

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: P1057200

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

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057200
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-940-10L-SP-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 1000 LUMENS, SPOT OPTIC (19-DEGREES)
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

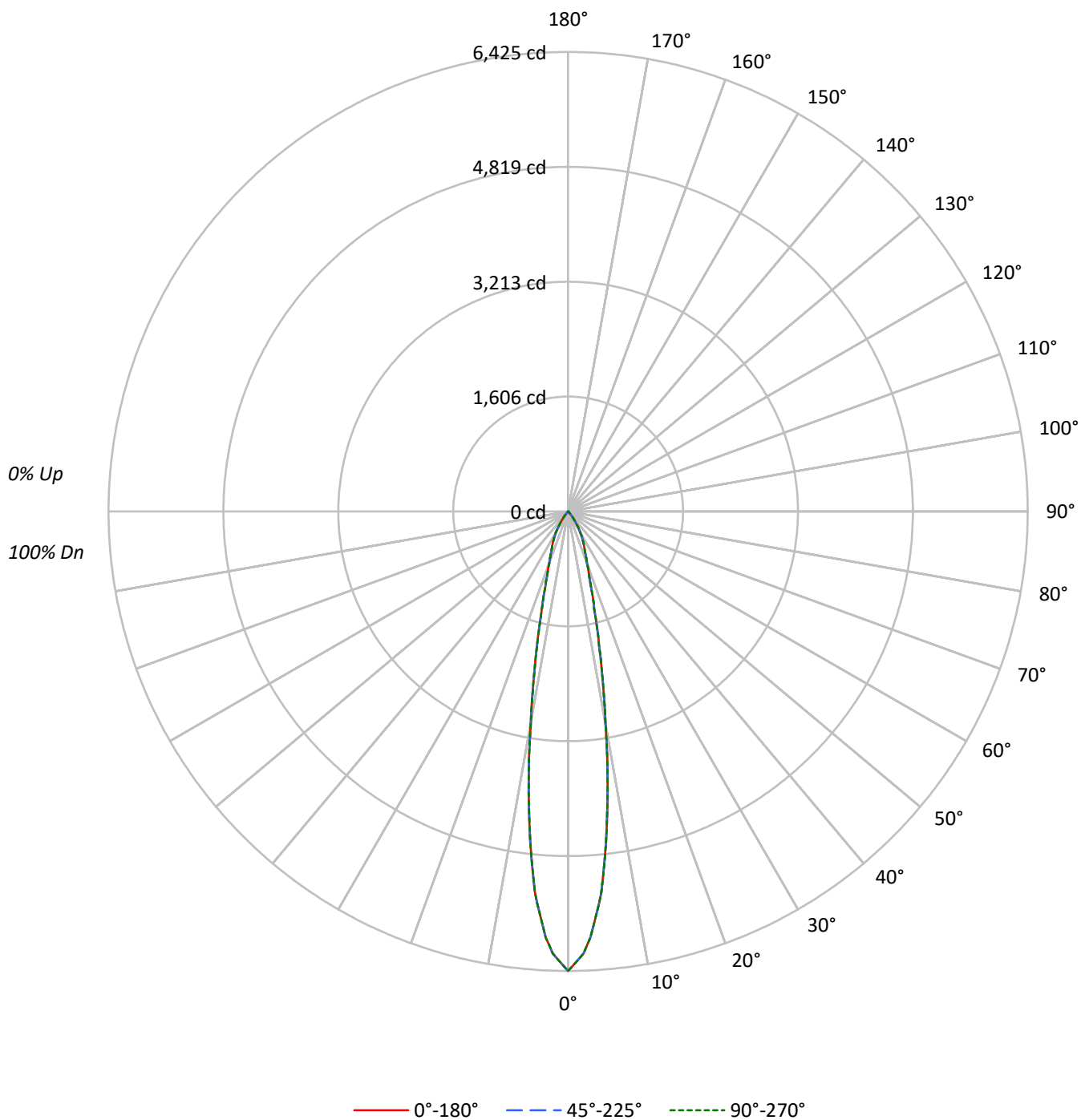
Lumens per Lamp: N/A
Luminaire Lumens: 1224.8 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.34
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: Direct

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°	4140332	4140332	4140332
5°	3456092	3456092	3456092
10°	1970804	1970804	1970804
15°	943353	943353	943353
20°	528048	528048	528048
25°	369953	369953	369953
30°	256346	256346	256346
35°	134603	134603	134603
40°	49633	49633	49633
45°	14764	14764	14764
50°	6918	6918	6918
55°	5168	5168	5168
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: 14764 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.3	35.1
10°-20°	418.9	34.2
20°-30°	241.1	19.7
30°-40°	111.2	9.1
40°-50°	16.9	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°	1090.3	89.0
0°-40°	1201.5	98.1
0°-60°	1222.3	99.8
0°-90°	1224.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1224.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6425	6425	6425	6425	6425	
5°	5343	5343	5343	5343	5343	430
15°	1414	1414	1414	1414	1414	419
25°	520	520	520	520	520	241
35°	171	171	171	171	171	111
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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6424.9	6424.9	6424.9	6424.9	6424.9
1°	6303.2	6303.2	6303.2	6303.2	6303.2
2°	6181.6	6181.6	6181.6	6181.6	6181.6
3°	5965.2	5965.2	5965.2	5965.2	5965.2
4°	5653.9	5653.9	5653.9	5653.9	5653.9
5°	5342.7	5342.7	5342.7	5342.7	5342.7
6°	4888.1	4888.1	4888.1	4888.1	4888.1
7°	4433.5	4433.5	4433.5	4433.5	4433.5
8°	3967.3	3967.3	3967.3	3967.3	3967.3
9°	3489.6	3489.6	3489.6	3489.6	3489.6
10°	3011.8	3011.8	3011.8	3011.8	3011.8
11°	2630.8	2630.8	2630.8	2630.8	2630.8
12°	2249.7	2249.7	2249.7	2249.7	2249.7
13°	1930.1	1930.1	1930.1	1930.1	1930.1
14°	1672.1	1672.1	1672.1	1672.1	1672.1
15°	1414.0	1414.0	1414.0	1414.0	1414.0
16°	1252.1	1252.1	1252.1	1252.1	1252.1
17°	1090.3	1090.3	1090.3	1090.3	1090.3
18°	961.5	961.5	961.5	961.5	961.5
19°	865.7	865.7	865.7	865.7	865.7
20°	770.0	770.0	770.0	770.0	770.0
21°	711.3	711.3	711.3	711.3	711.3
22°	652.5	652.5	652.5	652.5	652.5
23°	602.6	602.6	602.6	602.6	602.6
24°	561.4	561.4	561.4	561.4	561.4
25°	520.3	520.3	520.3	520.3	520.3
26°	485.1	485.1	485.1	485.1	485.1
27°	450.0	450.0	450.0	450.0	450.0
28°	414.8	414.8	414.8	414.8	414.8
29°	379.7	379.7	379.7	379.7	379.7
30°	344.5	344.5	344.5	344.5	344.5
31°	308.0	308.0	308.0	308.0	308.0
32°	271.5	271.5	271.5	271.5	271.5
33°	236.8	236.8	236.8	236.8	236.8
34°	203.9	203.9	203.9	203.9	203.9
35°	171.1	171.1	171.1	171.1	171.1
36°	144.8	144.8	144.8	144.8	144.8
37°	118.4	118.4	118.4	118.4	118.4
38°	96.0	96.0	96.0	96.0	96.0
39°	77.5	77.5	77.5	77.5	77.5
40°	59.0	59.0	59.0	59.0	59.0
41°	47.9	47.9	47.9	47.9	47.9
42°	36.8	36.8	36.8	36.8	36.8
43°	28.2	28.2	28.2	28.2	28.2
44°	22.2	22.2	22.2	22.2	22.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	16.2	16.2	16.2	16.2	16.2
46°	13.4	13.4	13.4	13.4	13.4
47°	10.6	10.6	10.6	10.6	10.6
48°	8.8	8.8	8.8	8.8	8.8
49°	7.9	7.9	7.9	7.9	7.9
50°	6.9	6.9	6.9	6.9	6.9
51°	6.0	6.0	6.0	6.0	6.0
52°	5.1	5.1	5.1	5.1	5.1
53°	4.6	4.6	4.6	4.6	4.6
54°	4.6	4.6	4.6	4.6	4.6
55°	4.6	4.6	4.6	4.6	4.6
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°	2.5	2.5	2.5	2.5	2.5
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°	1.8	1.8	1.8	1.8	1.8
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	4.15	5.05	4.52	5.37	5.68	4.15	5.05	4.52	5.37	5.68
	3H	4.62	5.42	5.01	5.75	6.12	4.62	5.42	5.01	5.75	6.12
	4H	4.59	5.32	5.00	5.68	6.07	4.59	5.32	5.00	5.68	6.07
	6H	4.47	5.14	4.89	5.52	5.92	4.47	5.14	4.89	5.52	5.92
	8H	4.41	5.04	4.85	5.43	5.84	4.41	5.04	4.85	5.43	5.84
	12H	4.35	4.95	4.79	5.33	5.76	4.35	4.95	4.79	5.33	5.76
4H	2H	4.45	5.18	4.86	5.54	5.93	4.45	5.18	4.86	5.54	5.93
	3H	5.12	5.71	5.54	6.13	6.53	5.12	5.71	5.54	6.13	6.53
	4H	5.05	5.58	5.49	6.01	6.46	5.05	5.58	5.49	6.01	6.46
	6H	4.93	5.38	5.40	5.83	6.31	4.93	5.38	5.40	5.83	6.31
	8H	4.85	5.27	5.33	5.73	6.20	4.85	5.27	5.33	5.73	6.20
	12H	4.79	5.14	5.28	5.63	6.11	4.79	5.14	5.28	5.63	6.11
8H	4H	4.92	5.34	5.40	5.79	6.27	4.92	5.34	5.40	5.79	6.27
	6H	4.79	5.12	5.31	5.63	6.11	4.79	5.12	5.31	5.63	6.11
	8H	4.72	5.01	5.25	5.53	6.03	4.72	5.01	5.25	5.53	6.03
	12H	4.66	4.91	5.18	5.41	5.99	4.66	4.91	5.18	5.41	5.99
12H	4H	4.85	5.21	5.35	5.70	6.18	4.85	5.21	5.35	5.70	6.18
	6H	4.72	5.01	5.25	5.53	6.03	4.72	5.01	5.25	5.53	6.03
	8H	4.66	4.91	5.18	5.41	5.99	4.66	4.91	5.18	5.41	5.99