

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: P979731

Luminaire Tested: PRLX-241-930-LL8-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979731
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-241-930-LL8-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH CLEAR LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6376.2 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.09
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

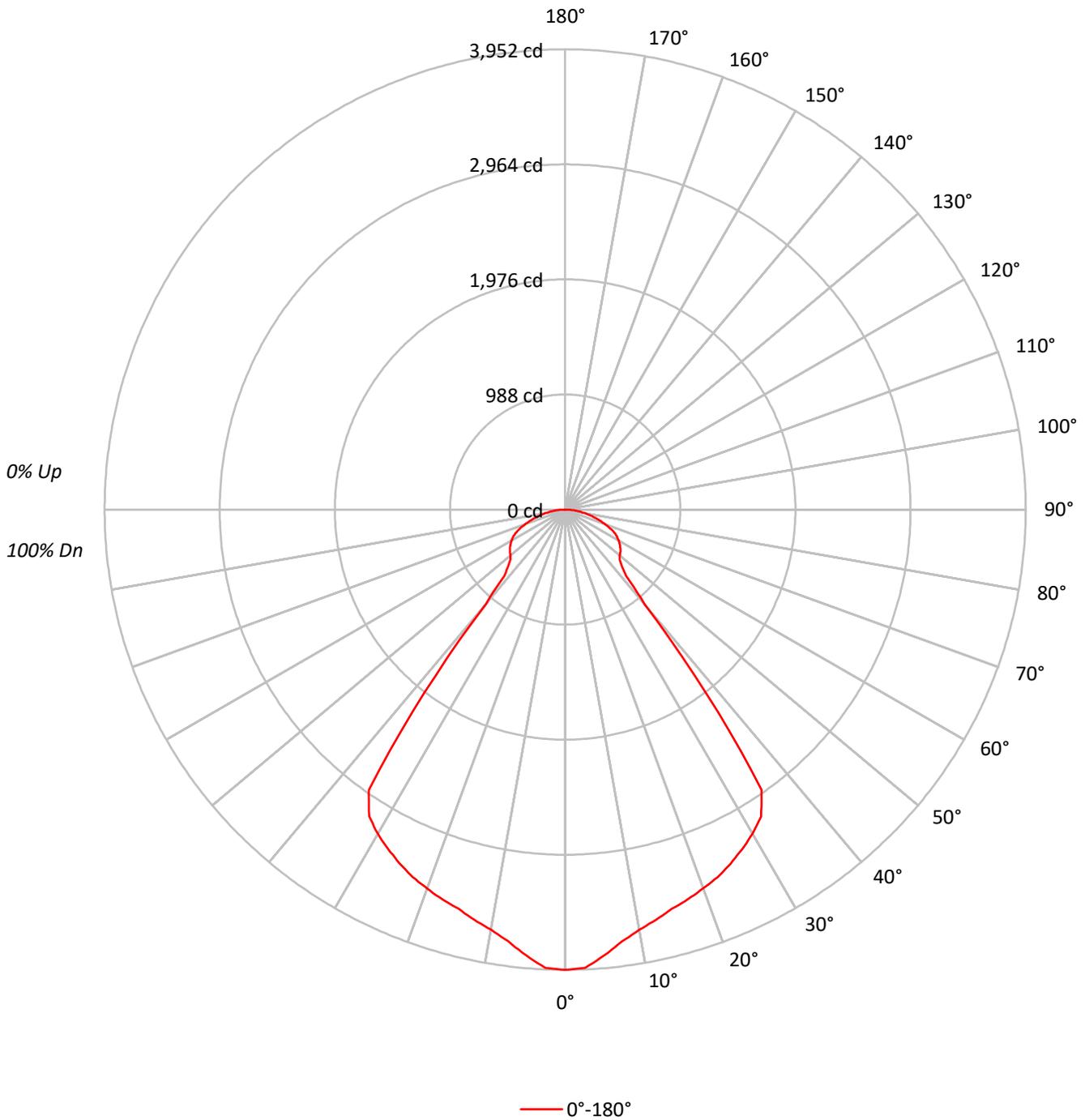
Input Watts (W): 61.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	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	102	102	102	100			100	
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88			88	
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77			77	
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68			68	
4	89	79	71	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61			61	
5	83	72	64	59	81	71	64	59	69	63	58	67	62	57	65	61	57	55			55	
6	78	66	59	53	76	65	58	53	64	57	52	62	56	52	61	56	52	50			50	
7	73	61	54	48	71	60	53	48	59	53	48	58	52	48	56	51	47	45			45	
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42			42	
9	65	53	46	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38			38	
10	61	49	42	38	60	49	42	37	48	42	37	47	41	37	46	41	37	36			36	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	30464
5°	29749
10°	28680
15°	28310
20°	28407
25°	28539
30°	28626
35°	27639
40°	10672
45°	7501
50°	7346
55°	7771
60°	8175
65°	8422
70°	8139
75°	7694
80°	7205
85°	6669

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 65°
 Luminance: 8422 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.9	5.7
10°-20°	1005.2	15.8
20°-30°	1546.9	24.3
30°-40°	1573.5	24.7
40°-50°	563.7	8.8
50°-60°	515.5	8.1
60°-70°	450.4	7.1
70°-80°	274.0	4.3
80°-90°	86.1	1.4
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°	2913.0	45.7
0°-40°	4486.5	70.4
0°-60°	5565.7	87.3
0°-90°	6376.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6376.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3952	
5°	3844	361
15°	3547	1005
25°	3355	1547
35°	2937	1573
45°	688	564
55°	578	515
65°	462	450
75°	258	274
85°	75	86
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3951.7
2.5°	3938.0
5°	3844.3
7.5°	3739.2
10°	3663.8
12.5°	3606.6
15°	3547.2
17.5°	3508.3
20°	3462.6
22.5°	3416.9
25°	3355.2
27.5°	3286.6
30°	3215.8
32.5°	3126.6
35°	2936.9
37.5°	1988.4
40°	1060.5
42.5°	772.5
45°	688.0
47.5°	635.4
50°	612.5
52.5°	596.5
55°	578.2
57.5°	555.4
60°	530.2
62.5°	500.5
65°	461.7
67.5°	411.4
70°	361.1
72.5°	308.6
75°	258.3
77.5°	210.3
80°	162.3
82.5°	118.8
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	17.58	18.90	17.95	19.22	19.53	17.58	18.90	17.95	19.22	19.53
	3H	19.74	20.93	20.12	21.26	21.62	19.74	20.93	20.12	21.26	21.62
	4H	20.52	21.63	20.92	21.98	22.37	20.52	21.63	20.92	21.98	22.37
	6H	21.11	22.14	21.52	22.51	22.90	21.11	22.14	21.52	22.51	22.90
	8H	21.31	22.29	21.74	22.68	23.08	21.31	22.29	21.74	22.68	23.08
	12H	21.45	22.38	21.88	22.77	23.20	21.45	22.38	21.88	22.77	23.20
4H	2H	18.33	19.44	18.73	19.79	20.17	18.33	19.44	18.73	19.79	20.17
	3H	20.65	21.57	21.06	21.98	22.38	20.65	21.57	21.06	21.98	22.38
	4H	21.54	22.38	21.98	22.80	23.24	21.54	22.38	21.98	22.80	23.24
	6H	22.26	22.98	22.72	23.43	23.89	22.26	22.98	22.72	23.43	23.89
	8H	22.51	23.19	22.98	23.63	24.10	22.51	23.19	22.98	23.63	24.10
	12H	22.70	23.29	23.18	23.78	24.25	22.70	23.29	23.18	23.78	24.25
8H	4H	21.87	22.54	22.33	22.99	23.46	21.87	22.54	22.33	22.99	23.46
	6H	22.72	23.27	23.22	23.77	24.25	22.72	23.27	23.22	23.77	24.25
	8H	23.06	23.55	23.58	24.07	24.56	23.06	23.55	23.58	24.07	24.56
	12H	23.34	23.77	23.86	24.27	24.84	23.34	23.77	23.86	24.27	24.84
12H	4H	21.89	22.49	22.38	22.98	23.45	21.89	22.49	22.38	22.98	23.45
	6H	22.78	23.28	23.30	23.79	24.28	22.78	23.28	23.30	23.79	24.28
	8H	23.19	23.62	23.70	24.12	24.69	23.19	23.62	23.70	24.12	24.69