

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: P981005

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

Issue Date: 4/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P981005
TEST IS SCALED FROM (FO44194.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-FL-U-S-X-X-WHTE
Description: PrentaLux 3-INCH CYLINDER, FLOOD OPTIC
2300 LUMENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

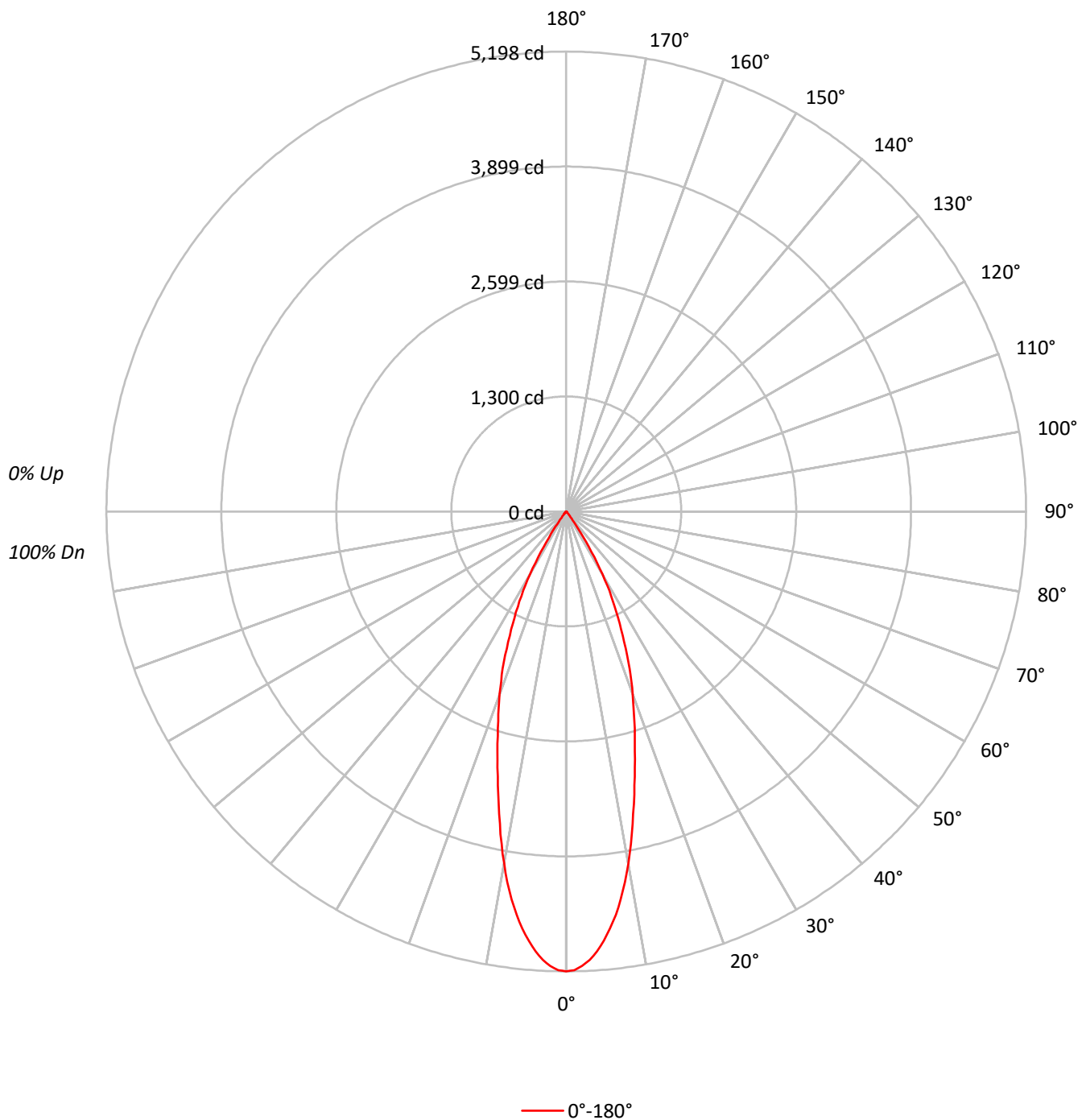
Lumens per Lamp: N/A
Luminaire Lumens: 2142.2 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 0.56 / 0.56 / 0.62
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92
3	106	100	96	93	104	99	95	92	96	93	91	94	91	89	92	90	88
4	101	95	91	87	100	94	90	87	92	88	86	90	87	85	88	86	84
5	98	91	86	82	96	90	85	82	88	84	81	87	83	81	85	82	80
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76
7	90	83	78	74	89	82	77	74	81	77	74	80	76	73	79	76	73
8	87	79	74	71	86	79	74	71	78	74	71	77	73	70	76	73	70
9	84	76	71	68	83	76	71	68	75	70	68	74	70	67	73	70	67
10	81	73	68	65	80	73	68	65	72	68	65	71	67	65	71	67	64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1139909
5°	1072086
10°	900540
15°	680594
20°	513028
25°	355980
30°	207222
35°	56778
40°	13168
45°	4155
50°	2559
55°	1797
60°	1403
65°	1245
70°	1282
75°	1440
80°	1768
85°	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4155 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.6	20.5
10°-20°	834.8	39.0
20°-30°	670.3	31.3
30°-40°	175.3	8.2
40°-50°	13.9	0.6
50°-60°	4.3	0.2
60°-70°	2.5	0.1
70°-80°	1.8	0.1
80°-90°	0.8	0.0
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°	1943.6	90.7
0°-40°	2118.9	98.9
0°-60°	2137.1	99.8
0°-90°	2142.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2142.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5198	
5°	4870	439
15°	2998	835
25°	1471	670
35°	212	175
45°	13	14
55°	5	4
65°	2	2
75°	2	2
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5198.4
1°	5183.9
2°	5141.3
3°	5074.6
4°	4982.4
5°	4870.5
6°	4741.0
7°	4592.7
8°	4427.3
9°	4245.1
10°	4044.4
11°	3831.2
12°	3611.0
13°	3393.5
14°	3190.5
15°	2998.0
16°	2819.8
17°	2649.8
18°	2491.4
19°	2341.7
20°	2198.5
21°	2055.7
22°	1916.7
23°	1762.0
24°	1613.3
25°	1471.3
26°	1336.3
27°	1204.9
28°	1082.5
29°	956.4
30°	818.4
31°	675.9
32°	539.0
33°	413.5
34°	303.1
35°	212.1
36°	146.2
37°	99.4
38°	71.7
39°	57.2
40°	46.0
41°	36.5
42°	28.8
43°	22.1
44°	17.1

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CANDELA DISTRIBUTION (continued):

	0°
45°	13.4
46°	11.8
47°	10.5
48°	9.3
49°	8.4
50°	7.5
51°	6.7
52°	6.1
53°	5.6
54°	5.1
55°	4.7
56°	4.3
57°	3.9
58°	3.6
59°	3.4
60°	3.2
61°	3.0
62°	2.9
63°	2.7
64°	2.5
65°	2.4
66°	2.3
67°	2.2
68°	2.1
69°	2.1
70°	2.0
71°	1.9
72°	1.9
73°	1.9
74°	1.8
75°	1.7
76°	1.7
77°	1.6
78°	1.5
79°	1.5
80°	1.4
81°	1.3
82°	1.3
83°	1.2
84°	1.0
85°	0.8
86°	0.4
87°	0.2
88°	0.1
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	0.25	0.00	0.00	0.00	0.00	0.25
	3H	0.19	0.97	0.58	1.31	1.68	0.19	0.97	0.58	1.31	1.68
	4H	1.05	1.78	1.46	2.13	2.52	1.05	1.78	1.46	2.13	2.52
	6H	1.96	2.62	2.39	3.00	3.40	1.96	2.62	2.39	3.00	3.40
	8H	2.44	3.06	2.88	3.45	3.86	2.44	3.06	2.88	3.45	3.86
	12H	2.70	3.29	3.14	3.68	4.11	2.70	3.29	3.14	3.68	4.11
4H	2H	0.00	0.00	0.00	0.12	0.51	0.00	0.00	0.00	0.12	0.51
	3H	0.81	1.40	1.22	1.81	2.21	0.81	1.40	1.22	1.81	2.21
	4H	1.87	2.40	2.31	2.82	3.27	1.87	2.40	2.31	2.82	3.27
	6H	3.01	3.45	3.48	3.91	4.38	3.01	3.45	3.48	3.91	4.38
	8H	3.59	4.01	4.07	4.46	4.94	3.59	4.01	4.07	4.46	4.94
	12H	3.99	4.35	4.49	4.84	5.32	3.99	4.35	4.49	4.84	5.32
8H	4H	2.25	2.67	2.73	3.12	3.60	2.25	2.67	2.73	3.12	3.60
	6H	3.63	3.95	4.14	4.46	4.95	3.63	3.95	4.14	4.46	4.95
	8H	4.39	4.68	4.93	5.20	5.70	4.39	4.68	4.93	5.20	5.70
	12H	4.95	5.20	5.48	5.70	6.28	4.95	5.20	5.48	5.70	6.28
12H	4H	2.32	2.67	2.81	3.16	3.64	2.32	2.67	2.81	3.16	3.64
	6H	3.78	4.07	4.32	4.59	5.09	3.78	4.07	4.32	4.59	5.09
	8H	4.64	4.88	5.16	5.38	5.97	4.64	4.88	5.16	5.38	5.97

END OF REPORT