

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: P1057192

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

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057192
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-407-5)
Test Lab: INNOVATION CENTER
Issue Date: 8/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL2S-X-935-10L-SP-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 1000 LUMENS, SPOT OPTIC (19-DEGREES)
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

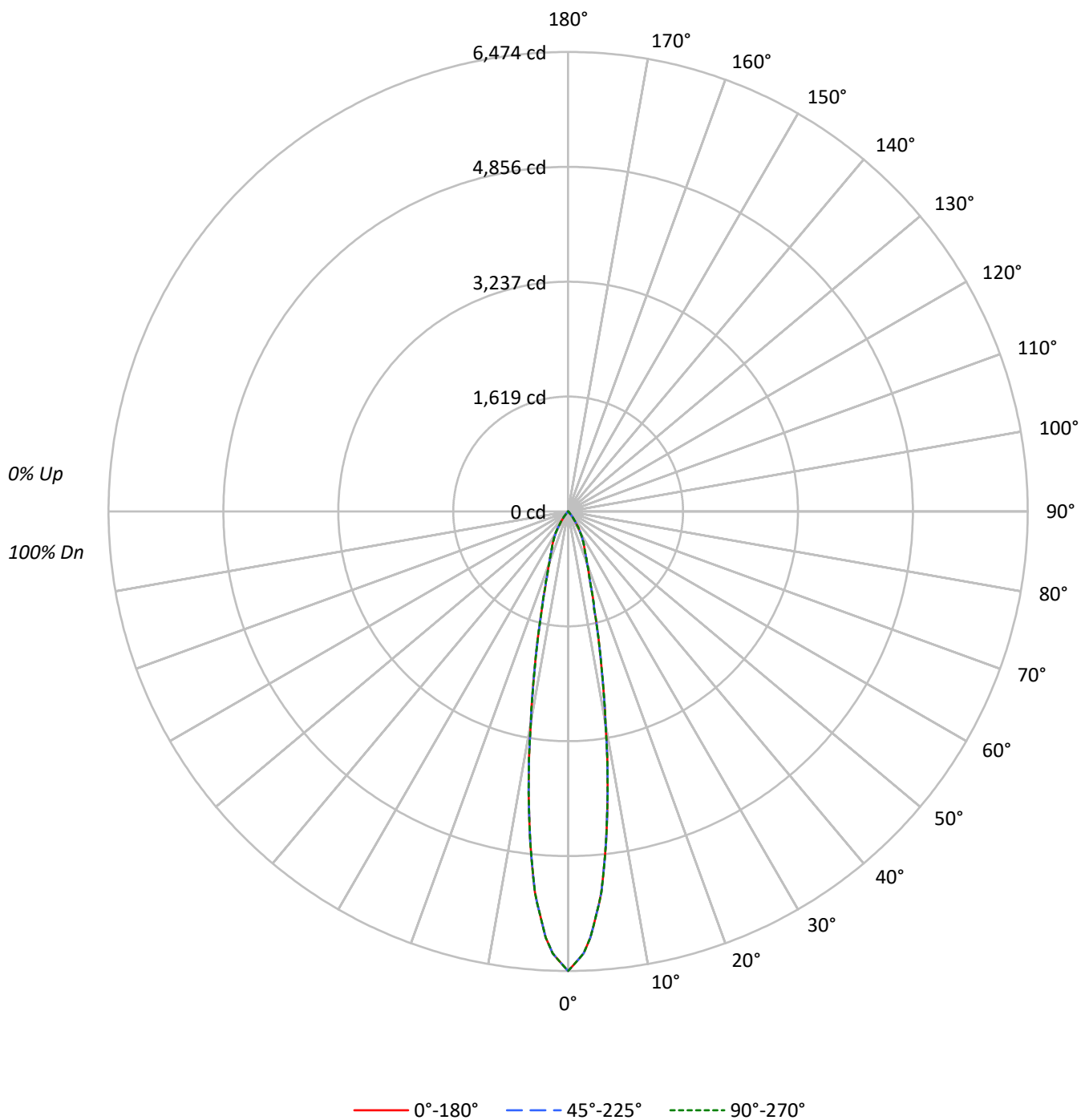
Lumens per Lamp: N/A
Luminaire Lumens: 1234.3 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.34
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: Direct

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					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	115	113	111	109	112	110	109	107		106	105	104		103	102	101		99	99	98
2	111	107	104	101	109	105	102	100		102	100	98		99	97	96		97	95	94
3	107	102	98	95	105	101	97	94		98	95	93		96	93	91		94	92	90
4	103	97	93	90	102	96	93	90		94	91	89		93	90	88		91	89	87
5	100	94	89	86	98	93	89	86		91	88	85		90	86	84		88	86	83
6	97	90	85	82	95	89	85	82		88	84	82		87	83	81		85	83	81
7	94	87	82	79	92	86	82	79		85	81	79		84	81	78		83	80	78
8	91	84	79	76	90	83	79	76		82	79	76		81	78	76		81	78	75
9	88	81	77	74	87	81	76	74		80	76	73		79	76	73		78	75	73
10	86	79	74	71	85	78	74	71		77	74	71		77	73	71		76	73	71

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4172295	4172295	4172295
5°	3482808	3482808	3482808
10°	1986051	1986051	1986051
15°	950625	950625	950625
20°	532163	532163	532163
25°	372797	372797	372797
30°	258356	258356	258356
35°	135626	135626	135626
40°	49969	49969	49969
45°	14855	14855	14855
50°	7018	7018	7018
55°	5281	5281	5281
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: 14855 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.6	35.1
10°-20°	422.1	34.2
20°-30°	242.9	19.7
30°-40°	112.1	9.1
40°-50°	17.0	1.4
50°-60°	4.0	0.3
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°	1098.7	89.0
0°-40°	1210.7	98.1
0°-60°	1231.8	99.8
0°-90°	1234.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1234.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6474	6474	6474	6474	6474	
5°	5384	5384	5384	5384	5384	434
15°	1425	1425	1425	1425	1425	422
25°	524	524	524	524	524	243
35°	172	172	172	172	172	112
45°	16	16	16	16	16	17
55°	5	5	5	5	5	4
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-SP-U-S-X-X-BLAK

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6474.5	6474.5	6474.5	6474.5	6474.5
1°	6352.0	6352.0	6352.0	6352.0	6352.0
2°	6229.4	6229.4	6229.4	6229.4	6229.4
3°	6011.3	6011.3	6011.3	6011.3	6011.3
4°	5697.6	5697.6	5697.6	5697.6	5697.6
5°	5384.0	5384.0	5384.0	5384.0	5384.0
6°	4925.9	4925.9	4925.9	4925.9	4925.9
7°	4467.7	4467.7	4467.7	4467.7	4467.7
8°	3998.0	3998.0	3998.0	3998.0	3998.0
9°	3516.5	3516.5	3516.5	3516.5	3516.5
10°	3035.1	3035.1	3035.1	3035.1	3035.1
11°	2651.1	2651.1	2651.1	2651.1	2651.1
12°	2267.1	2267.1	2267.1	2267.1	2267.1
13°	1945.0	1945.0	1945.0	1945.0	1945.0
14°	1685.0	1685.0	1685.0	1685.0	1685.0
15°	1424.9	1424.9	1424.9	1424.9	1424.9
16°	1261.8	1261.8	1261.8	1261.8	1261.8
17°	1098.7	1098.7	1098.7	1098.7	1098.7
18°	968.9	968.9	968.9	968.9	968.9
19°	872.4	872.4	872.4	872.4	872.4
20°	776.0	776.0	776.0	776.0	776.0
21°	716.8	716.8	716.8	716.8	716.8
22°	657.6	657.6	657.6	657.6	657.6
23°	607.3	607.3	607.3	607.3	607.3
24°	565.8	565.8	565.8	565.8	565.8
25°	524.3	524.3	524.3	524.3	524.3
26°	488.9	488.9	488.9	488.9	488.9
27°	453.5	453.5	453.5	453.5	453.5
28°	418.0	418.0	418.0	418.0	418.0
29°	382.6	382.6	382.6	382.6	382.6
30°	347.2	347.2	347.2	347.2	347.2
31°	310.4	310.4	310.4	310.4	310.4
32°	273.6	273.6	273.6	273.6	273.6
33°	238.6	238.6	238.6	238.6	238.6
34°	205.5	205.5	205.5	205.5	205.5
35°	172.4	172.4	172.4	172.4	172.4
36°	145.9	145.9	145.9	145.9	145.9
37°	119.3	119.3	119.3	119.3	119.3
38°	96.7	96.7	96.7	96.7	96.7
39°	78.1	78.1	78.1	78.1	78.1
40°	59.4	59.4	59.4	59.4	59.4
41°	48.2	48.2	48.2	48.2	48.2
42°	37.1	37.1	37.1	37.1	37.1
43°	28.4	28.4	28.4	28.4	28.4
44°	22.4	22.4	22.4	22.4	22.4

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	16.3	16.3	16.3	16.3	16.3
46°	13.5	13.5	13.5	13.5	13.5
47°	10.7	10.7	10.7	10.7	10.7
48°	8.9	8.9	8.9	8.9	8.9
49°	7.9	7.9	7.9	7.9	7.9
50°	7.0	7.0	7.0	7.0	7.0
51°	6.1	6.1	6.1	6.1	6.1
52°	5.1	5.1	5.1	5.1	5.1
53°	4.7	4.7	4.7	4.7	4.7
54°	4.7	4.7	4.7	4.7	4.7
55°	4.7	4.7	4.7	4.7	4.7
56°	4.2	4.2	4.2	4.2	4.2
57°	3.7	3.7	3.7	3.7	3.7
58°	3.5	3.5	3.5	3.5	3.5
59°	3.5	3.5	3.5	3.5	3.5
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	4.13	5.03	4.49	5.34	5.65	4.13	5.03	4.49	5.34	5.65
	3H	4.60	5.39	4.98	5.72	6.09	4.60	5.39	4.98	5.72	6.09
	4H	4.57	5.30	4.97	5.65	6.04	4.57	5.30	4.97	5.65	6.04
	6H	4.45	5.11	4.87	5.49	5.89	4.45	5.11	4.87	5.49	5.89
	8H	4.39	5.01	4.82	5.40	5.82	4.39	5.01	4.82	5.40	5.82
	12H	4.32	4.92	4.76	5.30	5.74	4.32	4.92	4.76	5.30	5.74
4H	2H	4.43	5.16	4.83	5.51	5.90	4.43	5.16	4.83	5.51	5.90
	3H	5.09	5.69	5.51	6.10	6.51	5.09	5.69	5.51	6.10	6.51
	4H	5.02	5.55	5.46	5.98	6.43	5.02	5.55	5.46	5.98	6.43
	6H	4.90	5.36	5.38	5.81	6.28	4.90	5.36	5.38	5.81	6.28
	8H	4.83	5.25	5.31	5.70	6.18	4.83	5.25	5.31	5.70	6.18
	12H	4.76	5.12	5.25	5.61	6.09	4.76	5.12	5.25	5.61	6.09
8H	4H	4.90	5.32	5.37	5.77	6.24	4.90	5.32	5.37	5.77	6.24
	6H	4.77	5.09	5.28	5.60	6.09	4.77	5.09	5.28	5.60	6.09
	8H	4.69	4.98	5.23	5.50	6.00	4.69	4.98	5.23	5.50	6.00
	12H	4.63	4.88	5.16	5.38	5.96	4.63	4.88	5.16	5.38	5.96
12H	4H	4.83	5.19	5.32	5.68	6.15	4.83	5.19	5.32	5.68	6.15
	6H	4.69	4.98	5.23	5.50	6.00	4.69	4.98	5.23	5.50	6.00
	8H	4.63	4.88	5.16	5.38	5.96	4.63	4.88	5.16	5.38	5.96