

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: P981015

Luminaire Tested: PRLX-CYL3-10-930-15L-SP-U-S-X-X-WHTE

Issue Date: 4/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P981015
TEST IS SCALED FROM (FO44196.PSO)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL3-10-930-15L-SP-U-S-X-X-WHTE
Description: PrentaLux 3-INCH CYLINDER, SPOT OPTIC
1500 LUMENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

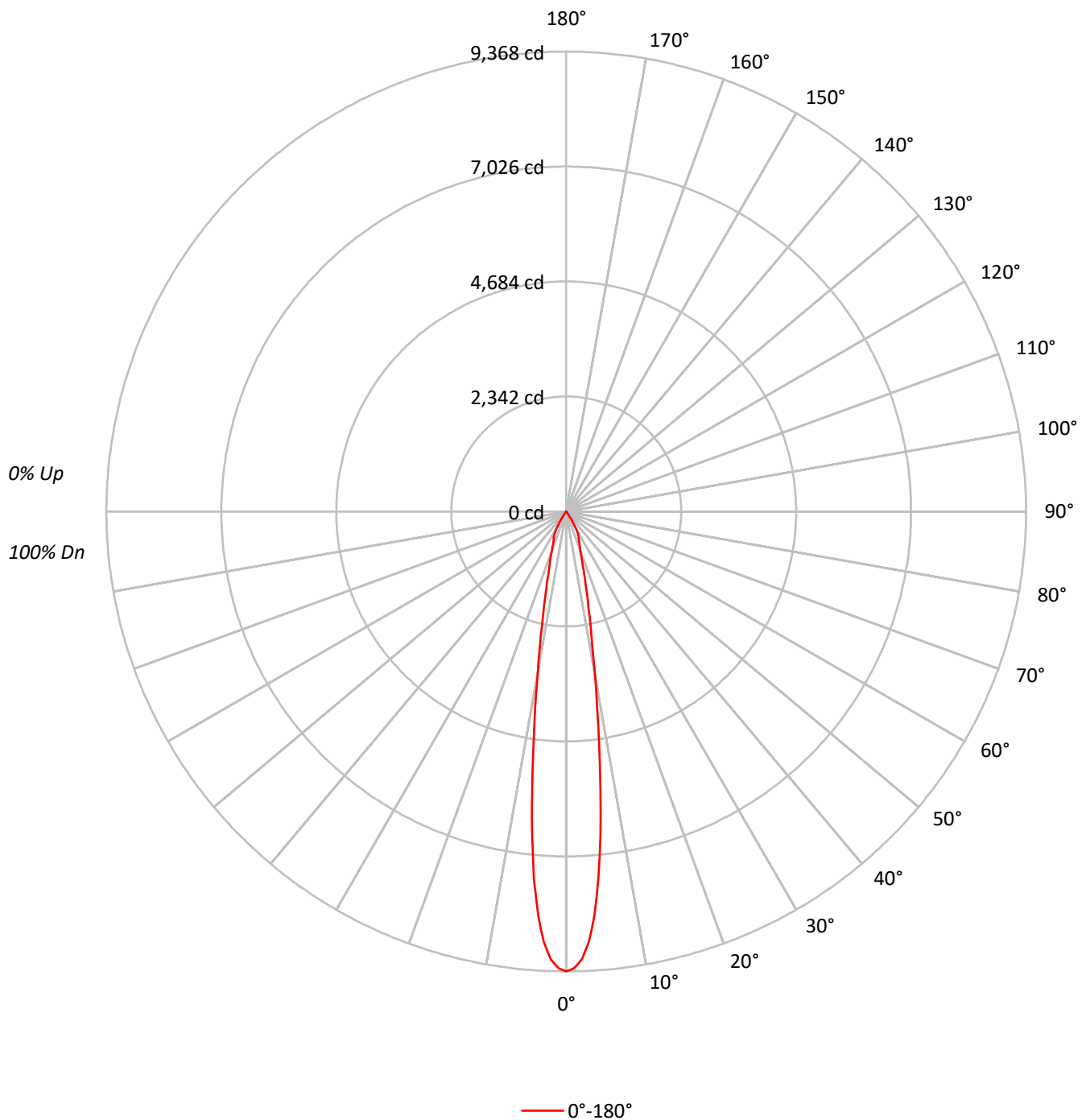
Lumens per Lamp: N/A
Luminaire Lumens: 1369.9 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 0.28 / 0.28 / 0.29
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 13.5
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



TEST NUMBER: P981015

CATALOG NUMBER: PRLX-CYL3-10-930-15L-SP-U-S-X-X-WHITE

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	113	111	109		113	111	109	108		107	106	104		103	102	101		100	99	98
2	111	108	105	102		109	106	103	101		103	101	99		100	98	97		98	96	95
3	108	103	100	97		106	102	99	96		99	97	95		97	95	93		95	93	92
4	105	99	95	92		103	98	95	92		96	93	91		94	92	90		93	91	89
5	102	96	92	89		100	95	91	88		93	90	88		92	89	87		90	88	86
6	99	92	88	85		97	92	88	85		90	87	85		89	86	84		88	86	84
7	96	90	85	83		95	89	85	82		88	84	82		87	84	82		86	83	81
8	93	87	83	80		92	86	83	80		86	82	80		85	82	79		84	81	79
9	91	84	80	78		90	84	80	78		83	80	77		83	79	77		82	79	77
10	89	82	78	76		88	82	78	76		81	78	75		81	77	75		80	77	75

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2054134
5°	1655598
10°	744364
15°	343770
20°	197814
25°	145654
30°	96015
35°	21041
40°	3435
45°	961
50°	546
55°	382
60°	395
65°	415
70°	449
75°	508
80°	631
85°	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 961 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	568.0	41.5
10°-20°	447.2	32.6
20°-30°	274.7	20.1
30°-40°	74.2	5.4
40°-50°	3.1	0.2
50°-60°	1.0	0.1
60°-70°	0.8	0.1
70°-80°	0.6	0.0
80°-90°	0.3	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°	1290.0	94.2
0°-40°	1364.1	99.6
0°-60°	1368.2	99.9
0°-90°	1369.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1369.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9368	
5°	7521	568
15°	1514	447
25°	602	275
35°	79	74
45°	3	3
55°	1	1
65°	1	1
75°	1	1
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	9367.6
1°	9306.4
2°	9124.2
3°	8776.2
4°	8242.2
5°	7521.4
6°	6663.0
7°	5721.6
8°	4819.4
9°	4016.3
10°	3343.0
11°	2802.0
12°	2370.8
13°	2026.7
14°	1745.6
15°	1514.3
16°	1325.9
17°	1170.1
18°	1043.6
19°	935.8
20°	847.7
21°	776.2
22°	718.3
23°	671.3
24°	633.0
25°	602.0
26°	573.8
27°	538.9
28°	494.7
29°	439.9
30°	379.2
31°	315.3
32°	249.9
33°	185.4
34°	127.4
35°	78.6
36°	44.5
37°	26.1
38°	19.8
39°	15.9
40°	12.0
41°	8.7
42°	5.9
43°	4.4
44°	3.6

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CANDELA DISTRIBUTION (continued):

	0°
45°	3.1
46°	2.7
47°	2.3
48°	2.0
49°	1.8
50°	1.6
51°	1.4
52°	1.3
53°	1.2
54°	1.1
55°	1.0
56°	1.0
57°	1.0
58°	0.9
59°	0.9
60°	0.9
61°	0.9
62°	0.9
63°	0.9
64°	0.9
65°	0.8
66°	0.8
67°	0.8
68°	0.8
69°	0.8
70°	0.7
71°	0.7
72°	0.7
73°	0.7
74°	0.6
75°	0.6
76°	0.5
77°	0.5
78°	0.5
79°	0.5
80°	0.5
81°	0.5
82°	0.5
83°	0.4
84°	0.3
85°	0.3
86°	0.1
87°	0.1
88°	0.0
89°	0.0

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CANDELA DISTRIBUTION (continued):

90° | $\frac{0^\circ}{0.0}$

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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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.33
12H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.07

END OF REPORT