

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P979571

Luminaire Tested: PRLX-240-940-74L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979571
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-240-940-74L-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

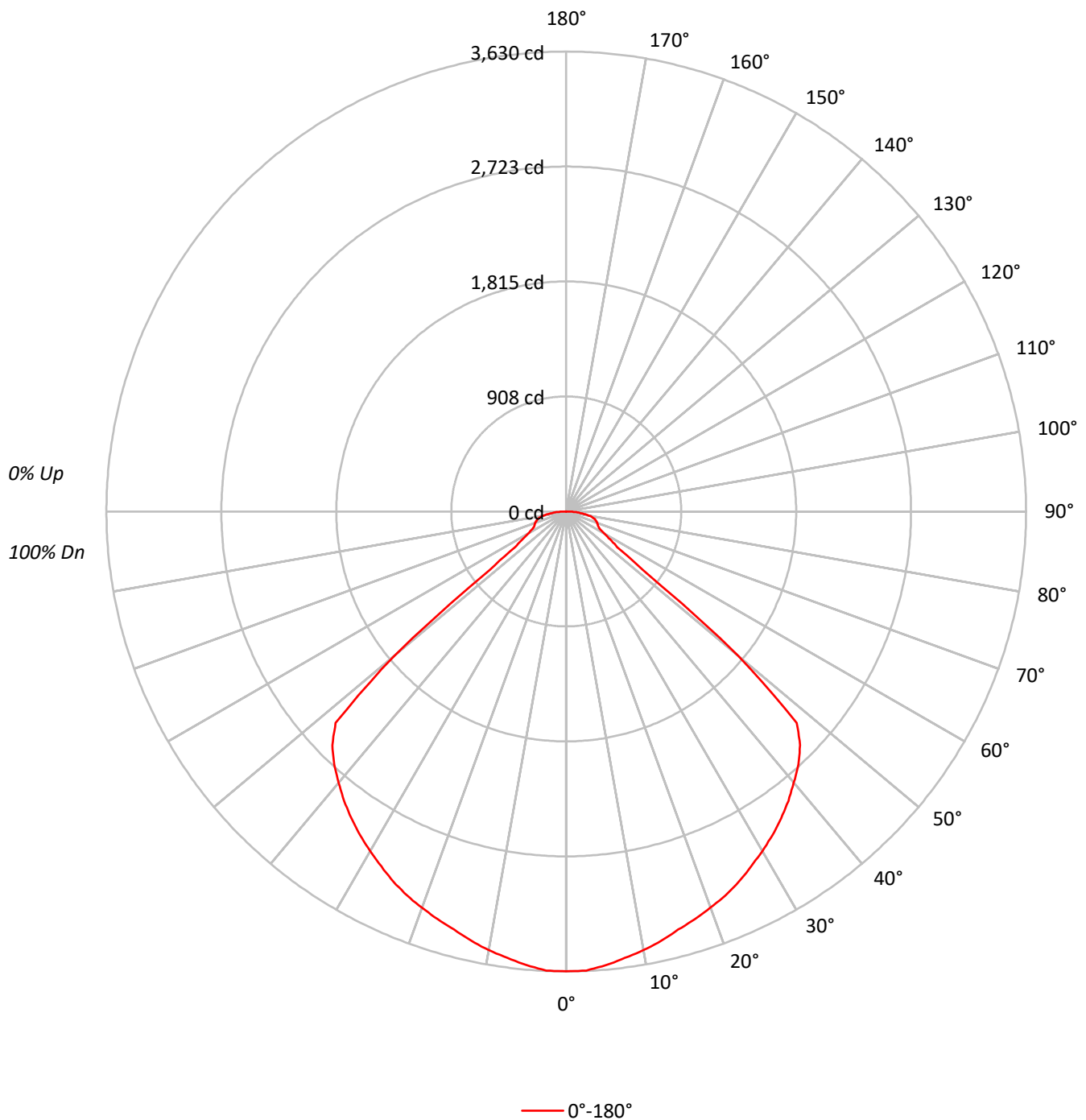
Lumens per Lamp: N/A
Luminaire Lumens: 7811.4 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.43
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 61.5
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°	36545
5°	36338
10°	35957
15°	35613
20°	35663
25°	35834
30°	35992
35°	36335
40°	36730
45°	37176
50°	27775
55°	8642
60°	6905
65°	6652
70°	7643
75°	9053
80°	10368
85°	10190

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 37176 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.5	4.4
10°-20°	967.0	12.4
20°-30°	1487.0	19.0
30°-40°	1851.2	23.7
40°-50°	1942.0	24.9
50°-60°	600.4	7.7
60°-70°	284.6	3.6
70°-80°	240.4	3.1
80°-90°	98.3	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°	2794.6	35.8
0°-40°	4645.7	59.5
0°-60°	7188.2	92.0
0°-90°	7811.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7811.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3630	
5°	3595	341
15°	3416	967
25°	3225	1487
35°	2956	1851
45°	2611	1942
55°	492	600
65°	279	285
75°	233	240
85°	88	98
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3629.5
2.5°	3627.0
5°	3595.2
7.5°	3553.6
10°	3516.8
12.5°	3470.3
15°	3416.4
17.5°	3374.8
20°	3328.3
22.5°	3281.7
25°	3225.4
27.5°	3159.3
30°	3095.6
32.5°	3029.5
35°	2956.0
37.5°	2880.1
40°	2794.4
42.5°	2711.1
45°	2610.7
47.5°	2468.6
50°	1773.1
52.5°	761.7
55°	492.3
57.5°	409.0
60°	342.9
62.5°	298.8
65°	279.2
67.5°	269.4
70°	259.6
72.5°	247.4
75°	232.7
77.5°	210.6
80°	178.8
82.5°	134.7
85°	88.2
87.5°	49.0
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	15.49	16.91	15.85	17.22	17.54	15.49	16.91	15.85	17.22	17.54
	3H	17.45	18.71	17.83	19.04	19.41	17.45	18.71	17.83	19.04	19.41
	4H	18.61	19.79	19.01	20.14	20.52	18.61	19.79	19.01	20.14	20.52
	6H	19.74	20.83	20.15	21.20	21.59	19.74	20.83	20.15	21.20	21.59
	8H	20.17	21.20	20.59	21.59	21.99	20.17	21.20	20.59	21.59	21.99
	12H	20.47	21.46	20.90	21.84	22.27	20.47	21.46	20.90	21.84	22.27
4H	2H	15.99	17.18	16.39	17.53	17.91	15.99	17.18	16.39	17.53	17.91
	3H	18.36	19.33	18.77	19.73	20.13	18.36	19.33	18.77	19.73	20.13
	4H	19.74	20.61	20.17	21.03	21.47	19.74	20.61	20.17	21.03	21.47
	6H	21.06	21.82	21.52	22.26	22.73	21.06	21.82	21.52	22.26	22.73
	8H	21.56	22.27	22.03	22.71	23.18	21.56	22.27	22.03	22.71	23.18
	12H	21.93	22.56	22.41	23.04	23.51	21.93	22.56	22.41	23.04	23.51
8H	4H	20.27	20.98	20.74	21.43	21.89	20.27	20.98	20.74	21.43	21.89
	6H	21.78	22.36	22.28	22.86	23.34	21.78	22.36	22.28	22.86	23.34
	8H	22.38	22.91	22.90	23.43	23.92	22.38	22.91	22.90	23.43	23.92
	12H	22.86	23.34	23.37	23.83	24.40	22.86	23.34	23.37	23.83	24.40
12H	4H	20.37	21.00	20.85	21.48	21.95	20.37	21.00	20.85	21.48	21.95
	6H	21.92	22.45	22.43	22.96	23.45	21.92	22.45	22.43	22.96	23.45
	8H	22.60	23.07	23.11	23.57	24.13	22.60	23.07	23.11	23.57	24.13