

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: P1057410

Luminaire Tested: PRLX-CYL2W-DR-X-930-15L-MD-U-S-X-X-BLAK

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057410
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-CYL2W-DR-X-930-15L-MD-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 1500 LUMENS, MEDIUM OPTIC (23-DEGREES)
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

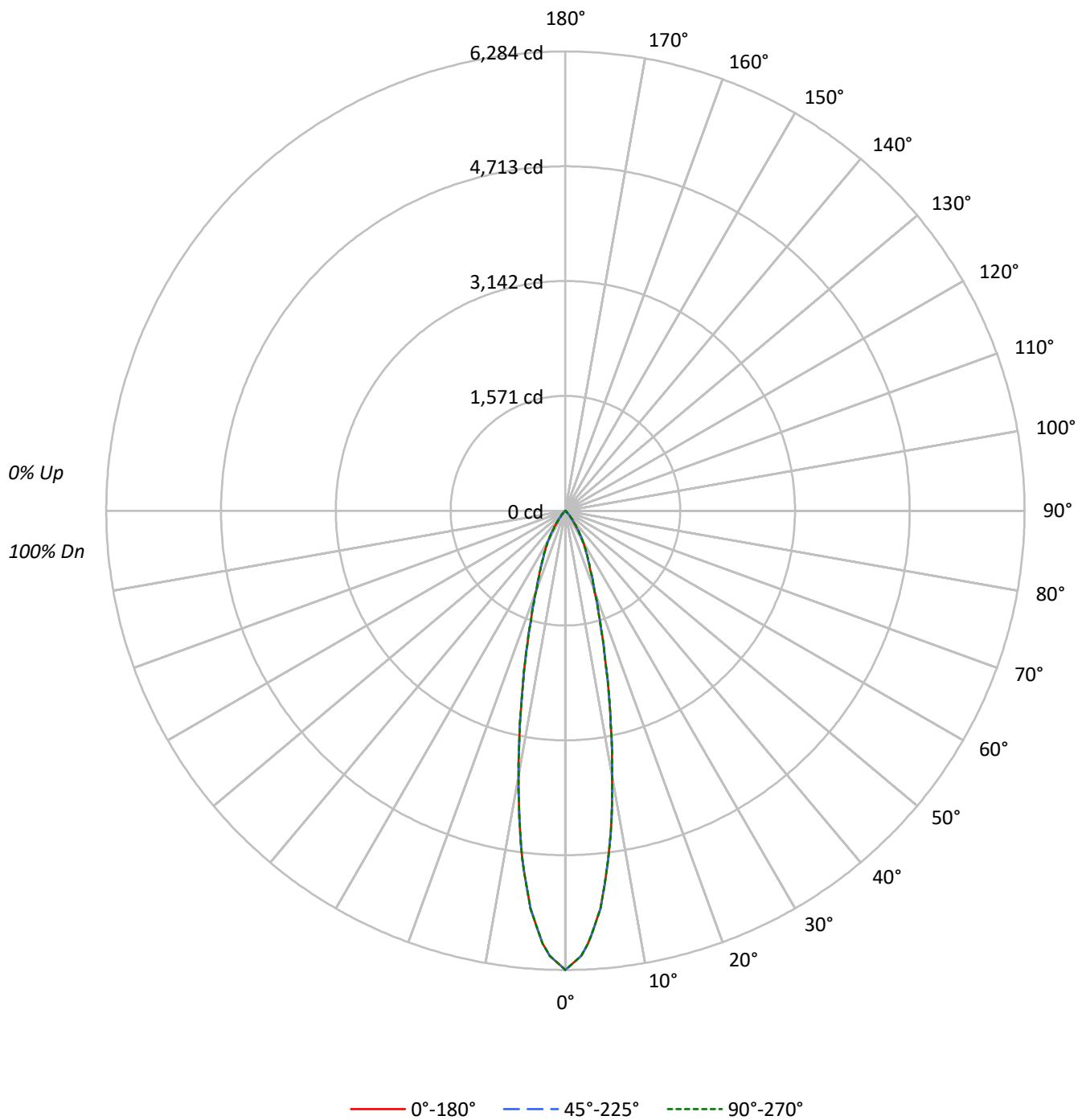
Lumens per Lamp: N/A
Luminaire Lumens: 1584.8 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.42
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: Direct

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		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	107	106	105	103		103	101	100		96
2	110	106	103	100	108	105	102	99	102	99	97		99	97	95		92
3	106	101	97	94	104	100	96	93	97	94	92		95	92	90		88
4	102	96	92	89	101	95	91	88	93	90	87		91	89	86		84
5	99	92	88	84	97	91	87	84	90	86	83		88	85	83		81
6	95	88	84	80	94	88	83	80	86	83	80		85	82	79		77
7	92	85	80	77	91	84	80	77	83	79	76		82	79	76		75
8	89	82	77	74	88	81	77	74	80	76	74		79	76	73		72
9	86	79	74	71	85	78	74	71	78	74	71		77	73	71		69
10	84	76	72	69	83	76	72	69	75	71	68		74	71	68		67

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4049340	4049340	4049340
5°	3537341	3537341	3537341
10°	2412890	2412890	2412890
15°	1406157	1406157	1406157
20°	801262	801262	801262
25°	518560	518560	518560
30°	342961	342961	342961
35°	180152	180152	180152
40°	69906	69906	69906
45°	22601	22601	22601
50°	11730	11730	11730
55°	8202	8202	8202
60°	5671	5671	5671
65°	4422	4422	4422
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: 22601 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.5	29.2
10°-20°	593.5	37.4
20°-30°	342.6	21.6
30°-40°	149.9	9.5
40°-50°	25.4	1.6
50°-60°	6.7	0.4
60°-70°	3.2	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°	1398.6	88.3
0°-40°	1548.5	97.7
0°-60°	1580.6	99.7
0°-90°	1584.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1584.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6284	6284	6284	6284	6284	
5°	5468	5468	5468	5468	5468	463
15°	2108	2108	2108	2108	2108	593
25°	729	729	729	729	729	343
35°	229	229	229	229	229	150
45°	25	25	25	25	25	25
55°	7	7	7	7	7	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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6283.7	6283.7	6283.7	6283.7	6283.7
1°	6189.8	6189.8	6189.8	6189.8	6189.8
2°	6095.8	6095.8	6095.8	6095.8	6095.8
3°	5932.8	5932.8	5932.8	5932.8	5932.8
4°	5700.6	5700.6	5700.6	5700.6	5700.6
5°	5468.3	5468.3	5468.3	5468.3	5468.3
6°	5139.9	5139.9	5139.9	5139.9	5139.9
7°	4811.4	4811.4	4811.4	4811.4	4811.4
8°	4455.2	4455.2	4455.2	4455.2	4455.2
9°	4071.3	4071.3	4071.3	4071.3	4071.3
10°	3687.4	3687.4	3687.4	3687.4	3687.4
11°	3338.5	3338.5	3338.5	3338.5	3338.5
12°	2989.6	2989.6	2989.6	2989.6	2989.6
13°	2673.6	2673.6	2673.6	2673.6	2673.6
14°	2390.7	2390.7	2390.7	2390.7	2390.7
15°	2107.7	2107.7	2107.7	2107.7	2107.7
16°	1888.3	1888.3	1888.3	1888.3	1888.3
17°	1668.9	1668.9	1668.9	1668.9	1668.9
18°	1481.1	1481.1	1481.1	1481.1	1481.1
19°	1324.7	1324.7	1324.7	1324.7	1324.7
20°	1168.4	1168.4	1168.4	1168.4	1168.4
21°	1065.1	1065.1	1065.1	1065.1	1065.1
22°	961.8	961.8	961.8	961.8	961.8
23°	874.0	874.0	874.0	874.0	874.0
24°	801.7	801.7	801.7	801.7	801.7
25°	729.3	729.3	729.3	729.3	729.3
26°	673.3	673.3	673.3	673.3	673.3
27°	617.3	617.3	617.3	617.3	617.3
28°	563.6	563.6	563.6	563.6	563.6
29°	512.3	512.3	512.3	512.3	512.3
30°	460.9	460.9	460.9	460.9	460.9
31°	412.5	412.5	412.5	412.5	412.5
32°	364.1	364.1	364.1	364.1	364.1
33°	317.7	317.7	317.7	317.7	317.7
34°	273.3	273.3	273.3	273.3	273.3
35°	229.0	229.0	229.0	229.0	229.0
36°	195.2	195.2	195.2	195.2	195.2
37°	161.3	161.3	161.3	161.3	161.3
38°	132.2	132.2	132.2	132.2	132.2
39°	107.6	107.6	107.6	107.6	107.6
40°	83.1	83.1	83.1	83.1	83.1
41°	68.6	68.6	68.6	68.6	68.6
42°	54.0	54.0	54.0	54.0	54.0
43°	42.3	42.3	42.3	42.3	42.3
44°	33.5	33.5	33.5	33.5	33.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	24.8	24.8	24.8	24.8	24.8
46°	21.3	21.3	21.3	21.3	21.3
47°	17.8	17.8	17.8	17.8	17.8
48°	15.2	15.2	15.2	15.2	15.2
49°	13.4	13.4	13.4	13.4	13.4
50°	11.7	11.7	11.7	11.7	11.7
51°	10.5	10.5	10.5	10.5	10.5
52°	9.3	9.3	9.3	9.3	9.3
53°	8.5	8.5	8.5	8.5	8.5
54°	7.9	7.9	7.9	7.9	7.9
55°	7.3	7.3	7.3	7.3	7.3
56°	6.7	6.7	6.7	6.7	6.7
57°	6.1	6.1	6.1	6.1	6.1
58°	5.5	5.5	5.5	5.5	5.5
59°	5.0	5.0	5.0	5.0	5.0
60°	4.4	4.4	4.4	4.4	4.4
61°	4.4	4.4	4.4	4.4	4.4
62°	4.4	4.4	4.4	4.4	4.4
63°	4.1	4.1	4.1	4.1	4.1
64°	3.5	3.5	3.5	3.5	3.5
65°	2.9	2.9	2.9	2.9	2.9
66°	2.9	2.9	2.9	2.9	2.9
67°	2.9	2.9	2.9	2.9	2.9
68°	2.6	2.6	2.6	2.6	2.6
69°	2.0	2.0	2.0	2.0	2.0
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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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	6.50	7.41	6.87	7.72	8.03	6.50	7.41	6.87	7.72	8.03
	3H	7.20	8.00	7.59	8.33	8.70	7.20	8.00	7.59	8.33	8.70
	4H	7.49	8.22	7.90	8.58	8.97	7.49	8.22	7.90	8.58	8.97
	6H	7.37	8.05	7.79	8.42	8.82	7.37	8.05	7.79	8.42	8.82
	8H	7.31	7.94	7.75	8.34	8.75	7.31	7.94	7.75	8.34	8.75
	12H	7.25	7.85	7.69	8.23	8.67	7.25	7.85	7.69	8.23	8.67
4H	2H	6.62	7.35	7.03	7.71	8.10	6.62	7.35	7.03	7.71	8.10
	3H	7.40	8.00	7.82	8.41	8.82	7.40	8.00	7.82	8.41	8.82
	4H	7.80	8.33	8.24	8.76	9.21	7.80	8.33	8.24	8.76	9.21
	6H	7.68	8.14	8.16	8.59	9.07	7.68	8.14	8.16	8.59	9.07
	8H	7.61	8.03	8.08	8.48	8.96	7.61	8.03	8.08	8.48	8.96
	12H	7.54	7.90	8.03	8.39	8.87	7.54	7.90	8.03	8.39	8.87
8H	4H	7.73	8.15	8.21	8.60	9.08	7.73	8.15	8.21	8.60	9.08
	6H	7.60	7.93	8.12	8.44	8.93	7.60	7.93	8.12	8.44	8.93
	8H	7.53	7.82	8.06	8.34	8.84	7.53	7.82	8.06	8.34	8.84
	12H	7.47	7.72	7.99	8.22	8.80	7.47	7.72	7.99	8.22	8.80
12H	4H	7.66	8.02	8.15	8.51	8.99	7.66	8.02	8.15	8.51	8.99
	6H	7.53	7.82	8.06	8.34	8.84	7.53	7.82	8.06	8.34	8.84
	8H	7.47	7.72	7.99	8.22	8.80	7.47	7.72	7.99	8.22	8.80

END OF REPORT