

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: P979471

Luminaire Tested: PRLX-240-935-48L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979471
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-240-935-48L-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

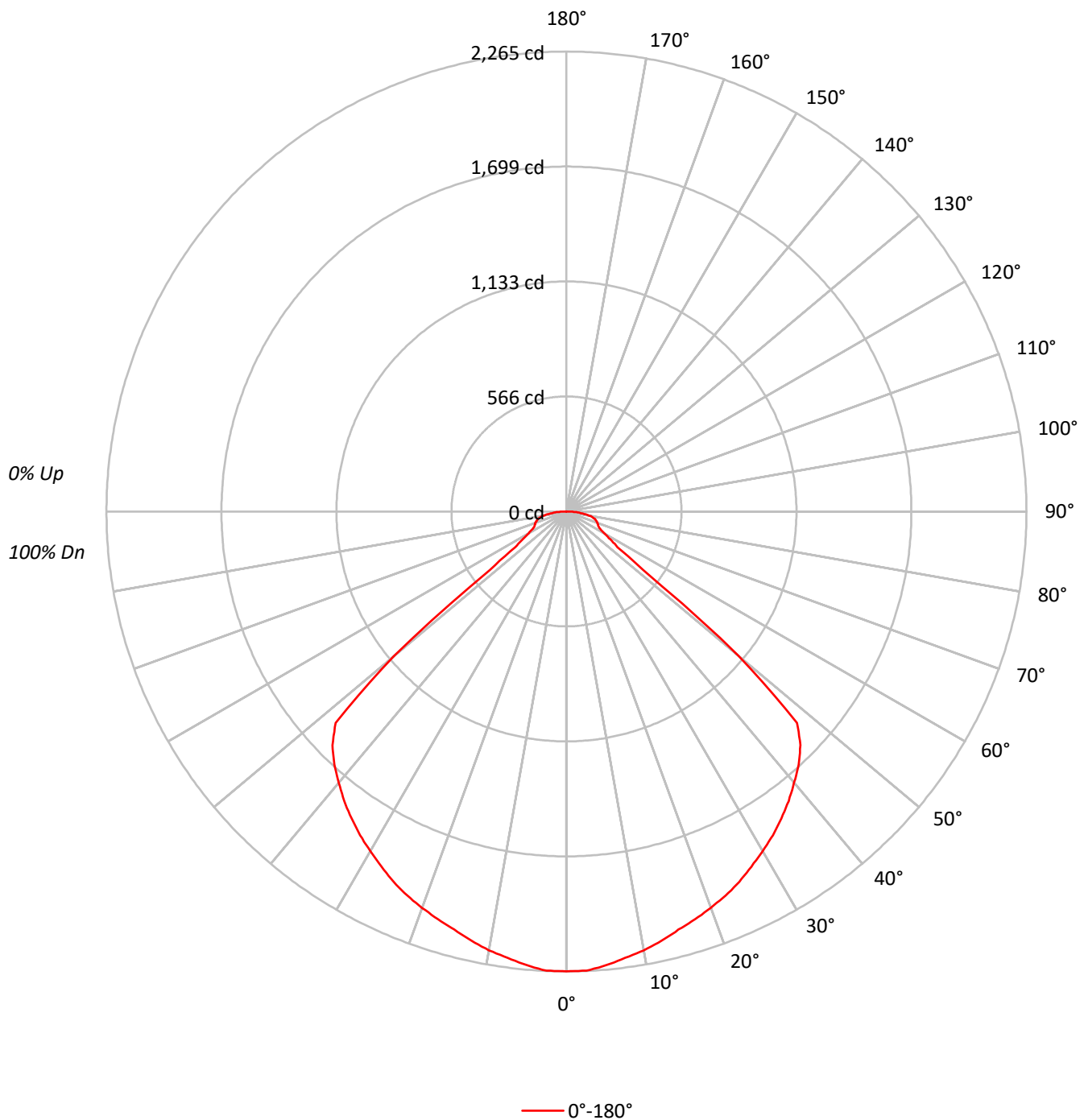
Lumens per Lamp: N/A
Luminaire Lumens: 4875.0 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.43
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	22807
5°	22678
10°	22440
15°	22226
20°	22257
25°	22363
30°	22462
35°	22676
40°	22922
45°	23201
50°	17334
55°	5393
60°	4310
65°	4150
70°	4769
75°	5649
80°	6471
85°	6354

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 23201 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.5	4.4
10°-20°	603.5	12.4
20°-30°	928.0	19.0
30°-40°	1155.3	23.7
40°-50°	1212.0	24.9
50°-60°	374.7	7.7
60°-70°	177.6	3.6
70°-80°	150.0	3.1
80°-90°	61.4	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°	1744.1	35.8
0°-40°	2899.4	59.5
0°-60°	4486.0	92.0
0°-90°	4875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4875.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2265	
5°	2244	213
15°	2132	604
25°	2013	928
35°	1845	1155
45°	1629	1212
55°	307	375
65°	174	178
75°	145	150
85°	55	61
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2265.1
2.5°	2263.6
5°	2243.7
7.5°	2217.8
10°	2194.8
12.5°	2165.8
15°	2132.2
17.5°	2106.2
20°	2077.1
22.5°	2048.1
25°	2012.9
27.5°	1971.7
30°	1931.9
32.5°	1890.7
35°	1844.8
37.5°	1797.4
40°	1743.9
42.5°	1692.0
45°	1629.3
47.5°	1540.7
50°	1106.6
52.5°	475.3
55°	307.2
57.5°	255.2
60°	214.0
62.5°	186.5
65°	174.2
67.5°	168.1
70°	162.0
72.5°	154.4
75°	145.2
77.5°	131.4
80°	111.6
82.5°	84.1
85°	55.0
87.5°	30.6
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	13.85	15.27	14.21	15.58	15.90	13.85	15.27	14.21	15.58	15.90
	3H	15.81	17.07	16.19	17.40	17.77	15.81	17.07	16.19	17.40	17.77
	4H	16.97	18.15	17.37	18.50	18.88	16.97	18.15	17.37	18.50	18.88
	6H	18.10	19.19	18.51	19.56	19.95	18.10	19.19	18.51	19.56	19.95
	8H	18.53	19.56	18.96	19.95	20.35	18.53	19.56	18.96	19.95	20.35
	12H	18.83	19.82	19.26	20.20	20.63	18.83	19.82	19.26	20.20	20.63
4H	2H	14.35	15.54	14.76	15.89	16.27	14.35	15.54	14.76	15.89	16.27
	3H	16.72	17.69	17.13	18.09	18.50	16.72	17.69	17.13	18.09	18.50
	4H	18.10	18.97	18.54	19.39	19.83	18.10	18.97	18.54	19.39	19.83
	6H	19.43	20.18	19.89	20.62	21.09	19.43	20.18	19.89	20.62	21.09
	8H	19.92	20.63	20.39	21.08	21.54	19.92	20.63	20.39	21.08	21.54
	12H	20.29	20.92	20.78	21.40	21.88	20.29	20.92	20.78	21.40	21.88
8H	4H	18.63	19.34	19.10	19.79	20.26	18.63	19.34	19.10	19.79	20.26
	6H	20.14	20.73	20.64	21.22	21.70	20.14	20.73	20.64	21.22	21.70
	8H	20.74	21.28	21.26	21.79	22.28	20.74	21.28	21.26	21.79	22.28
	12H	21.22	21.70	21.73	22.19	22.76	21.22	21.70	21.73	22.19	22.76
12H	4H	18.73	19.36	19.21	19.84	20.31	18.73	19.36	19.21	19.84	20.31
	6H	20.28	20.81	20.79	21.32	21.81	20.28	20.81	20.79	21.32	21.81
	8H	20.96	21.44	21.47	21.93	22.50	20.96	21.44	21.47	21.93	22.50