

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: P979521

Luminaire Tested: PRLX-240-940-LL3-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979521
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-LL3-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

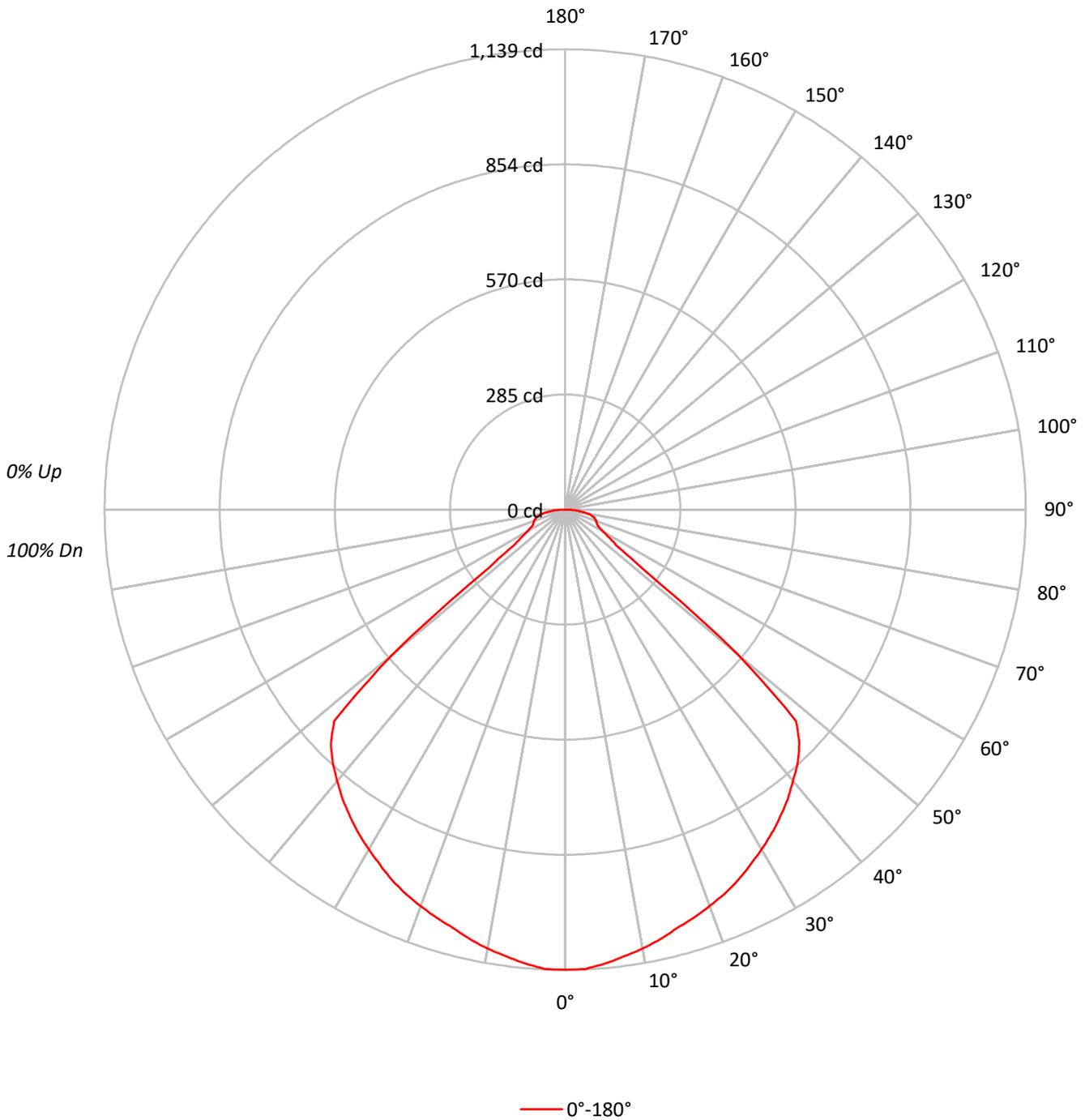
Lumens per Lamp: N/A
Luminaire Lumens: 2450.8 lumens
Efficiency: N/A
Efficacy: 163.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.43
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 15
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				
1	111	107	103	100	108	105	101	99	100	98	95	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°	11467
5°	11401
10°	11282
15°	11174
20°	11189
25°	11243
30°	11292
35°	11400
40°	11523
45°	11664
50°	8714
55°	2710
60°	2167
65°	2087
70°	2396
75°	2840
80°	3253
85°	3200

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11664 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	4.4
10°-20°	303.4	12.4
20°-30°	466.5	19.0
30°-40°	580.8	23.7
40°-50°	609.3	24.9
50°-60°	188.4	7.7
60°-70°	89.3	3.6
70°-80°	75.4	3.1
80°-90°	30.9	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°	876.8	35.8
0°-40°	1457.6	59.5
0°-60°	2255.2	92.0
0°-90°	2450.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2450.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1139	
5°	1128	107
15°	1072	303
25°	1012	467
35°	927	581
45°	819	609
55°	154	188
65°	88	89
75°	73	75
85°	28	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1138.8
2.5°	1138.0
5°	1128.0
7.5°	1114.9
10°	1103.4
12.5°	1088.8
15°	1071.9
17.5°	1058.8
20°	1044.2
22.5°	1029.6
25°	1012.0
27.5°	991.2
30°	971.2
32.5°	950.5
35°	927.4
37.5°	903.6
40°	876.7
42.5°	850.6
45°	819.1
47.5°	774.5
50°	556.3
52.5°	239.0
55°	154.4
57.5°	128.3
60°	107.6
62.5°	93.7
65°	87.6
67.5°	84.5
70°	81.4
72.5°	77.6
75°	73.0
77.5°	66.1
80°	56.1
82.5°	42.3
85°	27.7
87.5°	15.4
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	11.46	12.88	11.82	13.20	13.51	11.46	12.88	11.82	13.20	13.51
	3H	13.42	14.68	13.80	15.01	15.38	13.42	14.68	13.80	15.01	15.38
	4H	14.58	15.76	14.98	16.11	16.49	14.58	15.76	14.98	16.11	16.49
	6H	15.71	16.80	16.12	17.17	17.56	15.71	16.80	16.12	17.17	17.56
	8H	16.14	17.17	16.57	17.56	17.97	16.14	17.17	16.57	17.56	17.97
	12H	16.44	17.43	16.88	17.82	18.25	16.44	17.43	16.88	17.82	18.25
4H	2H	11.97	13.15	12.37	13.50	13.88	11.97	13.15	12.37	13.50	13.88
	3H	14.33	15.30	14.74	15.70	16.11	14.33	15.30	14.74	15.70	16.11
	4H	15.71	16.58	16.15	17.00	17.44	15.71	16.58	16.15	17.00	17.44
	6H	17.04	17.79	17.50	18.24	18.70	17.04	17.79	17.50	18.24	18.70
	8H	17.53	18.24	18.00	18.69	19.16	17.53	18.24	18.00	18.69	19.16
	12H	17.90	18.53	18.39	19.02	19.49	17.90	18.53	18.39	19.02	19.49
8H	4H	16.24	16.95	16.71	17.40	17.87	16.24	16.95	16.71	17.40	17.87
	6H	17.75	18.34	18.25	18.83	19.31	17.75	18.34	18.25	18.83	19.31
	8H	18.35	18.89	18.87	19.40	19.89	18.35	18.89	18.87	19.40	19.89
	12H	18.84	19.31	19.35	19.81	20.37	18.84	19.31	19.35	19.81	20.37
12H	4H	16.34	16.97	16.82	17.45	17.92	16.34	16.97	16.82	17.45	17.92
	6H	17.89	18.42	18.40	18.93	19.42	17.89	18.42	18.40	18.93	19.42
	8H	18.57	19.05	19.08	19.54	20.11	18.57	19.05	19.08	19.54	20.11