

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: P981034

Luminaire Tested: PRLX-CYL3-10-940-10L-MD-U-S-X-X-WHTE

Issue Date: 4/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P981034
TEST IS SCALED FROM (FO44193.PSO)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL3-10-940-10L-MD-U-S-X-X-WHTE
Description: PrentaLux 3-INCH CYLINDER, MEDIUM OPTIC
1000 LUMENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

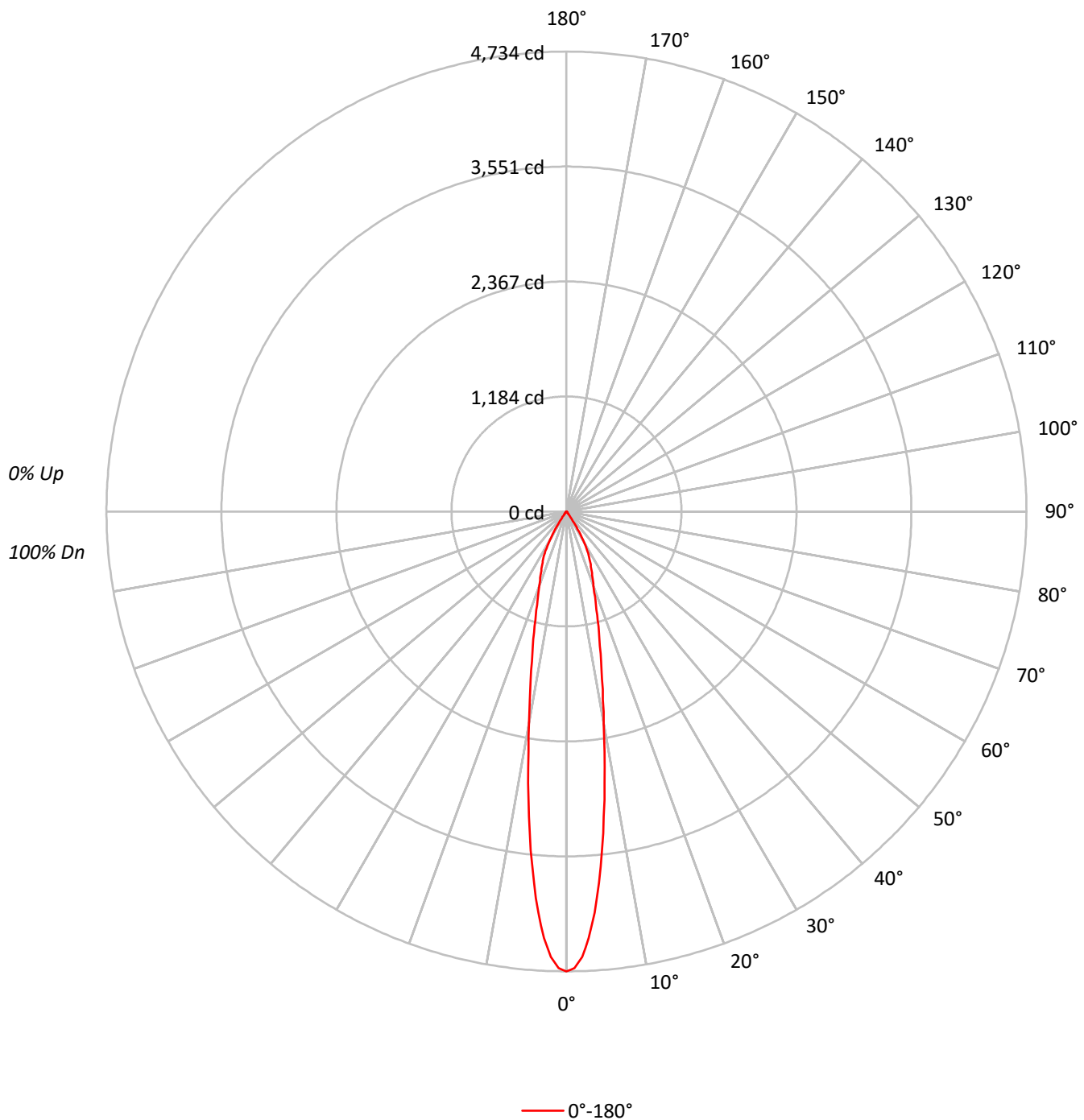
Lumens per Lamp: N/A
Luminaire Lumens: 1022.1 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 0.32 / 0.32 / 0.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

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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	115	112	110	109	112	110	108	107	106	105	104		103	102	101		96
2	111	107	103	101	108	105	102	100	102	99	97		99	97	95		92
3	107	102	98	95	105	100	97	94	98	95	92		95	93	91		88
4	103	97	93	89	101	96	92	89	94	91	88		92	89	87		85
5	99	93	88	85	98	92	88	85	90	87	84		89	86	83		82
6	96	89	85	81	95	89	84	81	87	83	81		86	83	80		78
7	93	86	81	78	92	85	81	78	84	80	78		83	80	77		76
8	90	83	78	75	89	82	78	75	81	77	75		80	77	74		73
9	87	80	75	72	86	79	75	72	79	75	72		78	74	72		71
10	85	77	73	70	84	77	73	70	76	72	70		75	72	69		68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1038184
5°	844858
10°	493778
15°	292397
20°	190557
25°	140742
30°	86216
35°	21844
40°	6813
45°	1582
50°	716
55°	573
60°	614
65°	675
70°	769
75°	932
80°	1263
85°	1510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 1582 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.9	30.4
10°-20°	365.5	35.8
20°-30°	263.6	25.8
30°-40°	71.4	7.0
40°-50°	6.2	0.6
50°-60°	1.4	0.1
60°-70°	1.3	0.1
70°-80°	1.2	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°	940.1	92.0
0°-40°	1011.5	99.0
0°-60°	1019.1	99.7
0°-90°	1022.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1022.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4734	
5°	3838	311
15°	1288	366
25°	582	264
35°	82	71
45°	5	6
55°	2	1
65°	1	1
75°	1	1
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	4734.5
1°	4701.4
2°	4590.1
3°	4398.3
4°	4142.3
5°	3838.2
6°	3506.4
7°	3162.7
8°	2820.7
9°	2502.9
10°	2217.6
11°	1972.5
12°	1765.7
13°	1584.9
14°	1425.8
15°	1288.0
16°	1167.4
17°	1059.5
18°	962.7
19°	883.7
20°	816.6
21°	760.9
22°	709.1
23°	662.6
24°	620.0
25°	581.7
26°	545.3
27°	506.0
28°	461.9
29°	404.9
30°	340.5
31°	276.7
32°	218.0
33°	164.6
34°	118.1
35°	81.6
36°	56.7
37°	41.2
38°	33.9
39°	28.6
40°	23.8
41°	19.5
42°	15.2
43°	10.6
44°	6.8

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CANDELA DISTRIBUTION (continued):

	0°
45°	5.1
46°	4.1
47°	3.4
48°	2.8
49°	2.4
50°	2.1
51°	1.9
52°	1.8
53°	1.6
54°	1.5
55°	1.5
56°	1.5
57°	1.4
58°	1.4
59°	1.4
60°	1.4
61°	1.3
62°	1.3
63°	1.3
64°	1.3
65°	1.3
66°	1.3
67°	1.3
68°	1.3
69°	1.3
70°	1.2
71°	1.2
72°	1.2
73°	1.2
74°	1.1
75°	1.1
76°	1.1
77°	1.0
78°	1.0
79°	1.0
80°	1.0
81°	0.9
82°	0.9
83°	0.8
84°	0.7
85°	0.6
86°	0.3
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	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	0.17	0.56	0.00	0.00	0.00	0.17	0.56
	6H	0.55	1.21	0.97	1.59	1.99	0.55	1.21	0.97	1.59	1.99
	8H	1.26	1.88	1.70	2.27	2.68	1.26	1.88	1.70	2.27	2.68
	12H	1.67	2.26	2.10	2.64	3.07	1.67	2.26	2.10	2.64	3.07
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	0.16	0.00	0.00	0.00	0.00	0.16
	4H	0.30	0.82	0.74	1.25	1.70	0.30	0.82	0.74	1.25	1.70
	6H	1.94	2.39	2.42	2.84	3.32	1.94	2.39	2.42	2.84	3.32
	8H	2.73	3.15	3.21	3.60	4.07	2.73	3.15	3.21	3.60	4.07
	12H	3.27	3.63	3.77	4.12	4.60	3.27	3.63	3.77	4.12	4.60
8H	4H	0.84	1.26	1.32	1.71	2.18	0.84	1.26	1.32	1.71	2.18
	6H	2.75	3.07	3.26	3.58	4.07	2.75	3.07	3.26	3.58	4.07
	8H	3.70	3.99	4.24	4.51	5.01	3.70	3.99	4.24	4.51	5.01
	12H	4.42	4.67	4.95	5.17	5.75	4.42	4.67	4.95	5.17	5.75
12H	4H	0.97	1.33	1.46	1.82	2.29	0.97	1.33	1.46	1.82	2.29
	6H	2.96	3.25	3.50	3.78	4.27	2.96	3.25	3.50	3.78	4.27
	8H	4.01	4.25	4.54	4.75	5.34	4.01	4.25	4.54	4.75	5.34

END OF REPORT