

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: P1057202

Luminaire Tested: PRLX-CYL2S-X-940-15L-MD-U-S-X-X-BLAK

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057202
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-940-15L-MD-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 1500 LUMENS, MEDIUM OPTIC (23-DEGREES)
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

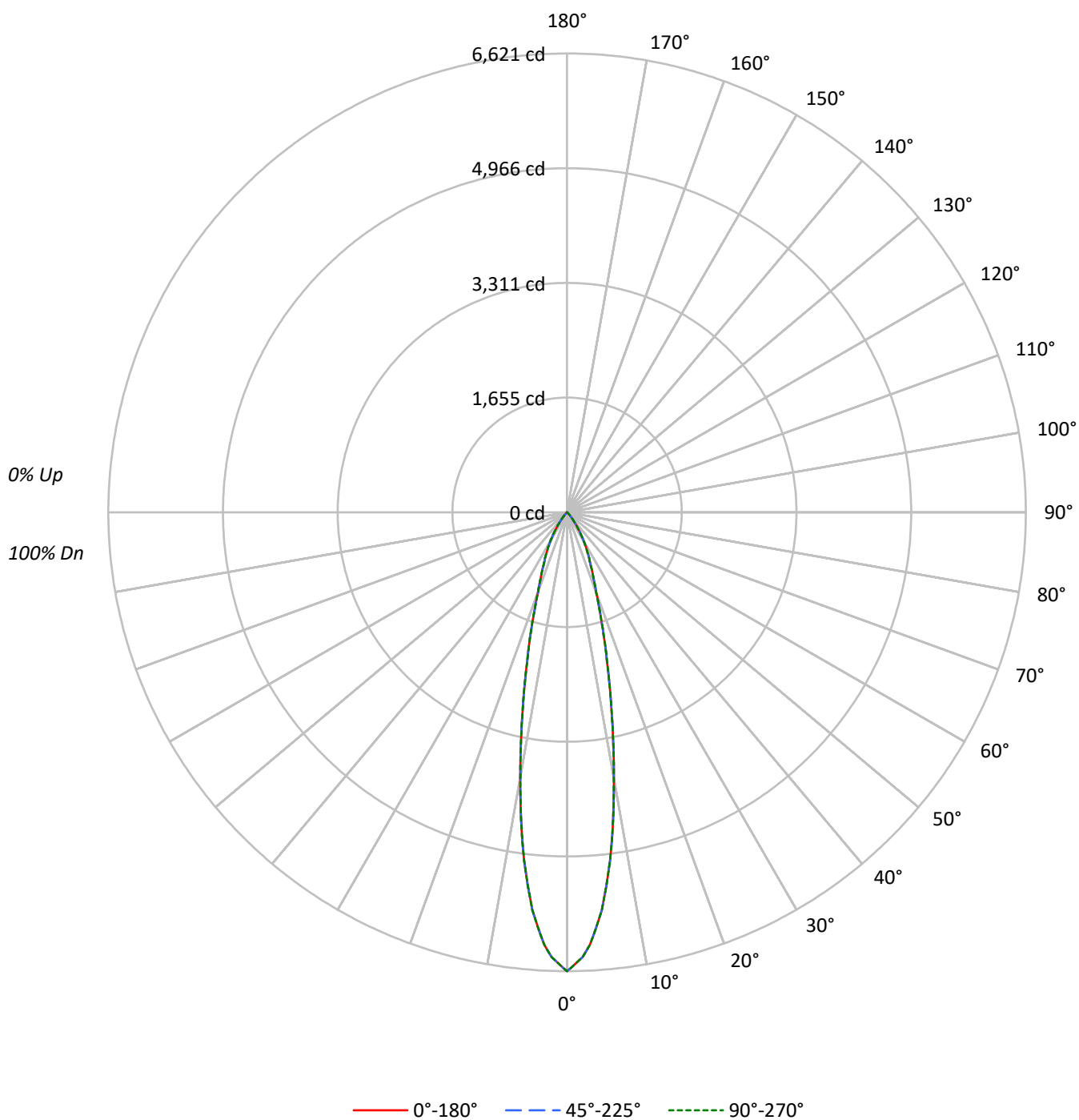
Lumens per Lamp: N/A
Luminaire Lumens: 1669.9 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.42
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96		
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	94	93	92		
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	88		
4	102	96	92	89	101	95	91	88	93	90	87	91	89	86	90	87	85	84		
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81		
6	95	88	84	80	94	88	83	80	86	83	80	85	82	79	84	81	79	77		
7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	75		
8	89	82	77	74	88	81	77	74	80	76	74	79	76	73	79	75	73	72		
9	86	79	74	71	85	78	74	71	78	74	71	77	73	71	76	73	70	69		
10	84	76	72	69	83	76	72	69	75	71	68	74	71	68	74	71	68	67		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4266896	4266896	4266896
5°	3727394	3727394	3727394
10°	2542519	2542519	2542519
15°	1481679	1481679	1481679
20°	844260	844260	844260
25°	546433	546433	546433
30°	361415	361415	361415
35°	189829	189829	189829
40°	73692	73692	73692
45°	23786	23786	23786
50°	12331	12331	12331
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: 23786 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.4	29.2
10°-20°	625.4	37.5
20°-30°	361.0	21.6
30°-40°	157.9	9.5
40°-50°	26.8	1.6
50°-60°	7.0	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°	1473.7	88.3
0°-40°	1631.7	97.7
0°-60°	1665.5	99.7
0°-90°	1669.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1669.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6621	6621	6621	6621	6621	
5°	5762	5762	5762	5762	5762	487
15°	2221	2221	2221	2221	2221	625
25°	768	768	768	768	768	361
35°	241	241	241	241	241	158
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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6621.3	6621.3	6621.3	6621.3	6621.3
1°	6522.3	6522.3	6522.3	6522.3	6522.3
2°	6423.3	6423.3	6423.3	6423.3	6423.3
3°	6251.5	6251.5	6251.5	6251.5	6251.5
4°	6006.8	6006.8	6006.8	6006.8	6006.8
5°	5762.1	5762.1	5762.1	5762.1	5762.1
6°	5416.0	5416.0	5416.0	5416.0	5416.0
7°	5069.9	5069.9	5069.9	5069.9	5069.9
8°	4694.5	4694.5	4694.5	4694.5	4694.5
9°	4290.0	4290.0	4290.0	4290.0	4290.0
10°	3885.5	3885.5	3885.5	3885.5	3885.5
11°	3517.8	3517.8	3517.8	3517.8	3517.8
12°	3150.2	3150.2	3150.2	3150.2	3150.2
13°	2817.3	2817.3	2817.3	2817.3	2817.3
14°	2519.1	2519.1	2519.1	2519.1	2519.1
15°	2220.9	2220.9	2220.9	2220.9	2220.9
16°	1989.8	1989.8	1989.8	1989.8	1989.8
17°	1758.6	1758.6	1758.6	1758.6	1758.6
18°	1560.6	1560.6	1560.6	1560.6	1560.6
19°	1395.9	1395.9	1395.9	1395.9	1395.9
20°	1231.1	1231.1	1231.1	1231.1	1231.1
21°	1122.3	1122.3	1122.3	1122.3	1122.3
22°	1013.5	1013.5	1013.5	1013.5	1013.5
23°	921.0	921.0	921.0	921.0	921.0
24°	844.7	844.7	844.7	844.7	844.7
25°	768.5	768.5	768.5	768.5	768.5
26°	709.5	709.5	709.5	709.5	709.5
27°	650.4	650.4	650.4	650.4	650.4
28°	593.9	593.9	593.9	593.9	593.9
29°	539.8	539.8	539.8	539.8	539.8
30°	485.7	485.7	485.7	485.7	485.7
31°	434.7	434.7	434.7	434.7	434.7
32°	383.6	383.6	383.6	383.6	383.6
33°	334.8	334.8	334.8	334.8	334.8
34°	288.0	288.0	288.0	288.0	288.0
35°	241.3	241.3	241.3	241.3	241.3
36°	205.6	205.6	205.6	205.6	205.6
37°	170.0	170.0	170.0	170.0	170.0
38°	139.2	139.2	139.2	139.2	139.2
39°	113.4	113.4	113.4	113.4	113.4
40°	87.6	87.6	87.6	87.6	87.6
41°	72.2	72.2	72.2	72.2	72.2
42°	56.9	56.9	56.9	56.9	56.9
43°	44.6	44.6	44.6	44.6	44.6
44°	35.4	35.4	35.4	35.4	35.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	26.1	26.1	26.1	26.1	26.1
46°	22.4	22.4	22.4	22.4	22.4
47°	18.8	18.8	18.8	18.8	18.8
48°	16.0	16.0	16.0	16.0	16.0
49°	14.1	14.1	14.1	14.1	14.1
50°	12.3	12.3	12.3	12.3	12.3
51°	11.1	11.1	11.1	11.1	11.1
52°	9.8	9.8	9.8	9.8	9.8
53°	8.9	8.9	8.9	8.9	8.9
54°	8.3	8.3	8.3	8.3	8.3
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°	5.8	5.8	5.8	5.8	5.8
59°	5.2	5.2	5.2	5.2	5.2
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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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	6.71	7.62	7.08	7.93	8.25	6.71	7.62	7.08	7.93	8.25
	3H	7.46	8.26	7.84	8.59	8.96	7.46	8.26	7.84	8.59	8.96
	4H	7.70	8.44	8.11	8.79	9.18	7.70	8.44	8.11	8.79	9.18
	6H	7.59	8.26	8.01	8.64	9.03	7.59	8.26	8.01	8.64	9.03
	8H	7.53	8.16	7.96	8.55	8.96	7.53	8.16	7.96	8.55	8.96
	12H	7.46	8.06	7.90	8.45	8.88	7.46	8.06	7.90	8.45	8.88
4H	2H	6.84	7.57	7.24	7.93	8.32	6.84	7.57	7.24	7.93	8.32
	3H	7.64	8.24	8.05	8.65	9.05	7.64	8.24	8.05	8.65	9.05
	4H	7.98	8.51	8.42	8.94	9.39	7.98	8.51	8.42	8.94	9.39
	6H	7.86	8.32	8.34	8.77	9.25	7.86	8.32	8.34	8.77	9.25
	8H	7.79	8.21	8.27	8.66	9.14	7.79	8.21	8.27	8.66	9.14
	12H	7.72	8.08	8.21	8.57	9.05	7.72	8.08	8.21	8.57	9.05
8H	4H	7.90	8.32	8.38	8.77	9.25	7.90	8.32	8.38	8.77	9.25
	6H	7.77	8.10	8.28	8.61	9.09	7.77	8.10	8.28	8.61	9.09
	8H	7.69	7.99	8.23	8.51	9.01	7.69	7.99	8.23	8.51	9.01
	12H	7.64	7.89	8.16	8.39	8.97	7.64	7.89	8.16	8.39	8.97
12H	4H	7.83	8.19	8.32	8.68	9.16	7.83	8.19	8.32	8.68	9.16
	6H	7.69	7.99	8.23	8.51	9.01	7.69	7.99	8.23	8.51	9.01
	8H	7.64	7.89	8.16	8.39	8.97	7.64	7.89	8.16	8.39	8.97

END OF REPORT