

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: P979413

Luminaire Tested: PRLX-240-930-74L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979413
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-930-74L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH FROSTED LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

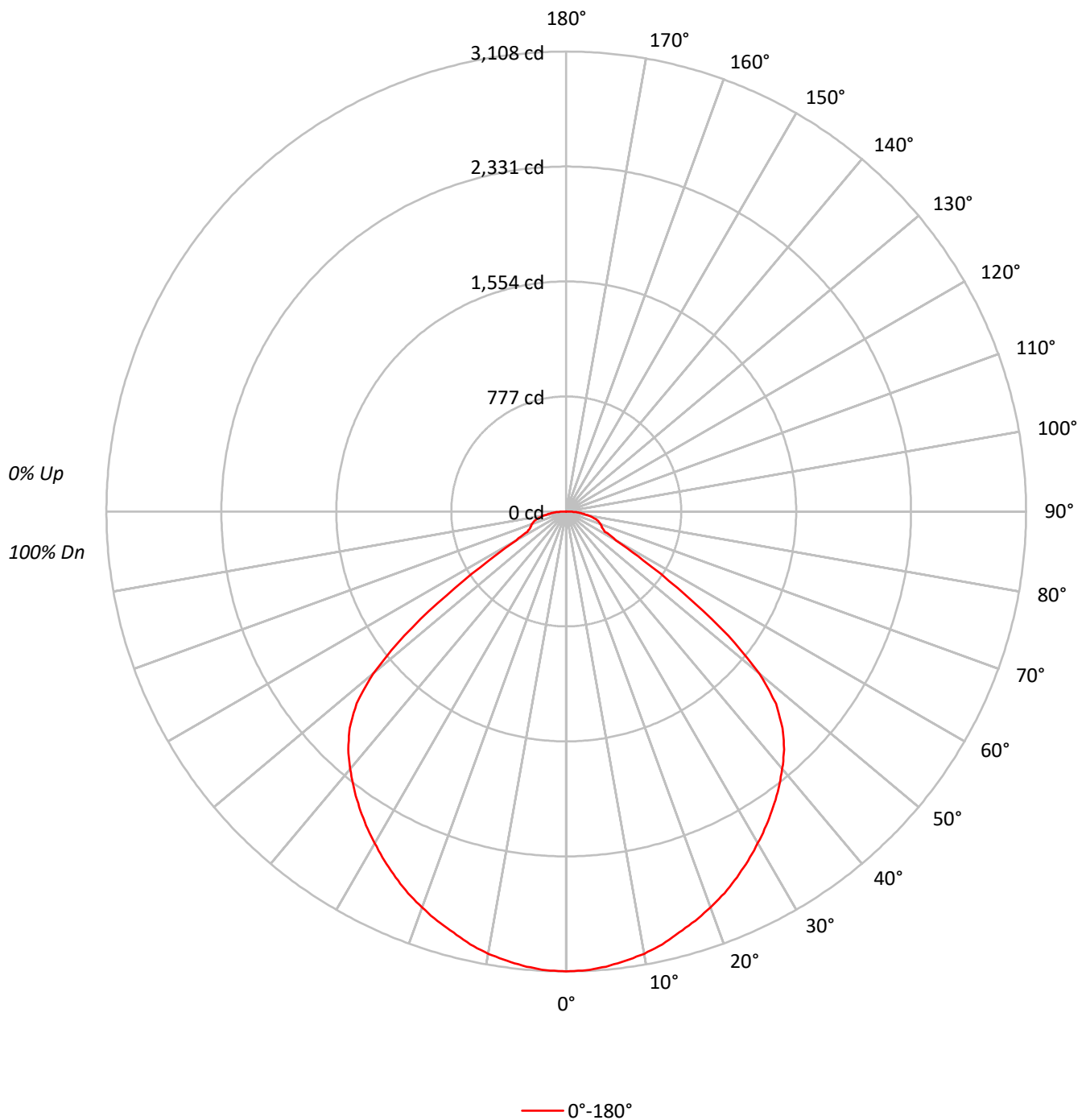
Lumens per Lamp: N/A
Luminaire Lumens: 6955.8 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	103	100	108	104	101	98	100	98	95		96	94	92		93
2	102	95	89	84	100	93	88	83	90	85	82		87	83	80		84
3	94	85	78	72	92	84	77	72	81	75	71		78	73	69		76
4	87	77	69	63	85	75	68	62	73	67	62		71	65	61		69
5	81	69	61	55	79	68	61	55	66	59	54		64	58	54		62
6	75	63	55	49	73	62	54	49	60	53	48		59	52	48		57
7	70	57	49	44	68	56	49	43	55	48	43		54	47	43		52
8	65	52	45	39	64	52	44	39	50	44	39		49	43	39		48
9	61	48	41	35	59	48	40	35	47	40	35		46	39	35		45
10	57	45	37	32	56	44	37	32	43	37	32		42	36	32		41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	31298
5°	31210
10°	31033
15°	30711
20°	30515
25°	30318
30°	30107
35°	29976
40°	29861
45°	29453
50°	26672
55°	17334
60°	7824
65°	6426
70°	7266
75°	8092
80°	8483
85°	8711

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 29453 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.0	4.2
10°-20°	832.4	12.0
20°-30°	1257.9	18.1
30°-40°	1526.5	21.9
40°-50°	1573.7	22.6
50°-60°	892.6	12.8
60°-70°	282.3	4.1
70°-80°	215.4	3.1
80°-90°	82.1	1.2
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°	2383.3	34.3
0°-40°	3909.8	56.2
0°-60°	6376.0	91.7
0°-90°	6955.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6955.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3108	
5°	3088	293
15°	2946	832
25°	2729	1258
35°	2439	1526
45°	2068	1574
55°	987	893
65°	270	282
75°	208	215
85°	75	82
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3108.4
2.5°	3103.8
5°	3087.8
7.5°	3062.6
10°	3035.2
12.5°	2996.4
15°	2946.1
17.5°	2900.4
20°	2847.8
22.5°	2792.9
25°	2728.9
27.5°	2660.4
30°	2589.5
32.5°	2516.4
35°	2438.7
37.5°	2358.7
40°	2271.8
42.5°	2180.4
45°	2068.4
47.5°	1922.1
50°	1702.7
52.5°	1380.5
55°	987.4
57.5°	619.4
60°	388.5
62.5°	294.8
65°	269.7
67.5°	258.3
70°	246.8
72.5°	230.8
75°	208.0
77.5°	180.6
80°	146.3
82.5°	112.0
85°	75.4
87.5°	41.1
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	18.60	20.07	18.97	20.38	20.70	18.60	20.07	18.97	20.38	20.70
	3H	19.49	20.80	19.87	21.13	21.49	19.49	20.80	19.87	21.13	21.49
	4H	20.10	21.32	20.50	21.67	22.05	20.10	21.32	20.50	21.67	22.05
	6H	20.70	21.82	21.11	22.19	22.58	20.70	21.82	21.11	22.19	22.58
	8H	20.94	22.01	21.37	22.40	22.80	20.94	22.01	21.37	22.40	22.80
	12H	21.12	22.14	21.55	22.53	22.96	21.12	22.14	21.55	22.53	22.96
4H	2H	18.73	19.95	19.13	20.30	20.68	18.73	19.95	19.13	20.30	20.68
	3H	19.97	20.97	20.38	21.37	21.77	19.97	20.97	20.38	21.37	21.77
	4H	20.79	21.69	21.22	22.10	22.54	20.79	21.69	21.22	22.10	22.54
	6H	21.60	22.38	22.06	22.82	23.28	21.60	22.38	22.06	22.82	23.28
	8H	21.92	22.64	22.38	23.09	23.56	21.92	22.64	22.38	23.09	23.56
	12H	22.18	22.83	22.66	23.31	23.78	22.18	22.83	22.66	23.31	23.78
8H	4H	21.10	21.83	21.57	22.28	22.75	21.10	21.83	21.57	22.28	22.75
	6H	22.07	22.68	22.57	23.17	23.65	22.07	22.68	22.57	23.17	23.65
	8H	22.50	23.05	23.01	23.56	24.05	22.50	23.05	23.01	23.56	24.05
	12H	22.86	23.36	23.37	23.85	24.42	22.86	23.36	23.37	23.85	24.42
12H	4H	21.15	21.80	21.63	22.28	22.75	21.15	21.80	21.63	22.28	22.75
	6H	22.16	22.71	22.67	23.22	23.71	22.16	22.71	22.67	23.22	23.71
	8H	22.65	23.14	23.16	23.63	24.20	22.65	23.14	23.16	23.63	24.20