

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: P980998

Luminaire Tested: PRLX-CYL3S-10-927-10L-MD-U-S-X-X-WHTE

Issue Date: 4/11/2025

**Test Information**

Test Method: LM-79-2024  
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: PentaLux  
Catalog Number: PRLX-CYL3S-10-927-10L-MD-U-S-X-X-WHTE  
Description: PentaLux 3-INCH CYLINDER, MEDIUM OPTIC  
1000 LUMENS  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

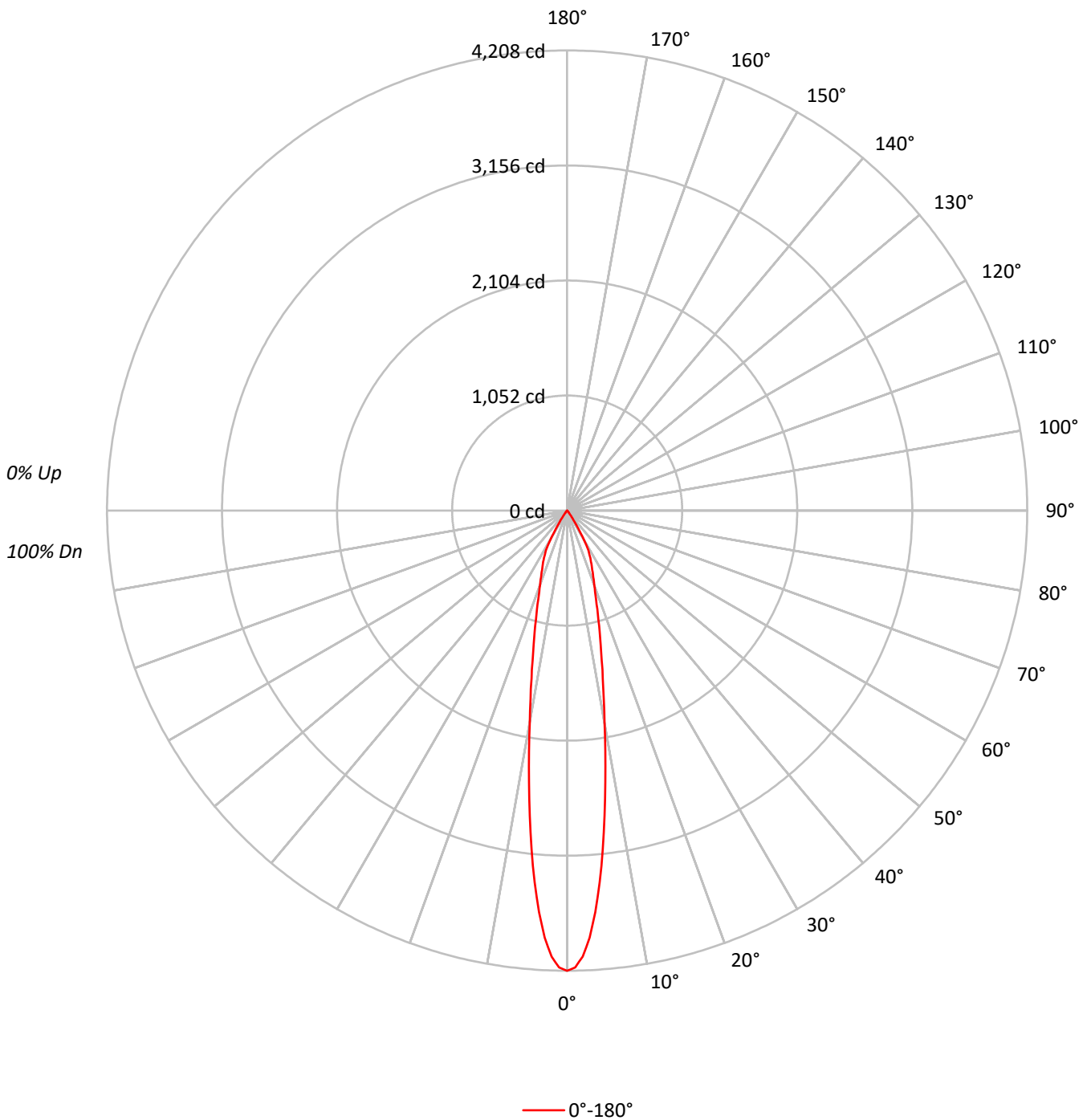
Lumens per Lamp: N/A  
Luminaire Lumens: 908.5 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Spacing Criteria (0/90/45): 0.32 / 0.32 / 0.37  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P980998

CATALOG NUMBER: PRLX-CYL3S-10-927-10L-MD-U-S-X-X-WHTE

### Luminous Intensity Polar Plot





TEST NUMBER: P980998

CATALOG NUMBER: PRLX-CYL3S-10-927-10L-MD-U-S-X-X-WHTE

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	115	112	110	109	112	110	108	107	106	105	104	103	102	101	99	98	98	96
2	111	107	103	101	108	105	102	100	102	99	97	99	97	95	96	95	93	92
3	107	102	98	95	105	100	97	94	98	95	92	95	93	91	93	91	90	88
4	103	97	93	89	101	96	92	89	94	91	88	92	89	87	90	88	86	85
5	99	93	88	85	98	92	88	85	90	87	84	89	86	83	87	85	83	82
6	96	89	85	81	95	89	84	81	87	83	81	86	83	80	85	82	80	78
7	93	86	81	78	92	85	81	78	84	80	77	83	80	77	82	79	77	76
8	90	83	78	75	89	82	78	75	81	77	75	80	77	74	80	76	74	73
9	87	80	75	72	86	79	75	72	79	75	72	78	74	72	77	74	72	71
10	85	77	73	70	84	77	73	70	76	72	70	75	72	69	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

TEST NUMBER: P980998

CATALOG NUMBER: PRLX-CYL3S-10-927-10L-MD-U-S-X-X-WHTE

**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	

TEST NUMBER: P980998

CATALOG NUMBER: PRLX-CYL3S-10-927-10L-MD-U-S-X-X-WHTE

**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

TEST NUMBER: P980998

CATALOG NUMBER: PRLX-CYL3S-10-927-10L-MD-U-S-X-X-WHTE

**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



TEST NUMBER: P980998

CATALOG NUMBER: PRLX-CYL3S-10-927-10L-MD-U-S-X-X-WHTE

CANDELA DISTRIBUTION (continued):

90° |  $\frac{0^\circ}{0.0}$



TEST NUMBER: P980998  
 CATALOG NUMBER: PRLX-CYL3S-10-927-10L-MD-U-S-X-X-WHTE

**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