

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: P979311

Luminaire Tested: PRLX-240-927-48L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979311
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-240-927-48L-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

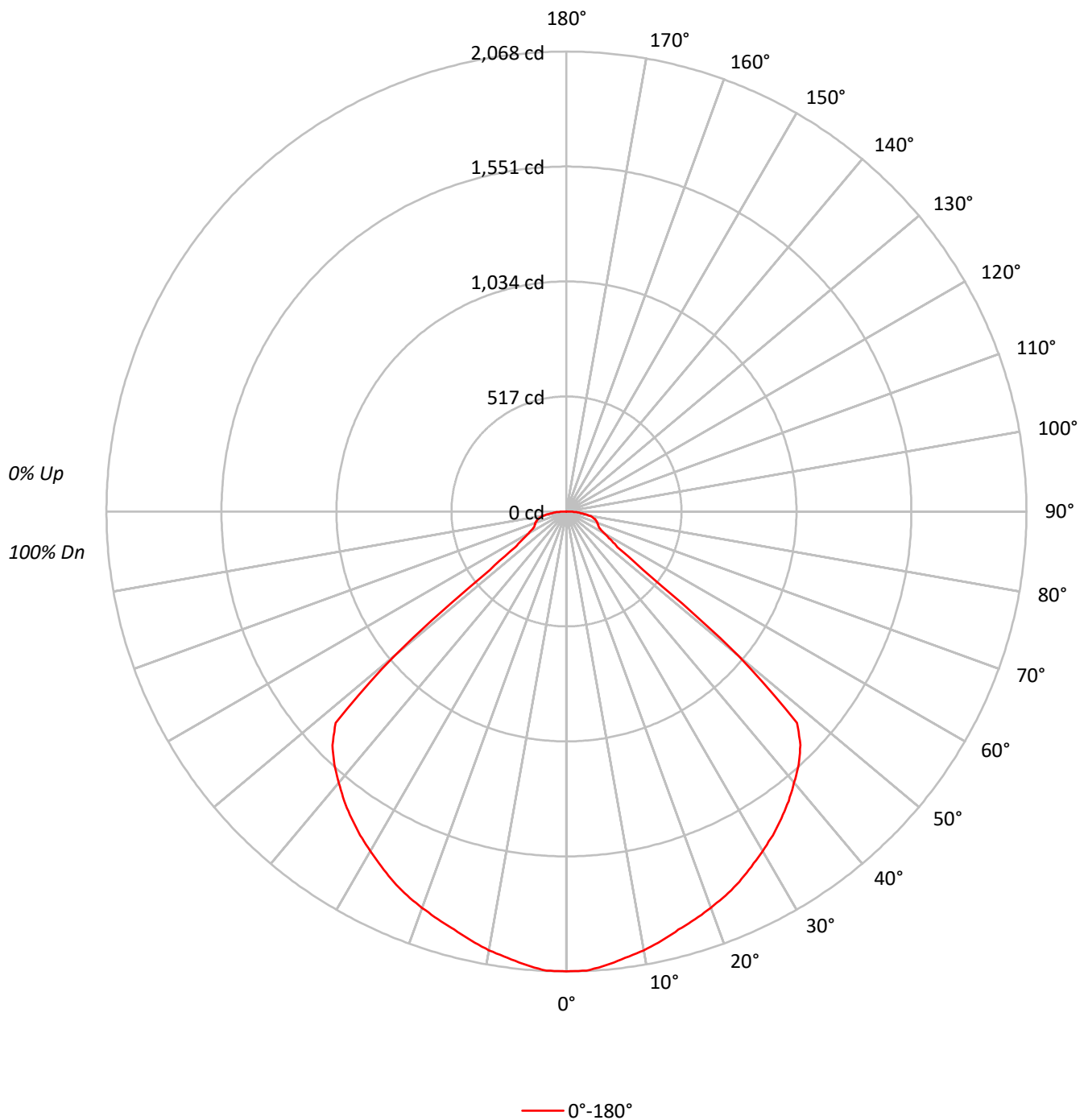
Lumens per Lamp: N/A
Luminaire Lumens: 4451.0 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.43
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 33.5
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		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°	20824
5°	20706
10°	20489
15°	20293
20°	20321
25°	20419
30°	20508
35°	20705
40°	20929
45°	21183
50°	15826
55°	4924
60°	3935
65°	3791
70°	4354
75°	5159
80°	5909
85°	5800

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 21183 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.0	4.4
10°-20°	551.0	12.4
20°-30°	847.3	19.0
30°-40°	1054.8	23.7
40°-50°	1106.6	24.9
50°-60°	342.1	7.7
60°-70°	162.2	3.6
70°-80°	136.9	3.1
80°-90°	56.0	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°	1592.4	35.8
0°-40°	2647.2	59.5
0°-60°	4095.9	92.0
0°-90°	4451.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4451.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2068	
5°	2049	194
15°	1947	551
25°	1838	847
35°	1684	1055
45°	1488	1107
55°	280	342
65°	159	162
75°	133	137
85°	50	56
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2068.1
2.5°	2066.7
5°	2048.6
7.5°	2024.9
10°	2003.9
12.5°	1977.4
15°	1946.7
17.5°	1923.0
20°	1896.5
22.5°	1870.0
25°	1837.9
27.5°	1800.2
30°	1763.9
32.5°	1726.2
35°	1684.4
37.5°	1641.1
40°	1592.3
42.5°	1544.8
45°	1487.6
47.5°	1406.7
50°	1010.3
52.5°	434.0
55°	280.5
57.5°	233.0
60°	195.4
62.5°	170.3
65°	159.1
67.5°	153.5
70°	147.9
72.5°	140.9
75°	132.6
77.5°	120.0
80°	101.9
82.5°	76.8
85°	50.2
87.5°	27.9
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	13.53	14.96	13.89	15.27	15.58	13.53	14.96	13.89	15.27	15.58
	3H	15.49	16.76	15.87	17.09	17.45	15.49	16.76	15.87	17.09	17.45
	4H	16.65	17.83	17.05	18.18	18.56	16.65	17.83	17.05	18.18	18.56
	6H	17.78	18.87	18.20	19.24	19.63	17.78	18.87	18.20	19.24	19.63
	8H	18.21	19.25	18.64	19.64	20.04	18.21	19.25	18.64	19.64	20.04
	12H	18.52	19.51	18.95	19.89	20.32	18.52	19.51	18.95	19.89	20.32
4H	2H	14.04	15.22	14.44	15.57	15.95	14.04	15.22	14.44	15.57	15.95
	3H	16.41	17.37	16.82	17.78	18.18	16.41	17.37	16.82	17.78	18.18
	4H	17.79	18.65	18.22	19.07	19.51	17.79	18.65	18.22	19.07	19.51
	6H	19.11	19.86	19.57	20.31	20.77	19.11	19.86	19.57	20.31	20.77
	8H	19.61	20.31	20.07	20.76	21.23	19.61	20.31	20.07	20.76	21.23
	12H	19.98	20.61	20.46	21.09	21.56	19.98	20.61	20.46	21.09	21.56
8H	4H	18.32	19.02	18.78	19.47	19.94	18.32	19.02	18.78	19.47	19.94
	6H	19.82	20.41	20.32	20.90	21.38	19.82	20.41	20.32	20.90	21.38
	8H	20.43	20.96	20.94	21.47	21.96	20.43	20.96	20.94	21.47	21.96
	12H	20.91	21.38	21.42	21.88	22.44	20.91	21.38	21.42	21.88	22.44
12H	4H	18.41	19.04	18.90	19.52	20.00	18.41	19.04	18.90	19.52	20.00
	6H	19.96	20.49	20.48	21.01	21.50	19.96	20.49	20.48	21.01	21.50
	8H	20.64	21.12	21.15	21.61	22.18	20.64	21.12	21.15	21.61	22.18