

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: P1057190

Luminaire Tested: PRLX-CYL2S-X-935-10L-MD-U-S-X-X-BLAK

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057190
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-935-10L-MD-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 1000 LUMENS, MEDIUM OPTIC (23-DEGREES)
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

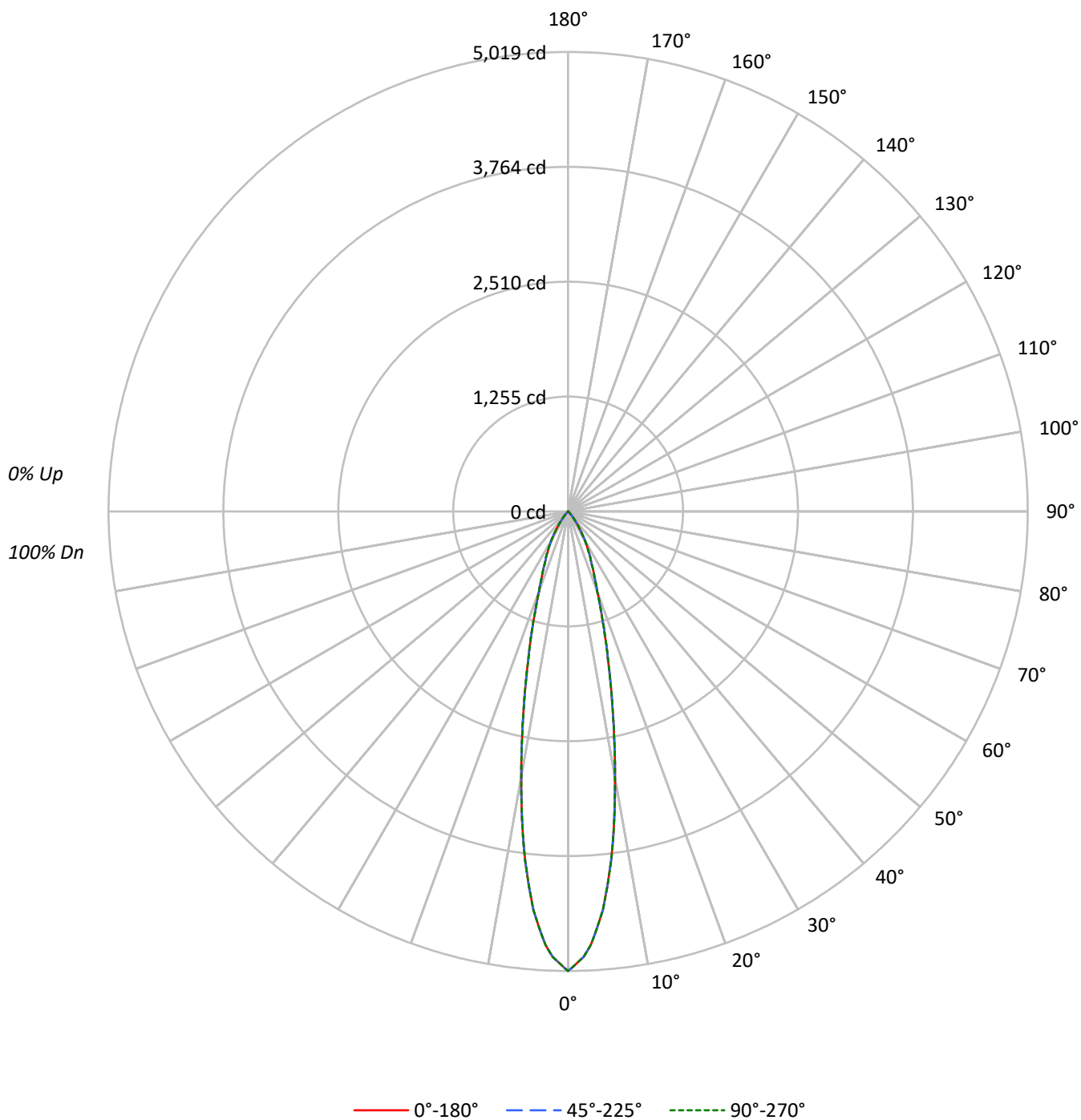
Lumens per Lamp: N/A
Luminaire Lumens: 1265.9 lumens
Efficiency: N/A
Efficacy: 142.2 lumens/watt
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.42
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 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
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°	3234535	3234535	3234535
5°	2825577	2825577	2825577
10°	1927354	1927354	1927354
15°	1123218	1123218	1123218
20°	640036	640036	640036
25°	414251	414251	414251
30°	273982	273982	273982
35°	143886	143886	143886
40°	55858	55858	55858
45°	18045	18045	18045
50°	9324	9324	9324
55°	6516	6516	6516
60°	4511	4511	4511
65°	3507	3507	3507
70°	2261	2261	2261
75°	2988	2988	2988
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18045 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.4	29.2
10°-20°	474.1	37.4
20°-30°	273.7	21.6
30°-40°	119.7	9.5
40°-50°	20.3	1.6
50°-60°	5.3	0.4
60°-70°	2.6	0.2
70°-80°	0.8	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°	1117.2	88.3
0°-40°	1236.9	97.7
0°-60°	1262.5	99.7
0°-90°	1265.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1265.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5019	5019	5019	5019	5019	
5°	4368	4368	4368	4368	4368	369
15°	1684	1684	1684	1684	1684	474
25°	583	583	583	583	583	274
35°	183	183	183	183	183	120
45°	20	20	20	20	20	20
55°	6	6	6	6	6	5
65°	2	2	2	2	2	3
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CATALOG NUMBER: PRLX-CYL2S-X-935-10L-MD-U-S-X-X-BLAK

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5019.3	5019.3	5019.3	5019.3	5019.3
1°	4944.3	4944.3	4944.3	4944.3	4944.3
2°	4869.2	4869.2	4869.2	4869.2	4869.2
3°	4739.0	4739.0	4739.0	4739.0	4739.0
4°	4553.5	4553.5	4553.5	4553.5	4553.5
5°	4368.0	4368.0	4368.0	4368.0	4368.0
6°	4105.6	4105.6	4105.6	4105.6	4105.6
7°	3843.2	3843.2	3843.2	3843.2	3843.2
8°	3558.7	3558.7	3558.7	3558.7	3558.7
9°	3252.0	3252.0	3252.0	3252.0	3252.0
10°	2945.4	2945.4	2945.4	2945.4	2945.4
11°	2666.7	2666.7	2666.7	2666.7	2666.7
12°	2388.0	2388.0	2388.0	2388.0	2388.0
13°	2135.6	2135.6	2135.6	2135.6	2135.6
14°	1909.6	1909.6	1909.6	1909.6	1909.6
15°	1683.6	1683.6	1683.6	1683.6	1683.6
16°	1508.3	1508.3	1508.3	1508.3	1508.3
17°	1333.1	1333.1	1333.1	1333.1	1333.1
18°	1183.1	1183.1	1183.1	1183.1	1183.1
19°	1058.2	1058.2	1058.2	1058.2	1058.2
20°	933.3	933.3	933.3	933.3	933.3
21°	850.8	850.8	850.8	850.8	850.8
22°	768.3	768.3	768.3	768.3	768.3
23°	698.1	698.1	698.1	698.1	698.1
24°	640.3	640.3	640.3	640.3	640.3
25°	582.6	582.6	582.6	582.6	582.6
26°	537.8	537.8	537.8	537.8	537.8
27°	493.1	493.1	493.1	493.1	493.1
28°	450.2	450.2	450.2	450.2	450.2
29°	409.2	409.2	409.2	409.2	409.2
30°	368.2	368.2	368.2	368.2	368.2
31°	329.5	329.5	329.5	329.5	329.5
32°	290.8	290.8	290.8	290.8	290.8
33°	253.8	253.8	253.8	253.8	253.8
34°	218.3	218.3	218.3	218.3	218.3
35°	182.9	182.9	182.9	182.9	182.9
36°	155.9	155.9	155.9	155.9	155.9
37°	128.9	128.9	128.9	128.9	128.9
38°	105.6	105.6	105.6	105.6	105.6
39°	86.0	86.0	86.0	86.0	86.0
40°	66.4	66.4	66.4	66.4	66.4
41°	54.8	54.8	54.8	54.8	54.8
42°	43.1	43.1	43.1	43.1	43.1
43°	33.8	33.8	33.8	33.8	33.8
44°	26.8	26.8	26.8	26.8	26.8

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CATALOG NUMBER: PRLX-CYL2S-X-935-10L-MD-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	19.8	19.8	19.8	19.8	19.8
46°	17.0	17.0	17.0	17.0	17.0
47°	14.2	14.2	14.2	14.2	14.2
48°	12.1	12.1	12.1	12.1	12.1
49°	10.7	10.7	10.7	10.7	10.7
50°	9.3	9.3	9.3	9.3	9.3
51°	8.4	8.4	8.4	8.4	8.4
52°	7.5	7.5	7.5	7.5	7.5
53°	6.8	6.8	6.8	6.8	6.8
54°	6.3	6.3	6.3	6.3	6.3
55°	5.8	5.8	5.8	5.8	5.8
56°	5.4	5.4	5.4	5.4	5.4
57°	4.9	4.9	4.9	4.9	4.9
58°	4.4	4.4	4.4	4.4	4.4
59°	4.0	4.0	4.0	4.0	4.0
60°	3.5	3.5	3.5	3.5	3.5
61°	3.5	3.5	3.5	3.5	3.5
62°	3.5	3.5	3.5	3.5	3.5
63°	3.3	3.3	3.3	3.3	3.3
64°	2.8	2.8	2.8	2.8	2.8
65°	2.3	2.3	2.3	2.3	2.3
66°	2.3	2.3	2.3	2.3	2.3
67°	2.3	2.3	2.3	2.3	2.3
68°	2.1	2.1	2.1	2.1	2.1
69°	1.6	1.6	1.6	1.6	1.6
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°	1.2	1.2	1.2	1.2	1.2
74°	1.2	1.2	1.2	1.2	1.2
75°	1.2	1.2	1.2	1.2	1.2
76°	0.7	0.7	0.7	0.7	0.7
77°	0.2	0.2	0.2	0.2	0.2
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-935-10L-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	5.74	6.65	6.11	6.96	7.27	5.74	6.65	6.11	6.96	7.27
	3H	6.45	7.24	6.83	7.58	7.95	6.45	7.24	6.83	7.58	7.95
	4H	6.73	7.47	7.14	7.82	8.21	6.73	7.47	7.14	7.82	8.21
	6H	6.62	7.29	7.04	7.66	8.06	6.62	7.29	7.04	7.66	8.06
	8H	6.56	7.18	6.99	7.58	7.99	6.56	7.18	6.99	7.58	7.99
	12H	6.49	7.09	6.93	7.48	7.91	6.49	7.09	6.93	7.48	7.91
4H	2H	5.85	6.59	6.26	6.94	7.33	5.85	6.59	6.26	6.94	7.33
	3H	6.64	7.24	7.06	7.65	8.06	6.64	7.24	7.06	7.65	8.06
	4H	7.03	7.57	7.47	7.99	8.44	7.03	7.57	7.47	7.99	8.44
	6H	6.92	7.37	7.39	7.82	8.30	6.92	7.37	7.39	7.82	8.30
	8H	6.84	7.26	7.32	7.72	8.19	6.84	7.26	7.32	7.72	8.19
	12H	6.77	7.13	7.27	7.62	8.10	6.77	7.13	7.27	7.62	8.10
8H	4H	6.96	7.39	7.44	7.84	8.31	6.96	7.39	7.44	7.84	8.31
	6H	6.84	7.17	7.35	7.67	8.16	6.84	7.17	7.35	7.67	8.16
	8H	6.76	7.05	7.30	7.58	8.07	6.76	7.05	7.30	7.58	8.07
	12H	6.70	6.95	7.23	7.45	8.03	6.70	6.95	7.23	7.45	8.03
12H	4H	6.89	7.26	7.39	7.75	8.22	6.89	7.26	7.39	7.75	8.22
	6H	6.76	7.05	7.30	7.58	8.07	6.76	7.05	7.30	7.58	8.07
	8H	6.70	6.95	7.23	7.45	8.03	6.70	6.95	7.23	7.45	8.03