

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: P981033

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

Issue Date: 4/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P981033
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-CYL3-10-940-10L-FL-U-S-X-X-WHTE
Description: PrentaLux 3-INCH CYLINDER, FLOOD OPTIC
1000 LUMENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

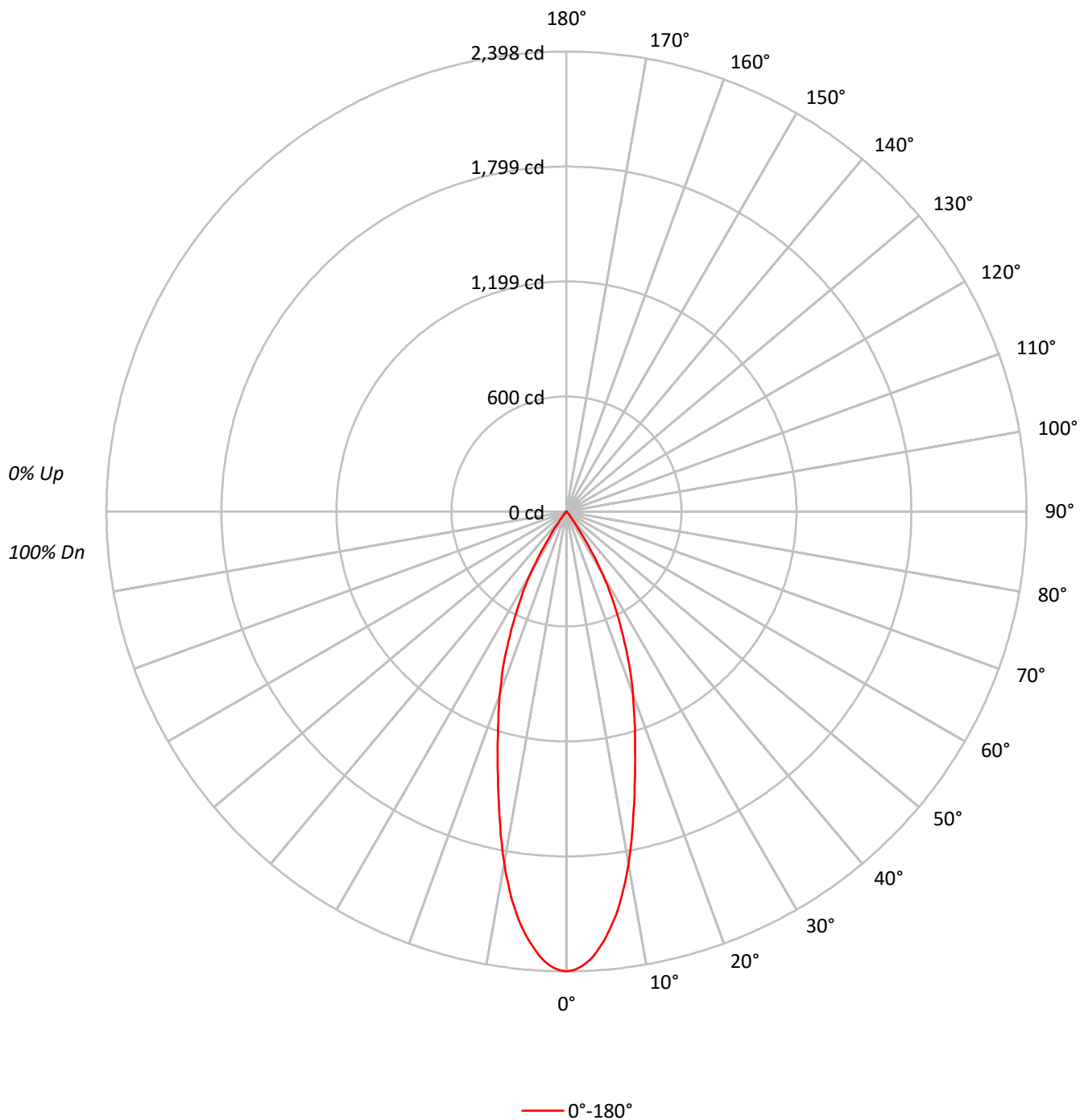
Lumens per Lamp: N/A
Luminaire Lumens: 988.1 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 0.56 / 0.56 / 0.62
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P981033

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	525791
5°	494496
10°	415379
15°	313918
20°	236644
25°	164187
30°	95584
35°	26180
40°	6069
45°	1923
50°	1194
55°	841
60°	658
65°	571
70°	577
75°	678
80°	884
85°	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1923 cd/sqm

TEST NUMBER: P981033

CATALOG NUMBER: PRLX-CYL3-10-940-10L-FL-U-S-X-X-WHTE

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.3	20.5
10°-20°	385.0	39.0
20°-30°	309.2	31.3
30°-40°	80.8	8.2
40°-50°	6.4	0.6
50°-60°	2.0	0.2
60°-70°	1.1	0.1
70°-80°	0.9	0.1
80°-90°	0.3	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°	896.5	90.7
0°-40°	977.3	98.9
0°-60°	985.7	99.8
0°-90°	988.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	988.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2398	
5°	2246	202
15°	1383	385
25°	679	309
35°	98	81
45°	6	6
55°	2	2
65°	1	1
75°	1	1
85°	0	0
90°	0	

TEST NUMBER: P981033

CATALOG NUMBER: PRLX-CYL3-10-940-10L-FL-U-S-X-X-WHTE

CANDELA DISTRIBUTION (FULL):

0°	
0°	2397.8
1°	2391.0
2°	2371.4
3°	2340.7
4°	2298.1
5°	2246.5
6°	2186.8
7°	2118.4
8°	2042.1
9°	1958.0
10°	1865.5
11°	1767.1
12°	1665.6
13°	1565.3
14°	1471.6
15°	1382.8
16°	1300.6
17°	1222.2
18°	1149.2
19°	1080.1
20°	1014.1
21°	948.2
22°	884.1
23°	812.7
24°	744.1
25°	678.6
26°	616.4
27°	555.8
28°	499.3
29°	441.1
30°	377.5
31°	311.8
32°	248.6
33°	190.7
34°	139.8
35°	97.8
36°	67.4
37°	45.8
38°	33.1
39°	26.4
40°	21.2
41°	16.8
42°	13.3
43°	10.2
44°	7.9

TEST NUMBER: P981033

CATALOG NUMBER: PRLX-CYL3-10-940-10L-FL-U-S-X-X-WHTE

CANDELA DISTRIBUTION (continued):

	0°
45°	6.2
46°	5.4
47°	4.8
48°	4.3
49°	3.9
50°	3.5
51°	3.1
52°	2.8
53°	2.6
54°	2.3
55°	2.2
56°	2.0
57°	1.8
58°	1.7
59°	1.5
60°	1.5
61°	1.4
62°	1.3
63°	1.2
64°	1.2
65°	1.1
66°	1.1
67°	1.0
68°	1.0
69°	1.0
70°	0.9
71°	0.9
72°	0.9
73°	0.9
74°	0.8
75°	0.8
76°	0.8
77°	0.8
78°	0.7
79°	0.7
80°	0.7
81°	0.6
82°	0.6
83°	0.5
84°	0.4
85°	0.4
86°	0.2
87°	0.1
88°	0.0
89°	0.0

TEST NUMBER: P981033

CATALOG NUMBER: PRLX-CYL3-10-940-10L-FL-U-S-X-X-WHTE

CANDELA DISTRIBUTION (continued):

90° | $\frac{0^\circ}{0.0}$

TEST NUMBER: P981033

CATALOG NUMBER: PRLX-CYL3-10-940-10L-FL-U-S-X-X-WHTE

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.09	0.00	0.47	0.86	0.00	0.09	0.00	0.47	0.86
	8H	0.00	0.48	0.31	0.88	1.29	0.00	0.48	0.31	0.88	1.29
	12H	0.10	0.68	0.53	1.07	1.50	0.10	0.68	0.53	1.07	1.50
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	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.23	0.68	0.00	0.00	0.00	0.23	0.68
	6H	0.49	0.93	0.96	1.39	1.86	0.49	0.93	0.96	1.39	1.86
	8H	1.02	1.44	1.50	1.89	2.37	1.02	1.44	1.50	1.89	2.37
	12H	1.36	1.72	1.86	2.21	2.69	1.36	1.72	1.86	2.21	2.69
8H	4H	0.00	0.09	0.16	0.55	1.02	0.00	0.09	0.16	0.55	1.02
	6H	1.12	1.44	1.63	1.95	2.44	1.12	1.44	1.63	1.95	2.44
	8H	1.80	2.09	2.34	2.61	3.11	1.80	2.09	2.34	2.61	3.11
	12H	2.30	2.54	2.82	3.04	3.62	2.30	2.54	2.82	3.04	3.62
12H	4H	0.00	0.10	0.24	0.59	1.07	0.00	0.10	0.24	0.59	1.07
	6H	1.26	1.55	1.80	2.08	2.57	1.26	1.55	1.80	2.08	2.57
	8H	2.02	2.27	2.55	2.77	3.35	2.02	2.27	2.55	2.77	3.35

END OF REPORT