

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: P980033

Luminaire Tested: PRLX-242-930-48L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980033
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-242-930-48L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 242 SHADE WITH FROSTED LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

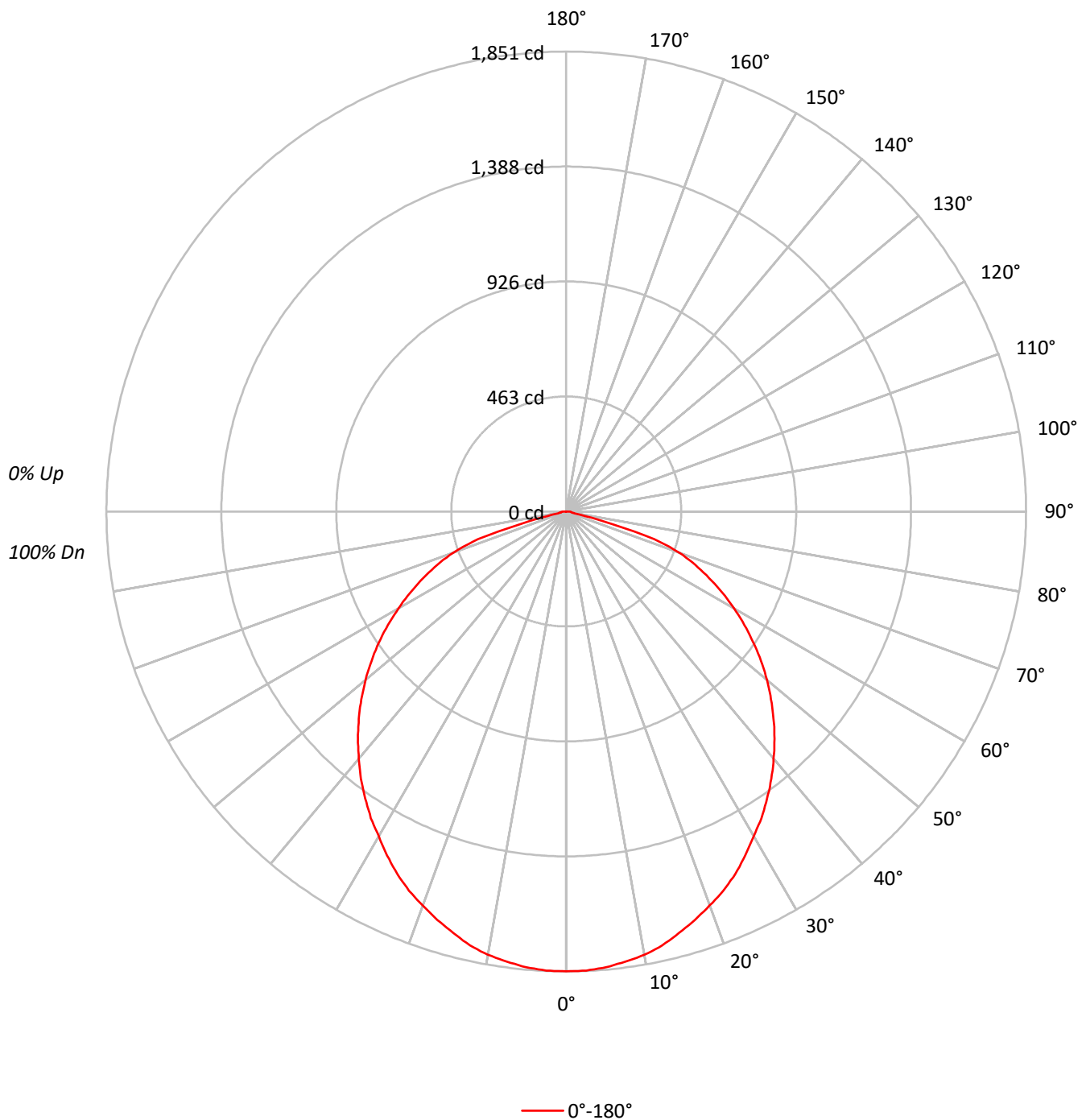
Lumens per Lamp: N/A
Luminaire Lumens: 4882.4 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.34
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

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	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88
2	100	92	86	80	98	90	85	79	87	82	78	84	80	76	81	77	74
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	71	67	63
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	8283
5°	8274
10°	8235
15°	8136
20°	8039
25°	7948
30°	7798
35°	7702
40°	7588
45°	7472
50°	7344
55°	7180
60°	6978
65°	6721
70°	6349
75°	2635
80°	572
85°	914

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7472 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.8	3.6
10°-20°	495.5	10.1
20°-30°	740.6	15.2
30°-40°	882.2	18.1
40°-50°	910.7	18.7
50°-60°	822.2	16.8
60°-70°	627.9	12.9
70°-80°	212.1	4.3
80°-90°	16.3	0.3
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°	1410.9	28.9
0°-40°	2293.1	47.0
0°-60°	4026.0	82.5
0°-90°	4882.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4882.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1851	
5°	1842	175
15°	1756	496
25°	1610	741
35°	1410	882
45°	1181	911
55°	920	822
65°	635	628
75°	152	212
85°	18	16
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1850.8
2.5°	1849.3
5°	1841.9
7.5°	1827.1
10°	1812.3
12.5°	1788.6
15°	1756.1
17.5°	1723.5
20°	1688.0
22.5°	1652.5
25°	1609.6
27.5°	1560.8
30°	1509.0
32.5°	1463.1
35°	1409.9
37.5°	1356.6
40°	1298.9
42.5°	1241.2
45°	1180.6
47.5°	1118.4
50°	1054.8
52.5°	988.3
55°	920.2
57.5°	850.7
60°	779.7
62.5°	708.6
65°	634.7
67.5°	562.2
70°	485.2
72.5°	371.3
75°	152.4
77.5°	32.5
80°	22.2
82.5°	20.7
85°	17.8
87.5°	10.4
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	19.20	20.81	19.57	21.12	21.43	19.20	20.81	19.57	21.12	21.43
	3H	21.03	22.47	21.41	22.80	23.16	21.03	22.47	21.41	22.80	23.16
	4H	21.26	22.61	21.66	22.96	23.34	21.26	22.61	21.66	22.96	23.34
	6H	21.21	22.46	21.62	22.83	23.22	21.21	22.46	21.62	22.83	23.22
	8H	21.18	22.37	21.61	22.76	23.16	21.18	22.37	21.61	22.76	23.16
	12H	21.16	22.30	21.59	22.68	23.11	21.16	22.30	21.59	22.68	23.11
4H	2H	19.85	21.21	20.25	21.55	21.93	19.85	21.21	20.25	21.55	21.93
	3H	21.86	22.98	22.27	23.38	23.78	21.86	22.98	22.27	23.38	23.78
	4H	22.07	23.08	22.51	23.50	23.93	22.07	23.08	22.51	23.50	23.93
	6H	22.03	22.91	22.49	23.35	23.81	22.03	22.91	22.49	23.35	23.81
	8H	22.00	22.82	22.47	23.26	23.73	22.00	22.82	22.47	23.26	23.73
	12H	21.99	22.71	22.47	23.19	23.66	21.99	22.71	22.47	23.19	23.66
8H	4H	22.13	22.94	22.59	23.39	23.85	22.13	22.94	22.59	23.39	23.85
	6H	22.07	22.74	22.57	23.23	23.71	22.07	22.74	22.57	23.23	23.71
	8H	22.04	22.64	22.55	23.15	23.63	22.04	22.64	22.55	23.15	23.63
	12H	22.03	22.56	22.54	23.05	23.61	22.03	22.56	22.54	23.05	23.61
12H	4H	22.10	22.83	22.58	23.31	23.78	22.10	22.83	22.58	23.31	23.78
	6H	22.03	22.63	22.54	23.14	23.63	22.03	22.63	22.54	23.14	23.63
	8H	22.02	22.55	22.53	23.04	23.60	22.02	22.55	22.53	23.04	23.60