

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: P1057189

Luminaire Tested: PRLX-CYL2S-X-935-10L-FL-U-S-X-X-BLAK

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057189
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-407-2)
Test Lab: INNOVATION CENTER
Issue Date: 8/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL2S-X-935-10L-FL-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 1000 LUMENS, FLOOD OPTIC (38-DEGREES)
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

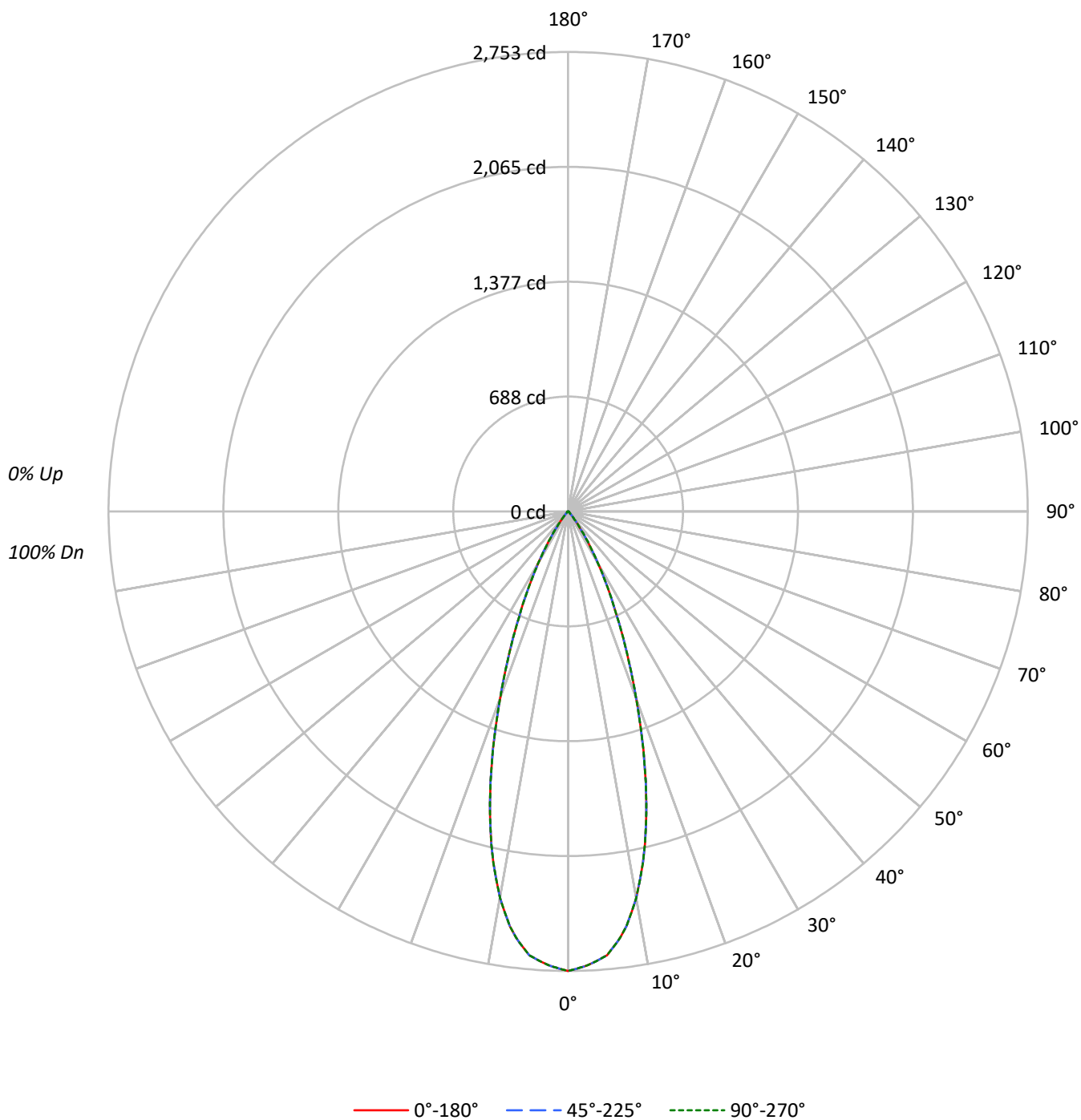
Lumens per Lamp: N/A
Luminaire Lumens: 1179.9 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.6
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 8.9
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95		95
2	110	106	102	100	108	104	101	98	101	98	96	98	96	94	95	94	92	91		91
3	106	100	96	93	104	99	95	92	96	93	91	94	91	89	92	90	88	87		87
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	88	86	84	82		82
5	98	91	86	82	96	90	85	82	88	84	81	87	83	81	85	82	80	79		79
6	94	87	82	78	93	86	81	78	85	80	77	83	80	77	82	79	76	75		75
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72		72
8	87	79	75	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69		69
9	84	76	71	68	83	76	71	68	75	71	68	74	70	68	73	70	67	66		66
10	81	73	69	65	80	73	68	65	72	68	65	71	68	65	71	67	65	64		64

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1774216	1774216	1774216
5°	1726720	1726720	1726720
10°	1538533	1538533	1538533
15°	1207145	1207145	1207145
20°	814223	814223	814223
25°	490403	490403	490403
30°	265276	265276	265276
35°	111789	111789	111789
40°	37266	37266	37266
45°	15949	15949	15949
50°	9324	9324	9324
55°	6516	6516	6516
60°	4511	4511	4511
65°	3507	3507	3507
70°	2261	2261	2261
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15949 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.3	20.7
10°-20°	490.7	41.6
20°-30°	322.2	27.3
30°-40°	99.2	8.4
40°-50°	15.7	1.3
50°-60°	5.3	0.5
60°-70°	2.0	0.2
70°-80°	0.5	0.0
80°-90°	0.0	0.0
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°	1057.2	89.6
0°-40°	1156.4	98.0
0°-60°	1177.4	99.8
0°-90°	1179.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1179.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2753	2753	2753	2753	2753	
5°	2669	2669	2669	2669	2669	244
15°	1809	1809	1809	1809	1809	491
25°	690	690	690	690	690	322
35°	142	142	142	142	142	99
45°	18	18	18	18	18	16
55°	6	6	6	6	6	5
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CATALOG NUMBER: PRLX-CYL2S-X-935-10L-FL-U-S-X-X-BLAK

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2753.2	2753.2	2753.2	2753.2	2753.2
1°	2740.6	2740.6	2740.6	2740.6	2740.6
2°	2728.0	2728.0	2728.0	2728.0	2728.0
3°	2711.2	2711.2	2711.2	2711.2	2711.2
4°	2690.2	2690.2	2690.2	2690.2	2690.2
5°	2669.3	2669.3	2669.3	2669.3	2669.3
6°	2620.3	2620.3	2620.3	2620.3	2620.3
7°	2571.4	2571.4	2571.4	2571.4	2571.4
8°	2507.8	2507.8	2507.8	2507.8	2507.8
9°	2429.5	2429.5	2429.5	2429.5	2429.5
10°	2351.2	2351.2	2351.2	2351.2	2351.2
11°	2251.5	2251.5	2251.5	2251.5	2251.5
12°	2151.7	2151.7	2151.7	2151.7	2151.7
13°	2043.4	2043.4	2043.4	2043.4	2043.4
14°	1926.4	1926.4	1926.4	1926.4	1926.4
15°	1809.4	1809.4	1809.4	1809.4	1809.4
16°	1685.0	1685.0	1685.0	1685.0	1685.0
17°	1560.6	1560.6	1560.6	1560.6	1560.6
18°	1436.1	1436.1	1436.1	1436.1	1436.1
19°	1311.7	1311.7	1311.7	1311.7	1311.7
20°	1187.3	1187.3	1187.3	1187.3	1187.3
21°	1078.7	1078.7	1078.7	1078.7	1078.7
22°	970.1	970.1	970.1	970.1	970.1
23°	870.6	870.6	870.6	870.6	870.6
24°	780.2	780.2	780.2	780.2	780.2
25°	689.7	689.7	689.7	689.7	689.7
26°	617.0	617.0	617.0	617.0	617.0
27°	544.3	544.3	544.3	544.3	544.3
28°	477.7	477.7	477.7	477.7	477.7
29°	417.1	417.1	417.1	417.1	417.1
30°	356.5	356.5	356.5	356.5	356.5
31°	307.1	307.1	307.1	307.1	307.1
32°	257.7	257.7	257.7	257.7	257.7
33°	214.8	214.8	214.8	214.8	214.8
34°	178.5	178.5	178.5	178.5	178.5
35°	142.1	142.1	142.1	142.1	142.1
36°	117.4	117.4	117.4	117.4	117.4
37°	92.7	92.7	92.7	92.7	92.7
38°	73.2	73.2	73.2	73.2	73.2
39°	58.7	58.7	58.7	58.7	58.7
40°	44.3	44.3	44.3	44.3	44.3
41°	36.8	36.8	36.8	36.8	36.8
42°	29.4	29.4	29.4	29.4	29.4
43°	24.0	24.0	24.0	24.0	24.0
44°	20.7	20.7	20.7	20.7	20.7

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CATALOG NUMBER: PRLX-CYL2S-X-935-10L-FL-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	17.5	17.5	17.5	17.5	17.5
46°	15.6	15.6	15.6	15.6	15.6
47°	13.7	13.7	13.7	13.7	13.7
48°	12.1	12.1	12.1	12.1	12.1
49°	10.7	10.7	10.7	10.7	10.7
50°	9.3	9.3	9.3	9.3	9.3
51°	8.4	8.4	8.4	8.4	8.4
52°	7.5	7.5	7.5	7.5	7.5
53°	6.8	6.8	6.8	6.8	6.8
54°	6.3	6.3	6.3	6.3	6.3
55°	5.8	5.8	5.8	5.8	5.8
56°	5.4	5.4	5.4	5.4	5.4
57°	4.9	4.9	4.9	4.9	4.9
58°	4.4	4.4	4.4	4.4	4.4
59°	4.0	4.0	4.0	4.0	4.0
60°	3.5	3.5	3.5	3.5	3.5
61°	3.0	3.0	3.0	3.0	3.0
62°	2.6	2.6	2.6	2.6	2.6
63°	2.3	2.3	2.3	2.3	2.3
64°	2.3	2.3	2.3	2.3	2.3
65°	2.3	2.3	2.3	2.3	2.3
66°	1.9	1.9	1.9	1.9	1.9
67°	1.4	1.4	1.4	1.4	1.4
68°	1.2	1.2	1.2	1.2	1.2
69°	1.2	1.2	1.2	1.2	1.2
70°	1.2	1.2	1.2	1.2	1.2
71°	1.2	1.2	1.2	1.2	1.2
72°	1.2	1.2	1.2	1.2	1.2
73°	0.9	0.9	0.9	0.9	0.9
74°	0.5	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0
89°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
90°	0.0	0.0	0.0	0.0	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	5.99	6.89	6.36	7.20	7.52	5.99	6.89	6.36	7.20	7.52
	3H	6.21	7.00	6.59	7.34	7.71	6.21	7.00	6.59	7.34	7.71
	4H	6.15	6.88	6.56	7.24	7.63	6.15	6.88	6.56	7.24	7.63
	6H	6.03	6.70	6.45	7.08	7.48	6.03	6.70	6.45	7.08	7.48
	8H	5.97	6.60	6.41	6.99	7.40	5.97	6.60	6.41	6.99	7.40
	12H	5.91	6.51	6.35	6.89	7.32	5.91	6.51	6.35	6.89	7.32
4H	2H	6.06	6.79	6.47	7.15	7.54	6.06	6.79	6.47	7.15	7.54
	3H	6.44	7.04	6.86	7.45	7.86	6.44	7.04	6.86	7.45	7.86
	4H	6.36	6.89	6.79	7.31	7.76	6.36	6.89	6.79	7.31	7.76
	6H	6.24	6.69	6.71	7.14	7.62	6.24	6.69	6.71	7.14	7.62
	8H	6.16	6.58	6.64	7.03	7.51	6.16	6.58	6.64	7.03	7.51
	12H	6.09	6.45	6.58	6.94	7.42	6.09	6.45	6.58	6.94	7.42
8H	4H	6.21	6.63	6.69	7.08	7.56	6.21	6.63	6.69	7.08	7.56
	6H	6.08	6.41	6.59	6.91	7.40	6.08	6.41	6.59	6.91	7.40
	8H	6.00	6.29	6.54	6.82	7.32	6.00	6.29	6.54	6.82	7.32
	12H	5.94	6.19	6.47	6.69	7.28	5.94	6.19	6.47	6.69	7.28
12H	4H	6.14	6.50	6.63	6.99	7.47	6.14	6.50	6.63	6.99	7.47
	6H	6.00	6.29	6.54	6.82	7.32	6.00	6.29	6.54	6.82	7.32
	8H	5.94	6.19	6.47	6.69	7.28	5.94	6.19	6.47	6.69	7.28

END OF REPORT