

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: P1057194

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

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057194
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-935-15L-MD-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 1500 LUMENS, MEDIUM OPTIC (23-DEGREES)
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

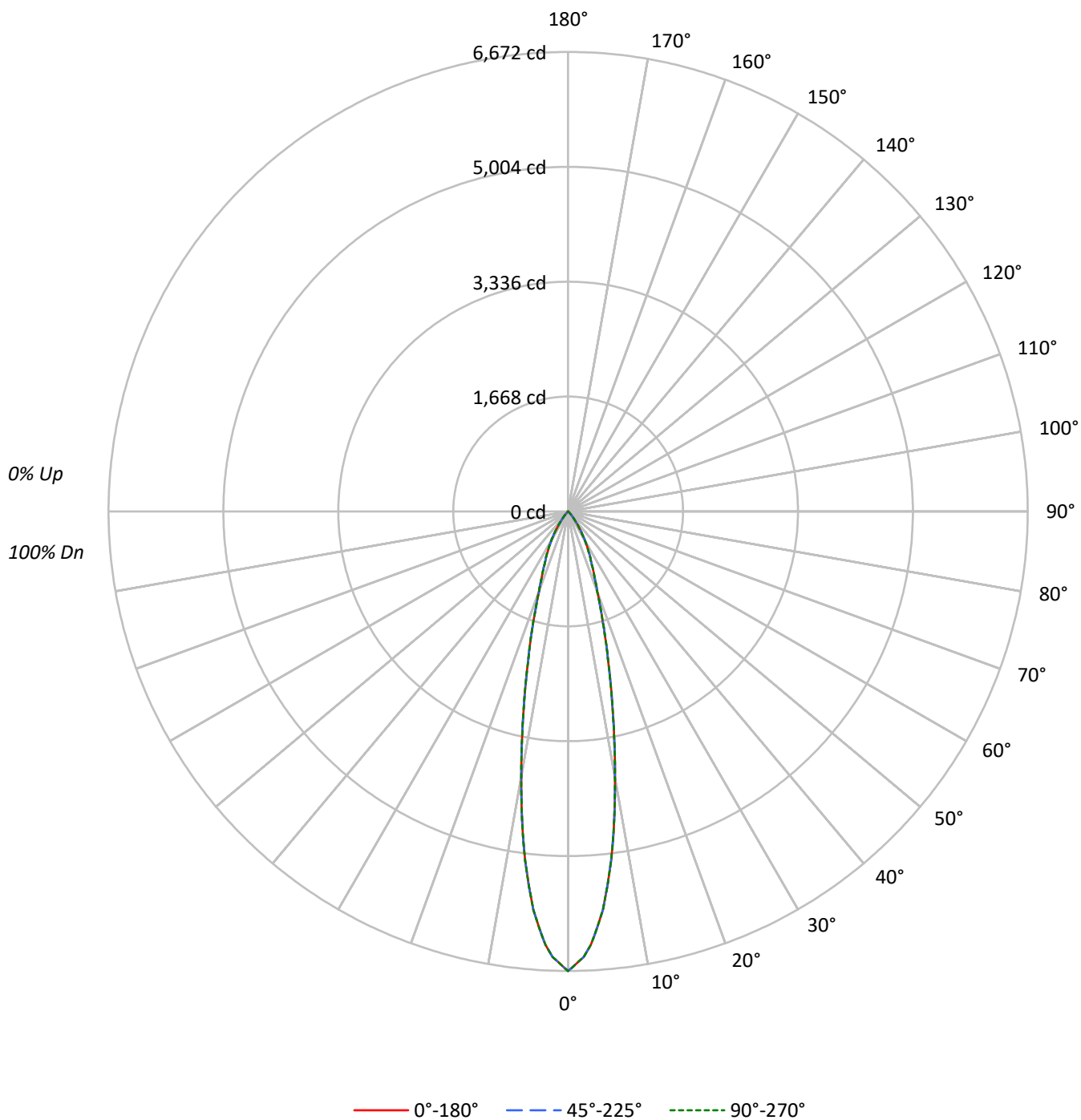
Lumens per Lamp: N/A
Luminaire Lumens: 1682.8 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.42
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	112	110	108	112	110	108	107	106	105	103		103	101	100		99
2	110	106	103	100	108	105	102	99	102	99	97		99	97	95		96
3	106	101	97	94	104	100	96	93	97	94	92		95	92	90		93
4	102	96	92	89	101	95	91	88	93	90	87		91	89	86		90
5	99	92	88	84	97	91	87	84	90	86	83		88	85	83		87
6	95	88	84	80	94	88	83	80	86	83	80		85	82	79		84
7	92	85	80	77	91	84	80	77	83	79	76		82	79	76		81
8	89	82	77	74	88	81	77	74	80	76	74		79	76	73		79
9	86	79	74	71	85	78	74	71	78	74	71		77	73	71		76
10	84	76	72	69	83	76	72	69	75	71	68		74	71	68		74

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4299890	4299890	4299890
5°	3756245	3756245	3756245
10°	2562150	2562150	2562150
15°	1493154	1493154	1493154
20°	850775	850775	850775
25°	550628	550628	550628
30°	364168	364168	364168
35°	191323	191323	191323
40°	74281	74281	74281
45°	23968	23968	23968
50°	12431	12431	12431
55°	8651	8651	8651
60°	5929	5929	5929
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: 23968 cd/sqm

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.1	29.2
10°-20°	630.2	37.5
20°-30°	363.8	21.6
30°-40°	159.2	9.5
40°-50°	27.0	1.6
50°-60°	7.1	0.4
60°-70°	3.4	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°	1485.1	88.3
0°-40°	1644.3	97.7
0°-60°	1678.4	99.7
0°-90°	1682.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1682.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6672	6672	6672	6672	6672	
5°	5807	5807	5807	5807	5807	491
15°	2238	2238	2238	2238	2238	630
25°	774	774	774	774	774	364
35°	243	243	243	243	243	159
45°	26	26	26	26	26	27
55°	8	8	8	8	8	7
65°	3	3	3	3	3	3
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-MD-U-S-X-X-BLAK

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6672.5	6672.5	6672.5	6672.5	6672.5
1°	6572.7	6572.7	6572.7	6572.7	6572.7
2°	6473.0	6473.0	6473.0	6473.0	6473.0
3°	6299.8	6299.8	6299.8	6299.8	6299.8
4°	6053.3	6053.3	6053.3	6053.3	6053.3
5°	5806.7	5806.7	5806.7	5806.7	5806.7
6°	5457.9	5457.9	5457.9	5457.9	5457.9
7°	5109.1	5109.1	5109.1	5109.1	5109.1
8°	4730.8	4730.8	4730.8	4730.8	4730.8
9°	4323.2	4323.2	4323.2	4323.2	4323.2
10°	3915.5	3915.5	3915.5	3915.5	3915.5
11°	3545.0	3545.0	3545.0	3545.0	3545.0
12°	3174.5	3174.5	3174.5	3174.5	3174.5
13°	2839.1	2839.1	2839.1	2839.1	2839.1
14°	2538.6	2538.6	2538.6	2538.6	2538.6
15°	2238.1	2238.1	2238.1	2238.1	2238.1
16°	2005.2	2005.2	2005.2	2005.2	2005.2
17°	1772.2	1772.2	1772.2	1772.2	1772.2
18°	1572.7	1572.7	1572.7	1572.7	1572.7
19°	1406.7	1406.7	1406.7	1406.7	1406.7
20°	1240.6	1240.6	1240.6	1240.6	1240.6
21°	1131.0	1131.0	1131.0	1131.0	1131.0
22°	1021.3	1021.3	1021.3	1021.3	1021.3
23°	928.1	928.1	928.1	928.1	928.1
24°	851.3	851.3	851.3	851.3	851.3
25°	774.4	774.4	774.4	774.4	774.4
26°	715.0	715.0	715.0	715.0	715.0
27°	655.5	655.5	655.5	655.5	655.5
28°	598.5	598.5	598.5	598.5	598.5
29°	544.0	544.0	544.0	544.0	544.0
30°	489.4	489.4	489.4	489.4	489.4
31°	438.0	438.0	438.0	438.0	438.0
32°	386.6	386.6	386.6	386.6	386.6
33°	337.3	337.3	337.3	337.3	337.3
34°	290.3	290.3	290.3	290.3	290.3
35°	243.2	243.2	243.2	243.2	243.2
36°	207.2	207.2	207.2	207.2	207.2
37°	171.3	171.3	171.3	171.3	171.3
38°	140.3	140.3	140.3	140.3	140.3
39°	114.3	114.3	114.3	114.3	114.3
40°	88.3	88.3	88.3	88.3	88.3
41°	72.8	72.8	72.8	72.8	72.8
42°	57.3	57.3	57.3	57.3	57.3
43°	44.9	44.9	44.9	44.9	44.9
44°	35.6	35.6	35.6	35.6	35.6

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	26.3	26.3	26.3	26.3	26.3
46°	22.6	22.6	22.6	22.6	22.6
47°	18.9	18.9	18.9	18.9	18.9
48°	16.1	16.1	16.1	16.1	16.1
49°	14.2	14.2	14.2	14.2	14.2
50°	12.4	12.4	12.4	12.4	12.4
51°	11.2	11.2	11.2	11.2	11.2
52°	9.9	9.9	9.9	9.9	9.9
53°	9.0	9.0	9.0	9.0	9.0
54°	8.4	8.4	8.4	8.4	8.4
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°	5.9	5.9	5.9	5.9	5.9
59°	5.3	5.3	5.3	5.3	5.3
60°	4.6	4.6	4.6	4.6	4.6
61°	4.6	4.6	4.6	4.6	4.6
62°	4.6	4.6	4.6	4.6	4.6
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-MD-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	6.76	7.67	7.13	7.98	8.30	6.76	7.67	7.13	7.98	8.30
	3H	7.49	8.29	7.88	8.63	8.99	7.49	8.29	7.88	8.63	8.99
	4H	7.73	8.47	8.14	8.82	9.21	7.73	8.47	8.14	8.82	9.21
	6H	7.62	8.29	8.04	8.66	9.06	7.62	8.29	8.04	8.66	9.06
	8H	7.56	8.18	7.99	8.58	8.99	7.56	8.18	7.99	8.58	8.99
	12H	7.49	8.09	7.93	8.48	8.91	7.49	8.09	7.93	8.48	8.91
4H	2H	6.88	7.61	7.29	7.97	8.36	6.88	7.61	7.29	7.97	8.36
	3H	7.66	8.26	8.08	8.67	9.08	7.66	8.26	8.08	8.67	9.08
	4H	8.00	8.53	8.44	8.96	9.41	8.00	8.53	8.44	8.96	9.41
	6H	7.88	8.34	8.35	8.79	9.26	7.88	8.34	8.35	8.79	9.26
	8H	7.80	8.23	8.28	8.68	9.16	7.80	8.23	8.28	8.68	9.16
	12H	7.74	8.10	8.23	8.59	9.07	7.74	8.10	8.23	8.59	9.07
8H	4H	7.92	8.34	8.39	8.79	9.27	7.92	8.34	8.39	8.79	9.27
	6H	7.79	8.12	8.30	8.62	9.11	7.79	8.12	8.30	8.62	9.11
	8H	7.71	8.00	8.25	8.53	9.03	7.71	8.00	8.25	8.53	9.03
	12H	7.65	7.90	8.18	8.40	8.99	7.65	7.90	8.18	8.40	8.99
12H	4H	7.85	8.21	8.34	8.70	9.18	7.85	8.21	8.34	8.70	9.18
	6H	7.71	8.00	8.25	8.53	9.03	7.71	8.00	8.25	8.53	9.03
	8H	7.65	7.90	8.18	8.40	8.99	7.65	7.90	8.18	8.40	8.99