

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: P979331

Luminaire Tested: PRLX-240-927-74L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979331
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-240-927-74L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH CLEAR LENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

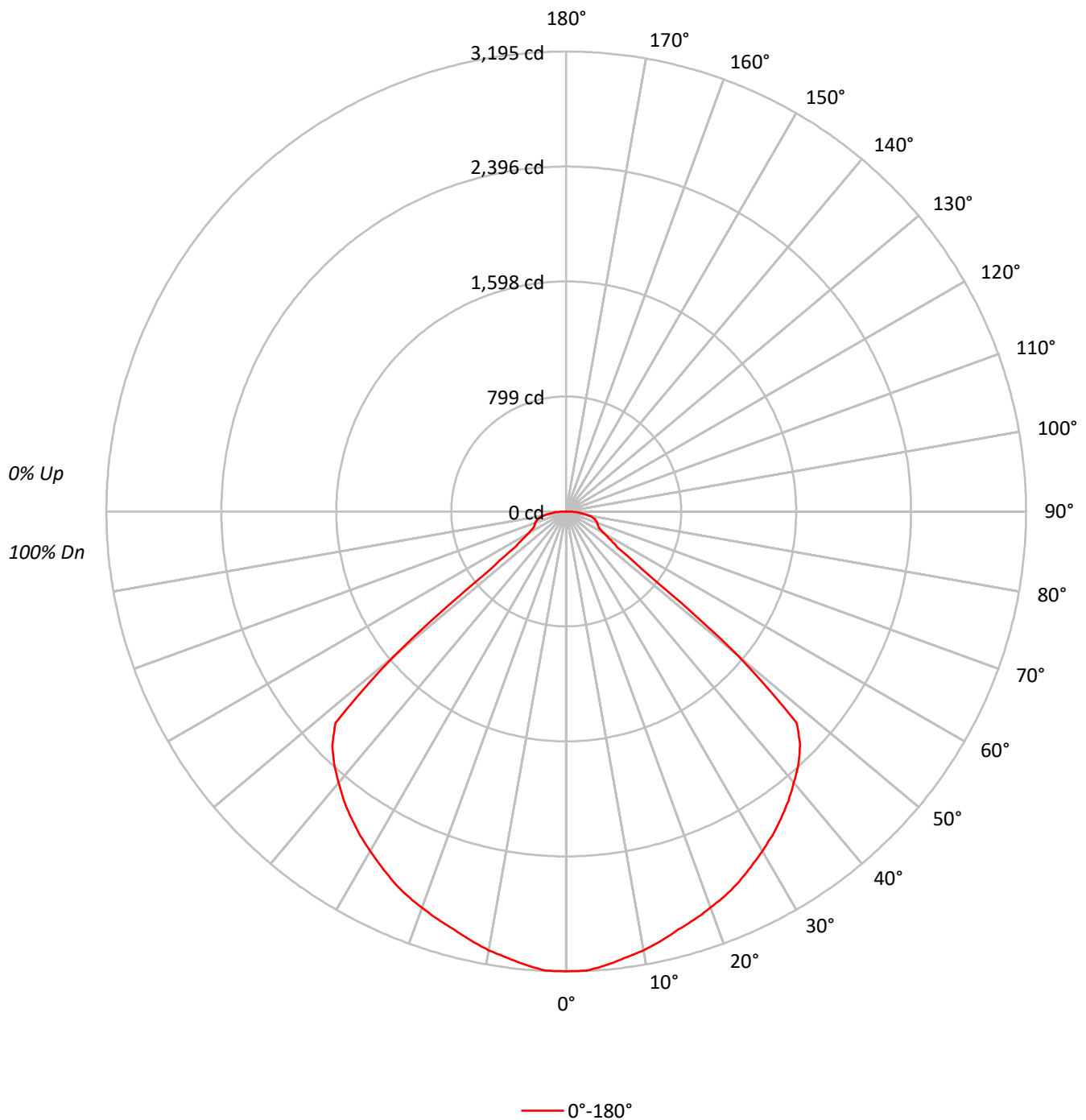
Lumens per Lamp: N/A
Luminaire Lumens: 6876.3 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.43
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70
4	88	78	70	64	86	77	70	64	74	68	63	72	67	62	70	65	62
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40
9	62	50	42	37	61	49	42	37	48	41	37	47	41	36	46	40	36
10	58	46	38	34	57	45	38	34	44	38	33	43	37	33	43	37	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	32171
5°	31989
10°	31654
15°	31351
20°	31394
25°	31544
30°	31684
35°	31986
40°	32333
45°	32726
50°	24451
55°	7606
60°	6078
65°	5856
70°	6727
75°	7967
80°	9127
85°	8965

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 32726 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.8	4.4
10°-20°	851.3	12.4
20°-30°	1309.0	19.0
30°-40°	1629.6	23.7
40°-50°	1709.6	24.9
50°-60°	528.5	7.7
60°-70°	250.5	3.6
70°-80°	211.5	3.1
80°-90°	86.5	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°	2460.1	35.8
0°-40°	4089.7	59.5
0°-60°	6327.8	92.0
0°-90°	6876.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6876.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3195	
5°	3165	300
15°	3008	851
25°	2839	1309
35°	2602	1630
45°	2298	1710
55°	433	528
65°	246	251
75°	205	212
85°	78	87
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3195.1
2.5°	3192.9
5°	3164.9
7.5°	3128.2
10°	3095.9
12.5°	3054.9
15°	3007.5
17.5°	2970.9
20°	2929.9
22.5°	2888.9
25°	2839.3
27.5°	2781.1
30°	2725.1
32.5°	2666.9
35°	2602.2
37.5°	2535.4
40°	2459.9
42.5°	2386.6
45°	2298.2
47.5°	2173.2
50°	1560.9
52.5°	670.5
55°	433.3
57.5°	360.0
60°	301.8
62.5°	263.0
65°	245.8
67.5°	237.2
70°	228.5
72.5°	217.7
75°	204.8
77.5°	185.4
80°	157.4
82.5°	118.6
85°	77.6
87.5°	43.1
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	15.04	16.47	15.41	16.78	17.09	15.04	16.47	15.41	16.78	17.09
	3H	17.00	18.27	17.38	18.60	18.96	17.00	18.27	17.38	18.60	18.96
	4H	18.16	19.35	18.56	19.70	20.08	18.16	19.35	18.56	19.70	20.08
	6H	19.30	20.38	19.71	20.75	21.15	19.30	20.38	19.71	20.75	21.15
	8H	19.72	20.76	20.15	21.15	21.55	19.72	20.76	20.15	21.15	21.55
	12H	20.03	21.02	20.46	21.40	21.83	20.03	21.02	20.46	21.40	21.83
4H	2H	15.55	16.73	15.95	17.08	17.46	15.55	16.73	15.95	17.08	17.46
	3H	17.92	18.89	18.33	19.29	19.69	17.92	18.89	18.33	19.29	19.69
	4H	19.30	20.16	19.73	20.58	21.02	19.30	20.16	19.73	20.58	21.02
	6H	20.62	21.38	21.08	21.82	22.28	20.62	21.38	21.08	21.82	22.28
	8H	21.12	21.82	21.58	22.27	22.74	21.12	21.82	21.58	22.27	22.74
	12H	21.49	22.12	21.97	22.60	23.07	21.49	22.12	21.97	22.60	23.07
8H	4H	19.83	20.54	20.30	20.98	21.45	19.83	20.54	20.30	20.98	21.45
	6H	21.33	21.92	21.83	22.41	22.89	21.33	21.92	21.83	22.41	22.89
	8H	21.94	22.47	22.45	22.98	23.47	21.94	22.47	22.45	22.98	23.47
	12H	22.42	22.90	22.93	23.39	23.96	22.42	22.90	22.93	23.39	23.96
12H	4H	19.92	20.55	20.41	21.03	21.51	19.92	20.55	20.41	21.03	21.51
	6H	21.47	22.00	21.99	22.52	23.01	21.47	22.00	21.99	22.52	23.01
	8H	22.15	22.63	22.67	23.12	23.69	22.15	22.63	22.67	23.12	23.69