

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: P979511

Luminaire Tested: PRLX-240-940-LL2-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979511
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-LL2-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: 1867.5 lumens
Efficiency: N/A
Efficacy: 169.8 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

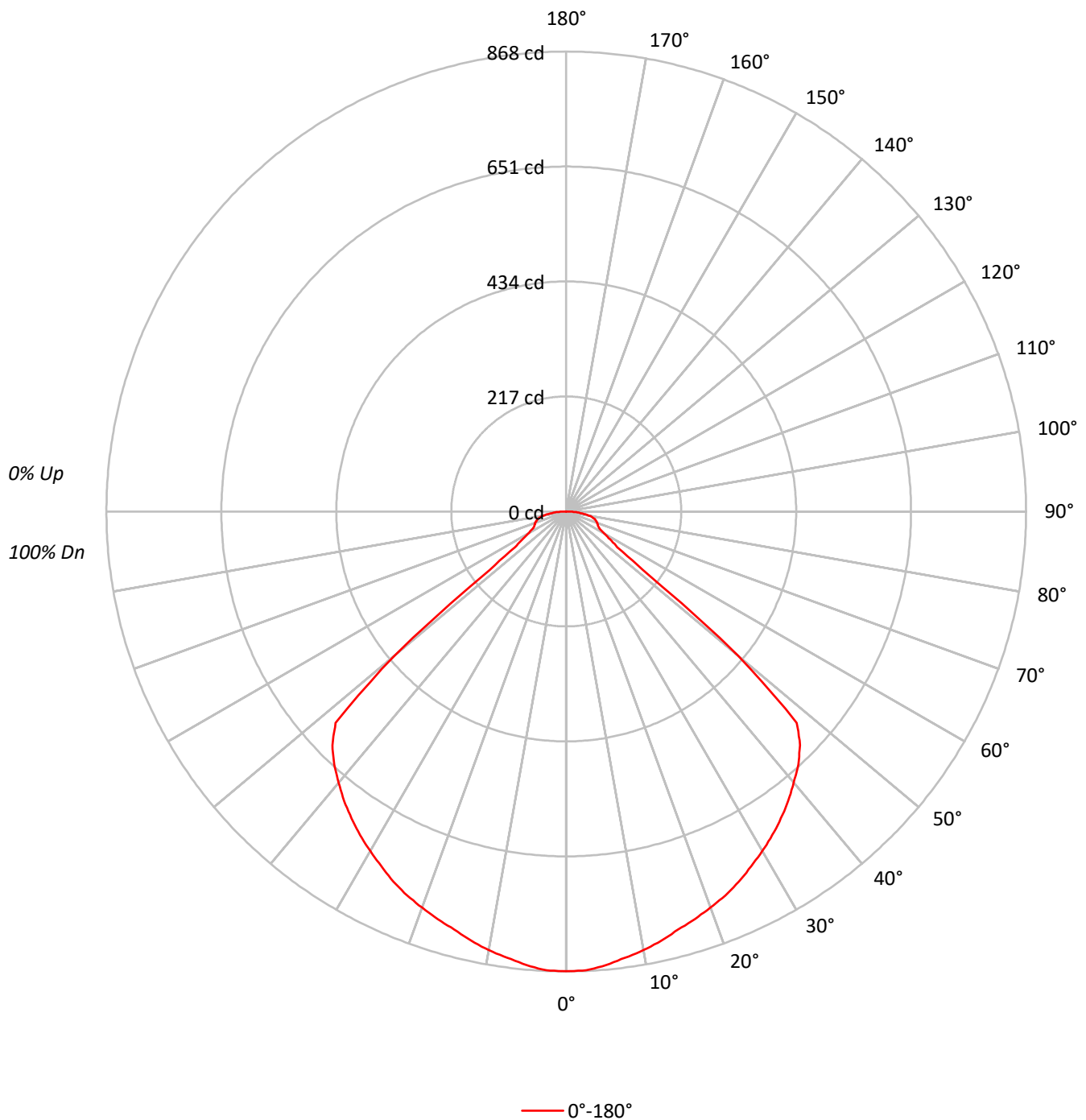
Input Watts (W): 11
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	8737
5°	8687
10°	8597
15°	8514
20°	8526
25°	8567
30°	8605
35°	8687
40°	8782
45°	8887
50°	6640
55°	2066
60°	1651
65°	1589
70°	1828
75°	2163
80°	2476
85°	2438

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 8887 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.4	4.4
10°-20°	231.2	12.4
20°-30°	355.5	19.0
30°-40°	442.6	23.7
40°-50°	464.3	24.9
50°-60°	143.5	7.7
60°-70°	68.0	3.6
70°-80°	57.5	3.1
80°-90°	23.5	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°	668.1	35.8
0°-40°	1110.7	59.5
0°-60°	1718.5	92.0
0°-90°	1867.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1867.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	868	
5°	860	81
15°	817	231
25°	771	356
35°	707	443
45°	624	464
55°	118	144
65°	67	68
75°	56	57
85°	21	23
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	867.7
2.5°	867.1
5°	859.5
7.5°	849.6
10°	840.8
12.5°	829.7
15°	816.8
17.5°	806.8
20°	795.7
22.5°	784.6
25°	771.1
27.5°	755.3
30°	740.1
32.5°	724.3
35°	706.7
37.5°	688.5
40°	668.1
42.5°	648.1
45°	624.1
47.5°	590.2
50°	423.9
52.5°	182.1
55°	117.7
57.5°	97.8
60°	82.0
62.5°	71.4
65°	66.7
67.5°	64.4
70°	62.1
72.5°	59.1
75°	55.6
77.5°	50.4
80°	42.7
82.5°	32.2
85°	21.1
87.5°	11.7
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	10.52	11.94	10.88	12.25	12.57	10.52	11.94	10.88	12.25	12.57
	3H	12.48	13.74	12.86	14.07	14.44	12.48	13.74	12.86	14.07	14.44
	4H	13.64	14.82	14.04	15.17	15.55	13.64	14.82	14.04	15.17	15.55
	6H	14.77	15.86	15.18	16.22	16.62	14.77	15.86	15.18	16.22	16.62
	8H	15.19	16.23	15.62	16.62	17.02	15.19	16.23	15.62	16.62	17.02
	12H	15.50	16.49	15.93	16.87	17.30	15.50	16.49	15.93	16.87	17.30
4H	2H	11.02	12.20	11.42	12.55	12.93	11.02	12.20	11.42	12.55	12.93
	3H	13.39	14.36	13.80	14.76	15.16	13.39	14.36	13.80	14.76	15.16
	4H	14.77	15.64	15.20	16.05	16.49	14.77	15.64	15.20	16.05	16.49
	6H	16.09	16.85	16.55	17.29	17.75	16.09	16.85	16.55	17.29	17.75
	8H	16.59	17.30	17.05	17.74	18.21	16.59	17.30	17.05	17.74	18.21
	12H	16.96	17.59	17.44	18.07	18.54	16.96	17.59	17.44	18.07	18.54
8H	4H	15.30	16.01	15.77	16.45	16.92	15.30	16.01	15.77	16.45	16.92
	6H	16.80	17.39	17.30	17.89	18.36	16.80	17.39	17.30	17.89	18.36
	8H	17.41	17.94	17.93	18.45	18.94	17.41	17.94	17.93	18.45	18.94
	12H	17.89	18.37	18.40	18.86	19.43	17.89	18.37	18.40	18.86	19.43
12H	4H	15.39	16.03	15.88	16.51	16.98	15.39	16.03	15.88	16.51	16.98
	6H	16.94	17.48	17.46	17.99	18.48	16.94	17.48	17.46	17.99	18.48
	8H	17.62	18.10	18.14	18.59	19.16	17.62	18.10	18.14	18.59	19.16

END OF REPORT