

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: P979551

Luminaire Tested: PRLX-240-940-48L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979551
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-240-940-48L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH CLEAR LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

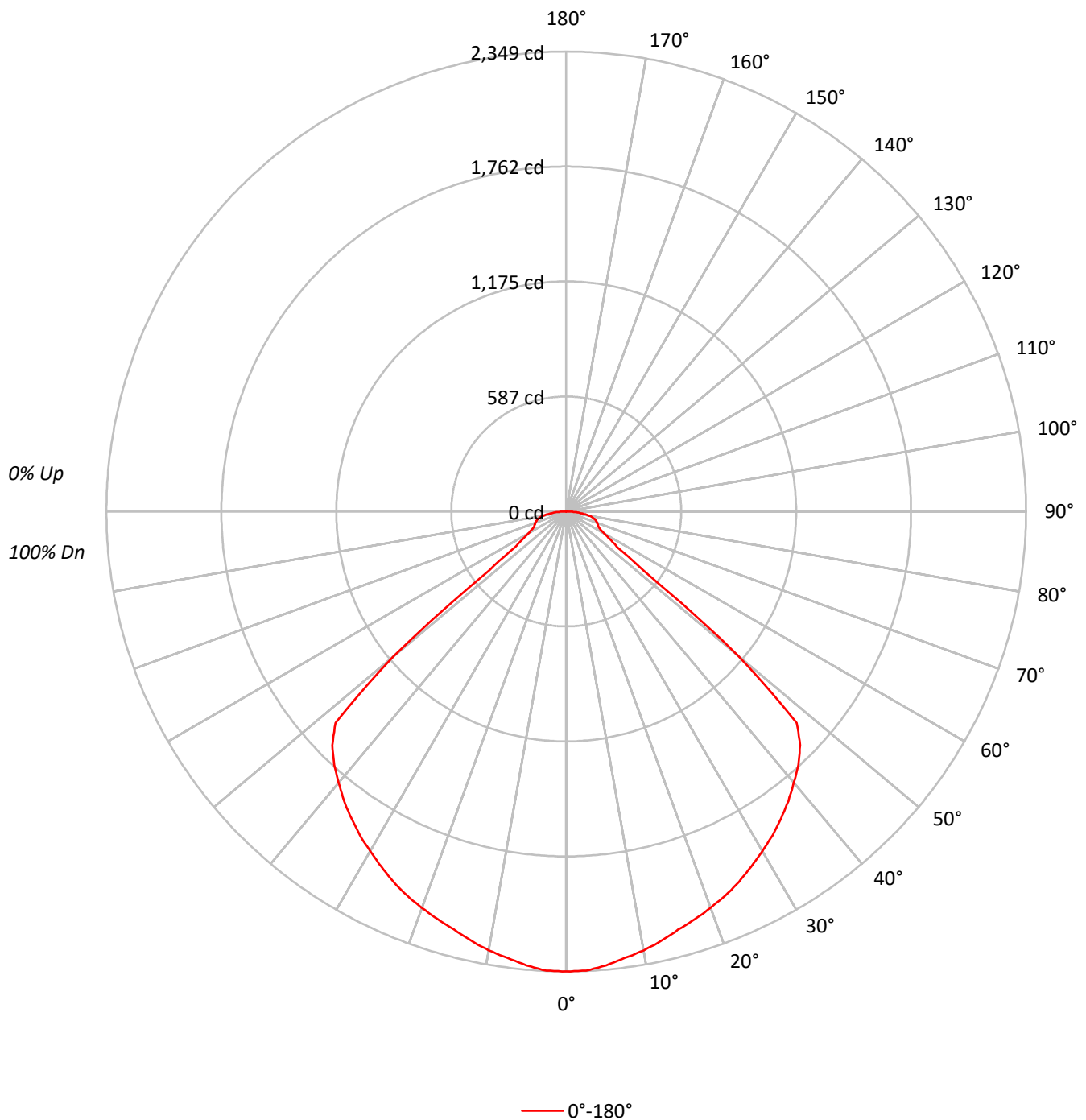
Lumens per Lamp: N/A
Luminaire Lumens: 5056.1 lumens
Efficiency: N/A
Efficacy: 150.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.43
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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°	23655
5°	23521
10°	23275
15°	23052
20°	23084
25°	23195
30°	23298
35°	23519
40°	23775
45°	24064
50°	17978
55°	5593
60°	4469
65°	4305
70°	4946
75°	5859
80°	6709
85°	6597

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 24064 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.4	4.4
10°-20°	625.9	12.4
20°-30°	962.5	19.0
30°-40°	1198.2	23.7
40°-50°	1257.1	24.9
50°-60°	388.6	7.7
60°-70°	184.2	3.6
70°-80°	155.5	3.1
80°-90°	63.6	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°	1808.9	35.8
0°-40°	3007.1	59.5
0°-60°	4652.8	92.0
0°-90°	5056.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5056.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2349	
5°	2327	220
15°	2211	626
25°	2088	963
35°	1913	1198
45°	1690	1257
55°	319	389
65°	181	184
75°	151	156
85°	57	64
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2349.3
2.5°	2347.7
5°	2327.1
7.5°	2300.2
10°	2276.4
12.5°	2246.3
15°	2211.4
17.5°	2184.5
20°	2154.3
22.5°	2124.2
25°	2087.8
27.5°	2045.0
30°	2003.8
32.5°	1960.9
35°	1913.4
37.5°	1864.2
40°	1808.8
42.5°	1754.9
45°	1689.9
47.5°	1597.9
50°	1147.7
52.5°	493.0
55°	318.6
57.5°	264.7
60°	221.9
62.5°	193.4
65°	180.7
67.5°	174.4
70°	168.0
72.5°	160.1
75°	150.6
77.5°	136.3
80°	115.7
82.5°	87.2
85°	57.1
87.5°	31.7
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	13.97	15.40	14.34	15.71	16.03	13.97	15.40	14.34	15.71	16.03
	3H	15.94	17.20	16.31	17.53	17.89	15.94	17.20	16.31	17.53	17.89
	4H	17.10	18.28	17.50	18.63	19.01	17.10	18.28	17.50	18.63	19.01
	6H	18.23	19.32	18.64	19.68	20.08	18.23	19.32	18.64	19.68	20.08
	8H	18.65	19.69	19.08	20.08	20.48	18.65	19.69	19.08	20.08	20.48
	12H	18.96	19.95	19.39	20.33	20.76	18.96	19.95	19.39	20.33	20.76
4H	2H	14.48	15.66	14.88	16.01	16.39	14.48	15.66	14.88	16.01	16.39
	3H	16.85	17.82	17.26	18.22	18.62	16.85	17.82	17.26	18.22	18.62
	4H	18.23	19.10	18.66	19.51	19.96	18.23	19.10	18.66	19.51	19.96
	6H	19.55	20.31	20.01	20.75	21.21	19.55	20.31	20.01	20.75	21.21
	8H	20.05	20.76	20.52	21.20	21.67	20.05	20.76	20.52	21.20	21.67
	12H	20.42	21.05	20.90	21.53	22.00	20.42	21.05	20.90	21.53	22.00
8H	4H	18.76	19.47	19.23	19.91	20.38	18.76	19.47	19.23	19.91	20.38
	6H	20.26	20.85	20.76	21.35	21.82	20.26	20.85	20.76	21.35	21.82
	8H	20.87	21.40	21.39	21.91	22.40	20.87	21.40	21.39	21.91	22.40
	12H	21.35	21.83	21.86	22.32	22.89	21.35	21.83	21.86	22.32	22.89
12H	4H	18.86	19.49	19.34	19.97	20.44	18.86	19.49	19.34	19.97	20.44
	6H	20.40	20.94	20.92	21.45	21.94	20.40	20.94	20.92	21.45	21.94
	8H	21.09	21.56	21.60	22.06	22.62	21.09	21.56	21.60	22.06	22.62