

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: P980998

Luminaire Tested: PRLX-CYL3-10-927-10L-MD-U-S-X-X-WHTE

Issue Date: 4/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P980998
TEST IS SCALED FROM (FO44193.PSO)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL3-10-927-10L-MD-U-S-X-X-WHTE
Description: PrentaLux 3-INCH CYLINDER, MEDIUM OPTIC
1000 LUMENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

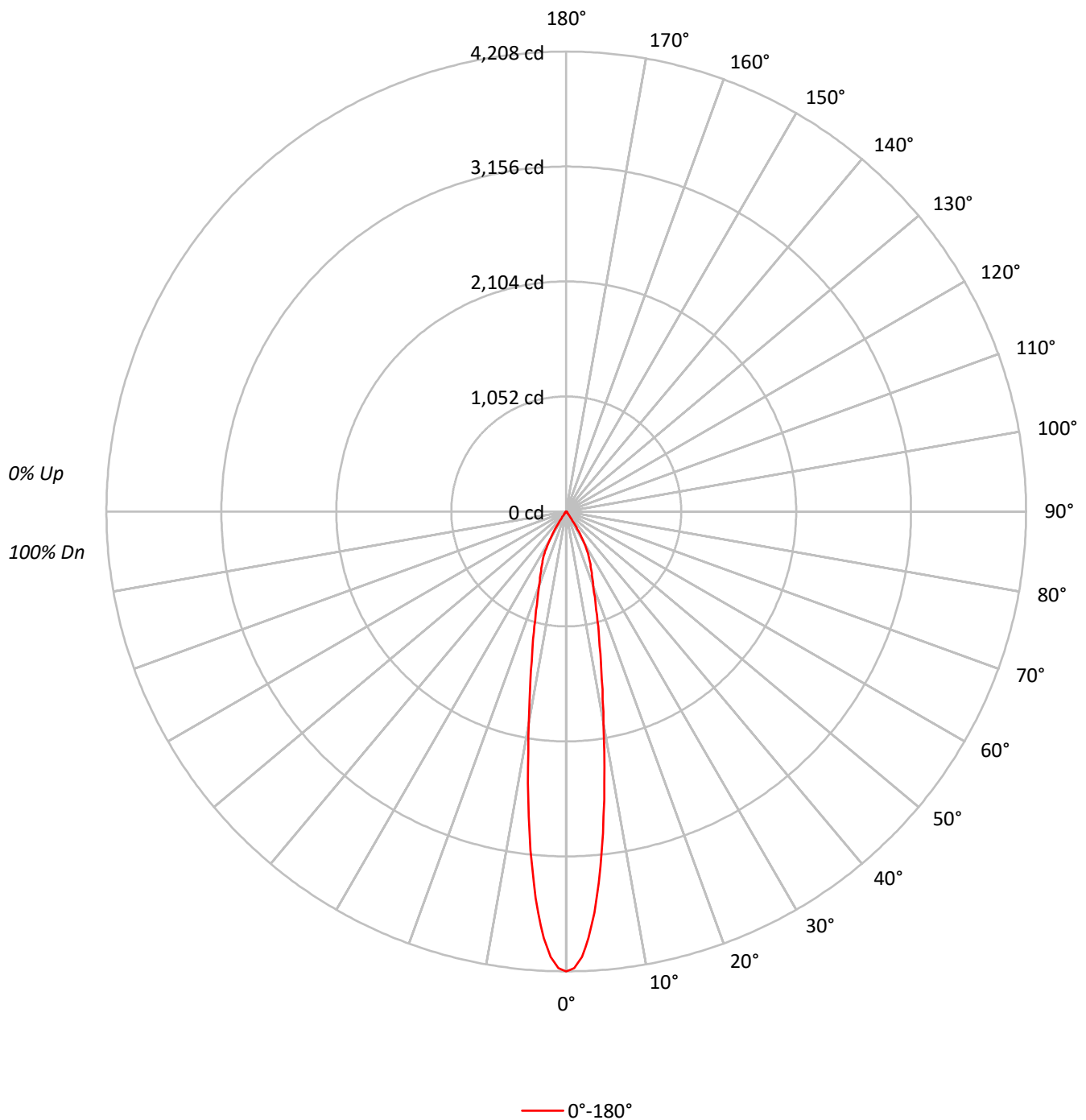
Lumens per Lamp: N/A
Luminaire Lumens: 908.5 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 0.32 / 0.32 / 0.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 9.5
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



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	115	112	110	109	112	110	108	107	106	105	104		103	102	101		96
2	111	107	103	101	108	105	102	100	102	99	97		99	97	95		92
3	107	102	98	95	105	100	97	94	98	95	92		95	93	91		88
4	103	97	93	89	101	96	92	89	94	91	88		92	89	87		85
5	99	93	88	85	98	92	88	85	90	87	84		89	86	83		82
6	96	89	85	81	95	89	84	81	87	83	81		86	83	80		78
7	93	86	81	78	92	85	81	78	84	80	77		83	80	77		76
8	90	83	78	75	89	82	78	75	81	77	75		80	77	74		73
9	87	80	75	72	86	79	75	72	79	75	72		78	74	72		71
10	85	77	73	70	84	77	73	70	76	72	70		75	72	69		68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	922821
5°	750978
10°	438914
15°	259911
20°	169368
25°	125088
30°	76645
35°	19408
40°	6040
45°	1427
50°	648
55°	497
60°	526
65°	623
70°	705
75°	763
80°	1137
85°	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 1427 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.4	30.4
10°-20°	324.9	35.8
20°-30°	234.3	25.8
30°-40°	63.5	7.0
40°-50°	5.5	0.6
50°-60°	1.3	0.1
60°-70°	1.2	0.1
70°-80°	1.0	0.1
80°-90°	0.5	0.1
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°	835.6	92.0
0°-40°	899.1	99.0
0°-60°	905.9	99.7
0°-90°	908.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	908.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4208	
5°	3412	276
15°	1145	325
25°	517	234
35°	72	63
45°	5	5
55°	1	1
65°	1	1
75°	1	1
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	4208.4
1°	4179.0
2°	4080.1
3°	3909.6
4°	3682.1
5°	3411.7
6°	3116.8
7°	2811.3
8°	2507.3
9°	2224.8
10°	1971.2
11°	1753.3
12°	1569.5
13°	1408.8
14°	1267.4
15°	1144.9
16°	1037.7
17°	941.8
18°	855.8
19°	785.5
20°	725.8
21°	676.4
22°	630.3
23°	589.0
24°	551.2
25°	517.0
26°	484.7
27°	449.8
28°	410.6
29°	359.9
30°	302.7
31°	246.0
32°	193.8
33°	146.3
34°	105.0
35°	72.5
36°	50.4
37°	36.6
38°	30.1
39°	25.4
40°	21.1
41°	17.3
42°	13.5
43°	9.4
44°	6.1

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CANDELA DISTRIBUTION (continued):

	0°
45°	4.6
46°	3.6
47°	3.0
48°	2.5
49°	2.1
50°	1.9
51°	1.7
52°	1.6
53°	1.5
54°	1.4
55°	1.3
56°	1.3
57°	1.3
58°	1.2
59°	1.2
60°	1.2
61°	1.2
62°	1.2
63°	1.2
64°	1.2
65°	1.2
66°	1.2
67°	1.2
68°	1.1
69°	1.1
70°	1.1
71°	1.1
72°	1.1
73°	1.0
74°	1.0
75°	0.9
76°	0.9
77°	0.9
78°	0.9
79°	0.9
80°	0.9
81°	0.8
82°	0.8
83°	0.7
84°	0.6
85°	0.5
86°	0.3
87°	0.1
88°	0.0
89°	0.0

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CANDELA DISTRIBUTION (continued):

90° | $\overset{0^\circ}{\text{---}} \underset{0.0}{\text{---}}$

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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	0.08	0.74	0.50	1.12	1.51	0.08	0.74	0.50	1.12	1.51
	8H	0.80	1.41	1.24	1.81	2.22	0.80	1.41	1.24	1.81	2.22
	12H	1.18	1.77	1.61	2.15	2.58	1.18	1.77	1.61	2.15	2.58
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	0.28	0.19	0.70	1.15	0.00	0.28	0.19	0.70	1.15
	6H	1.49	1.93	1.96	2.38	2.86	1.49	1.93	1.96	2.38	2.86
	8H	2.28	2.70	2.76	3.15	3.62	2.28	2.70	2.76	3.15	3.62
	12H	2.79	3.14	3.28	3.63	4.11	2.79	3.14	3.28	3.63	4.11
8H	4H	0.33	0.74	0.80	1.19	1.67	0.33	0.74	0.80	1.19	1.67
	6H	2.32	2.64	2.83	3.14	3.63	2.32	2.64	2.83	3.14	3.63
	8H	3.26	3.55	3.80	4.08	4.57	3.26	3.55	3.80	4.08	4.57
	12H	3.94	4.18	4.46	4.68	5.27	3.94	4.18	4.46	4.68	5.27
12H	4H	0.47	0.82	0.96	1.31	1.79	0.47	0.82	0.96	1.31	1.79
	6H	2.53	2.82	3.07	3.35	3.84	2.53	2.82	3.07	3.35	3.84
	8H	3.57	3.82	4.10	4.32	4.90	3.57	3.82	4.10	4.32	4.90

END OF REPORT