

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: P1057199

Luminaire Tested: PRLX-CYL2S-X-940-10L-NF-U-S-X-X-BLAK

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057199
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-407-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL2S-X-940-10L-NF-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 1000 LUMENS, NARROW FLOOD OPTIC (27-DEGREES)
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

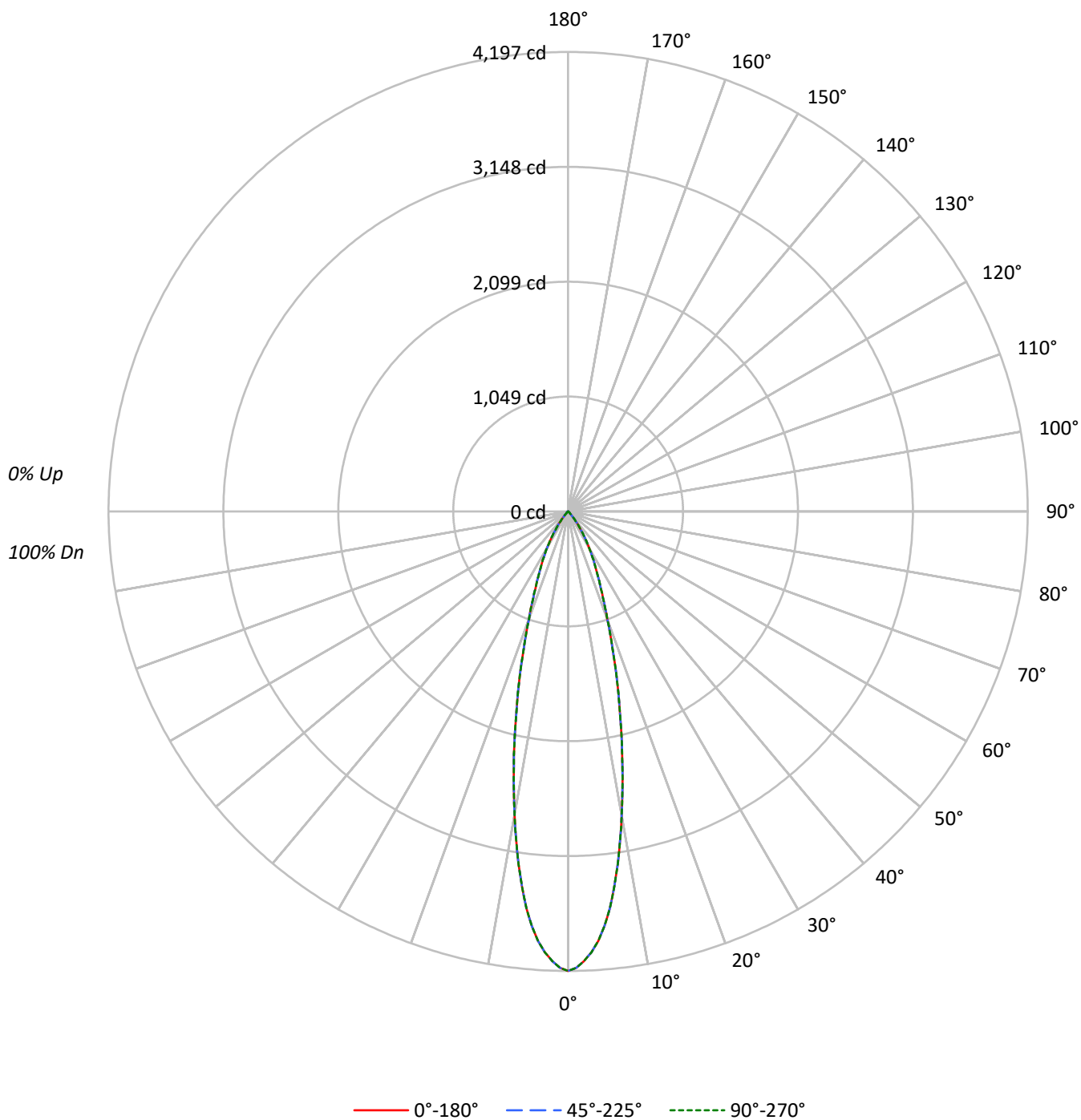
Lumens per Lamp: N/A
Luminaire Lumens: 1277.7 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Spacing Criteria (0/90/45): 0.45 / 0.45 / 0.48
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1057199

CATALOG NUMBER: PRLX-CYL2S-X-940-10L-NF-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					0
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	106	106	105	103	102	101	100	99	98	97	96		
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91		
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	88	87		
4	102	96	91	88	100	95	91	87	93	89	86	91	88	85	89	87	85	83		
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80		
6	95	88	83	79	93	87	82	79	85	82	79	84	81	78	83	80	78	76		
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73		
8	88	81	76	73	87	80	76	72	79	75	72	78	75	72	77	74	72	71		
9	85	78	73	70	84	77	73	70	76	72	69	76	72	69	75	71	69	68		
10	83	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	67	66		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2704629	2704629	2704629
5°	2459184	2459184	2459184
10°	1844512	1844512	1844512
15°	1197939	1197939	1197939
20°	717597	717597	717597
25°	447243	447243	447243
30°	283879	283879	283879
35°	148291	148291	148291
40°	59307	59307	59307
45°	20050	20050	20050
50°	10426	10426	10426
55°	6516	6516	6516
60°	5929	5929	5929
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: 20050 cd/sqm

TEST NUMBER: P1057199

CATALOG NUMBER: PRLX-CYL2S-X-940-10L-NF-U-S-X-X-BLAK

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.5	25.9
10°-20°	496.0	38.8
20°-30°	296.5	23.2
30°-40°	123.6	9.7
40°-50°	21.8	1.7
50°-60°	5.8	0.5
60°-70°	2.7	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°	1123.0	87.9
0°-40°	1246.6	97.6
0°-60°	1274.2	99.7
0°-90°	1277.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1277.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4197	4197	4197	4197	4197	
5°	3802	3802	3802	3802	3802	330
15°	1796	1796	1796	1796	1796	496
25°	629	629	629	629	629	296
35°	188	188	188	188	188	124
45°	22	22	22	22	22	22
55°	6	6	6	6	6	6
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	

TEST NUMBER: P1057199

CATALOG NUMBER: PRLX-CYL2S-X-940-10L-NF-U-S-X-X-BLAK

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4197.0	4197.0	4197.0	4197.0	4197.0
1°	4170.4	4170.4	4170.4	4170.4	4170.4
2°	4111.5	4111.5	4111.5	4111.5	4111.5
3°	4034.0	4034.0	4034.0	4034.0	4034.0
4°	3933.4	3933.4	3933.4	3933.4	3933.4
5°	3801.6	3801.6	3801.6	3801.6	3801.6
6°	3644.4	3644.4	3644.4	3644.4	3644.4
7°	3457.1	3457.1	3457.1	3457.1	3457.1
8°	3252.4	3252.4	3252.4	3252.4	3252.4
9°	3036.2	3036.2	3036.2	3036.2	3036.2
10°	2818.8	2818.8	2818.8	2818.8	2818.8
11°	2598.0	2598.0	2598.0	2598.0	2598.0
12°	2387.6	2387.6	2387.6	2387.6	2387.6
13°	2180.6	2180.6	2180.6	2180.6	2180.6
14°	1982.9	1982.9	1982.9	1982.9	1982.9
15°	1795.6	1795.6	1795.6	1795.6	1795.6
16°	1628.2	1628.2	1628.2	1628.2	1628.2
17°	1460.7	1460.7	1460.7	1460.7	1460.7
18°	1310.9	1310.9	1310.9	1310.9	1310.9
19°	1178.6	1178.6	1178.6	1178.6	1178.6
20°	1046.4	1046.4	1046.4	1046.4	1046.4
21°	948.3	948.3	948.3	948.3	948.3
22°	850.3	850.3	850.3	850.3	850.3
23°	766.8	766.8	766.8	766.8	766.8
24°	697.9	697.9	697.9	697.9	697.9
25°	629.0	629.0	629.0	629.0	629.0
26°	575.8	575.8	575.8	575.8	575.8
27°	522.6	522.6	522.6	522.6	522.6
28°	473.1	473.1	473.1	473.1	473.1
29°	427.3	427.3	427.3	427.3	427.3
30°	381.5	381.5	381.5	381.5	381.5
31°	340.4	340.4	340.4	340.4	340.4
32°	299.2	299.2	299.2	299.2	299.2
33°	260.6	260.6	260.6	260.6	260.6
34°	224.5	224.5	224.5	224.5	224.5
35°	188.5	188.5	188.5	188.5	188.5
36°	160.7	160.7	160.7	160.7	160.7
37°	133.0	133.0	133.0	133.0	133.0
38°	109.4	109.4	109.4	109.4	109.4
39°	90.0	90.0	90.0	90.0	90.0
40°	70.5	70.5	70.5	70.5	70.5
41°	58.0	58.0	58.0	58.0	58.0
42°	45.6	45.6	45.6	45.6	45.6
43°	35.8	35.8	35.8	35.8	35.8
44°	28.9	28.9	28.9	28.9	28.9

TEST NUMBER: P1057199

CATALOG NUMBER: PRLX-CYL2S-X-940-10L-NF-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	22.0	22.0	22.0	22.0	22.0
46°	18.7	18.7	18.7	18.7	18.7
47°	15.5	15.5	15.5	15.5	15.5
48°	13.2	13.2	13.2	13.2	13.2
49°	11.8	11.8	11.8	11.8	11.8
50°	10.4	10.4	10.4	10.4	10.4
51°	9.5	9.5	9.5	9.5	9.5
52°	8.6	8.6	8.6	8.6	8.6
53°	7.6	7.6	7.6	7.6	7.6
54°	6.7	6.7	6.7	6.7	6.7
55°	5.8	5.8	5.8	5.8	5.8
56°	5.3	5.3	5.3	5.3	5.3
57°	4.9	4.9	4.9	4.9	4.9
58°	4.6	4.6	4.6	4.6	4.6
59°	4.6	4.6	4.6	4.6	4.6
60°	4.6	4.6	4.6	4.6	4.6
61°	4.2	4.2	4.2	4.2	4.2
62°	3.7	3.7	3.7	3.7	3.7
63°	3.2	3.2	3.2	3.2	3.2
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



TEST NUMBER: P1057199
CATALOG NUMBER: PRLX-CYL2S-X-940-10L-NF-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	5.91	6.82	6.28	7.13	7.45	5.91	6.82	6.28	7.13	7.45
	3H	6.57	7.37	6.96	7.71	8.08	6.57	7.37	6.96	7.71	8.08
	4H	6.84	7.58	7.25	7.93	8.32	6.84	7.58	7.25	7.93	8.32
	6H	6.73	7.40	7.15	7.78	8.17	6.73	7.40	7.15	7.78	8.17
	8H	6.67	7.30	7.10	7.69	8.10	6.67	7.30	7.10	7.69	8.10
	12H	6.60	7.20	7.04	7.59	8.02	6.60	7.20	7.04	7.59	8.02
4H	2H	6.00	6.74	6.41	7.09	7.48	6.00	6.74	6.41	7.09	7.48
	3H	6.74	7.35	7.16	7.76	8.16	6.74	7.35	7.16	7.76	8.16
	4H	7.12	7.65	7.56	8.08	8.53	7.12	7.65	7.56	8.08	8.53
	6H	7.00	7.46	7.48	7.91	8.39	7.00	7.46	7.48	7.91	8.39
	8H	6.93	7.35	7.41	7.80	8.28	6.93	7.35	7.41	7.80	8.28
	12H	6.86	7.22	7.35	7.71	8.19	6.86	7.22	7.35	7.71	8.19
8H	4H	7.04	7.47	7.52	7.92	8.40	7.04	7.47	7.52	7.92	8.40
	6H	6.92	7.25	7.43	7.75	8.24	6.92	7.25	7.43	7.75	8.24
	8H	6.84	7.13	7.38	7.66	8.16	6.84	7.13	7.38	7.66	8.16
	12H	6.78	7.03	7.31	7.53	8.12	6.78	7.03	7.31	7.53	8.12
12H	4H	6.98	7.34	7.47	7.83	8.31	6.98	7.34	7.47	7.83	8.31
	6H	6.84	7.13	7.38	7.66	8.16	6.84	7.13	7.38	7.66	8.16
	8H	6.78	7.03	7.31	7.53	8.12	6.78	7.03	7.31	7.53	8.12