

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: P979470

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

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979470
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-6)
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-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 240 SHADE WITH CLEAR LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

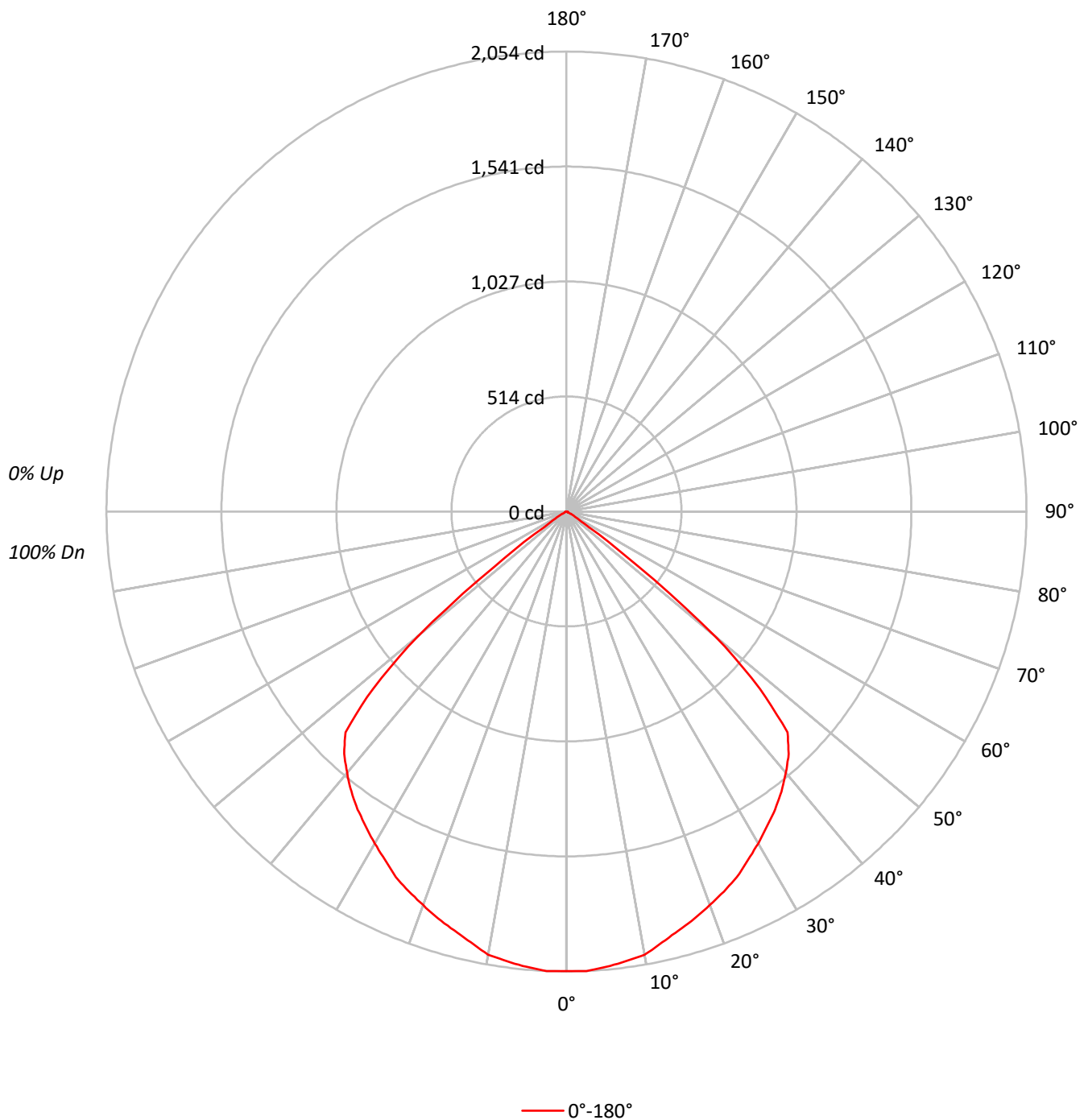
Lumens per Lamp: N/A
Luminaire Lumens: 3833.6 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.39
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	109	106	103		110	107	104	102		103	100	99		99	97	96		95	94	93
2	105	99	94	90		103	97	93	89		94	90	87		91	88	85		88	86	83
3	98	90	84	79		96	89	83	78		86	81	77		83	79	76		81	78	75
4	91	82	75	70		89	81	74	69		78	73	69		76	72	68		74	70	67
5	85	75	68	62		83	74	67	62		72	66	61		70	65	61		68	64	60
6	79	68	61	56		78	67	60	55		66	60	55		64	59	55		63	58	54
7	74	63	55	50		73	62	55	50		61	54	50		59	54	49		58	53	49
8	69	58	50	45		68	57	50	45		56	49	45		55	49	45		54	48	44
9	65	53	46	41		64	53	46	41		52	45	41		51	45	41		50	44	41
10	61	49	42	38		60	49	42	38		48	42	37		47	41	37		46	41	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	20669
5°	20639
10°	20550
15°	20186
20°	20046
25°	20020
30°	19903
35°	19971
40°	20030
45°	19872
50°	13600
55°	2119
60°	524
65°	110
70°	135
75°	179
80°	267
85°	173

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 19872 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.9	5.1
10°-20°	547.6	14.3
20°-30°	829.2	21.6
30°-40°	1016.6	26.5
40°-50°	1006.5	26.3
50°-60°	224.4	5.9
60°-70°	8.3	0.2
70°-80°	4.9	0.1
80°-90°	2.3	0.1
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°	1570.7	41.0
0°-40°	2587.3	67.5
0°-60°	3818.2	99.6
0°-90°	3833.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3833.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2053	
5°	2042	194
15°	1936	548
25°	1802	829
35°	1625	1017
45°	1396	1006
55°	121	224
65°	5	8
75°	5	5
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2052.7
2.5°	2054.2
5°	2042.0
7.5°	2026.7
10°	2009.9
12.5°	1971.7
15°	1936.5
17.5°	1906.0
20°	1870.8
22.5°	1837.2
25°	1802.0
27.5°	1754.6
30°	1711.8
32.5°	1667.5
35°	1624.7
37.5°	1577.3
40°	1523.9
42.5°	1468.8
45°	1395.5
47.5°	1172.3
50°	868.2
52.5°	405.0
55°	120.7
57.5°	58.1
60°	26.0
62.5°	9.2
65°	4.6
67.5°	4.6
70°	4.6
72.5°	4.6
75°	4.6
77.5°	4.6
80°	4.6
82.5°	3.1
85°	1.5
87.5°	1.5
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	4.35	5.64	4.71	5.96	6.27	4.35	5.64	4.71	5.96	6.27
	3H	4.26	5.39	4.64	5.72	6.09	4.26	5.39	4.64	5.72	6.09
	4H	4.23	5.29	4.64	5.64	6.02	4.23	5.29	4.64	5.64	6.02
	6H	4.25	5.22	4.67	5.59	5.98	4.25	5.22	4.67	5.59	5.98
	8H	4.26	5.17	4.69	5.56	5.97	4.26	5.17	4.69	5.56	5.97
	12H	4.25	5.11	4.68	5.50	5.93	4.25	5.11	4.68	5.50	5.93
4H	2H	4.15	5.20	4.55	5.55	5.94	4.15	5.20	4.55	5.55	5.94
	3H	4.08	4.93	4.50	5.33	5.73	4.08	4.93	4.50	5.33	5.73
	4H	4.08	4.83	4.52	5.25	5.69	4.08	4.83	4.52	5.25	5.69
	6H	4.17	4.82	4.64	5.26	5.73	4.17	4.82	4.64	5.26	5.73
	8H	4.20	4.80	4.67	5.25	5.72	4.20	4.80	4.67	5.25	5.72
	12H	4.20	4.73	4.69	5.22	5.69	4.20	4.73	4.69	5.22	5.69
8H	4H	3.99	4.59	4.46	5.04	5.51	3.99	4.59	4.46	5.04	5.51
	6H	4.14	4.63	4.64	5.13	5.61	4.14	4.63	4.64	5.13	5.61
	8H	4.20	4.65	4.72	5.16	5.66	4.20	4.65	4.72	5.16	5.66
	12H	4.23	4.63	4.74	5.13	5.70	4.23	4.63	4.74	5.13	5.70
12H	4H	3.96	4.49	4.44	4.97	5.45	3.96	4.49	4.44	4.97	5.45
	6H	4.10	4.55	4.63	5.07	5.56	4.10	4.55	4.63	5.07	5.56
	8H	4.20	4.60	4.71	5.10	5.67	4.20	4.60	4.71	5.10	5.67

END OF REPORT