

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: P1057201

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

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057201
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-940-15L-FL-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 1500 LUMENS, FLOOD OPTIC (38-DEGREES)
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

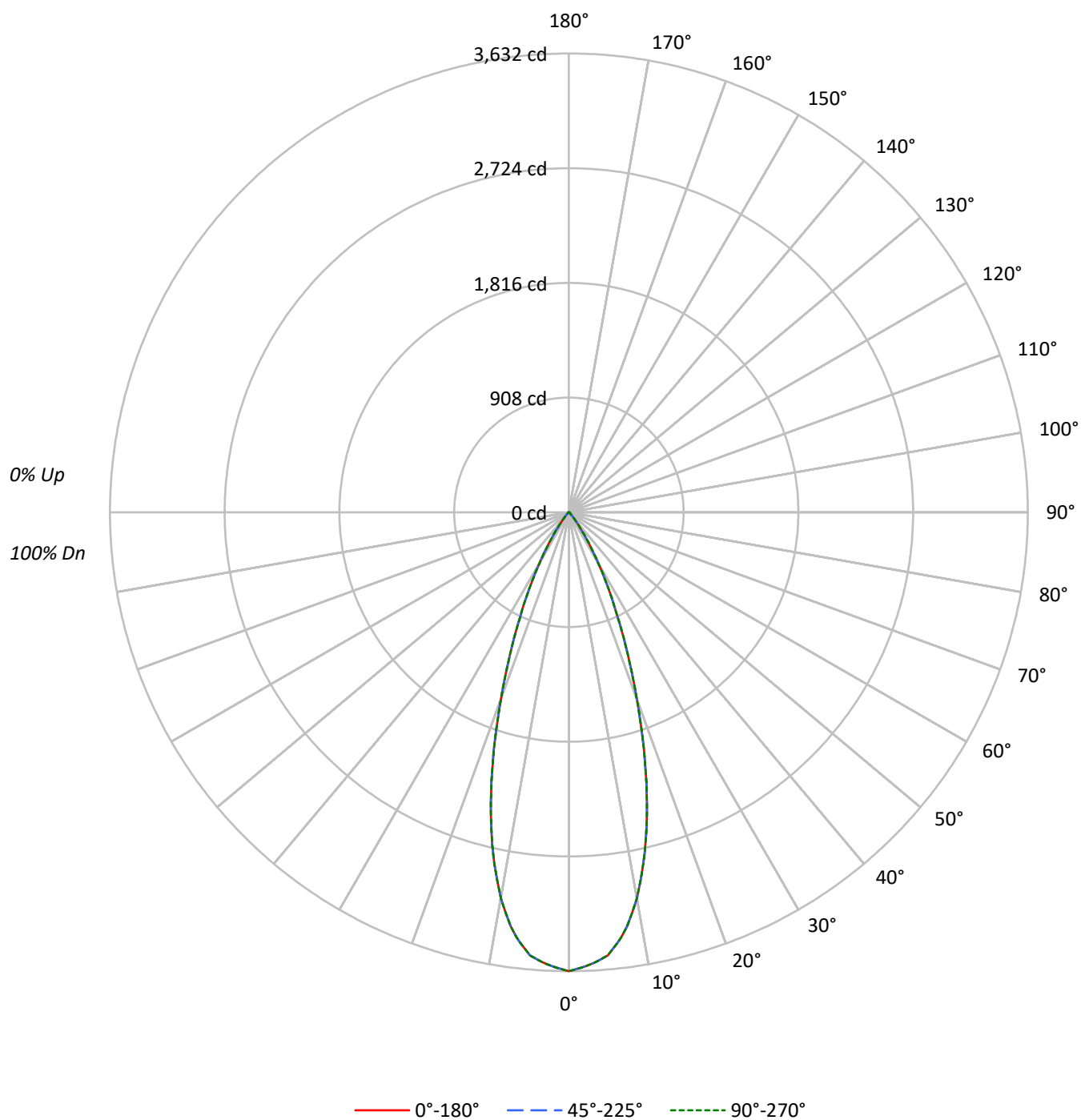
Lumens per Lamp: N/A
Luminaire Lumens: 1556.5 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.6
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1057201

CATALOG NUMBER: PRLX-CYL2S-X-940-15L-FL-U-S-X-X-BLAK

Luminous Intensity Polar Plot



TEST NUMBER: P1057201

CATALOG NUMBER: PRLX-CYL2S-X-940-15L-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
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	77
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°	2340468	2340468	2340468
5°	2277863	2277863	2277863
10°	2029631	2029631	2029631
15°	1592493	1592493	1592493
20°	1074064	1074064	1074064
25°	646974	646974	646974
30°	349956	349956	349956
35°	147505	147505	147505
40°	49128	49128	49128
45°	21052	21052	21052
50°	12331	12331	12331
55°	8651	8651	8651
60°	5929	5929	5929
65°	4727	4727	4727
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: 21052 cd/sqm

TEST NUMBER: P1057201

CATALOG NUMBER: PRLX-CYL2S-X-940-15L-FL-U-S-X-X-BLAK

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.2	20.7
10°-20°	647.3	41.6
20°-30°	425.1	27.3
30°-40°	130.8	8.4
40°-50°	20.7	1.3
50°-60°	7.0	0.5
60°-70°	2.7	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°	1394.7	89.6
0°-40°	1525.5	98.0
0°-60°	1553.3	99.8
0°-90°	1556.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1556.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3632	3632	3632	3632	3632	
5°	3521	3521	3521	3521	3521	322
15°	2387	2387	2387	2387	2387	647
25°	910	910	910	910	910	425
35°	188	188	188	188	188	131
45°	23	23	23	23	23	21
55°	8	8	8	8	8	7
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: P1057201

CATALOG NUMBER: PRLX-CYL2S-X-940-15L-FL-U-S-X-X-BLAK

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3631.9	3631.9	3631.9	3631.9	3631.9
1°	3615.3	3615.3	3615.3	3615.3	3615.3
2°	3598.7	3598.7	3598.7	3598.7	3598.7
3°	3576.6	3576.6	3576.6	3576.6	3576.6
4°	3548.9	3548.9	3548.9	3548.9	3548.9
5°	3521.3	3521.3	3521.3	3521.3	3521.3
6°	3456.7	3456.7	3456.7	3456.7	3456.7
7°	3392.2	3392.2	3392.2	3392.2	3392.2
8°	3308.2	3308.2	3308.2	3308.2	3308.2
9°	3205.0	3205.0	3205.0	3205.0	3205.0
10°	3101.7	3101.7	3101.7	3101.7	3101.7
11°	2970.1	2970.1	2970.1	2970.1	2970.1
12°	2838.5	2838.5	2838.5	2838.5	2838.5
13°	2695.6	2695.6	2695.6	2695.6	2695.6
14°	2541.3	2541.3	2541.3	2541.3	2541.3
15°	2387.0	2387.0	2387.0	2387.0	2387.0
16°	2222.8	2222.8	2222.8	2222.8	2222.8
17°	2058.7	2058.7	2058.7	2058.7	2058.7
18°	1894.5	1894.5	1894.5	1894.5	1894.5
19°	1730.4	1730.4	1730.4	1730.4	1730.4
20°	1566.2	1566.2	1566.2	1566.2	1566.2
21°	1423.0	1423.0	1423.0	1423.0	1423.0
22°	1279.7	1279.7	1279.7	1279.7	1279.7
23°	1148.4	1148.4	1148.4	1148.4	1148.4
24°	1029.2	1029.2	1029.2	1029.2	1029.2
25°	909.9	909.9	909.9	909.9	909.9
26°	814.0	814.0	814.0	814.0	814.0
27°	718.1	718.1	718.1	718.1	718.1
28°	630.2	630.2	630.2	630.2	630.2
29°	550.2	550.2	550.2	550.2	550.2
30°	470.3	470.3	470.3	470.3	470.3
31°	405.2	405.2	405.2	405.2	405.2
32°	340.0	340.0	340.0	340.0	340.0
33°	283.4	283.4	283.4	283.4	283.4
34°	235.5	235.5	235.5	235.5	235.5
35°	187.5	187.5	187.5	187.5	187.5
36°	154.9	154.9	154.9	154.9	154.9
37°	122.3	122.3	122.3	122.3	122.3
38°	96.5	96.5	96.5	96.5	96.5
39°	77.5	77.5	77.5	77.5	77.5
40°	58.4	58.4	58.4	58.4	58.4
41°	48.6	48.6	48.6	48.6	48.6
42°	38.7	38.7	38.7	38.7	38.7
43°	31.7	31.7	31.7	31.7	31.7
44°	27.4	27.4	27.4	27.4	27.4

TEST NUMBER: P1057201

CATALOG NUMBER: PRLX-CYL2S-X-940-15L-FL-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	23.1	23.1	23.1	23.1	23.1
46°	20.6	20.6	20.6	20.6	20.6
47°	18.1	18.1	18.1	18.1	18.1
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°	4.0	4.0	4.0	4.0	4.0
62°	3.4	3.4	3.4	3.4	3.4
63°	3.1	3.1	3.1	3.1	3.1
64°	3.1	3.1	3.1	3.1	3.1
65°	3.1	3.1	3.1	3.1	3.1
66°	2.5	2.5	2.5	2.5	2.5
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: P1057201
CATALOG NUMBER: PRLX-CYL2S-X-940-15L-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: P1057201

CATALOG NUMBER: PRLX-CYL2S-X-940-15L-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	6.96	7.86	7.33	8.18	8.49	6.96	7.86	7.33	8.18	8.49
	3H	7.14	7.93	7.52	8.27	8.64	7.14	7.93	7.52	8.27	8.64
	4H	7.07	7.80	7.48	8.16	8.55	7.07	7.80	7.48	8.16	8.55
	6H	6.96	7.62	7.38	8.00	8.40	6.96	7.62	7.38	8.00	8.40
	8H	6.89	7.52	7.33	7.91	8.32	6.89	7.52	7.33	7.91	8.32
	12H	6.83	7.43	7.27	7.81	8.24	6.83	7.43	7.27	7.81	8.24
4H	2H	7.05	7.78	7.46	8.13	8.53	7.05	7.78	7.46	8.13	8.53
	3H	7.37	7.96	7.78	8.38	8.78	7.37	7.96	7.78	8.38	8.78
	4H	7.27	7.81	7.71	8.23	8.68	7.27	7.81	7.71	8.23	8.68
	6H	7.16	7.61	7.63	8.06	8.54	7.16	7.61	7.63	8.06	8.54
	8H	7.08	7.50	7.56	7.95	8.43	7.08	7.50	7.56	7.95	8.43
	12H	7.01	7.37	7.50	7.86	8.34	7.01	7.37	7.50	7.86	8.34
8H	4H	7.12	7.54	7.60	7.99	8.47	7.12	7.54	7.60	7.99	8.47
	6H	6.99	7.32	7.51	7.83	8.31	6.99	7.32	7.51	7.83	8.31
	8H	6.92	7.21	7.45	7.73	8.23	6.92	7.21	7.45	7.73	8.23
	12H	6.86	7.11	7.38	7.61	8.19	6.86	7.11	7.38	7.61	8.19
12H	4H	7.05	7.41	7.55	7.90	8.38	7.05	7.41	7.55	7.90	8.38
	6H	6.92	7.21	7.45	7.73	8.23	6.92	7.21	7.45	7.73	8.23
	8H	6.86	7.11	7.38	7.61	8.19	6.86	7.11	7.38	7.61	8.19

END OF REPORT