

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: P1057204

Luminaire Tested: PRLX-CYL2S-X-940-15L-SP-U-S-X-X-BLAK

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057204
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-940-15L-SP-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 1500 LUMENS, SPOT OPTIC (19-DEGREES)
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

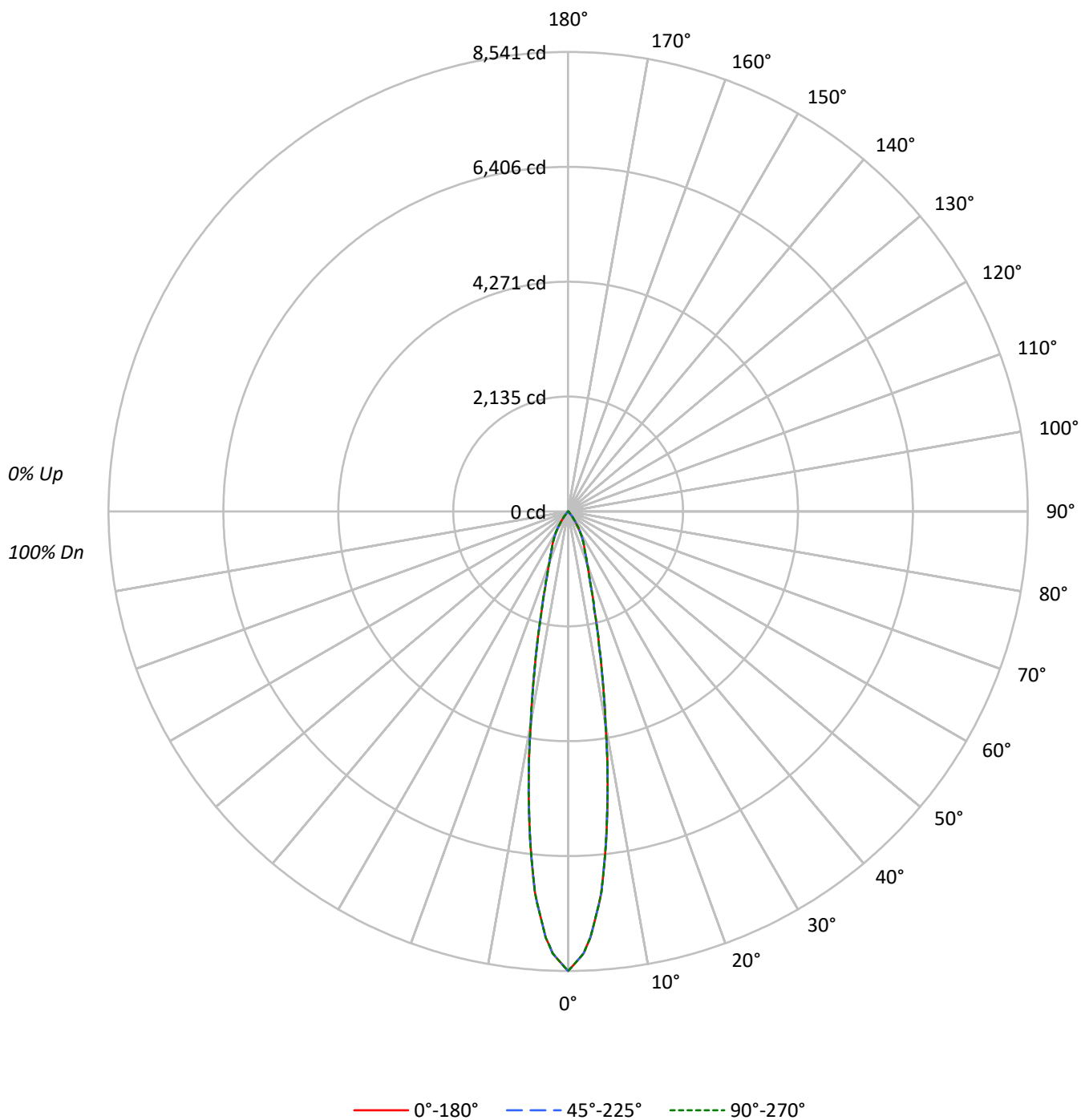
Lumens per Lamp: N/A
Luminaire Lumens: 1628.2 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.34
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 13
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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96		
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92		
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89		
4	103	97	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85		
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82		
6	97	90	86	82	95	89	85	82	88	84	82	87	83	81	85	83	81	79		
7	94	87	82	79	92	86	82	79	85	81	79	84	81	78	83	80	78	77		
8	91	84	79	76	90	83	79	76	82	79	76	81	78	76	81	78	75	74		
9	88	81	77	74	87	81	76	74	80	76	73	79	76	73	78	75	73	72		
10	86	79	74	71	85	78	74	71	77	74	71	77	73	71	76	73	71	70		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5503988	5503988	5503988
5°	4594409	4594409	4594409
10°	2619930	2619930	2619930
15°	1254046	1254046	1254046
20°	701961	701961	701961
25°	491754	491754	491754
30°	340803	340803	340803
35°	178972	178972	178972
40°	65952	65952	65952
45°	19594	19594	19594
50°	9223	9223	9223
55°	6853	6853	6853
60°	5929	5929	5929
65°	4727	4727	4727
70°	2826	2826	2826
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19594 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.0	35.1
10°-20°	556.9	34.2
20°-30°	320.5	19.7
30°-40°	147.8	9.1
40°-50°	22.4	1.4
50°-60°	5.3	0.3
60°-70°	2.7	0.2
70°-80°	0.6	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°	1449.4	89.0
0°-40°	1597.2	98.1
0°-60°	1624.9	99.8
0°-90°	1628.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1628.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8541	8541	8541	8541	8541	
5°	7102	7102	7102	7102	7102	572
15°	1880	1880	1880	1880	1880	557
25°	692	692	692	692	692	320
35°	228	228	228	228	228	148
45°	22	22	22	22	22	22
55°	6	6	6	6	6	5
65°	3	3	3	3	3	3
75°	0	0	0	0	0	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°	8541.0	8541.0	8541.0	8541.0	8541.0
1°	8379.3	8379.3	8379.3	8379.3	8379.3
2°	8217.6	8217.6	8217.6	8217.6	8217.6
3°	7929.9	7929.9	7929.9	7929.9	7929.9
4°	7516.2	7516.2	7516.2	7516.2	7516.2
5°	7102.4	7102.4	7102.4	7102.4	7102.4
6°	6498.1	6498.1	6498.1	6498.1	6498.1
7°	5893.7	5893.7	5893.7	5893.7	5893.7
8°	5274.0	5274.0	5274.0	5274.0	5274.0
9°	4638.9	4638.9	4638.9	4638.9	4638.9
10°	4003.8	4003.8	4003.8	4003.8	4003.8
11°	3497.2	3497.2	3497.2	3497.2	3497.2
12°	2990.7	2990.7	2990.7	2990.7	2990.7
13°	2565.8	2565.8	2565.8	2565.8	2565.8
14°	2222.8	2222.8	2222.8	2222.8	2222.8
15°	1879.7	1879.7	1879.7	1879.7	1879.7
16°	1664.6	1664.6	1664.6	1664.6	1664.6
17°	1449.4	1449.4	1449.4	1449.4	1449.4
18°	1278.2	1278.2	1278.2	1278.2	1278.2
19°	1150.9	1150.9	1150.9	1150.9	1150.9
20°	1023.6	1023.6	1023.6	1023.6	1023.6
21°	945.6	945.6	945.6	945.6	945.6
22°	867.5	867.5	867.5	867.5	867.5
23°	801.1	801.1	801.1	801.1	801.1
24°	746.4	746.4	746.4	746.4	746.4
25°	691.6	691.6	691.6	691.6	691.6
26°	644.9	644.9	644.9	644.9	644.9
27°	598.2	598.2	598.2	598.2	598.2
28°	551.5	551.5	551.5	551.5	551.5
29°	504.7	504.7	504.7	504.7	504.7
30°	458.0	458.0	458.0	458.0	458.0
31°	409.5	409.5	409.5	409.5	409.5
32°	360.9	360.9	360.9	360.9	360.9
33°	314.8	314.8	314.8	314.8	314.8
34°	271.1	271.1	271.1	271.1	271.1
35°	227.5	227.5	227.5	227.5	227.5
36°	192.4	192.4	192.4	192.4	192.4
37°	157.4	157.4	157.4	157.4	157.4
38°	127.6	127.6	127.6	127.6	127.6
39°	103.0	103.0	103.0	103.0	103.0
40°	78.4	78.4	78.4	78.4	78.4
41°	63.6	63.6	63.6	63.6	63.6
42°	48.9	48.9	48.9	48.9	48.9
43°	37.5	37.5	37.5	37.5	37.5
44°	29.5	29.5	29.5	29.5	29.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	21.5	21.5	21.5	21.5	21.5
46°	17.8	17.8	17.8	17.8	17.8
47°	14.1	14.1	14.1	14.1	14.1
48°	11.7	11.7	11.7	11.7	11.7
49°	10.5	10.5	10.5	10.5	10.5
50°	9.2	9.2	9.2	9.2	9.2
51°	8.0	8.0	8.0	8.0	8.0
52°	6.8	6.8	6.8	6.8	6.8
53°	6.1	6.1	6.1	6.1	6.1
54°	6.1	6.1	6.1	6.1	6.1
55°	6.1	6.1	6.1	6.1	6.1
56°	5.5	5.5	5.5	5.5	5.5
57°	4.9	4.9	4.9	4.9	4.9
58°	4.6	4.6	4.6	4.6	4.6
59°	4.6	4.6	4.6	4.6	4.6
60°	4.6	4.6	4.6	4.6	4.6
61°	4.0	4.0	4.0	4.0	4.0
62°	3.4	3.4	3.4	3.4	3.4
63°	3.1	3.1	3.1	3.1	3.1
64°	3.1	3.1	3.1	3.1	3.1
65°	3.1	3.1	3.1	3.1	3.1
66°	2.5	2.5	2.5	2.5	2.5
67°	1.8	1.8	1.8	1.8	1.8
68°	1.5	1.5	1.5	1.5	1.5
69°	1.5	1.5	1.5	1.5	1.5
70°	1.5	1.5	1.5	1.5	1.5
71°	1.5	1.5	1.5	1.5	1.5
72°	1.5	1.5	1.5	1.5	1.5
73°	1.2	1.2	1.2	1.2	1.2
74°	0.6	0.6	0.6	0.6	0.6
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	5.08	5.98	5.45	6.29	6.61	5.08	5.98	5.45	6.29	6.61
	3H	5.49	6.28	5.87	6.61	6.98	5.49	6.28	5.87	6.61	6.98
	4H	5.44	6.18	5.85	6.53	6.92	5.44	6.18	5.85	6.53	6.92
	6H	5.33	5.99	5.75	6.37	6.77	5.33	5.99	5.75	6.37	6.77
	8H	5.27	5.89	5.70	6.28	6.69	5.27	5.89	5.70	6.28	6.69
	12H	5.20	5.80	5.64	6.18	6.61	5.20	5.80	5.64	6.18	6.61
4H	2H	5.41	6.14	5.81	6.49	6.88	5.41	6.14	5.81	6.49	6.88
	3H	5.99	6.58	6.40	6.99	7.40	5.99	6.58	6.40	6.99	7.40
	4H	5.91	6.44	6.35	6.86	7.31	5.91	6.44	6.35	6.86	7.31
	6H	5.79	6.24	6.26	6.69	7.17	5.79	6.24	6.26	6.69	7.17
	8H	5.71	6.13	6.19	6.59	7.06	5.71	6.13	6.19	6.59	7.06
	12H	5.64	6.00	6.14	6.49	6.97	5.64	6.00	6.14	6.49	6.97
8H	4H	5.77	6.19	6.25	6.65	7.12	5.77	6.19	6.25	6.65	7.12
	6H	5.65	5.97	6.16	6.48	6.97	5.65	5.97	6.16	6.48	6.97
	8H	5.57	5.86	6.10	6.38	6.88	5.57	5.86	6.10	6.38	6.88
	12H	5.51	5.76	6.04	6.26	6.84	5.51	5.76	6.04	6.26	6.84
12H	4H	5.71	6.06	6.20	6.55	7.03	5.71	6.06	6.20	6.55	7.03
	6H	5.57	5.86	6.10	6.38	6.88	5.57	5.86	6.10	6.38	6.88
	8H	5.51	5.76	6.04	6.26	6.84	5.51	5.76	6.04	6.26	6.84