

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: P979481

Luminaire Tested: PRLX-240-935-LL7-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979481
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-240-935-LL7-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH CLEAR LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6349.4 lumens
Efficiency: N/A
Efficacy: 132.3 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

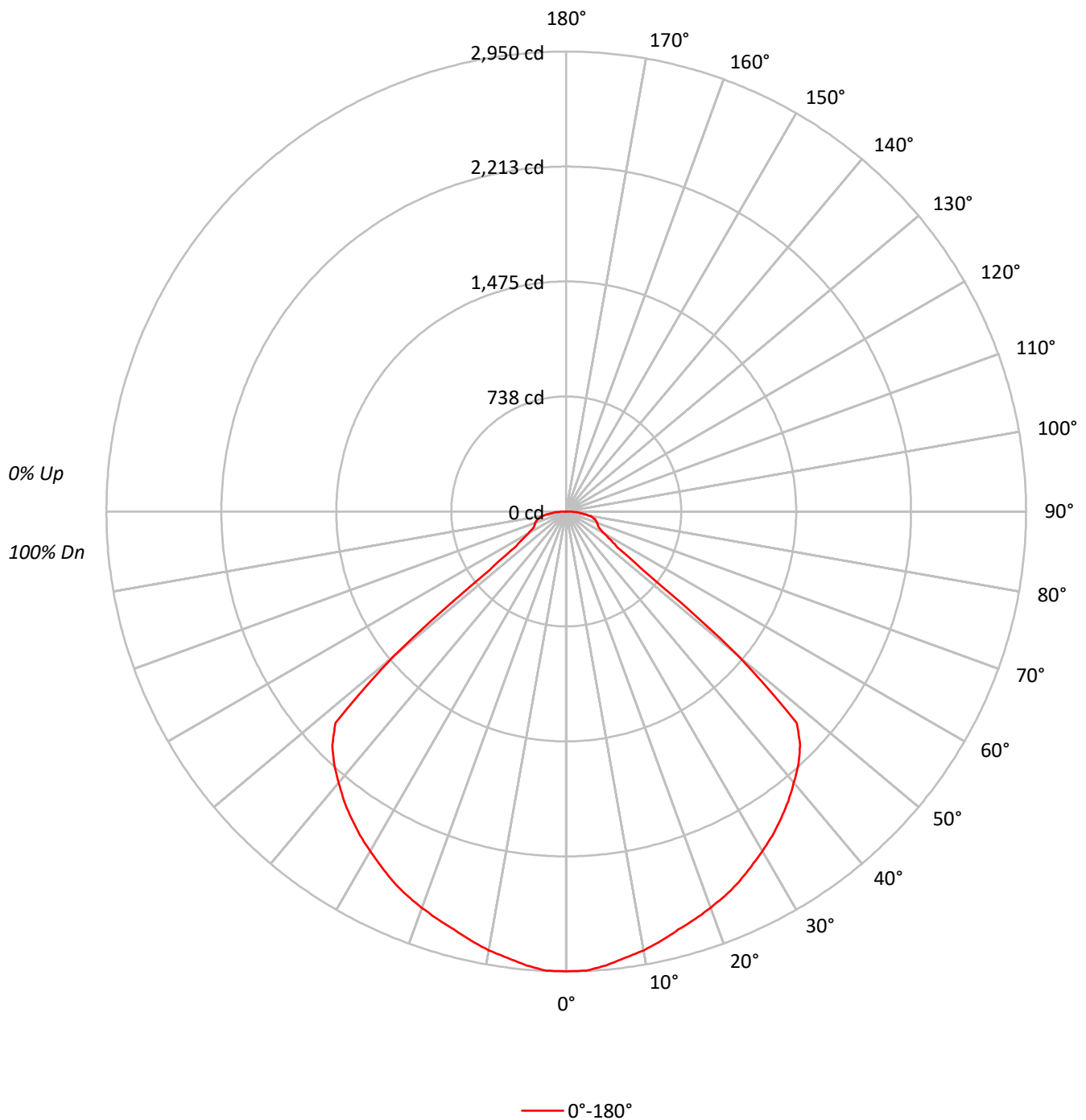
Input Watts (W): 48
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	29706
5°	29538
10°	29227
15°	28948
20°	28989
25°	29128
30°	29255
35°	29535
40°	29856
45°	30218
50°	22577
55°	7024
60°	5612
65°	5406
70°	6212
75°	7357
80°	8425
85°	8283

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 30218 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.8	4.4
10°-20°	786.0	12.4
20°-30°	1208.7	19.0
30°-40°	1504.7	23.7
40°-50°	1578.6	24.9
50°-60°	488.0	7.7
60°-70°	231.3	3.6
70°-80°	195.4	3.1
80°-90°	79.9	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°	2271.6	35.8
0°-40°	3776.3	59.5
0°-60°	5842.8	92.0
0°-90°	6349.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6349.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2950	
5°	2922	277
15°	2777	786
25°	2622	1209
35°	2403	1505
45°	2122	1579
55°	400	488
65°	227	231
75°	189	195
85°	72	80
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2950.2
2.5°	2948.2
5°	2922.4
7.5°	2888.5
10°	2858.6
12.5°	2820.8
15°	2777.0
17.5°	2743.2
20°	2705.4
22.5°	2667.5
25°	2621.8
27.5°	2568.0
30°	2516.2
32.5°	2462.5
35°	2402.8
37.5°	2341.1
40°	2271.4
42.5°	2203.7
45°	2122.1
47.5°	2006.6
50°	1441.3
52.5°	619.1
55°	400.1
57.5°	332.4
60°	278.7
62.5°	242.9
65°	226.9
67.5°	219.0
70°	211.0
72.5°	201.1
75°	189.1
77.5°	171.2
80°	145.3
82.5°	109.5
85°	71.7
87.5°	39.8
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	14.76	16.19	15.13	16.50	16.82	14.76	16.19	15.13	16.50	16.82
	3H	16.73	17.99	17.11	18.32	18.69	16.73	17.99	17.11	18.32	18.69
	4H	17.89	19.07	18.29	19.42	19.80	17.89	19.07	18.29	19.42	19.80
	6H	19.02	20.11	19.43	20.48	20.87	19.02	20.11	19.43	20.48	20.87
	8H	19.45	20.48	19.87	20.87	21.27	19.45	20.48	19.87	20.87	21.27
	12H	19.75	20.74	20.18	21.12	21.55	19.75	20.74	20.18	21.12	21.55
4H	2H	15.27	16.45	15.67	16.80	17.19	15.27	16.45	15.67	16.80	17.19
	3H	17.64	18.61	18.05	19.01	19.41	17.64	18.61	18.05	19.01	19.41
	4H	19.02	19.89	19.45	20.31	20.75	19.02	19.89	19.45	20.31	20.75
	6H	20.34	21.10	20.80	21.54	22.01	20.34	21.10	20.80	21.54	22.01
	8H	20.84	21.55	21.31	21.99	22.46	20.84	21.55	21.31	21.99	22.46
	12H	21.21	21.84	21.69	22.32	22.79	21.21	21.84	21.69	22.32	22.79
8H	4H	19.55	20.26	20.02	20.70	21.17	19.55	20.26	20.02	20.70	21.17
	6H	21.06	21.64	21.55	22.14	22.62	21.06	21.64	21.55	22.14	22.62
	8H	21.66	22.19	22.18	22.71	23.20	21.66	22.19	22.18	22.71	23.20
	12H	22.14	22.62	22.65	23.11	23.68	22.14	22.62	22.65	23.11	23.68
12H	4H	19.65	20.28	20.13	20.76	21.23	19.65	20.28	20.13	20.76	21.23
	6H	21.19	21.73	21.71	22.24	22.73	21.19	21.73	21.71	22.24	22.73
	8H	21.88	22.35	22.39	22.85	23.41	21.88	22.35	22.39	22.85	23.41