

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: P1057412

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

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057412
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-CYL2W-DR-X-930-15L-SP-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 1500 LUMENS, SPOT OPTIC (19-DEGREES)
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

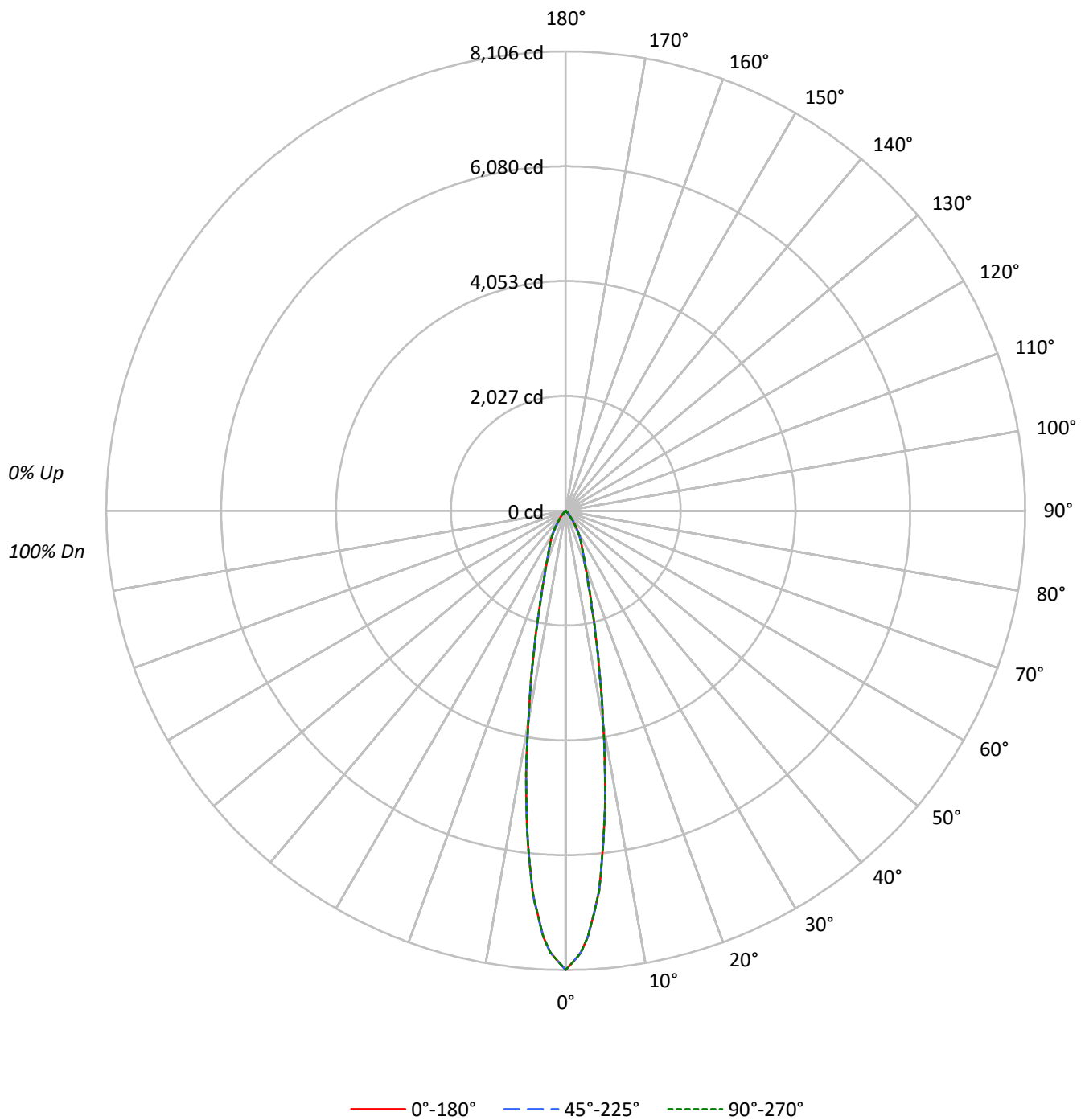
Lumens per Lamp: N/A
Luminaire Lumens: 1545.2 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.34
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: Direct

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: P1057412

CATALOG NUMBER: PRLX-CYL2W-DR-X-930-15L-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				10
RW	70	50	30	10	70	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
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90
4	103	97	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83
6	97	90	85	82	95	89	85	82	88	84	82	87	83	81	85	83	81
7	94	87	82	79	92	86	82	79	85	81	79	84	81	78	83	80	78
8	91	84	79	76	90	83	79	76	82	79	76	81	78	76	81	78	75
9	88	81	77	74	87	81	76	74	80	76	73	79	76	73	78	75	73
10	86	79	74	71	85	78	74	71	77	74	71	77	73	71	76	73	71

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5223408	5223408	5223408
5°	4360173	4360173	4360173
10°	2486375	2486375	2486375
15°	1190133	1190133	1190133
20°	666164	666164	666164
25°	466726	466726	466726
30°	323465	323465	323465
35°	169847	169847	169847
40°	62588	62588	62588
45°	18591	18591	18591
50°	8822	8822	8822
55°	6516	6516	6516
60°	5671	5671	5671
65°	4422	4422	4422
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: 18591 cd/sqm

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CATALOG NUMBER: PRLX-CYL2W-DR-X-930-15L-SP-U-S-X-X-BLAK

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.8	35.1
10°-20°	528.5	34.2
20°-30°	304.1	19.7
30°-40°	140.3	9.1
40°-50°	21.3	1.4
50°-60°	5.1	0.3
60°-70°	2.5	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°	1375.5	89.0
0°-40°	1515.8	98.1
0°-60°	1542.1	99.8
0°-90°	1545.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1545.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8106	8106	8106	8106	8106	
5°	6740	6740	6740	6740	6740	543
15°	1784	1784	1784	1784	1784	528
25°	656	656	656	656	656	304
35°	216	216	216	216	216	140
45°	20	20	20	20	20	21
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: P1057412

CATALOG NUMBER: PRLX-CYL2W-DR-X-930-15L-SP-U-S-X-X-BLAK

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8105.6	8105.6	8105.6	8105.6	8105.6
1°	7952.1	7952.1	7952.1	7952.1	7952.1
2°	7798.7	7798.7	7798.7	7798.7	7798.7
3°	7525.6	7525.6	7525.6	7525.6	7525.6
4°	7133.0	7133.0	7133.0	7133.0	7133.0
5°	6740.3	6740.3	6740.3	6740.3	6740.3
6°	6166.8	6166.8	6166.8	6166.8	6166.8
7°	5593.2	5593.2	5593.2	5593.2	5593.2
8°	5005.1	5005.1	5005.1	5005.1	5005.1
9°	4402.4	4402.4	4402.4	4402.4	4402.4
10°	3799.7	3799.7	3799.7	3799.7	3799.7
11°	3319.0	3319.0	3319.0	3319.0	3319.0
12°	2838.2	2838.2	2838.2	2838.2	2838.2
13°	2435.0	2435.0	2435.0	2435.0	2435.0
14°	2109.5	2109.5	2109.5	2109.5	2109.5
15°	1783.9	1783.9	1783.9	1783.9	1783.9
16°	1579.7	1579.7	1579.7	1579.7	1579.7
17°	1375.5	1375.5	1375.5	1375.5	1375.5
18°	1213.0	1213.0	1213.0	1213.0	1213.0
19°	1092.2	1092.2	1092.2	1092.2	1092.2
20°	971.4	971.4	971.4	971.4	971.4
21°	897.3	897.3	897.3	897.3	897.3
22°	823.2	823.2	823.2	823.2	823.2
23°	760.2	760.2	760.2	760.2	760.2
24°	708.3	708.3	708.3	708.3	708.3
25°	656.4	656.4	656.4	656.4	656.4
26°	612.0	612.0	612.0	612.0	612.0
27°	567.7	567.7	567.7	567.7	567.7
28°	523.4	523.4	523.4	523.4	523.4
29°	479.0	479.0	479.0	479.0	479.0
30°	434.7	434.7	434.7	434.7	434.7
31°	388.6	388.6	388.6	388.6	388.6
32°	342.5	342.5	342.5	342.5	342.5
33°	298.7	298.7	298.7	298.7	298.7
34°	257.3	257.3	257.3	257.3	257.3
35°	215.9	215.9	215.9	215.9	215.9
36°	182.6	182.6	182.6	182.6	182.6
37°	149.4	149.4	149.4	149.4	149.4
38°	121.1	121.1	121.1	121.1	121.1
39°	97.7	97.7	97.7	97.7	97.7
40°	74.4	74.4	74.4	74.4	74.4
41°	60.4	60.4	60.4	60.4	60.4
42°	46.4	46.4	46.4	46.4	46.4
43°	35.6	35.6	35.6	35.6	35.6
44°	28.0	28.0	28.0	28.0	28.0

TEST NUMBER: P1057412

CATALOG NUMBER: PRLX-CYL2W-DR-X-930-15L-SP-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	20.4	20.4	20.4	20.4	20.4
46°	16.9	16.9	16.9	16.9	16.9
47°	13.4	13.4	13.4	13.4	13.4
48°	11.1	11.1	11.1	11.1	11.1
49°	9.9	9.9	9.9	9.9	9.9
50°	8.8	8.8	8.8	8.8	8.8
51°	7.6	7.6	7.6	7.6	7.6
52°	6.4	6.4	6.4	6.4	6.4
53°	5.8	5.8	5.8	5.8	5.8
54°	5.8	5.8	5.8	5.8	5.8
55°	5.8	5.8	5.8	5.8	5.8
56°	5.3	5.3	5.3	5.3	5.3
57°	4.7	4.7	4.7	4.7	4.7
58°	4.4	4.4	4.4	4.4	4.4
59°	4.4	4.4	4.4	4.4	4.4
60°	4.4	4.4	4.4	4.4	4.4
61°	3.8	3.8	3.8	3.8	3.8
62°	3.2	3.2	3.2	3.2	3.2
63°	2.9	2.9	2.9	2.9	2.9
64°	2.9	2.9	2.9	2.9	2.9
65°	2.9	2.9	2.9	2.9	2.9
66°	2.3	2.3	2.3	2.3	2.3
67°	1.8	1.8	1.8	1.8	1.8
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: P1057412
CATALOG NUMBER: PRLX-CYL2W-DR-X-930-15L-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	4.96	5.86	5.32	6.17	6.49	4.96	5.86	5.32	6.17	6.49
	3H	5.42	6.21	5.80	6.54	6.91	5.42	6.21	5.80	6.54	6.91
	4H	5.38	6.11	5.79	6.47	6.86	5.38	6.11	5.79	6.47	6.86
	6H	5.26	5.93	5.68	6.31	6.70	5.26	5.93	5.68	6.31	6.70
	8H	5.20	5.83	5.64	6.22	6.63	5.20	5.83	5.64	6.22	6.63
	12H	5.14	5.73	5.57	6.12	6.55	5.14	5.73	5.57	6.12	6.55
4H	2H	5.26	5.99	5.67	6.34	6.73	5.26	5.99	5.67	6.34	6.73
	3H	5.91	6.51	6.33	6.92	7.32	5.91	6.51	6.33	6.92	7.32
	4H	5.84	6.37	6.28	6.79	7.24	5.84	6.37	6.28	6.79	7.24
	6H	5.72	6.17	6.19	6.62	7.10	5.72	6.17	6.19	6.62	7.10
	8H	5.64	6.06	6.12	6.51	6.99	5.64	6.06	6.12	6.51	6.99
	12H	5.57	5.93	6.07	6.42	6.90	5.57	5.93	6.07	6.42	6.90
8H	4H	5.71	6.13	6.19	6.58	7.05	5.71	6.13	6.19	6.58	7.05
	6H	5.58	5.90	6.09	6.41	6.90	5.58	5.90	6.09	6.41	6.90
	8H	5.50	5.79	6.04	6.31	6.81	5.50	5.79	6.04	6.31	6.81
	12H	5.44	5.69	5.97	6.19	6.77	5.44	5.69	5.97	6.19	6.77
12H	4H	5.64	6.00	6.13	6.49	6.97	5.64	6.00	6.13	6.49	6.97
	6H	5.50	5.79	6.04	6.31	6.81	5.50	5.79	6.04	6.31	6.81
	8H	5.44	5.69	5.97	6.19	6.77	5.44	5.69	5.97	6.19	6.77