

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: P1057198

Luminaire Tested: PRLX-CYL2S-X-940-10L-MD-U-S-X-X-BLAK

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057198
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-407-4)
Test Lab: INNOVATION CENTER
Issue Date: 8/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL2S-X-940-10L-MD-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 1000 LUMENS, MEDIUM OPTIC (23-DEGREES)
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

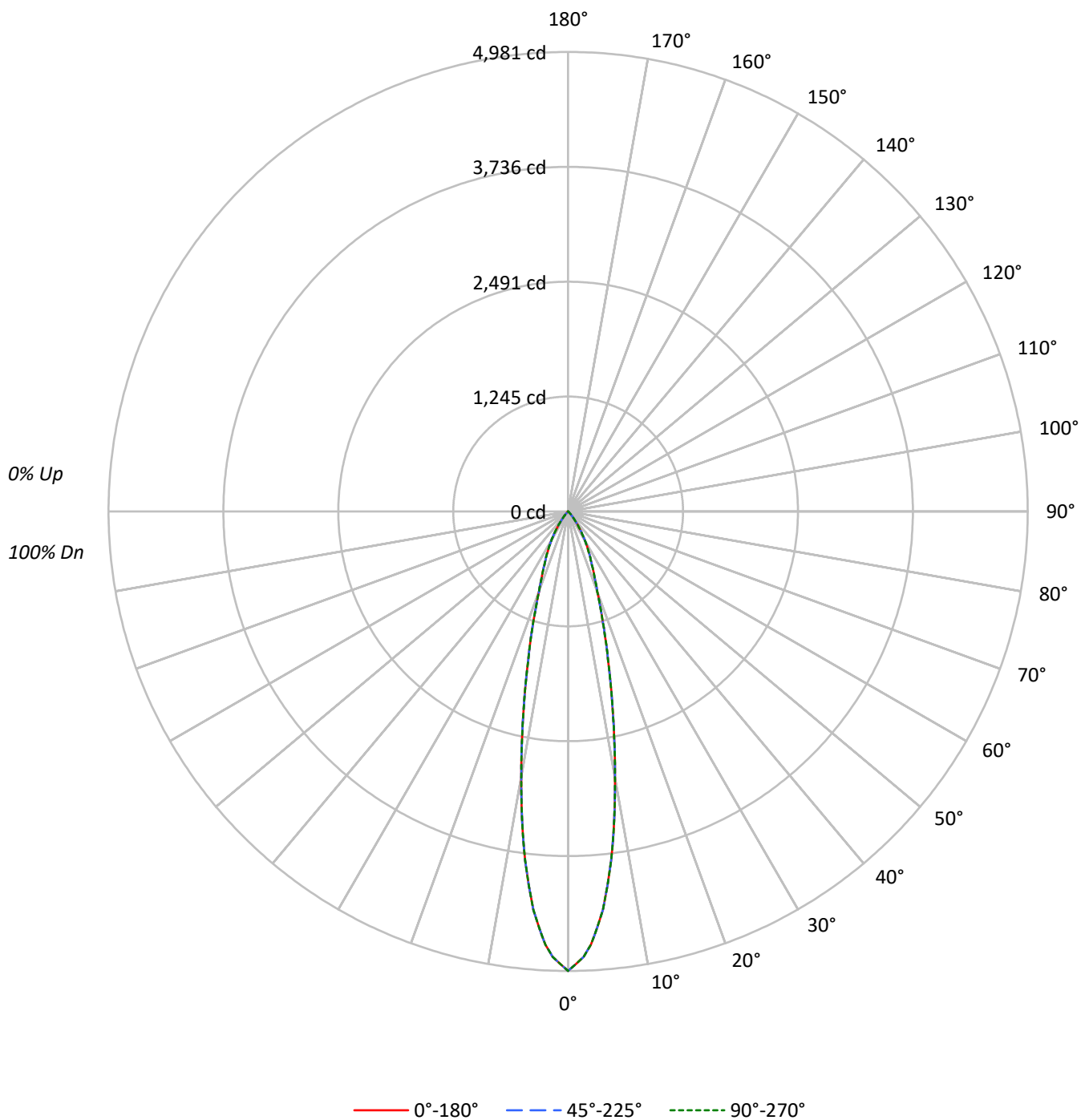
Lumens per Lamp: N/A
Luminaire Lumens: 1256.2 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.42
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: Direct

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	112	110	108	112	110	108	107		106	105	103		103	101	100		99	98	97
2	110	106	103	100	108	105	102	99		102	99	97		99	97	95		96	94	93
3	106	101	97	94	104	100	96	93		97	94	92		95	92	90		93	91	89
4	102	96	92	89	101	95	91	88		93	90	87		91	89	86		90	87	85
5	99	92	88	84	97	91	87	84		90	86	83		88	85	83		87	84	82
6	95	88	84	80	94	88	83	80		86	83	80		85	82	79		84	81	79
7	92	85	80	77	91	84	80	77		83	79	76		82	79	76		81	78	76
8	89	82	77	74	88	81	77	74		80	76	74		79	76	73		79	75	73
9	86	79	74	71	85	78	74	71		78	74	71		77	73	71		76	73	70
10	84	76	72	69	83	76	72	69		75	71	68		74	71	68		74	71	68

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3209725	3209725	3209725
5°	2803907	2803907	2803907
10°	1912566	1912566	1912566
15°	1114611	1114611	1114611
20°	635098	635098	635098
25°	411051	411051	411051
30°	271824	271824	271824
35°	142784	142784	142784
40°	55437	55437	55437
45°	17954	17954	17954
50°	9223	9223	9223
55°	6516	6516	6516
60°	4511	4511	4511
65°	3507	3507	3507
70°	2261	2261	2261
75°	2988	2988	2988
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17954 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.6	29.2
10°-20°	470.4	37.5
20°-30°	271.5	21.6
30°-40°	118.8	9.5
40°-50°	20.2	1.6
50°-60°	5.3	0.4
60°-70°	2.6	0.2
70°-80°	0.8	0.1
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°	1108.6	88.3
0°-40°	1227.4	97.7
0°-60°	1252.8	99.7
0°-90°	1256.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1256.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4981	4981	4981	4981	4981	
5°	4334	4334	4334	4334	4334	367
15°	1671	1671	1671	1671	1671	470
25°	578	578	578	578	578	272
35°	182	182	182	182	182	119
45°	20	20	20	20	20	20
55°	6	6	6	6	6	5
65°	2	2	2	2	2	3
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4980.8	4980.8	4980.8	4980.8	4980.8
1°	4906.3	4906.3	4906.3	4906.3	4906.3
2°	4831.8	4831.8	4831.8	4831.8	4831.8
3°	4702.6	4702.6	4702.6	4702.6	4702.6
4°	4518.5	4518.5	4518.5	4518.5	4518.5
5°	4334.5	4334.5	4334.5	4334.5	4334.5
6°	4074.1	4074.1	4074.1	4074.1	4074.1
7°	3813.7	3813.7	3813.7	3813.7	3813.7
8°	3531.4	3531.4	3531.4	3531.4	3531.4
9°	3227.1	3227.1	3227.1	3227.1	3227.1
10°	2922.8	2922.8	2922.8	2922.8	2922.8
11°	2646.2	2646.2	2646.2	2646.2	2646.2
12°	2369.7	2369.7	2369.7	2369.7	2369.7
13°	2119.3	2119.3	2119.3	2119.3	2119.3
14°	1895.0	1895.0	1895.0	1895.0	1895.0
15°	1670.7	1670.7	1670.7	1670.7	1670.7
16°	1496.8	1496.8	1496.8	1496.8	1496.8
17°	1322.9	1322.9	1322.9	1322.9	1322.9
18°	1174.0	1174.0	1174.0	1174.0	1174.0
19°	1050.0	1050.0	1050.0	1050.0	1050.0
20°	926.1	926.1	926.1	926.1	926.1
21°	844.2	844.2	844.2	844.2	844.2
22°	762.4	762.4	762.4	762.4	762.4
23°	692.8	692.8	692.8	692.8	692.8
24°	635.4	635.4	635.4	635.4	635.4
25°	578.1	578.1	578.1	578.1	578.1
26°	533.7	533.7	533.7	533.7	533.7
27°	489.3	489.3	489.3	489.3	489.3
28°	446.7	446.7	446.7	446.7	446.7
29°	406.0	406.0	406.0	406.0	406.0
30°	365.3	365.3	365.3	365.3	365.3
31°	327.0	327.0	327.0	327.0	327.0
32°	288.6	288.6	288.6	288.6	288.6
33°	251.8	251.8	251.8	251.8	251.8
34°	216.7	216.7	216.7	216.7	216.7
35°	181.5	181.5	181.5	181.5	181.5
36°	154.7	154.7	154.7	154.7	154.7
37°	127.9	127.9	127.9	127.9	127.9
38°	104.7	104.7	104.7	104.7	104.7
39°	85.3	85.3	85.3	85.3	85.3
40°	65.9	65.9	65.9	65.9	65.9
41°	54.3	54.3	54.3	54.3	54.3
42°	42.8	42.8	42.8	42.8	42.8
43°	33.5	33.5	33.5	33.5	33.5
44°	26.6	26.6	26.6	26.6	26.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	19.7	19.7	19.7	19.7	19.7
46°	16.9	16.9	16.9	16.9	16.9
47°	14.1	14.1	14.1	14.1	14.1
48°	12.0	12.0	12.0	12.0	12.0
49°	10.6	10.6	10.6	10.6	10.6
50°	9.2	9.2	9.2	9.2	9.2
51°	8.3	8.3	8.3	8.3	8.3
52°	7.4	7.4	7.4	7.4	7.4
53°	6.7	6.7	6.7	6.7	6.7
54°	6.2	6.2	6.2	6.2	6.2
55°	5.8	5.8	5.8	5.8	5.8
56°	5.3	5.3	5.3	5.3	5.3
57°	4.9	4.9	4.9	4.9	4.9
58°	4.4	4.4	4.4	4.4	4.4
59°	3.9	3.9	3.9	3.9	3.9
60°	3.5	3.5	3.5	3.5	3.5
61°	3.5	3.5	3.5	3.5	3.5
62°	3.5	3.5	3.5	3.5	3.5
63°	3.2	3.2	3.2	3.2	3.2
64°	2.8	2.8	2.8	2.8	2.8
65°	2.3	2.3	2.3	2.3	2.3
66°	2.3	2.3	2.3	2.3	2.3
67°	2.3	2.3	2.3	2.3	2.3
68°	2.1	2.1	2.1	2.1	2.1
69°	1.6	1.6	1.6	1.6	1.6
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°	1.2	1.2	1.2	1.2	1.2
74°	1.2	1.2	1.2	1.2	1.2
75°	1.2	1.2	1.2	1.2	1.2
76°	0.7	0.7	0.7	0.7	0.7
77°	0.2	0.2	0.2	0.2	0.2
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	5.77	6.67	6.13	6.98	7.30	5.77	6.67	6.13	6.98	7.30
	3H	6.47	7.27	6.86	7.60	7.97	6.47	7.27	6.86	7.60	7.97
	4H	6.76	7.49	7.17	7.85	8.24	6.76	7.49	7.17	7.85	8.24
	6H	6.64	7.31	7.06	7.69	8.09	6.64	7.31	7.06	7.69	8.09
	8H	6.58	7.21	7.02	7.60	8.02	6.58	7.21	7.02	7.60	8.02
	12H	6.52	7.12	6.96	7.50	7.94	6.52	7.12	6.96	7.50	7.94
4H	2H	5.88	6.61	6.29	6.97	7.36	5.88	6.61	6.29	6.97	7.36
	3H	6.67	7.27	7.08	7.68	8.08	6.67	7.27	7.08	7.68	8.08
	4H	7.06	7.59	7.50	8.02	8.47	7.06	7.59	7.50	8.02	8.47
	6H	6.94	7.40	7.42	7.85	8.33	6.94	7.40	7.42	7.85	8.33
	8H	6.87	7.29	7.35	7.74	8.22	6.87	7.29	7.35	7.74	8.22
	12H	6.80	7.16	7.29	7.65	8.13	6.80	7.16	7.29	7.65	8.13
8H	4H	6.99	7.41	7.47	7.86	8.34	6.99	7.41	7.47	7.86	8.34
	6H	6.86	7.19	7.37	7.70	8.18	6.86	7.19	7.37	7.70	8.18
	8H	6.79	7.08	7.32	7.60	8.10	6.79	7.08	7.32	7.60	8.10
	12H	6.73	6.98	7.25	7.48	8.06	6.73	6.98	7.25	7.48	8.06
12H	4H	6.92	7.28	7.41	7.77	8.25	6.92	7.28	7.41	7.77	8.25
	6H	6.79	7.08	7.32	7.60	8.10	6.79	7.08	7.32	7.60	8.10
	8H	6.73	6.98	7.25	7.48	8.06	6.73	6.98	7.25	7.48	8.06