

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: P1057196

Luminaire Tested: PRLX-CYL2S-X-935-15L-SP-U-S-X-X-BLAK

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057196
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-935-15L-SP-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 1500 LUMENS, SPOT OPTIC (19-DEGREES)
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

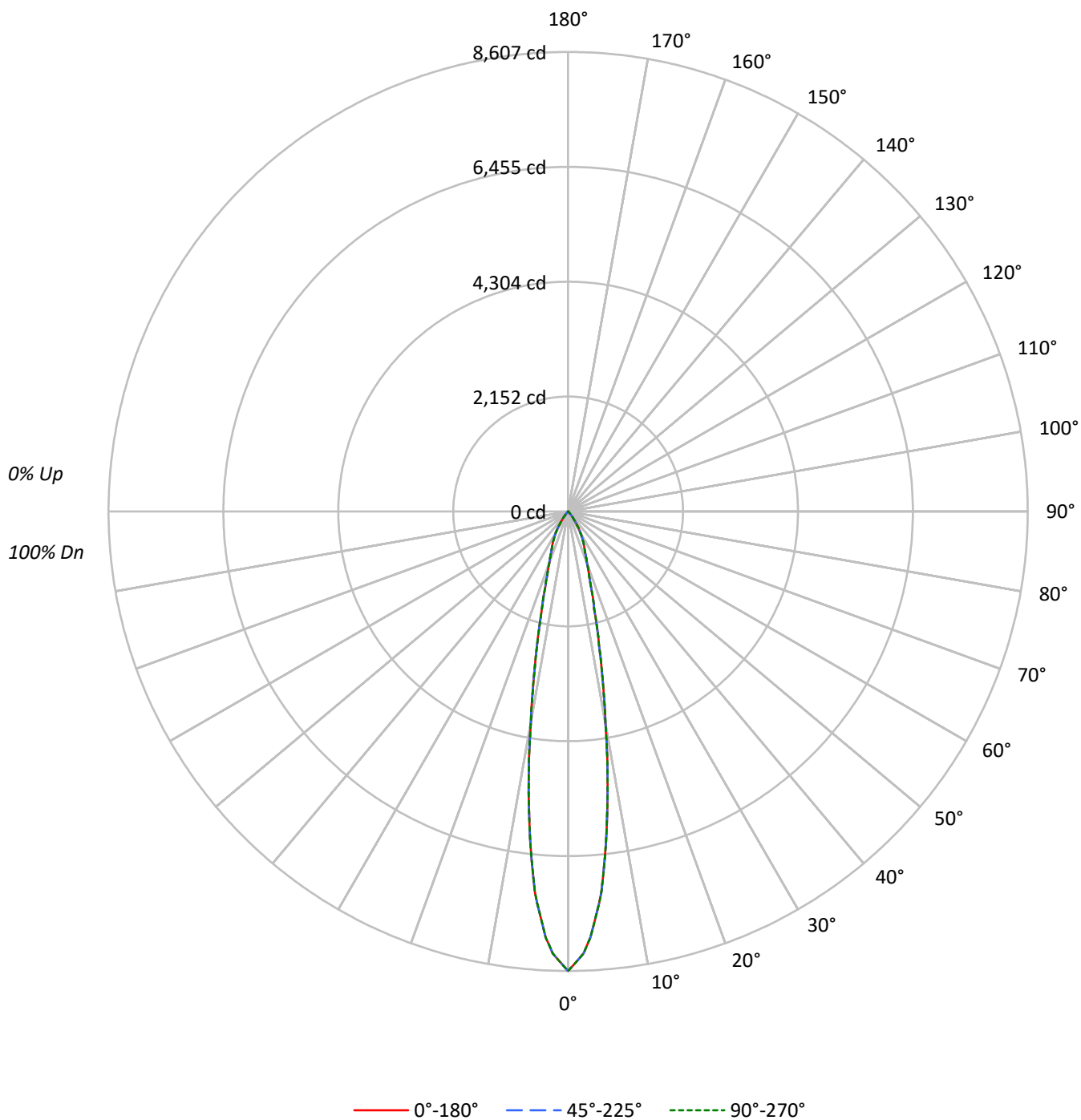
Lumens per Lamp: N/A
Luminaire Lumens: 1640.7 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.34
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1057196

CATALOG NUMBER: PRLX-CYL2S-X-935-15L-SP-U-S-X-X-BLAK

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	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°	5546584	5546584	5546584
5°	4629923	4629923	4629923
10°	2640215	2640215	2640215
15°	1263787	1263787	1263787
20°	707379	707379	707379
25°	495594	495594	495594
30°	343482	343482	343482
35°	180310	180310	180310
40°	66457	66457	66457
45°	19776	19776	19776
50°	9324	9324	9324
55°	6966	6966	6966
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: 19776 cd/sqm

TEST NUMBER: P1057196

CATALOG NUMBER: PRLX-CYL2S-X-935-15L-SP-U-S-X-X-BLAK

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	576.4	35.1
10°-20°	561.2	34.2
20°-30°	323.0	19.7
30°-40°	149.0	9.1
40°-50°	22.6	1.4
50°-60°	5.4	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°	1460.6	89.0
0°-40°	1609.5	98.1
0°-60°	1637.5	99.8
0°-90°	1640.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1640.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8607	8607	8607	8607	8607	
5°	7157	7157	7157	7157	7157	576
15°	1894	1894	1894	1894	1894	561
25°	697	697	697	697	697	323
35°	229	229	229	229	229	149
45°	22	22	22	22	22	23
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	

TEST NUMBER: P1057196

CATALOG NUMBER: PRLX-CYL2S-X-935-15L-SP-U-S-X-X-BLAK

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8607.1	8607.1	8607.1	8607.1	8607.1
1°	8444.1	8444.1	8444.1	8444.1	8444.1
2°	8281.2	8281.2	8281.2	8281.2	8281.2
3°	7991.2	7991.2	7991.2	7991.2	7991.2
4°	7574.3	7574.3	7574.3	7574.3	7574.3
5°	7157.3	7157.3	7157.3	7157.3	7157.3
6°	6548.3	6548.3	6548.3	6548.3	6548.3
7°	5939.3	5939.3	5939.3	5939.3	5939.3
8°	5314.8	5314.8	5314.8	5314.8	5314.8
9°	4674.8	4674.8	4674.8	4674.8	4674.8
10°	4034.8	4034.8	4034.8	4034.8	4034.8
11°	3524.3	3524.3	3524.3	3524.3	3524.3
12°	3013.8	3013.8	3013.8	3013.8	3013.8
13°	2585.7	2585.7	2585.7	2585.7	2585.7
14°	2240.0	2240.0	2240.0	2240.0	2240.0
15°	1894.3	1894.3	1894.3	1894.3	1894.3
16°	1677.4	1677.4	1677.4	1677.4	1677.4
17°	1460.6	1460.6	1460.6	1460.6	1460.6
18°	1288.0	1288.0	1288.0	1288.0	1288.0
19°	1159.8	1159.8	1159.8	1159.8	1159.8
20°	1031.5	1031.5	1031.5	1031.5	1031.5
21°	952.9	952.9	952.9	952.9	952.9
22°	874.2	874.2	874.2	874.2	874.2
23°	807.3	807.3	807.3	807.3	807.3
24°	752.1	752.1	752.1	752.1	752.1
25°	697.0	697.0	697.0	697.0	697.0
26°	649.9	649.9	649.9	649.9	649.9
27°	602.8	602.8	602.8	602.8	602.8
28°	555.7	555.7	555.7	555.7	555.7
29°	508.6	508.6	508.6	508.6	508.6
30°	461.6	461.6	461.6	461.6	461.6
31°	412.6	412.6	412.6	412.6	412.6
32°	363.7	363.7	363.7	363.7	363.7
33°	317.2	317.2	317.2	317.2	317.2
34°	273.2	273.2	273.2	273.2	273.2
35°	229.2	229.2	229.2	229.2	229.2
36°	193.9	193.9	193.9	193.9	193.9
37°	158.6	158.6	158.6	158.6	158.6
38°	128.6	128.6	128.6	128.6	128.6
39°	103.8	103.8	103.8	103.8	103.8
40°	79.0	79.0	79.0	79.0	79.0
41°	64.1	64.1	64.1	64.1	64.1
42°	49.3	49.3	49.3	49.3	49.3
43°	37.8	37.8	37.8	37.8	37.8
44°	29.7	29.7	29.7	29.7	29.7

TEST NUMBER: P1057196

CATALOG NUMBER: PRLX-CYL2S-X-935-15L-SP-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	21.7	21.7	21.7	21.7	21.7
46°	18.0	18.0	18.0	18.0	18.0
47°	14.2	14.2	14.2	14.2	14.2
48°	11.8	11.8	11.8	11.8	11.8
49°	10.5	10.5	10.5	10.5	10.5
50°	9.3	9.3	9.3	9.3	9.3
51°	8.1	8.1	8.1	8.1	8.1
52°	6.8	6.8	6.8	6.8	6.8
53°	6.2	6.2	6.2	6.2	6.2
54°	6.2	6.2	6.2	6.2	6.2
55°	6.2	6.2	6.2	6.2	6.2
56°	5.6	5.6	5.6	5.6	5.6
57°	5.0	5.0	5.0	5.0	5.0
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°	1.9	1.9	1.9	1.9	1.9
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



TEST NUMBER: P1057196
CATALOG NUMBER: PRLX-CYL2S-X-935-15L-SP-U-S-X-X-BLAK

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	5.10	6.00	5.46	6.31	6.63	5.10	6.00	5.46	6.31	6.63
	3H	5.50	6.29	5.88	6.63	7.00	5.50	6.29	5.88	6.63	7.00
	4H	5.46	6.19	5.86	6.54	6.93	5.46	6.19	5.86	6.54	6.93
	6H	5.34	6.00	5.76	6.38	6.78	5.34	6.00	5.76	6.38	6.78
	8H	5.28	5.90	5.71	6.29	6.71	5.28	5.90	5.71	6.29	6.71
	12H	5.21	5.81	5.65	6.19	6.63	5.21	5.81	5.65	6.19	6.63
4H	2H	5.42	6.15	5.83	6.50	6.89	5.42	6.15	5.83	6.50	6.89
	3H	5.99	6.59	6.41	7.00	7.40	5.99	6.59	6.41	7.00	7.40
	4H	5.91	6.44	6.35	6.87	7.32	5.91	6.44	6.35	6.87	7.32
	6H	5.79	6.24	6.27	6.70	7.17	5.79	6.24	6.27	6.70	7.17
	8H	5.72	6.14	6.20	6.59	7.06	5.72	6.14	6.20	6.59	7.06
	12H	5.65	6.01	6.14	6.50	6.98	5.65	6.01	6.14	6.50	6.98
8H	4H	5.78	6.20	6.26	6.65	7.13	5.78	6.20	6.26	6.65	7.13
	6H	5.65	5.98	6.16	6.48	6.97	5.65	5.98	6.16	6.48	6.97
	8H	5.57	5.86	6.11	6.39	6.88	5.57	5.86	6.11	6.39	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	6.07	6.20	6.56	7.04	5.71	6.07	6.20	6.56	7.04
	6H	5.57	5.86	6.11	6.39	6.88	5.57	5.86	6.11	6.39	6.88
	8H	5.51	5.76	6.04	6.26	6.84	5.51	5.76	6.04	6.26	6.84