

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: P981008

Luminaire Tested: PRLX-CYL3-10-927-23L-WD-U-S-X-X-WHTE

Issue Date: 4/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P981008
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-CYL3-10-927-23L-WD-U-S-X-X-WHTE
Description: PrentaLux 3-INCH CYLINDER, WIDE FLOOD OPTIC
2300 LUMENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

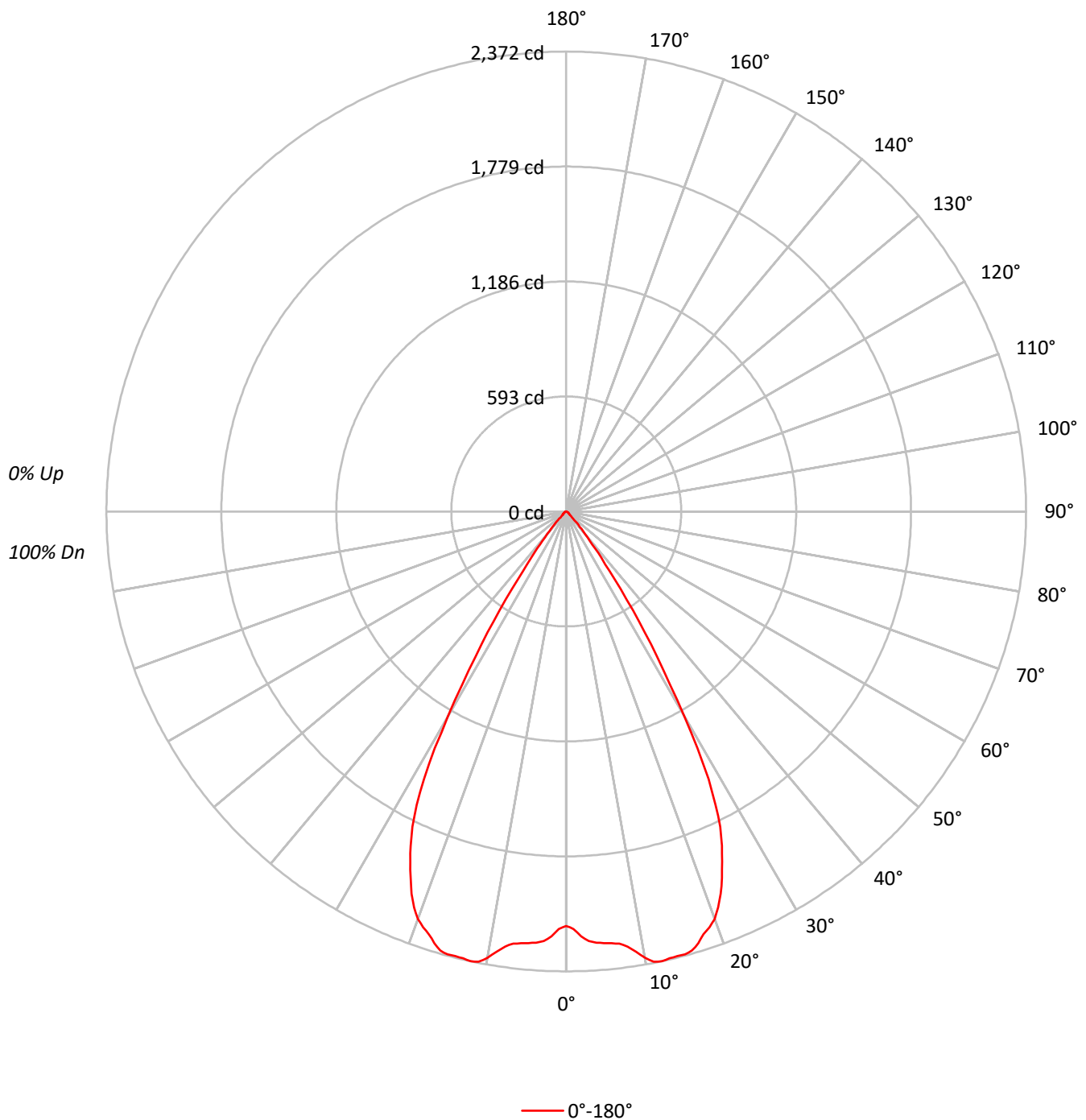
Lumens per Lamp: N/A
Luminaire Lumens: 2118.9 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Spacing Criteria (0/90/45): 1.07 / 1.07 / 0.89
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 22.5
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°	468691
5°	491964
10°	520632
15°	537052
20°	521919
25°	459970
30°	308402
35°	130661
40°	43367
45°	11071
50°	6993
55°	5658
60°	4342
65°	3217
70°	2565
75°	2711
80°	3536
85°	3774

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 11071 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.6	10.2
10°-20°	660.7	31.2
20°-30°	839.9	39.6
30°-40°	336.0	15.9
40°-50°	41.9	2.0
50°-60°	13.6	0.6
60°-70°	6.4	0.3
70°-80°	3.5	0.2
80°-90°	1.5	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°	1716.1	81.0
0°-40°	2052.1	96.8
0°-60°	2107.6	99.5
0°-90°	2118.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2118.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2137	
5°	2235	216
15°	2366	661
25°	1901	840
35°	488	336
45°	36	42
55°	15	14
65°	6	6
75°	3	3
85°	2	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2137.4
1°	2153.2
2°	2191.6
3°	2219.8
4°	2230.0
5°	2235.0
6°	2239.0
7°	2246.1
8°	2265.8
9°	2299.6
10°	2338.2
11°	2365.8
12°	2371.9
13°	2365.8
14°	2364.5
15°	2365.7
16°	2355.8
17°	2328.6
18°	2292.2
19°	2269.3
20°	2236.6
21°	2188.3
22°	2127.7
23°	2053.5
24°	1977.4
25°	1901.1
26°	1810.2
27°	1697.6
28°	1564.3
29°	1397.5
30°	1218.0
31°	1041.3
32°	882.9
33°	744.3
34°	615.1
35°	488.1
36°	379.7
37°	298.9
38°	241.1
39°	194.0
40°	151.5
41°	119.2
42°	94.5
43°	72.1
44°	50.6

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CANDELA DISTRIBUTION (continued):

	0°
45°	35.7
46°	28.8
47°	26.0
48°	23.9
49°	22.2
50°	20.5
51°	18.9
52°	17.4
53°	16.1
54°	15.1
55°	14.8
56°	14.7
57°	14.2
58°	13.4
59°	12.2
60°	9.9
61°	8.0
62°	7.3
63°	7.2
64°	6.8
65°	6.2
66°	6.0
67°	5.9
68°	5.6
69°	4.8
70°	4.0
71°	3.6
72°	3.5
73°	3.3
74°	3.3
75°	3.2
76°	3.2
77°	3.2
78°	3.1
79°	3.0
80°	2.8
81°	2.7
82°	2.5
83°	2.3
84°	1.9
85°	1.5
86°	0.9
87°	0.3
88°	0.1
89°	0.1

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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	7.81	8.73	8.18	9.05	9.36	7.81	8.73	8.18	9.05	9.36
	3H	8.44	9.25	8.82	9.58	9.95	8.44	9.25	8.82	9.58	9.95
	4H	8.67	9.42	9.08	9.77	10.16	8.67	9.42	9.08	9.77	10.16
	6H	9.06	9.74	9.48	10.12	10.52	9.06	9.74	9.48	10.12	10.52
	8H	9.29	9.92	9.72	10.32	10.73	9.29	9.92	9.72	10.32	10.73
	12H	9.39	10.00	9.83	10.39	10.82	9.39	10.00	9.83	10.39	10.82
4H	2H	7.83	8.58	8.24	8.93	9.32	7.83	8.58	8.24	8.93	9.32
	3H	8.57	9.18	8.99	9.59	10.00	8.57	9.18	8.99	9.59	10.00
	4H	8.94	9.48	9.38	9.91	10.36	8.94	9.48	9.38	9.91	10.36
	6H	9.55	10.02	10.03	10.47	10.94	9.55	10.02	10.03	10.47	10.94
	8H	9.89	10.32	10.37	10.77	11.25	9.89	10.32	10.37	10.77	11.25
	12H	10.11	10.47	10.60	10.96	11.44	10.11	10.47	10.60	10.96	11.44
8H	4H	9.04	9.47	9.52	9.93	10.40	9.04	9.47	9.52	9.93	10.40
	6H	9.87	10.21	10.38	10.71	11.20	9.87	10.21	10.38	10.71	11.20
	8H	10.35	10.65	10.89	11.18	11.67	10.35	10.65	10.89	11.18	11.67
	12H	10.71	10.97	11.24	11.47	12.05	10.71	10.97	11.24	11.47	12.05
12H	4H	9.05	9.42	9.55	9.91	10.39	9.05	9.42	9.55	9.91	10.39
	6H	9.95	10.25	10.48	10.77	11.27	9.95	10.25	10.48	10.77	11.27
	8H	10.51	10.77	11.04	11.27	11.85	10.51	10.77	11.04	11.27	11.85

END OF REPORT