

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: P1057197

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

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057197
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-940-10L-FL-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 1000 LUMENS, FLOOD OPTIC (38-DEGREES)
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

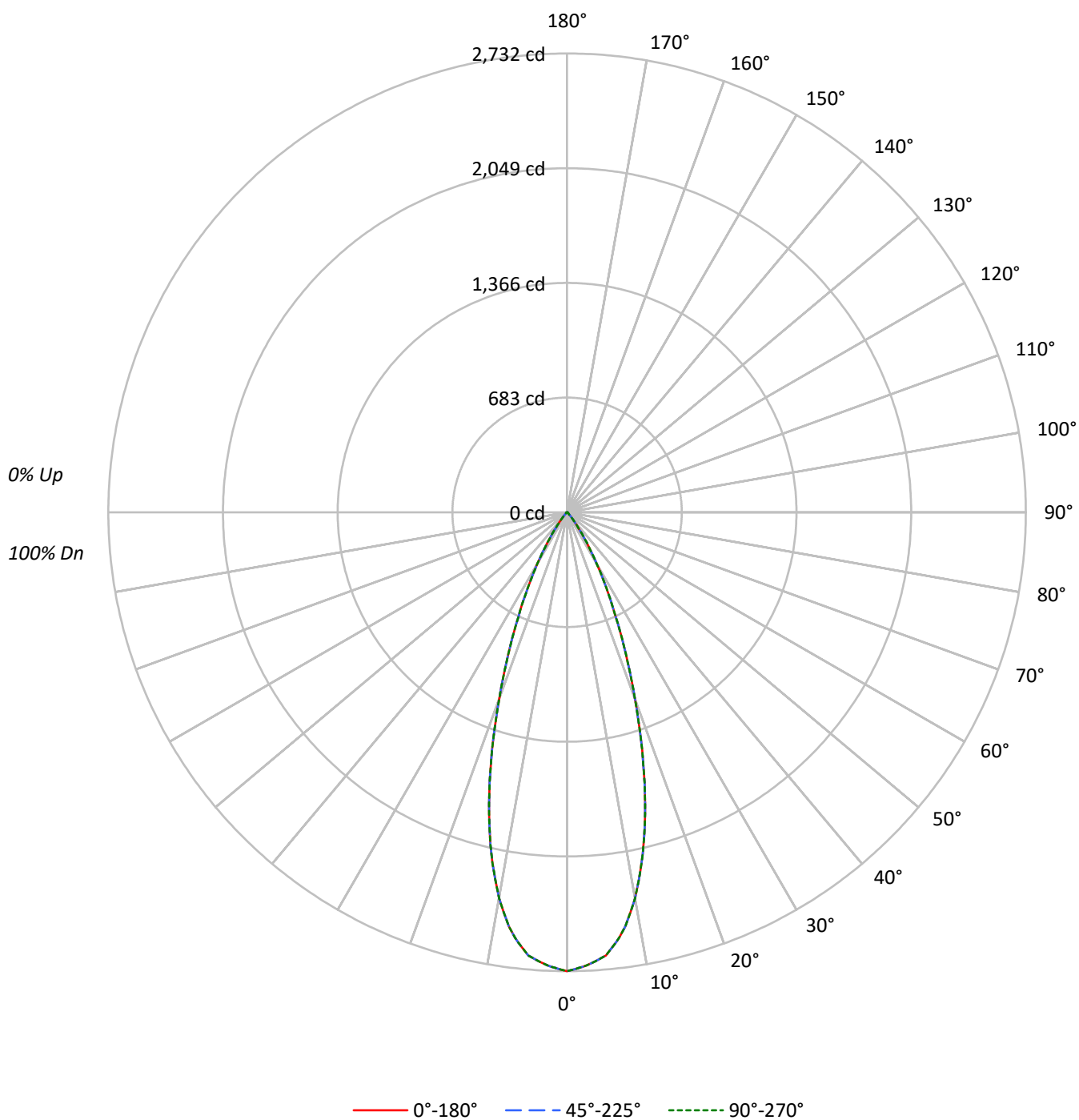
Lumens per Lamp: N/A
Luminaire Lumens: 1170.8 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.6
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1057197

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

Luminous Intensity Polar Plot



TEST NUMBER: P1057197

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

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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95		
2	110	106	102	100	108	104	101	98	101	98	96	98	96	94	95	94	92	91		
3	106	100	96	93	104	99	95	92	96	93	91	94	91	89	92	90	88	87		
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	88	86	84	82		
5	98	91	86	82	96	90	85	82	88	84	81	87	83	81	85	82	80	79		
6	94	87	82	78	93	86	81	78	85	80	77	83	80	77	82	79	76	75		
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72		
8	87	79	75	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69		
9	84	76	71	68	83	76	71	68	75	71	68	74	70	68	73	70	67	66		
10	81	73	69	65	80	73	68	65	72	68	65	71	68	65	71	67	65	64		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1760554	1760554	1760554
5°	1713459	1713459	1713459
10°	1526755	1526755	1526755
15°	1197872	1197872	1197872
20°	807914	807914	807914
25°	486706	486706	486706
30°	263267	263267	263267
35°	111002	111002	111002
40°	36930	36930	36930
45°	15766	15766	15766
50°	9223	9223	9223
55°	6516	6516	6516
60°	4511	4511	4511
65°	3507	3507	3507
70°	2261	2261	2261
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15766 cd/sqm

TEST NUMBER: P1057197

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.4	20.7
10°-20°	486.9	41.6
20°-30°	319.8	27.3
30°-40°	98.4	8.4
40°-50°	15.6	1.3
50°-60°	5.3	0.4
60°-70°	2.0	0.2
70°-80°	0.5	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°	1049.1	89.6
0°-40°	1147.5	98.0
0°-60°	1168.4	99.8
0°-90°	1170.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1170.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2732	2732	2732	2732	2732	
5°	2649	2649	2649	2649	2649	242
15°	1796	1796	1796	1796	1796	487
25°	684	684	684	684	684	320
35°	141	141	141	141	141	98
45°	17	17	17	17	17	16
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	

TEST NUMBER: P1057197

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2732.0	2732.0	2732.0	2732.0	2732.0
1°	2719.6	2719.6	2719.6	2719.6	2719.6
2°	2707.1	2707.1	2707.1	2707.1	2707.1
3°	2690.4	2690.4	2690.4	2690.4	2690.4
4°	2669.6	2669.6	2669.6	2669.6	2669.6
5°	2648.8	2648.8	2648.8	2648.8	2648.8
6°	2600.2	2600.2	2600.2	2600.2	2600.2
7°	2551.7	2551.7	2551.7	2551.7	2551.7
8°	2488.6	2488.6	2488.6	2488.6	2488.6
9°	2410.9	2410.9	2410.9	2410.9	2410.9
10°	2333.2	2333.2	2333.2	2333.2	2333.2
11°	2234.2	2234.2	2234.2	2234.2	2234.2
12°	2135.2	2135.2	2135.2	2135.2	2135.2
13°	2027.7	2027.7	2027.7	2027.7	2027.7
14°	1911.6	1911.6	1911.6	1911.6	1911.6
15°	1795.5	1795.5	1795.5	1795.5	1795.5
16°	1672.1	1672.1	1672.1	1672.1	1672.1
17°	1548.6	1548.6	1548.6	1548.6	1548.6
18°	1425.1	1425.1	1425.1	1425.1	1425.1
19°	1301.6	1301.6	1301.6	1301.6	1301.6
20°	1178.1	1178.1	1178.1	1178.1	1178.1
21°	1070.4	1070.4	1070.4	1070.4	1070.4
22°	962.6	962.6	962.6	962.6	962.6
23°	863.9	863.9	863.9	863.9	863.9
24°	774.2	774.2	774.2	774.2	774.2
25°	684.5	684.5	684.5	684.5	684.5
26°	612.3	612.3	612.3	612.3	612.3
27°	540.2	540.2	540.2	540.2	540.2
28°	474.0	474.0	474.0	474.0	474.0
29°	413.9	413.9	413.9	413.9	413.9
30°	353.8	353.8	353.8	353.8	353.8
31°	304.8	304.8	304.8	304.8	304.8
32°	255.7	255.7	255.7	255.7	255.7
33°	213.2	213.2	213.2	213.2	213.2
34°	177.1	177.1	177.1	177.1	177.1
35°	141.1	141.1	141.1	141.1	141.1
36°	116.5	116.5	116.5	116.5	116.5
37°	92.0	92.0	92.0	92.0	92.0
38°	72.6	72.6	72.6	72.6	72.6
39°	58.3	58.3	58.3	58.3	58.3
40°	43.9	43.9	43.9	43.9	43.9
41°	36.5	36.5	36.5	36.5	36.5
42°	29.1	29.1	29.1	29.1	29.1
43°	23.8	23.8	23.8	23.8	23.8
44°	20.6	20.6	20.6	20.6	20.6

TEST NUMBER: P1057197

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	17.3	17.3	17.3	17.3	17.3
46°	15.5	15.5	15.5	15.5	15.5
47°	13.6	13.6	13.6	13.6	13.6
48°	12.0	12.0	12.0	12.0	12.0
49°	10.6	10.6	10.6	10.6	10.6
50°	9.2	9.2	9.2	9.2	9.2
51°	8.3	8.3	8.3	8.3	8.3
52°	7.4	7.4	7.4	7.4	7.4
53°	6.7	6.7	6.7	6.7	6.7
54°	6.2	6.2	6.2	6.2	6.2
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°	4.4	4.4	4.4	4.4	4.4
59°	3.9	3.9	3.9	3.9	3.9
60°	3.5	3.5	3.5	3.5	3.5
61°	3.0	3.0	3.0	3.0	3.0
62°	2.5	2.5	2.5	2.5	2.5
63°	2.3	2.3	2.3	2.3	2.3
64°	2.3	2.3	2.3	2.3	2.3
65°	2.3	2.3	2.3	2.3	2.3
66°	1.8	1.8	1.8	1.8	1.8
67°	1.4	1.4	1.4	1.4	1.4
68°	1.2	1.2	1.2	1.2	1.2
69°	1.2	1.2	1.2	1.2	1.2
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°	0.9	0.9	0.9	0.9	0.9
74°	0.5	0.5	0.5	0.5	0.5
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: P1057197
CATALOG NUMBER: PRLX-CYL2S-X-940-10L-FL-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

TEST NUMBER: P1057197

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

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	6.02	6.92	6.38	7.23	7.55	6.02	6.92	6.38	7.23	7.55
	3H	6.24	7.03	6.62	7.36	7.73	6.24	7.03	6.62	7.36	7.73
	4H	6.18	6.91	6.59	7.27	7.66	6.18	6.91	6.59	7.27	7.66
	6H	6.06	6.73	6.48	7.11	7.50	6.06	6.73	6.48	7.11	7.50
	8H	6.00	6.63	6.44	7.02	7.43	6.00	6.63	6.44	7.02	7.43
	12H	5.94	6.53	6.37	6.92	7.35	5.94	6.53	6.37	6.92	7.35
4H	2H	6.09	6.82	6.50	7.17	7.56	6.09	6.82	6.50	7.17	7.56
	3H	6.47	7.07	6.89	7.48	7.88	6.47	7.07	6.89	7.48	7.88
	4H	6.38	6.91	6.82	7.34	7.79	6.38	6.91	6.82	7.34	7.79
	6H	6.26	6.72	6.74	7.17	7.64	6.26	6.72	6.74	7.17	7.64
	8H	6.19	6.61	6.67	7.06	7.54	6.19	6.61	6.67	7.06	7.54
	12H	6.12	6.48	6.61	6.97	7.45	6.12	6.48	6.61	6.97	7.45
8H	4H	6.24	6.66	6.71	7.11	7.58	6.24	6.66	6.71	7.11	7.58
	6H	6.11	6.43	6.62	6.94	7.43	6.11	6.43	6.62	6.94	7.43
	8H	6.03	6.32	6.57	6.84	7.34	6.03	6.32	6.57	6.84	7.34
	12H	5.97	6.22	6.50	6.72	7.30	5.97	6.22	6.50	6.72	7.30
12H	4H	6.17	6.53	6.66	7.02	7.50	6.17	6.53	6.66	7.02	7.50
	6H	6.03	6.32	6.57	6.84	7.34	6.03	6.32	6.57	6.84	7.34
	8H	5.97	6.22	6.50	6.72	7.30	5.97	6.22	6.50	6.72	7.30

END OF REPORT