

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: P979411

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

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979411
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-240-930-74L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH CLEAR LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

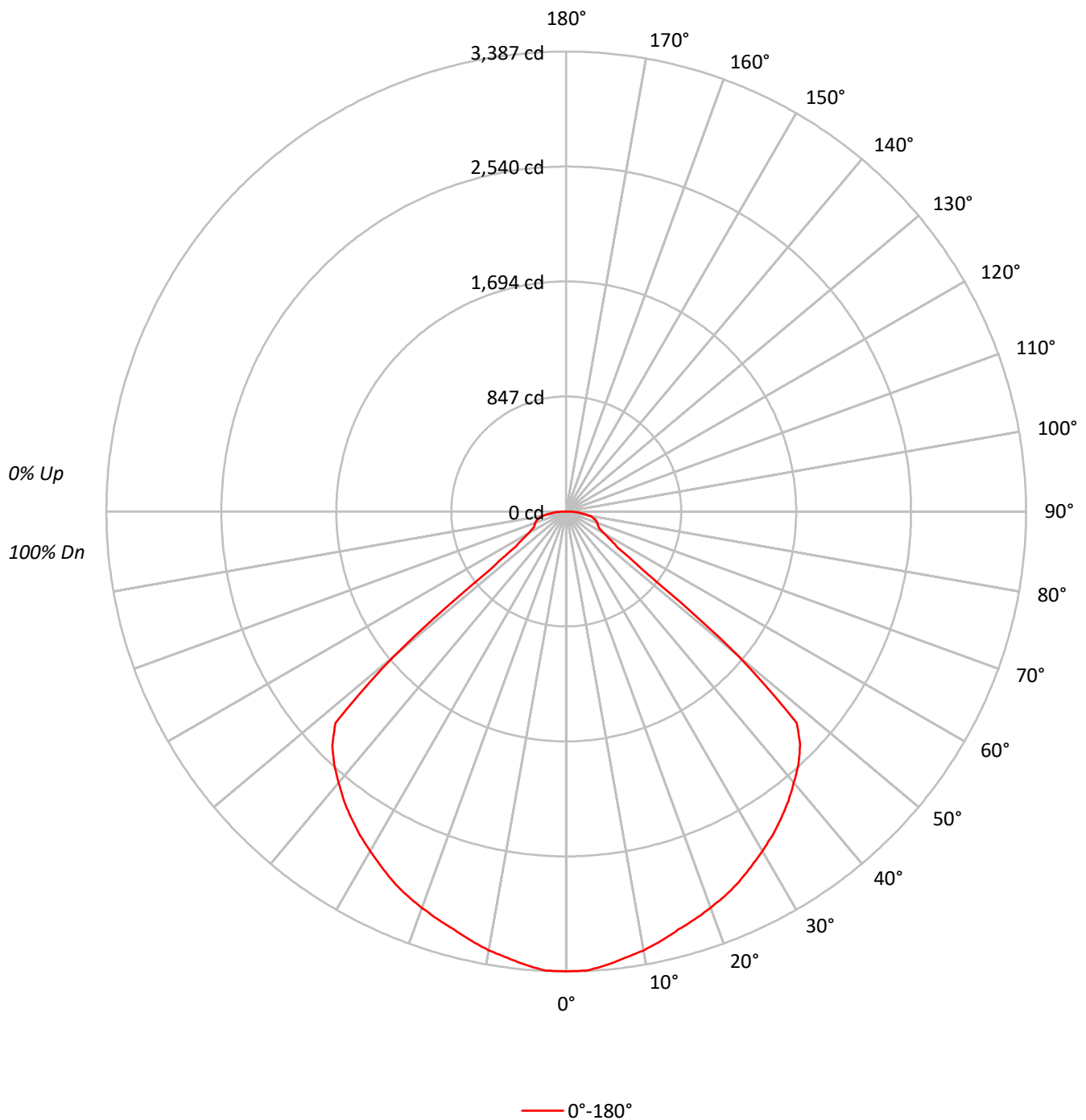
Lumens per Lamp: N/A
Luminaire Lumens: 7289.8 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.43
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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				0
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°	34106
5°	33913
10°	33557
15°	33235
20°	33283
25°	33442
30°	33588
35°	33910
40°	34277
45°	34694
50°	25920
55°	8065
60°	6444
65°	6209
70°	7133
75°	8446
80°	9672
85°	9508

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 34694 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.8	4.4
10°-20°	902.4	12.4
20°-30°	1387.7	19.0
30°-40°	1727.6	23.7
40°-50°	1812.3	24.9
50°-60°	560.3	7.7
60°-70°	265.6	3.6
70°-80°	224.3	3.1
80°-90°	91.7	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°	2608.0	35.8
0°-40°	4335.6	59.5
0°-60°	6708.2	92.0
0°-90°	7289.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7289.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3387	
5°	3355	318
15°	3188	902
25°	3010	1388
35°	2759	1728
45°	2436	1812
55°	459	560
65°	261	266
75°	217	224
85°	82	92
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3387.2
2.5°	3384.9
5°	3355.2
7.5°	3316.3
10°	3282.1
12.5°	3238.6
15°	3188.3
17.5°	3149.5
20°	3106.1
22.5°	3062.6
25°	3010.1
27.5°	2948.4
30°	2888.9
32.5°	2827.2
35°	2758.7
37.5°	2687.8
40°	2607.8
42.5°	2530.1
45°	2436.4
47.5°	2303.8
50°	1654.7
52.5°	710.8
55°	459.4
57.5°	381.7
60°	320.0
62.5°	278.8
65°	260.6
67.5°	251.4
70°	242.3
72.5°	230.8
75°	217.1
77.5°	196.6
80°	166.8
82.5°	125.7
85°	82.3
87.5°	45.7
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	15.25	16.67	15.61	16.98	17.30	15.25	16.67	15.61	16.98	17.30
	3H	17.21	18.47	17.59	18.80	19.17	17.21	18.47	17.59	18.80	19.17
	4H	18.37	19.55	18.77	19.90	20.28	18.37	19.55	18.77	19.90	20.28
	6H	19.50	20.59	19.91	20.96	21.35	19.50	20.59	19.91	20.96	21.35
	8H	19.93	20.96	20.35	21.35	21.75	19.93	20.96	20.35	21.35	21.75
	12H	20.23	21.22	20.66	21.60	22.03	20.23	21.22	20.66	21.60	22.03
4H	2H	15.75	16.94	16.15	17.29	17.67	15.75	16.94	16.15	17.29	17.67
	3H	18.12	19.09	18.53	19.49	19.89	18.12	19.09	18.53	19.49	19.89
	4H	19.50	20.37	19.93	20.79	21.23	19.50	20.37	19.93	20.79	21.23
	6H	20.82	21.58	21.28	22.02	22.49	20.82	21.58	21.28	22.02	22.49
	8H	21.32	22.03	21.79	22.47	22.94	21.32	22.03	21.79	22.47	22.94
	12H	21.69	22.32	22.17	22.80	23.27	21.69	22.32	22.17	22.80	23.27
8H	4H	20.03	20.74	20.50	21.18	21.65	20.03	20.74	20.50	21.18	21.65
	6H	21.54	22.12	22.03	22.62	23.10	21.54	22.12	22.03	22.62	23.10
	8H	22.14	22.67	22.66	23.19	23.67	22.14	22.67	22.66	23.19	23.67
	12H	22.62	23.10	23.13	23.59	24.16	22.62	23.10	23.13	23.59	24.16
12H	4H	20.13	20.76	20.61	21.24	21.71	20.13	20.76	20.61	21.24	21.71
	6H	21.67	22.21	22.19	22.72	23.21	21.67	22.21	22.19	22.72	23.21
	8H	22.36	22.83	22.87	23.33	23.89	22.36	22.83	22.87	23.33	23.89