

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: P981036

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

Issue Date: 4/11/2025

Test Information

Test Method: LM-79-2024
Report Number: P981036
TEST IS SCALED FROM (FO44195.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-WD-U-S-X-X-WHTE
Description: PentaLux 3-INCH CYLINDER, WIDE FLOOD OPTIC
1000 LUMENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

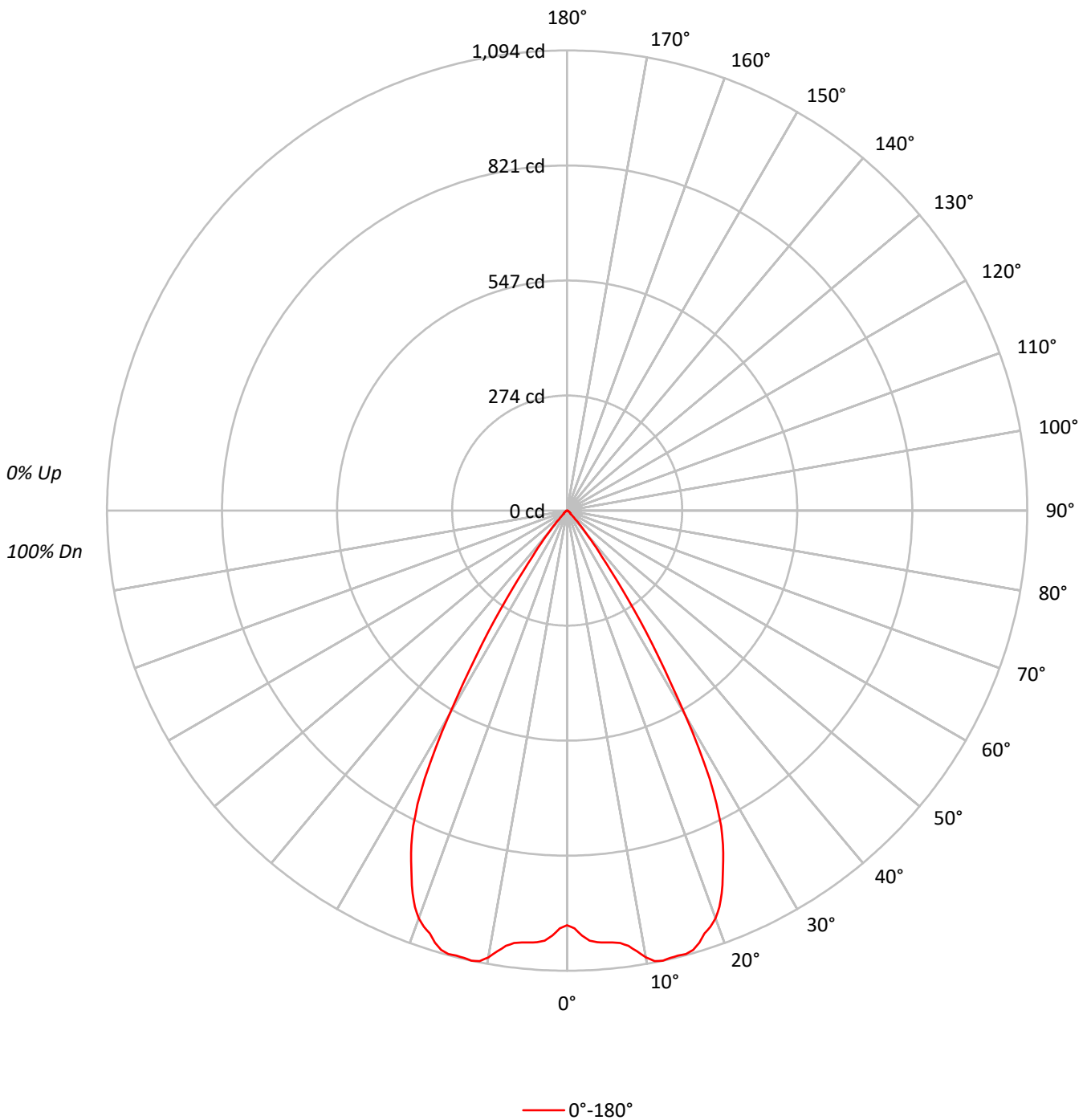
Lumens per Lamp: N/A
Luminaire Lumens: 977.4 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.07 / 1.07 / 0.89
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	82
4	98	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	70	68
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64
8	81	72	67	63	80	72	66	62	71	66	62	70	65	62	69	65	62	60
9	78	68	63	59	77	68	63	59	67	62	59	66	62	58	65	61	58	57
10	74	65	59	56	73	64	59	56	64	59	55	63	58	55	62	58	55	54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	216189
5°	226920
10°	240143
15°	247720
20°	240728
25°	212165
30°	142250
35°	60258
40°	20009
45°	5117
50°	3241
55°	2600
60°	2017
65°	1505
70°	1218
75°	1271
80°	1642
85°	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5117 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.4	10.2
10°-20°	304.7	31.2
20°-30°	387.4	39.6
30°-40°	155.0	15.9
40°-50°	19.3	2.0
50°-60°	6.3	0.6
60°-70°	3.0	0.3
70°-80°	1.6	0.2
80°-90°	0.7	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°	791.5	81.0
0°-40°	946.5	96.8
0°-60°	972.1	99.5
0°-90°	977.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	977.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	986	
5°	1031	99
15°	1091	305
25°	877	387
35°	225	155
45°	16	19
55°	7	6
65°	3	3
75°	2	2
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	985.9
1°	993.2
2°	1010.9
3°	1023.9
4°	1028.6
5°	1030.9
6°	1032.7
7°	1036.0
8°	1045.1
9°	1060.7
10°	1078.5
11°	1091.2
12°	1094.0
13°	1091.2
14°	1090.6
15°	1091.2
16°	1086.6
17°	1074.1
18°	1057.3
19°	1046.7
20°	1031.6
21°	1009.4
22°	981.4
23°	947.2
24°	912.1
25°	876.9
26°	834.9
27°	783.0
28°	721.5
29°	644.6
30°	561.8
31°	480.3
32°	407.2
33°	343.3
34°	283.7
35°	225.1
36°	175.1
37°	137.9
38°	111.2
39°	89.5
40°	69.9
41°	55.0
42°	43.6
43°	33.3
44°	23.3

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CANDELA DISTRIBUTION (continued):

	0°
45°	16.5
46°	13.3
47°	12.0
48°	11.0
49°	10.2
50°	9.5
51°	8.7
52°	8.0
53°	7.4
54°	7.0
55°	6.8
56°	6.8
57°	6.6
58°	6.2
59°	5.6
60°	4.6
61°	3.7
62°	3.4
63°	3.3
64°	3.1
65°	2.9
66°	2.8
67°	2.7
68°	2.6
69°	2.2
70°	1.9
71°	1.6
72°	1.6
73°	1.5
74°	1.5
75°	1.5
76°	1.5
77°	1.5
78°	1.4
79°	1.4
80°	1.3
81°	1.2
82°	1.2
83°	1.1
84°	0.9
85°	0.7
86°	0.4
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	5.16	6.08	5.52	6.39	6.70	5.16	6.08	5.52	6.39	6.70
	3H	5.77	6.58	6.16	6.92	7.29	5.77	6.58	6.16	6.92	7.29
	4H	6.00	6.74	6.40	7.10	7.49	6.00	6.74	6.40	7.10	7.49
	6H	6.39	7.07	6.81	7.45	7.84	6.39	7.07	6.81	7.45	7.84
	8H	6.62	7.26	7.05	7.65	8.06	6.62	7.26	7.05	7.65	8.06
	12H	6.73	7.34	7.17	7.72	8.16	6.73	7.34	7.17	7.72	8.16
4H	2H	5.18	5.92	5.58	6.28	6.67	5.18	5.92	5.58	6.28	6.67
	3H	5.90	6.51	6.31	6.92	7.32	5.90	6.51	6.31	6.92	7.32
	4H	6.26	6.80	6.70	7.23	7.68	6.26	6.80	6.70	7.23	7.68
	6H	6.87	7.33	7.34	7.79	8.26	6.87	7.33	7.34	7.79	8.26
	8H	7.21	7.65	7.69	8.10	8.57	7.21	7.65	7.69	8.10	8.57
	12H	7.44	7.81	7.94	8.30	8.78	7.44	7.81	7.94	8.30	8.78
8H	4H	6.37	6.80	6.85	7.25	7.73	6.37	6.80	6.85	7.25	7.73
	6H	7.19	7.53	7.70	8.03	8.52	7.19	7.53	7.70	8.03	8.52
	8H	7.69	7.99	8.23	8.51	9.01	7.69	7.99	8.23	8.51	9.01
	12H	8.07	8.32	8.59	8.82	9.40	8.07	8.32	8.59	8.82	9.40
12H	4H	6.38	6.75	6.87	7.24	7.71	6.38	6.75	6.87	7.24	7.71
	6H	7.27	7.57	7.80	8.09	8.59	7.27	7.57	7.80	8.09	8.59
	8H	7.86	8.11	8.38	8.61	9.19	7.86	8.11	8.38	8.61	9.19