

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: P1057187

Luminaire Tested: PRLX-CYL2S-X-930-15L-NF-U-S-X-X-BLAK

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057187
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-930-15L-NF-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 1500 LUMENS, NARROW FLOOD OPTIC (27-DEGREES)
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

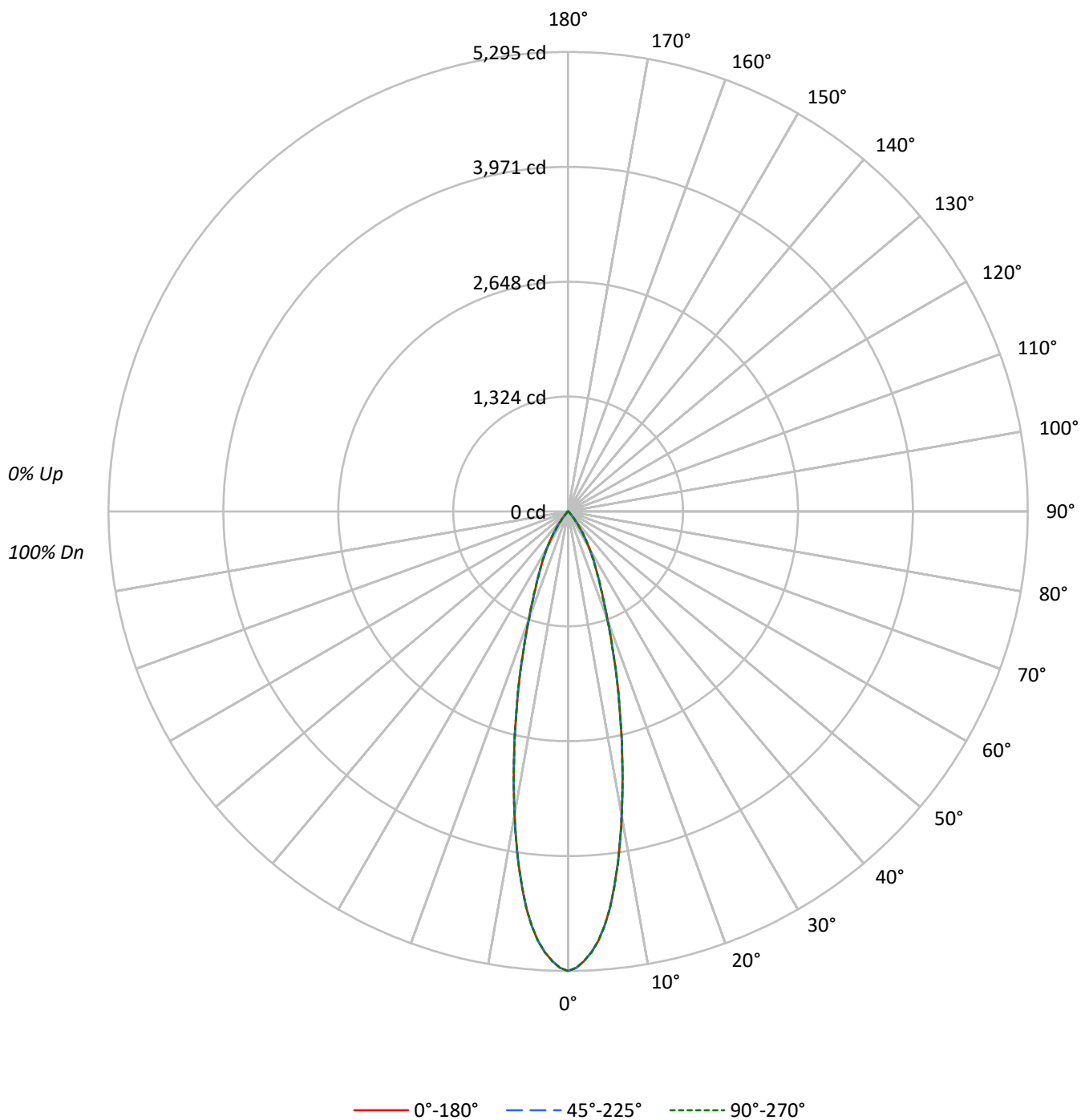
Lumens per Lamp: N/A
Luminaire Lumens: 1611.9 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Spacing Criteria (0/90/45): 0.45 / 0.45 / 0.48
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: Direct

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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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	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°	3412202	3412202	3412202
5°	3102507	3102507	3102507
10°	2327038	2327038	2327038
15°	1511300	1511300	1511300
20°	905294	905294	905294
25°	564209	564209	564209
30°	358215	358215	358215
35°	187075	187075	187075
40°	74869	74869	74869
45°	25244	25244	25244
50°	13133	13133	13133
55°	8202	8202	8202
60°	7475	7475	7475
65°	4422	4422	4422
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: 25244 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.0	25.9
10°-20°	625.8	38.8
20°-30°	374.0	23.2
30°-40°	155.9	9.7
40°-50°	27.5	1.7
50°-60°	7.3	0.5
60°-70°	3.4	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°	1416.8	87.9
0°-40°	1572.7	97.6
0°-60°	1607.5	99.7
0°-90°	1611.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1611.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5295	5295	5295	5295	5295	
5°	4796	4796	4796	4796	4796	417
15°	2265	2265	2265	2265	2265	626
25°	794	794	794	794	794	374
35°	238	238	238	238	238	156
45°	28	28	28	28	28	28
55°	7	7	7	7	7	7
65°	3	3	3	3	3	3
75°	2	2	2	2	2	1
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°	5295.0	5295.0	5295.0	5295.0	5295.0
1°	5261.4	5261.4	5261.4	5261.4	5261.4
2°	5187.0	5187.0	5187.0	5187.0	5187.0
3°	5089.3	5089.3	5089.3	5089.3	5089.3
4°	4962.4	4962.4	4962.4	4962.4	4962.4
5°	4796.1	4796.1	4796.1	4796.1	4796.1
6°	4597.7	4597.7	4597.7	4597.7	4597.7
7°	4361.4	4361.4	4361.4	4361.4	4361.4
8°	4103.2	4103.2	4103.2	4103.2	4103.2
9°	3830.5	3830.5	3830.5	3830.5	3830.5
10°	3556.2	3556.2	3556.2	3556.2	3556.2
11°	3277.6	3277.6	3277.6	3277.6	3277.6
12°	3012.1	3012.1	3012.1	3012.1	3012.1
13°	2751.0	2751.0	2751.0	2751.0	2751.0
14°	2501.6	2501.6	2501.6	2501.6	2501.6
15°	2265.3	2265.3	2265.3	2265.3	2265.3
16°	2054.1	2054.1	2054.1	2054.1	2054.1
17°	1842.9	1842.9	1842.9	1842.9	1842.9
18°	1653.8	1653.8	1653.8	1653.8	1653.8
19°	1487.0	1487.0	1487.0	1487.0	1487.0
20°	1320.1	1320.1	1320.1	1320.1	1320.1
21°	1196.4	1196.4	1196.4	1196.4	1196.4
22°	1072.7	1072.7	1072.7	1072.7	1072.7
23°	967.4	967.4	967.4	967.4	967.4
24°	880.5	880.5	880.5	880.5	880.5
25°	793.5	793.5	793.5	793.5	793.5
26°	726.4	726.4	726.4	726.4	726.4
27°	659.3	659.3	659.3	659.3	659.3
28°	596.9	596.9	596.9	596.9	596.9
29°	539.1	539.1	539.1	539.1	539.1
30°	481.4	481.4	481.4	481.4	481.4
31°	429.4	429.4	429.4	429.4	429.4
32°	377.5	377.5	377.5	377.5	377.5
33°	328.8	328.8	328.8	328.8	328.8
34°	283.3	283.3	283.3	283.3	283.3
35°	237.8	237.8	237.8	237.8	237.8
36°	202.8	202.8	202.8	202.8	202.8
37°	167.7	167.7	167.7	167.7	167.7
38°	138.0	138.0	138.0	138.0	138.0
39°	113.5	113.5	113.5	113.5	113.5
40°	89.0	89.0	89.0	89.0	89.0
41°	73.2	73.2	73.2	73.2	73.2
42°	57.5	57.5	57.5	57.5	57.5
43°	45.2	45.2	45.2	45.2	45.2
44°	36.5	36.5	36.5	36.5	36.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	27.7	27.7	27.7	27.7	27.7
46°	23.6	23.6	23.6	23.6	23.6
47°	19.5	19.5	19.5	19.5	19.5
48°	16.6	16.6	16.6	16.6	16.6
49°	14.9	14.9	14.9	14.9	14.9
50°	13.1	13.1	13.1	13.1	13.1
51°	12.0	12.0	12.0	12.0	12.0
52°	10.8	10.8	10.8	10.8	10.8
53°	9.6	9.6	9.6	9.6	9.6
54°	8.5	8.5	8.5	8.5	8.5
55°	7.3	7.3	7.3	7.3	7.3
56°	6.7	6.7	6.7	6.7	6.7
57°	6.1	6.1	6.1	6.1	6.1
58°	5.8	5.8	5.8	5.8	5.8
59°	5.8	5.8	5.8	5.8	5.8
60°	5.8	5.8	5.8	5.8	5.8
61°	5.3	5.3	5.3	5.3	5.3
62°	4.7	4.7	4.7	4.7	4.7
63°	4.1	4.1	4.1	4.1	4.1
64°	3.5	3.5	3.5	3.5	3.5
65°	2.9	2.9	2.9	2.9	2.9
66°	2.9	2.9	2.9	2.9	2.9
67°	2.9	2.9	2.9	2.9	2.9
68°	2.6	2.6	2.6	2.6	2.6
69°	2.0	2.0	2.0	2.0	2.0
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	6.69	7.60	7.05	7.91	8.22	6.69	7.60	7.05	7.91	8.22
	3H	7.33	8.13	7.72	8.47	8.84	7.33	8.13	7.72	8.47	8.84
	4H	7.60	8.34	8.01	8.69	9.08	7.60	8.34	8.01	8.69	9.08
	6H	7.49	8.16	7.91	8.54	8.93	7.49	8.16	7.91	8.54	8.93
	8H	7.43	8.05	7.86	8.45	8.86	7.43	8.05	7.86	8.45	8.86
	12H	7.36	7.96	7.80	8.35	8.78	7.36	7.96	7.80	8.35	8.78
4H	2H	6.78	7.51	7.19	7.87	8.26	6.78	7.51	7.19	7.87	8.26
	3H	7.51	8.11	7.92	8.52	8.92	7.51	8.11	7.92	8.52	8.92
	4H	7.88	8.42	8.32	8.84	9.29	7.88	8.42	8.32	8.84	9.29
	6H	7.77	8.22	8.24	8.67	9.15	7.77	8.22	8.24	8.67	9.15
	8H	7.69	8.11	8.17	8.56	9.04	7.69	8.11	8.17	8.56	9.04
	12H	7.62	7.98	8.11	8.47	8.95	7.62	7.98	8.11	8.47	8.95
8H	4H	7.81	8.23	8.29	8.68	9.16	7.81	8.23	8.29	8.68	9.16
	6H	7.68	8.01	8.19	8.52	9.00	7.68	8.01	8.19	8.52	9.00
	8H	7.61	7.90	8.14	8.42	8.92	7.61	7.90	8.14	8.42	8.92
	12H	7.55	7.80	8.07	8.30	8.88	7.55	7.80	8.07	8.30	8.88
12H	4H	7.74	8.10	8.23	8.59	9.07	7.74	8.10	8.23	8.59	9.07
	6H	7.61	7.90	8.14	8.42	8.92	7.61	7.90	8.14	8.42	8.92
	8H	7.55	7.80	8.07	8.30	8.88	7.55	7.80	8.07	8.30	8.88

END OF REPORT