

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: P1057203

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

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057203
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-940-15L-NF-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 1500 LUMENS, NARROW FLOOD OPTIC (27-DEGREES)
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

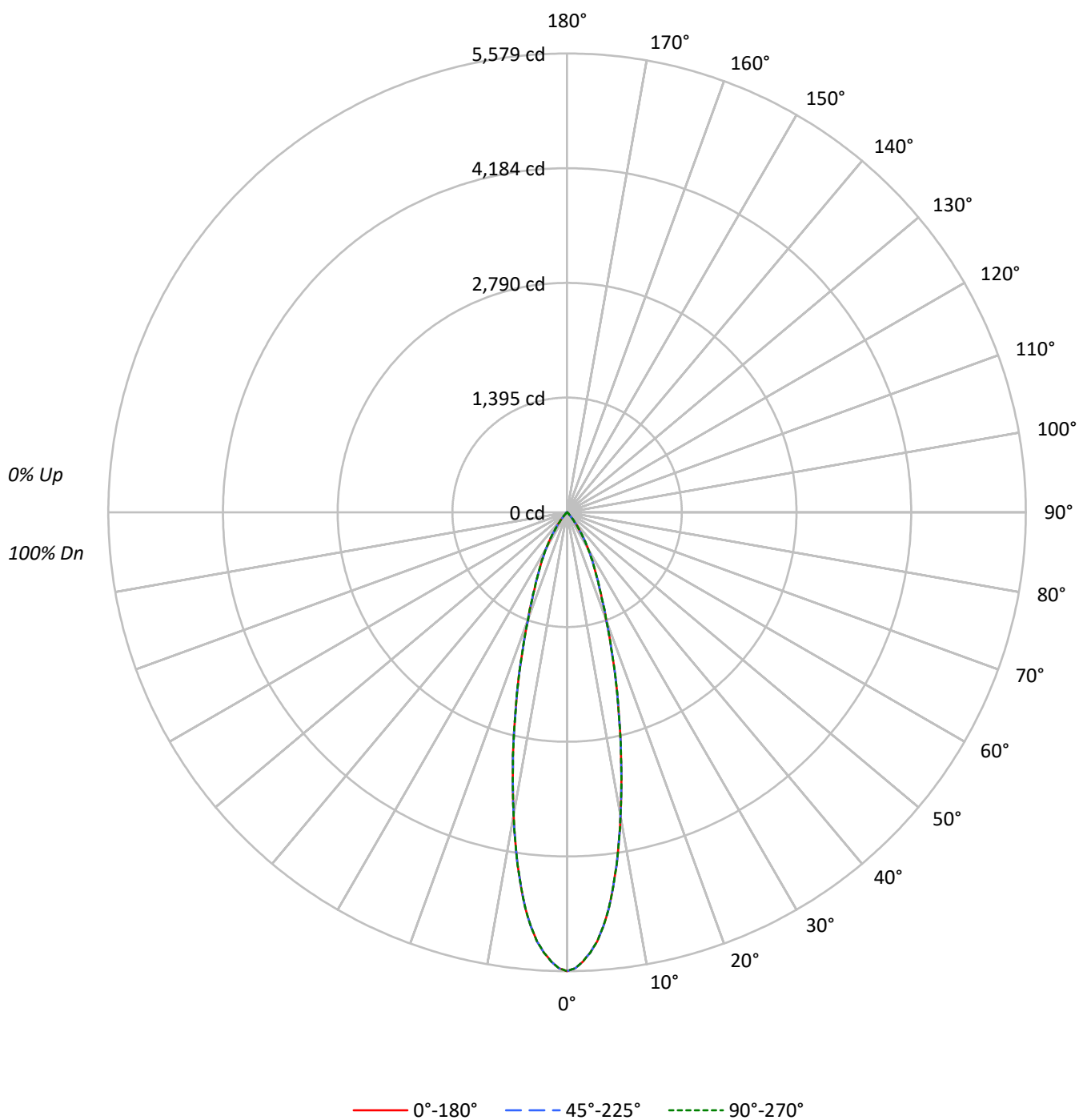
Lumens per Lamp: N/A
Luminaire Lumens: 1698.5 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Spacing Criteria (0/90/45): 0.45 / 0.45 / 0.48
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 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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CATALOG NUMBER: PRLX-CYL2S-X-940-15L-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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	115	112	110	108	112	110	108	106		106	105	103		102	101	100		99	98	97
2	110	106	103	100	108	104	101	99		101	99	97		98	96	95		96	94	93
3	106	101	97	93	104	99	96	93		97	94	91		95	92	90		92	90	88
4	102	96	91	88	100	95	91	87		93	89	86		91	88	85		89	87	85
5	98	92	87	83	97	91	86	83		89	85	82		87	84	82		86	83	81
6	95	88	83	79	93	87	82	79		85	82	79		84	81	78		83	80	78
7	91	84	79	76	90	83	79	76		82	78	75		81	78	75		80	77	75
8	88	81	76	73	87	80	76	72		79	75	72		78	75	72		77	74	72
9	85	78	73	70	84	77	73	70		76	72	69		76	72	69		75	71	69
10	83	75	70	67	82	74	70	67		74	70	67		73	69	67		72	69	67

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3595475	3595475	3595475
5°	3269144	3269144	3269144
10°	2452086	2452086	2452086
15°	1592493	1592493	1592493
20°	953916	953916	953916
25°	594499	594499	594499
30°	377413	377413	377413
35°	197066	197066	197066
40°	78907	78907	78907
45°	26611	26611	26611
50°	13835	13835	13835
55°	8651	8651	8651
60°	7862	7862	7862
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: 26611 cd/sqm

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.4	25.9
10°-20°	659.4	38.8
20°-30°	394.1	23.2
30°-40°	164.3	9.7
40°-50°	29.0	1.7
50°-60°	7.7	0.5
60°-70°	3.6	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°	1492.9	87.9
0°-40°	1657.2	97.6
0°-60°	1693.9	99.7
0°-90°	1698.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1698.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5579	5579	5579	5579	5579	
5°	5054	5054	5054	5054	5054	439
15°	2387	2387	2387	2387	2387	659
25°	836	836	836	836	836	394
35°	250	250	250	250	250	164
45°	29	29	29	29	29	29
55°	8	8	8	8	8	8
65°	3	3	3	3	3	4
75°	2	2	2	2	2	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5579.4	5579.4	5579.4	5579.4	5579.4
1°	5544.1	5544.1	5544.1	5544.1	5544.1
2°	5465.7	5465.7	5465.7	5465.7	5465.7
3°	5362.7	5362.7	5362.7	5362.7	5362.7
4°	5229.0	5229.0	5229.0	5229.0	5229.0
5°	5053.7	5053.7	5053.7	5053.7	5053.7
6°	4844.7	4844.7	4844.7	4844.7	4844.7
7°	4595.7	4595.7	4595.7	4595.7	4595.7
8°	4323.7	4323.7	4323.7	4323.7	4323.7
9°	4036.2	4036.2	4036.2	4036.2	4036.2
10°	3747.3	3747.3	3747.3	3747.3	3747.3
11°	3453.7	3453.7	3453.7	3453.7	3453.7
12°	3174.0	3174.0	3174.0	3174.0	3174.0
13°	2898.8	2898.8	2898.8	2898.8	2898.8
14°	2636.0	2636.0	2636.0	2636.0	2636.0
15°	2387.0	2387.0	2387.0	2387.0	2387.0
16°	2164.4	2164.4	2164.4	2164.4	2164.4
17°	1941.9	1941.9	1941.9	1941.9	1941.9
18°	1742.7	1742.7	1742.7	1742.7	1742.7
19°	1566.8	1566.8	1566.8	1566.8	1566.8
20°	1391.0	1391.0	1391.0	1391.0	1391.0
21°	1260.7	1260.7	1260.7	1260.7	1260.7
22°	1130.3	1130.3	1130.3	1130.3	1130.3
23°	1019.4	1019.4	1019.4	1019.4	1019.4
24°	927.7	927.7	927.7	927.7	927.7
25°	836.1	836.1	836.1	836.1	836.1
26°	765.4	765.4	765.4	765.4	765.4
27°	694.7	694.7	694.7	694.7	694.7
28°	629.0	629.0	629.0	629.0	629.0
29°	568.1	568.1	568.1	568.1	568.1
30°	507.2	507.2	507.2	507.2	507.2
31°	452.5	452.5	452.5	452.5	452.5
32°	397.8	397.8	397.8	397.8	397.8
33°	346.4	346.4	346.4	346.4	346.4
34°	298.5	298.5	298.5	298.5	298.5
35°	250.5	250.5	250.5	250.5	250.5
36°	213.6	213.6	213.6	213.6	213.6
37°	176.8	176.8	176.8	176.8	176.8
38°	145.4	145.4	145.4	145.4	145.4
39°	119.6	119.6	119.6	119.6	119.6
40°	93.8	93.8	93.8	93.8	93.8
41°	77.2	77.2	77.2	77.2	77.2
42°	60.6	60.6	60.6	60.6	60.6
43°	47.6	47.6	47.6	47.6	47.6
44°	38.4	38.4	38.4	38.4	38.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	29.2	29.2	29.2	29.2	29.2
46°	24.9	24.9	24.9	24.9	24.9
47°	20.6	20.6	20.6	20.6	20.6
48°	17.5	17.5	17.5	17.5	17.5
49°	15.7	15.7	15.7	15.7	15.7
50°	13.8	13.8	13.8	13.8	13.8
51°	12.6	12.6	12.6	12.6	12.6
52°	11.4	11.4	11.4	11.4	11.4
53°	10.1	10.1	10.1	10.1	10.1
54°	8.9	8.9	8.9	8.9	8.9
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°	6.1	6.1	6.1	6.1	6.1
59°	6.1	6.1	6.1	6.1	6.1
60°	6.1	6.1	6.1	6.1	6.1
61°	5.5	5.5	5.5	5.5	5.5
62°	4.9	4.9	4.9	4.9	4.9
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	6.89	7.80	7.25	8.11	8.42	6.89	7.80	7.25	8.11	8.42
	3H	7.58	8.38	7.96	8.71	9.08	7.58	8.38	7.96	8.71	9.08
	4H	7.80	8.54	8.21	8.90	9.29	7.80	8.54	8.21	8.90	9.29
	6H	7.69	8.36	8.11	8.74	9.14	7.69	8.36	8.11	8.74	9.14
	8H	7.63	8.26	8.07	8.65	9.06	7.63	8.26	8.07	8.65	9.06
	12H	7.57	8.17	8.00	8.55	8.98	7.57	8.17	8.00	8.55	8.98
4H	2H	6.98	7.72	7.39	8.07	8.46	6.98	7.72	7.39	8.07	8.46
	3H	7.73	8.33	8.15	8.74	9.15	7.73	8.33	8.15	8.74	9.15
	4H	8.05	8.59	8.49	9.01	9.46	8.05	8.59	8.49	9.01	9.46
	6H	7.94	8.39	8.41	8.85	9.32	7.94	8.39	8.41	8.85	9.32
	8H	7.86	8.29	8.34	8.74	9.21	7.86	8.29	8.34	8.74	9.21
	12H	7.79	8.16	8.29	8.65	9.12	7.79	8.16	8.29	8.65	9.12
8H	4H	7.97	8.39	8.45	8.85	9.32	7.97	8.39	8.45	8.85	9.32
	6H	7.84	8.17	8.36	8.68	9.17	7.84	8.17	8.36	8.68	9.17
	8H	7.77	8.06	8.30	8.58	9.08	7.77	8.06	8.30	8.58	9.08
	12H	7.71	7.96	8.23	8.46	9.04	7.71	7.96	8.23	8.46	9.04
12H	4H	7.90	8.26	8.39	8.75	9.23	7.90	8.26	8.39	8.75	9.23
	6H	7.77	8.06	8.30	8.58	9.08	7.77	8.06	8.30	8.58	9.08
	8H	7.71	7.96	8.23	8.46	9.04	7.71	7.96	8.23	8.46	9.04