

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: P1057195

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

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057195
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-407-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL2S-X-935-15L-NF-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 1500 LUMENS, NARROW FLOOD OPTIC (27-DEGREES)
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

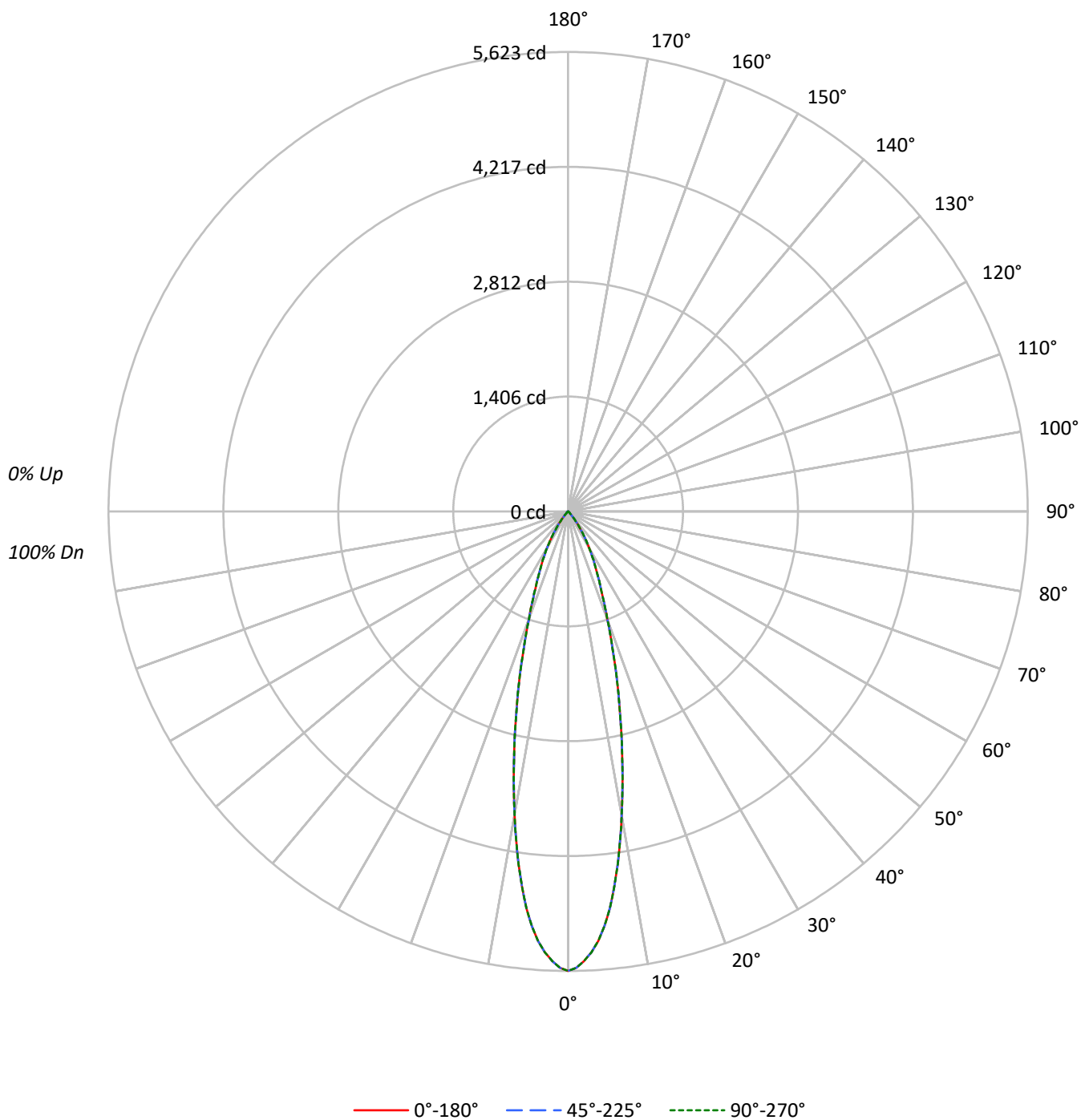
Lumens per Lamp: N/A
Luminaire Lumens: 1711.6 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 0.45 / 0.45 / 0.48
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: Direct

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				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	115	112	110	108	112	110	108	106	106	105	103		102	101	100		96
2	110	106	103	100	108	104	101	99	101	99	97		98	96	95		91
3	106	101	97	93	104	99	96	93	97	94	91		95	92	90		87
4	102	96	91	88	100	95	91	87	93	89	86		91	88	85		83
5	98	92	87	83	97	91	86	83	89	85	82		87	84	82		80
6	95	88	83	79	93	87	82	79	85	82	79		84	81	78		76
7	91	84	79	76	90	83	79	76	82	78	75		81	78	75		73
8	88	81	76	73	87	80	76	72	79	75	72		78	75	72		71
9	85	78	73	70	84	77	73	70	76	72	69		76	72	69		68
10	83	75	70	67	82	74	70	67	74	70	67		73	69	67		66

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3623314	3623314	3623314
5°	3294437	3294437	3294437
10°	2470997	2470997	2470997
15°	1604835	1604835	1604835
20°	961322	961322	961322
25°	599121	599121	599121
30°	380315	380315	380315
35°	198640	198640	198640
40°	79496	79496	79496
45°	26794	26794	26794
50°	13935	13935	13935
55°	8651	8651	8651
60°	7991	7991	7991
65°	4727	4727	4727
70°	2826	2826	2826
75°	3735	3735	3735
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 26794 cd/sqm

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.7	25.9
10°-20°	664.5	38.8
20°-30°	397.2	23.2
30°-40°	165.6	9.7
40°-50°	29.2	1.7
50°-60°	7.7	0.5
60°-70°	3.6	0.2
70°-80°	1.0	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°	1504.4	87.9
0°-40°	1670.0	97.6
0°-60°	1707.0	99.7
0°-90°	1711.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1711.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5623	5623	5623	5623	5623	
5°	5093	5093	5093	5093	5093	443
15°	2406	2406	2406	2406	2406	664
25°	843	843	843	843	843	397
35°	252	252	252	252	252	166
45°	29	29	29	29	29	29
55°	8	8	8	8	8	8
65°	3	3	3	3	3	4
75°	2	2	2	2	2	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5622.6	5622.6	5622.6	5622.6	5622.6
1°	5586.9	5586.9	5586.9	5586.9	5586.9
2°	5507.9	5507.9	5507.9	5507.9	5507.9
3°	5404.2	5404.2	5404.2	5404.2	5404.2
4°	5269.4	5269.4	5269.4	5269.4	5269.4
5°	5092.8	5092.8	5092.8	5092.8	5092.8
6°	4882.2	4882.2	4882.2	4882.2	4882.2
7°	4631.2	4631.2	4631.2	4631.2	4631.2
8°	4357.1	4357.1	4357.1	4357.1	4357.1
9°	4067.4	4067.4	4067.4	4067.4	4067.4
10°	3776.2	3776.2	3776.2	3776.2	3776.2
11°	3480.4	3480.4	3480.4	3480.4	3480.4
12°	3198.5	3198.5	3198.5	3198.5	3198.5
13°	2921.2	2921.2	2921.2	2921.2	2921.2
14°	2656.4	2656.4	2656.4	2656.4	2656.4
15°	2405.5	2405.5	2405.5	2405.5	2405.5
16°	2181.2	2181.2	2181.2	2181.2	2181.2
17°	1956.9	1956.9	1956.9	1956.9	1956.9
18°	1756.2	1756.2	1756.2	1756.2	1756.2
19°	1579.0	1579.0	1579.0	1579.0	1579.0
20°	1401.8	1401.8	1401.8	1401.8	1401.8
21°	1270.4	1270.4	1270.4	1270.4	1270.4
22°	1139.1	1139.1	1139.1	1139.1	1139.1
23°	1027.2	1027.2	1027.2	1027.2	1027.2
24°	934.9	934.9	934.9	934.9	934.9
25°	842.6	842.6	842.6	842.6	842.6
26°	771.4	771.4	771.4	771.4	771.4
27°	700.1	700.1	700.1	700.1	700.1
28°	633.8	633.8	633.8	633.8	633.8
29°	572.5	572.5	572.5	572.5	572.5
30°	511.1	511.1	511.1	511.1	511.1
31°	456.0	456.0	456.0	456.0	456.0
32°	400.9	400.9	400.9	400.9	400.9
33°	349.1	349.1	349.1	349.1	349.1
34°	300.8	300.8	300.8	300.8	300.8
35°	252.5	252.5	252.5	252.5	252.5
36°	215.3	215.3	215.3	215.3	215.3
37°	178.1	178.1	178.1	178.1	178.1
38°	146.5	146.5	146.5	146.5	146.5
39°	120.5	120.5	120.5	120.5	120.5
40°	94.5	94.5	94.5	94.5	94.5
41°	77.8	77.8	77.8	77.8	77.8
42°	61.0	61.0	61.0	61.0	61.0
43°	48.0	48.0	48.0	48.0	48.0
44°	38.7	38.7	38.7	38.7	38.7

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	29.4	29.4	29.4	29.4	29.4
46°	25.1	25.1	25.1	25.1	25.1
47°	20.8	20.8	20.8	20.8	20.8
48°	17.7	17.7	17.7	17.7	17.7
49°	15.8	15.8	15.8	15.8	15.8
50°	13.9	13.9	13.9	13.9	13.9
51°	12.7	12.7	12.7	12.7	12.7
52°	11.5	11.5	11.5	11.5	11.5
53°	10.2	10.2	10.2	10.2	10.2
54°	9.0	9.0	9.0	9.0	9.0
55°	7.7	7.7	7.7	7.7	7.7
56°	7.1	7.1	7.1	7.1	7.1
57°	6.5	6.5	6.5	6.5	6.5
58°	6.2	6.2	6.2	6.2	6.2
59°	6.2	6.2	6.2	6.2	6.2
60°	6.2	6.2	6.2	6.2	6.2
61°	5.6	5.6	5.6	5.6	5.6
62°	5.0	5.0	5.0	5.0	5.0
63°	4.3	4.3	4.3	4.3	4.3
64°	3.7	3.7	3.7	3.7	3.7
65°	3.1	3.1	3.1	3.1	3.1
66°	3.1	3.1	3.1	3.1	3.1
67°	3.1	3.1	3.1	3.1	3.1
68°	2.8	2.8	2.8	2.8	2.8
69°	2.2	2.2	2.2	2.2	2.2
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°	1.5	1.5	1.5	1.5	1.5
74°	1.5	1.5	1.5	1.5	1.5
75°	1.5	1.5	1.5	1.5	1.5
76°	0.9	0.9	0.9	0.9	0.9
77°	0.3	0.3	0.3	0.3	0.3
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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CATALOG NUMBER: PRLX-CYL2S-X-935-15L-NF-U-S-X-X-BLAK

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	6.94	7.84	7.30	8.16	8.47	6.94	7.84	7.30	8.16	8.47
	3H	7.61	8.41	8.00	8.74	9.11	7.61	8.41	8.00	8.74	9.11
	4H	7.83	8.57	8.24	8.92	9.31	7.83	8.57	8.24	8.92	9.31
	6H	7.72	8.39	8.14	8.77	9.16	7.72	8.39	8.14	8.77	9.16
	8H	7.66	8.29	8.09	8.68	9.09	7.66	8.29	8.09	8.68	9.09
	12H	7.59	8.19	8.03	8.58	9.01	7.59	8.19	8.03	8.58	9.01
4H	2H	7.02	7.76	7.43	8.11	8.51	7.02	7.76	7.43	8.11	8.51
	3H	7.76	8.36	8.17	8.77	9.18	7.76	8.36	8.17	8.77	9.18
	4H	8.07	8.61	8.51	9.03	9.48	8.07	8.61	8.51	9.03	9.48
	6H	7.96	8.41	8.43	8.86	9.34	7.96	8.41	8.43	8.86	9.34
	8H	7.88	8.30	8.36	8.76	9.23	7.88	8.30	8.36	8.76	9.23
	12H	7.81	8.17	8.31	8.66	9.14	7.81	8.17	8.31	8.66	9.14
8H	4H	7.99	8.41	8.47	8.86	9.34	7.99	8.41	8.47	8.86	9.34
	6H	7.86	8.19	8.37	8.70	9.18	7.86	8.19	8.37	8.70	9.18
	8H	7.78	8.08	8.32	8.60	9.10	7.78	8.08	8.32	8.60	9.10
	12H	7.73	7.98	8.25	8.48	9.06	7.73	7.98	8.25	8.48	9.06
12H	4H	7.92	8.28	8.41	8.77	9.25	7.92	8.28	8.41	8.77	9.25
	6H	7.78	8.08	8.32	8.60	9.10	7.78	8.08	8.32	8.60	9.10
	8H	7.73	7.98	8.25	8.48	9.06	7.73	7.98	8.25	8.48	9.06