

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: P979501

Luminaire Tested: PRLX-240-940-LL1-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979501
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-LL1-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: 1277.6 lumens
Efficiency: N/A
Efficacy: 170.3 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

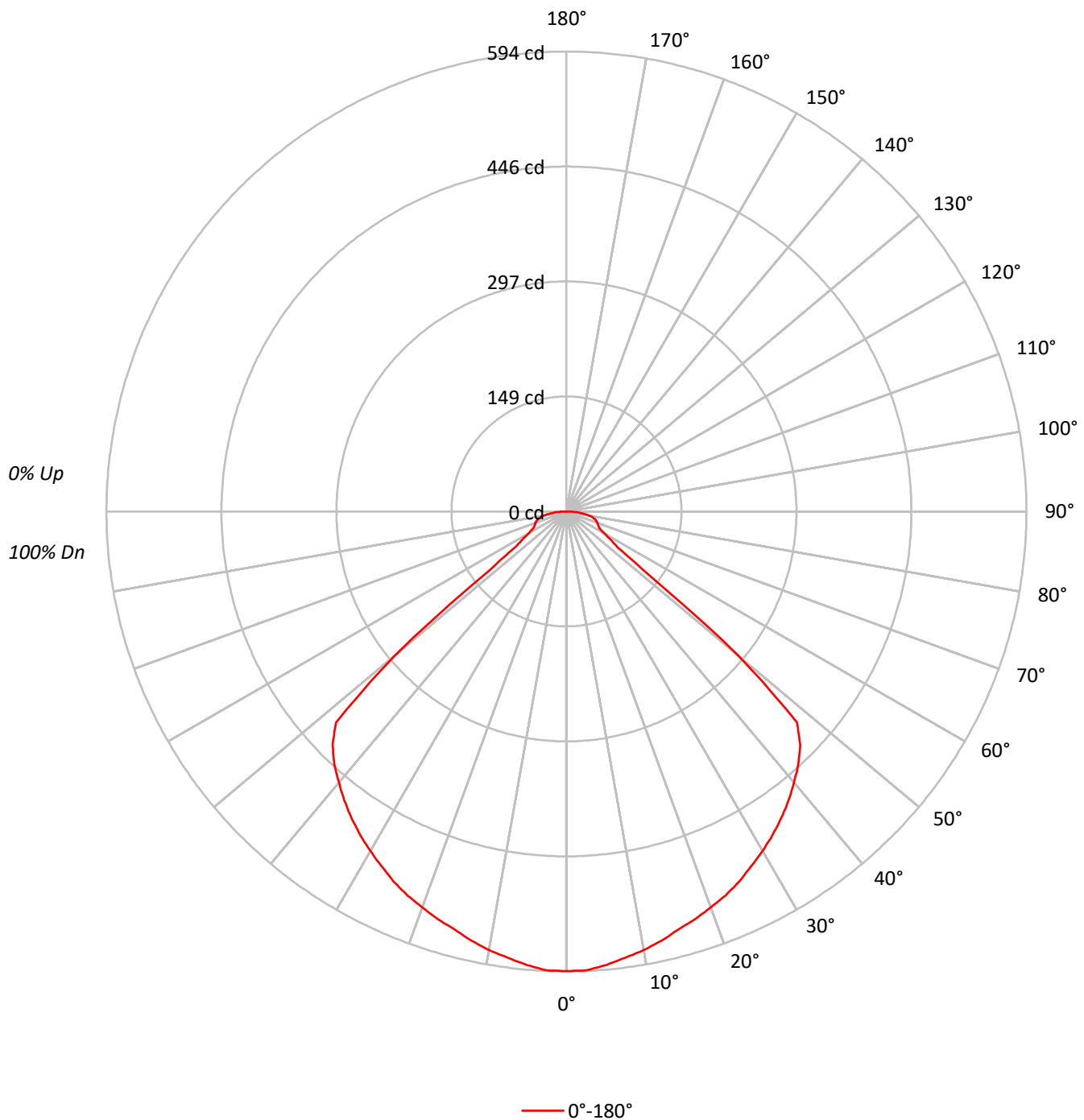
Input Watts (W): 7.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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
RW	70	50	30	10	70	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		100
1	111	107	103	100	108	105	101	99	100	98	95		97	95	93		88
2	103	96	90	85	100	94	89	84	91	86	83		87	84	81		77
3	95	86	79	74	93	85	78	73	82	76	72		79	75	71		68
4	88	78	70	64	86	77	70	64	74	68	63		72	67	62		60
5	82	71	63	57	80	69	62	57	67	61	56		66	60	55		53
6	76	64	56	51	74	63	56	50	62	55	50		60	54	50		47
7	71	59	51	45	69	58	50	45	56	50	45		55	49	44		42
8	66	54	46	41	65	53	46	41	52	45	40		51	45	40		38
9	62	50	42	37	61	49	42	37	48	41	37		47	41	36		35
10	58	46	38	34	57	45	38	34	44	38	33		43	37	33		32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5977
5°	5943
10°	5881
15°	5825
20°	5832
25°	5860
30°	5887
35°	5943
40°	6007
45°	6080
50°	4543
55°	1413
60°	1130
65°	1089
70°	1251
75°	1482
80°	1693
85°	1664

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6080 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	4.4
10°-20°	158.2	12.4
20°-30°	243.2	19.0
30°-40°	302.8	23.7
40°-50°	317.6	24.9
50°-60°	98.2	7.7
60°-70°	46.6	3.6
70°-80°	39.3	3.1
80°-90°	16.1	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°	457.1	35.8
0°-40°	759.8	59.5
0°-60°	1175.6	92.0
0°-90°	1277.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1277.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	594	
5°	588	56
15°	559	158
25°	528	243
35°	484	303
45°	427	318
55°	80	98
65°	46	47
75°	38	39
85°	14	16
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	593.6
2.5°	593.2
5°	588.0
7.5°	581.2
10°	575.2
12.5°	567.6
15°	558.8
17.5°	552.0
20°	544.3
22.5°	536.7
25°	527.5
27.5°	516.7
30°	506.3
32.5°	495.5
35°	483.5
37.5°	471.0
40°	457.0
42.5°	443.4
45°	427.0
47.5°	403.7
50°	290.0
52.5°	124.6
55°	80.5
57.5°	66.9
60°	56.1
62.5°	48.9
65°	45.7
67.5°	44.1
70°	42.5
72.5°	40.5
75°	38.1
77.5°	34.4
80°	29.2
82.5°	22.0
85°	14.4
87.5°	8.0
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	9.20	10.62	9.56	10.93	11.25	9.20	10.62	9.56	10.93	11.25
	3H	11.16	12.43	11.54	12.76	13.12	11.16	12.43	11.54	12.76	13.12
	4H	12.32	13.50	12.72	13.85	14.23	12.32	13.50	12.72	13.85	14.23
	6H	13.45	14.54	13.86	14.91	15.30	13.45	14.54	13.86	14.91	15.30
	8H	13.87	14.91	14.30	15.30	15.70	13.87	14.91	14.30	15.30	15.70
	12H	14.18	15.17	14.61	15.55	15.98	14.18	15.17	14.61	15.55	15.98
4H	2H	9.70	10.89	10.11	11.24	11.62	9.70	10.89	10.11	11.24	11.62
	3H	12.07	13.04	12.49	13.45	13.85	12.07	13.04	12.49	13.45	13.85
	4H	13.45	14.32	13.89	14.74	15.18	13.45	14.32	13.89	14.74	15.18
	6H	14.77	15.53	15.23	15.97	16.44	14.77	15.53	15.23	15.97	16.44
	8H	15.27	15.98	15.74	16.42	16.89	15.27	15.98	15.74	16.42	16.89
	12H	15.64	16.27	16.12	16.75	17.22	15.64	16.27	16.12	16.75	17.22
8H	4H	13.99	14.69	14.45	15.14	15.61	13.99	14.69	14.45	15.14	15.61
	6H	15.48	16.07	15.98	16.57	17.04	15.48	16.07	15.98	16.57	17.04
	8H	16.09	16.62	16.60	17.13	17.62	16.09	16.62	16.60	17.13	17.62
	12H	16.57	17.04	17.08	17.54	18.10	16.57	17.04	17.08	17.54	18.10
12H	4H	14.08	14.71	14.56	15.19	15.66	14.08	14.71	14.56	15.19	15.66
	6H	15.62	16.16	16.14	16.67	17.16	15.62	16.16	16.14	16.67	17.16
	8H	16.30	16.78	16.81	17.27	17.84	16.30	16.78	16.81	17.27	17.84

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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