

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P981034

Luminaire Tested: PRLX-CYL3S-10-940-10L-MD-U-S-X-X-WHTE

Issue Date: 4/11/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P981034  
TEST IS SCALED FROM ( FO44193.PSO)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/11/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PentaLux  
Catalog Number: PRLX-CYL3S-10-940-10L-MD-U-S-X-X-WHTE  
Description: PentaLux 3-INCH CYLINDER, MEDIUM OPTIC  
1000 LUMENS  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

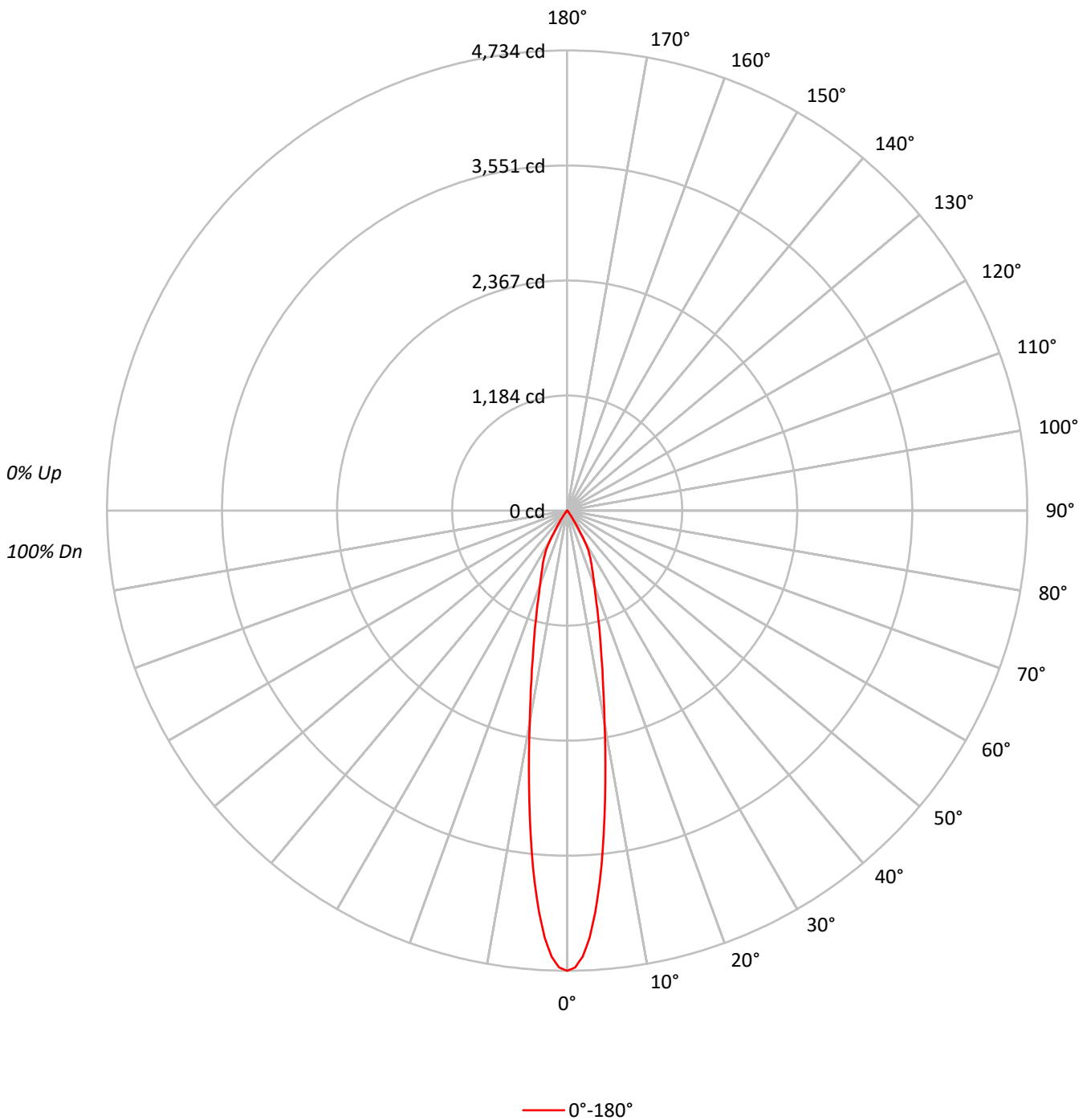
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1022.1 lumens  
Efficiency: N/A  
Efficacy: 107.6 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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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	310.9	30.4
10°-20°	365.5	35.8
20°-30°	263.6	25.8
30°-40°	71.4	7.0
40°-50°	6.2	0.6
50°-60°	1.4	0.1
60°-70°	1.3	0.1
70°-80°	1.2	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°	940.1	92.0
0°-40°	1011.5	99.0
0°-60°	1019.1	99.7
0°-90°	1022.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1022.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4734	
5°	3838	311
15°	1288	366
25°	582	264
35°	82	71
45°	5	6
55°	2	1
65°	1	1
75°	1	1
85°	1	1
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4734.5
1°	4701.4
2°	4590.1
3°	4398.3
4°	4142.3
5°	3838.2
6°	3506.4
7°	3162.7
8°	2820.7
9°	2502.9
10°	2217.6
11°	1972.5
12°	1765.7
13°	1584.9
14°	1425.8
15°	1288.0
16°	1167.4
17°	1059.5
18°	962.7
19°	883.7
20°	816.6
21°	760.9
22°	709.1
23°	662.6
24°	620.0
25°	581.7
26°	545.3
27°	506.0
28°	461.9
29°	404.9
30°	340.5
31°	276.7
32°	218.0
33°	164.6
34°	118.1
35°	81.6
36°	56.7
37°	41.2
38°	33.9
39°	28.6
40°	23.8
41°	19.5
42°	15.2
43°	10.6
44°	6.8

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**CANDELA DISTRIBUTION (continued):**

	0°
45°	5.1
46°	4.1
47°	3.4
48°	2.8
49°	2.4
50°	2.1
51°	1.9
52°	1.8
53°	1.6
54°	1.5
55°	1.5
56°	1.5
57°	1.4
58°	1.4
59°	1.4
60°	1.4
61°	1.3
62°	1.3
63°	1.3
64°	1.3
65°	1.3
66°	1.3
67°	1.3
68°	1.3
69°	1.3
70°	1.2
71°	1.2
72°	1.2
73°	1.2
74°	1.1
75°	1.1
76°	1.1
77°	1.0
78°	1.0
79°	1.0
80°	1.0
81°	0.9
82°	0.9
83°	0.8
84°	0.7
85°	0.6
86°	0.3
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	0.17	0.56	0.00	0.00	0.00	0.17	0.56
	6H	0.55	1.21	0.97	1.59	1.99	0.55	1.21	0.97	1.59	1.99
	8H	1.26	1.88	1.70	2.27	2.68	1.26	1.88	1.70	2.27	2.68
	12H	1.67	2.26	2.10	2.64	3.07	1.67	2.26	2.10	2.64	3.07
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	0.16	0.00	0.00	0.00	0.00	0.16
	4H	0.30	0.82	0.74	1.25	1.70	0.30	0.82	0.74	1.25	1.70
	6H	1.94	2.39	2.42	2.84	3.32	1.94	2.39	2.42	2.84	3.32
	8H	2.73	3.15	3.21	3.60	4.07	2.73	3.15	3.21	3.60	4.07
	12H	3.27	3.63	3.77	4.12	4.60	3.27	3.63	3.77	4.12	4.60
8H	4H	0.84	1.26	1.32	1.71	2.18	0.84	1.26	1.32	1.71	2.18
	6H	2.75	3.07	3.26	3.58	4.07	2.75	3.07	3.26	3.58	4.07
	8H	3.70	3.99	4.24	4.51	5.01	3.70	3.99	4.24	4.51	5.01
	12H	4.42	4.67	4.95	5.17	5.75	4.42	4.67	4.95	5.17	5.75
12H	4H	0.97	1.33	1.46	1.82	2.29	0.97	1.33	1.46	1.82	2.29
	6H	2.96	3.25	3.50	3.78	4.27	2.96	3.25	3.50	3.78	4.27
	8H	4.01	4.25	4.54	4.75	5.34	4.01	4.25	4.54	4.75	5.34