

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: P981000

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

Issue Date: 4/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P981000
TEST IS SCALED FROM (FO44195.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-WD-U-S-X-X-WHTE
Description: PrentaLux 3-INCH CYLINDER, WIDE FLOOD OPTIC
1000 LUMENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

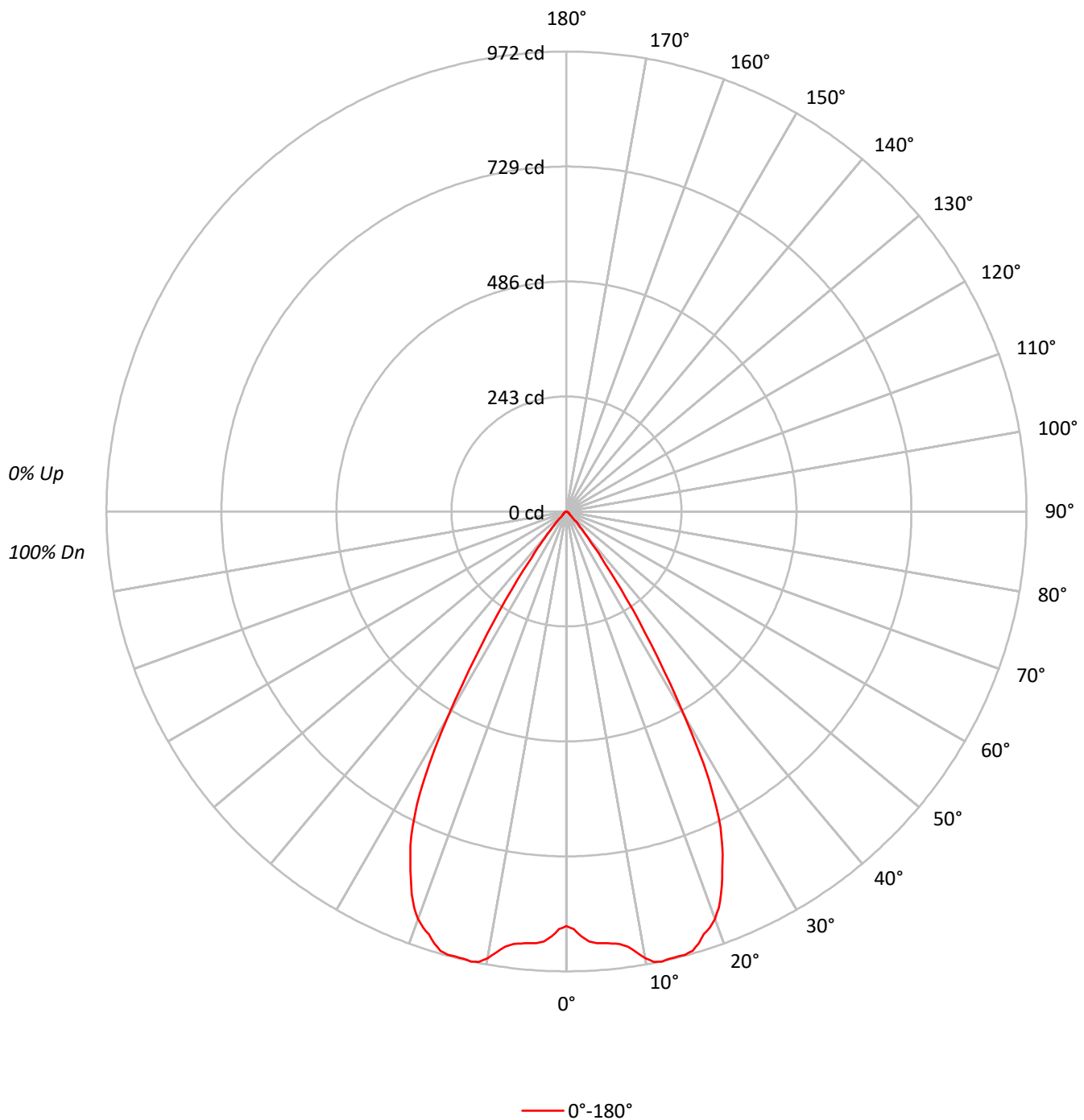
Lumens per Lamp: N/A
Luminaire Lumens: 868.7 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 1.07 / 1.07 / 0.89
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	192156
5°	201694
10°	213445
15°	220183
20°	213985
25°	188575
30°	126450
35°	53565
40°	17776
45°	4528
50°	2866
55°	2332
60°	1798
65°	1349
70°	1090
75°	1101
80°	1389
85°	1510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4528 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	10.2
10°-20°	270.9	31.2
20°-30°	344.3	39.6
30°-40°	137.8	15.9
40°-50°	17.2	2.0
50°-60°	5.6	0.6
60°-70°	2.6	0.3
70°-80°	1.4	0.2
80°-90°	0.6	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°	703.6	81.0
0°-40°	841.4	96.8
0°-60°	864.1	99.5
0°-90°	868.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	868.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	876	
5°	916	88
15°	970	271
25°	779	344
35°	200	138
45°	15	17
55°	6	6
65°	3	3
75°	1	1
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	876.3
1°	882.8
2°	898.5
3°	910.1
4°	914.3
5°	916.3
6°	918.0
7°	920.9
8°	929.0
9°	942.8
10°	958.6
11°	970.0
12°	972.5
13°	970.0
14°	969.4
15°	969.9
16°	965.9
17°	954.7
18°	939.8
19°	930.4
20°	917.0
21°	897.2
22°	872.4
23°	841.9
24°	810.7
25°	779.4
26°	742.2
27°	696.0
28°	641.4
29°	573.0
30°	499.4
31°	426.9
32°	362.0
33°	305.2
34°	252.2
35°	200.1
36°	155.7
37°	122.6
38°	98.8
39°	79.5
40°	62.1
41°	48.9
42°	38.7
43°	29.6
44°	20.7

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CANDELA DISTRIBUTION (continued):

	0°
45°	14.6
46°	11.8
47°	10.7
48°	9.8
49°	9.1
50°	8.4
51°	7.8
52°	7.1
53°	6.6
54°	6.2
55°	6.1
56°	6.0
57°	5.8
58°	5.5
59°	5.0
60°	4.1
61°	3.3
62°	3.0
63°	3.0
64°	2.8
65°	2.6
66°	2.5
67°	2.4
68°	2.3
69°	2.0
70°	1.7
71°	1.5
72°	1.4
73°	1.3
74°	1.3
75°	1.3
76°	1.3
77°	1.3
78°	1.3
79°	1.2
80°	1.1
81°	1.1
82°	1.0
83°	0.9
84°	0.8
85°	0.6
86°	0.4
87°	0.1
88°	0.0
89°	0.0



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CANDELA DISTRIBUTION (continued):



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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	4.71	5.63	5.08	5.94	6.26	4.71	5.63	5.08	5.94	6.26
	3H	5.35	6.16	5.74	6.50	6.87	5.35	6.16	5.74	6.50	6.87
	4H	5.56	6.31	5.97	6.66	7.05	5.56	6.31	5.97	6.66	7.05
	6H	5.94	6.63	6.36	7.00	7.40	5.94	6.63	6.36	7.00	7.40
	8H	6.16	6.80	6.60	7.19	7.60	6.16	6.80	6.60	7.19	7.60
	12H	6.26	6.87	6.70	7.25	7.69	6.26	6.87	6.70	7.25	7.69
4H	2H	4.74	5.49	5.15	5.84	6.23	4.74	5.49	5.15	5.84	6.23
	3H	5.50	6.11	5.92	6.52	6.93	5.50	6.11	5.92	6.52	6.93
	4H	5.84	6.38	6.28	6.81	7.26	5.84	6.38	6.28	6.81	7.26
	6H	6.44	6.91	6.92	7.36	7.83	6.44	6.91	6.92	7.36	7.83
	8H	6.76	7.19	7.24	7.64	8.12	6.76	7.19	7.24	7.64	8.12
	12H	6.98	7.34	7.47	7.83	8.31	6.98	7.34	7.47	7.83	8.31
8H	4H	5.94	6.37	6.42	6.82	7.30	5.94	6.37	6.42	6.82	7.30
	6H	6.75	7.08	7.26	7.59	8.07	6.75	7.08	7.26	7.59	8.07
	8H	7.20	7.50	7.74	8.03	8.53	7.20	7.50	7.74	8.03	8.53
	12H	7.57	7.82	8.09	8.32	8.90	7.57	7.82	8.09	8.32	8.90
12H	4H	5.95	6.31	6.44	6.80	7.28	5.95	6.31	6.44	6.80	7.28
	6H	6.82	7.12	7.35	7.64	8.14	6.82	7.12	7.35	7.64	8.14
	8H	7.36	7.61	7.88	8.11	8.69	7.36	7.61	7.88	8.11	8.69