

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: P1057181

Luminaire Tested: PRLX-CYL2S-X-930-10L-FL-U-S-X-X-BLAK

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057181
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-407-2)
Test Lab: INNOVATION CENTER
Issue Date: 8/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL2S-X-930-10L-FL-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 1000 LUMENS, FLOOD OPTIC (38-DEGREES)
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

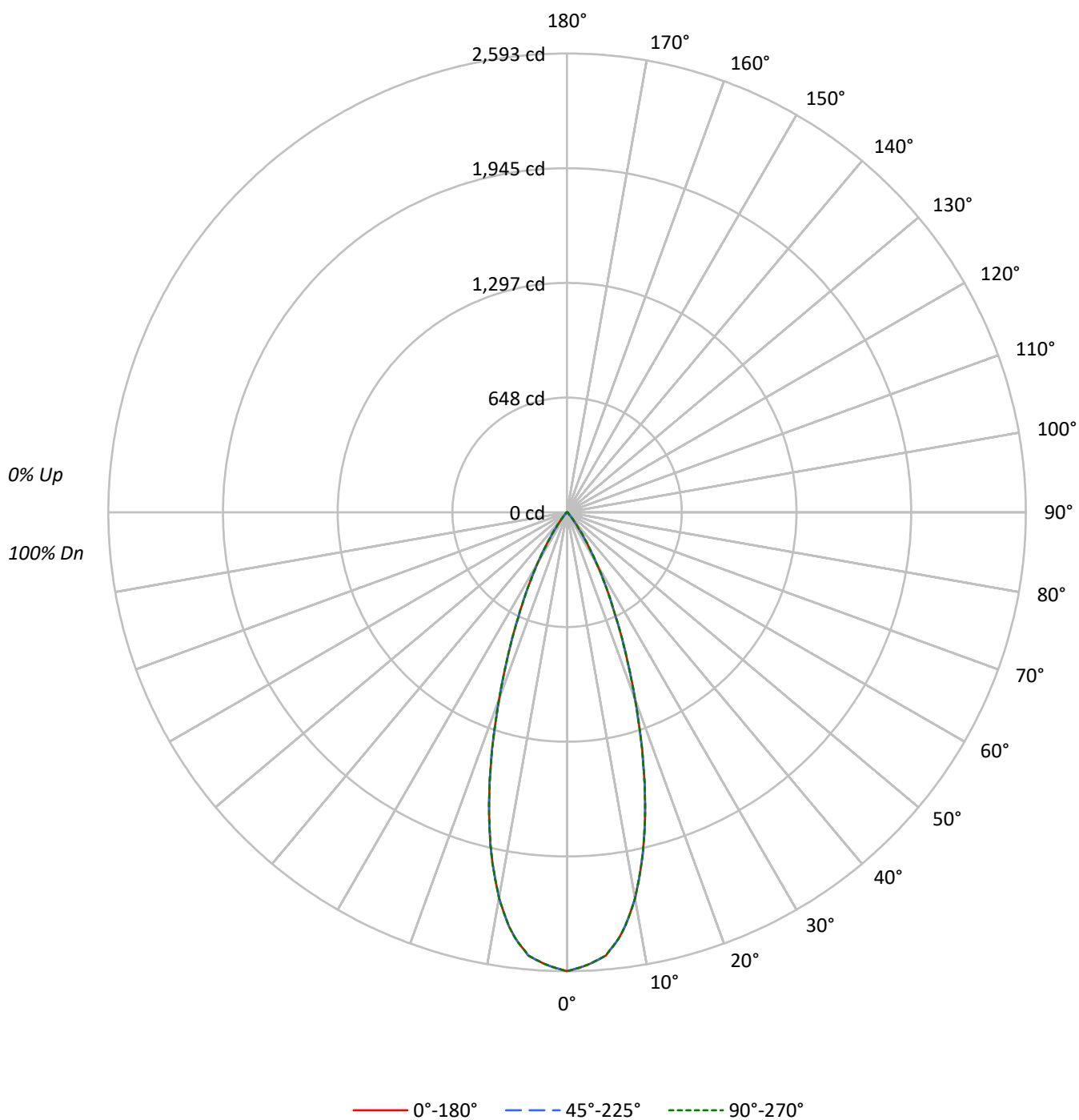
Lumens per Lamp: N/A
Luminaire Lumens: 1111.2 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.6
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 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	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	114	112	110	108	112	110	108	106		106	104	103		102	101	100		99	98	97
2	110	106	102	100	108	104	101	98		101	98	96		98	96	94		95	94	92
3	106	100	96	93	104	99	95	92		96	93	91		94	91	89		92	90	88
4	102	95	91	87	100	94	90	87		92	89	86		90	87	85		88	86	84
5	98	91	86	82	96	90	85	82		88	84	81		87	83	81		85	82	80
6	94	87	82	78	93	86	81	78		85	80	77		83	80	77		82	79	76
7	91	83	78	75	89	82	78	74		81	77	74		80	76	74		79	76	73
8	87	79	75	71	86	79	74	71		78	74	71		77	73	70		76	73	70
9	84	76	71	68	83	76	71	68		75	71	68		74	70	68		73	70	67
10	81	73	69	65	80	73	68	65		72	68	65		71	68	65		71	67	65

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1670851	1670851	1670851
5°	1626130	1626130	1626130
10°	1448886	1448886	1448886
15°	1136828	1136828	1136828
20°	766767	766767	766767
25°	461891	461891	461891
30°	249873	249873	249873
35°	105338	105338	105338
40°	35079	35079	35079
45°	15037	15037	15037
50°	8822	8822	8822
55°	6179	6179	6179
60°	4253	4253	4253
65°	3355	3355	3355
70°	2073	2073	2073
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15037 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.0	20.7
10°-20°	462.1	41.6
20°-30°	303.5	27.3
30°-40°	93.4	8.4
40°-50°	14.8	1.3
50°-60°	5.0	0.4
60°-70°	1.9	0.2
70°-80°	0.4	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°	995.6	89.6
0°-40°	1089.1	98.0
0°-60°	1108.8	99.8
0°-90°	1111.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1111.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2593	2593	2593	2593	2593	
5°	2514	2514	2514	2514	2514	230
15°	1704	1704	1704	1704	1704	462
25°	650	650	650	650	650	303
35°	134	134	134	134	134	93
45°	16	16	16	16	16	15
55°	6	6	6	6	6	5
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
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°	2592.8	2592.8	2592.8	2592.8	2592.8
1°	2580.9	2580.9	2580.9	2580.9	2580.9
2°	2569.1	2569.1	2569.1	2569.1	2569.1
3°	2553.3	2553.3	2553.3	2553.3	2553.3
4°	2533.5	2533.5	2533.5	2533.5	2533.5
5°	2513.8	2513.8	2513.8	2513.8	2513.8
6°	2467.7	2467.7	2467.7	2467.7	2467.7
7°	2421.6	2421.6	2421.6	2421.6	2421.6
8°	2361.7	2361.7	2361.7	2361.7	2361.7
9°	2288.0	2288.0	2288.0	2288.0	2288.0
10°	2214.2	2214.2	2214.2	2214.2	2214.2
11°	2120.3	2120.3	2120.3	2120.3	2120.3
12°	2026.4	2026.4	2026.4	2026.4	2026.4
13°	1924.3	1924.3	1924.3	1924.3	1924.3
14°	1814.2	1814.2	1814.2	1814.2	1814.2
15°	1704.0	1704.0	1704.0	1704.0	1704.0
16°	1586.8	1586.8	1586.8	1586.8	1586.8
17°	1469.6	1469.6	1469.6	1469.6	1469.6
18°	1352.5	1352.5	1352.5	1352.5	1352.5
19°	1235.3	1235.3	1235.3	1235.3	1235.3
20°	1118.1	1118.1	1118.1	1118.1	1118.1
21°	1015.8	1015.8	1015.8	1015.8	1015.8
22°	913.6	913.6	913.6	913.6	913.6
23°	819.9	819.9	819.9	819.9	819.9
24°	734.7	734.7	734.7	734.7	734.7
25°	649.6	649.6	649.6	649.6	649.6
26°	581.1	581.1	581.1	581.1	581.1
27°	512.6	512.6	512.6	512.6	512.6
28°	449.9	449.9	449.9	449.9	449.9
29°	392.8	392.8	392.8	392.8	392.8
30°	335.8	335.8	335.8	335.8	335.8
31°	289.2	289.2	289.2	289.2	289.2
32°	242.7	242.7	242.7	242.7	242.7
33°	202.3	202.3	202.3	202.3	202.3
34°	168.1	168.1	168.1	168.1	168.1
35°	133.9	133.9	133.9	133.9	133.9
36°	110.6	110.6	110.6	110.6	110.6
37°	87.3	87.3	87.3	87.3	87.3
38°	68.9	68.9	68.9	68.9	68.9
39°	55.3	55.3	55.3	55.3	55.3
40°	41.7	41.7	41.7	41.7	41.7
41°	34.7	34.7	34.7	34.7	34.7
42°	27.7	27.7	27.7	27.7	27.7
43°	22.6	22.6	22.6	22.6	22.6
44°	19.5	19.5	19.5	19.5	19.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	16.5	16.5	16.5	16.5	16.5
46°	14.7	14.7	14.7	14.7	14.7
47°	12.9	12.9	12.9	12.9	12.9
48°	11.4	11.4	11.4	11.4	11.4
49°	10.1	10.1	10.1	10.1	10.1
50°	8.8	8.8	8.8	8.8	8.8
51°	7.9	7.9	7.9	7.9	7.9
52°	7.0	7.0	7.0	7.0	7.0
53°	6.4	6.4	6.4	6.4	6.4
54°	5.9	5.9	5.9	5.9	5.9
55°	5.5	5.5	5.5	5.5	5.5
56°	5.0	5.0	5.0	5.0	5.0
57°	4.6	4.6	4.6	4.6	4.6
58°	4.2	4.2	4.2	4.2	4.2
59°	3.7	3.7	3.7	3.7	3.7
60°	3.3	3.3	3.3	3.3	3.3
61°	2.9	2.9	2.9	2.9	2.9
62°	2.4	2.4	2.4	2.4	2.4
63°	2.2	2.2	2.2	2.2	2.2
64°	2.2	2.2	2.2	2.2	2.2
65°	2.2	2.2	2.2	2.2	2.2
66°	1.8	1.8	1.8	1.8	1.8
67°	1.3	1.3	1.3	1.3	1.3
68°	1.1	1.1	1.1	1.1	1.1
69°	1.1	1.1	1.1	1.1	1.1
70°	1.1	1.1	1.1	1.1	1.1
71°	1.1	1.1	1.1	1.1	1.1
72°	1.1	1.1	1.1	1.1	1.1
73°	0.9	0.9	0.9	0.9	0.9
74°	0.4	0.4	0.4	0.4	0.4
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



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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	5.84	6.74	6.20	7.05	7.37	5.84	6.74	6.20	7.05	7.37
	3H	6.03	6.82	6.41	7.16	7.53	6.03	6.82	6.41	7.16	7.53
	4H	5.96	6.69	6.37	7.04	7.43	5.96	6.69	6.37	7.04	7.43
	6H	5.84	6.51	6.26	6.88	7.28	5.84	6.51	6.26	6.88	7.28
	8H	5.78	6.40	6.22	6.80	7.21	5.78	6.40	6.22	6.80	7.21
	12H	5.71	6.31	6.15	6.70	7.13	5.71	6.31	6.15	6.70	7.13
4H	2H	5.91	6.64	6.32	7.00	7.39	5.91	6.64	6.32	7.00	7.39
	3H	6.26	6.85	6.67	7.26	7.67	6.26	6.85	6.67	7.26	7.67
	4H	6.16	6.69	6.60	7.11	7.56	6.16	6.69	6.60	7.11	7.56
	6H	6.04	6.49	6.51	6.94	7.42	6.04	6.49	6.51	6.94	7.42
	8H	5.96	6.38	6.44	6.83	7.31	5.96	6.38	6.44	6.83	7.31
	12H	5.89	6.25	6.39	6.74	7.22	5.89	6.25	6.39	6.74	7.22
8H	4H	6.01	6.43	6.48	6.88	7.35	6.01	6.43	6.48	6.88	7.35
	6H	5.88	6.20	6.39	6.71	7.20	5.88	6.20	6.39	6.71	7.20
	8H	5.80	6.09	6.34	6.61	7.11	5.80	6.09	6.34	6.61	7.11
	12H	5.74	5.99	6.27	6.49	7.07	5.74	5.99	6.27	6.49	7.07
12H	4H	5.94	6.30	6.43	6.79	7.26	5.94	6.30	6.43	6.79	7.26
	6H	5.80	6.09	6.34	6.61	7.11	5.80	6.09	6.34	6.61	7.11
	8H	5.74	5.99	6.27	6.49	7.07	5.74	5.99	6.27	6.49	7.07