	12H	19.87	20.35	20.39	20.84	21.41	19.87	20.35	20.39	20.84	21.41
12H	4H	17.38	18.01	17.87	18.49	18.96	17.38	18.01	17.87	18.49	18.96
	6H	18.93	19.46	19.45	19.97	20.46	18.93	19.46	19.45	19.97	20.46
	8H	19.61	20.09	20.12	20.58	21.15	19.61	20.09	20.12	20.58	21.15