

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: P981037

Luminaire Tested: PRLX-CYL3-10-940-15L-FL-U-S-X-X-WHTE

Issue Date: 4/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P981037
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-CYL3-10-940-15L-FL-U-S-X-X-WHTE
Description: PrentaLux 3-INCH CYLINDER, FLOOD OPTIC
1500 LUMENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

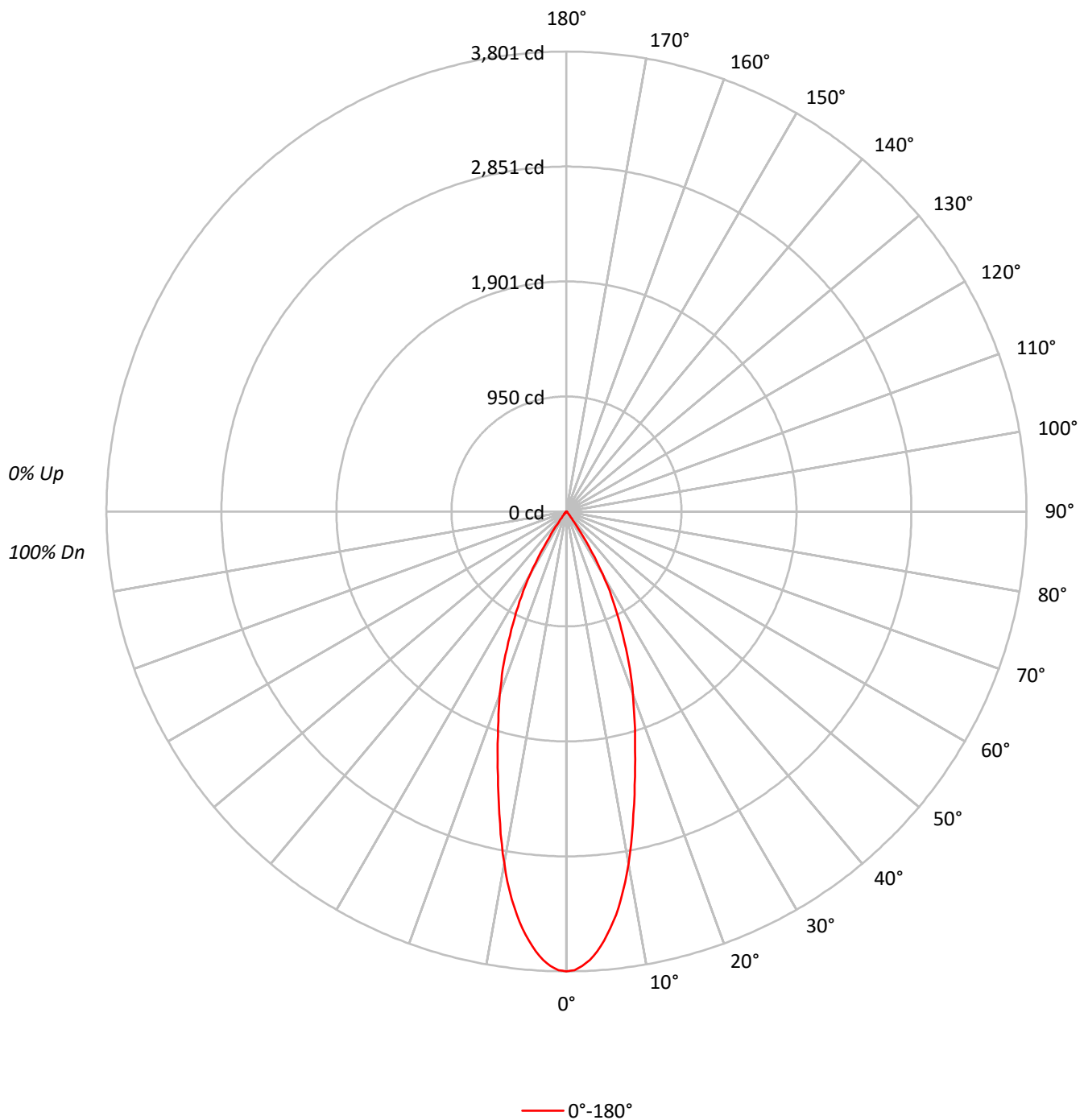
Lumens per Lamp: N/A
Luminaire Lumens: 1566.5 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 0.56 / 0.56 / 0.62
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 13.5
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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CATALOG NUMBER: PRLX-CYL3-10-940-15L-FL-U-S-X-X-WHITE

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°	833574
5°	783973
10°	658527
15°	497687
20°	375163
25°	260313
30°	151542
35°	41519
40°	9618
45°	3039
50°	1876
55°	1300
60°	1009
65°	934
70°	962
75°	1101
80°	1389
85°	1510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3039 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.7	20.5
10°-20°	610.4	39.0
20°-30°	490.1	31.3
30°-40°	128.2	8.2
40°-50°	10.2	0.6
50°-60°	3.2	0.2
60°-70°	1.8	0.1
70°-80°	1.4	0.1
80°-90°	0.6	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°	1421.3	90.7
0°-40°	1549.4	98.9
0°-60°	1562.8	99.8
0°-90°	1566.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1566.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3801	
5°	3562	321
15°	2192	610
25°	1076	490
35°	155	128
45°	10	10
55°	3	3
65°	2	2
75°	1	1
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3801.4
1°	3790.7
2°	3759.6
3°	3710.8
4°	3643.4
5°	3561.6
6°	3466.9
7°	3358.4
8°	3237.4
9°	3104.2
10°	2957.5
11°	2801.6
12°	2640.5
13°	2481.5
14°	2333.0
15°	2192.3
16°	2062.0
17°	1937.7
18°	1821.8
19°	1712.3
20°	1607.7
21°	1503.2
22°	1401.6
23°	1288.5
24°	1179.7
25°	1075.9
26°	977.2
27°	881.1
28°	791.6
29°	699.3
30°	598.5
31°	494.3
32°	394.2
33°	302.4
34°	221.6
35°	155.1
36°	106.9
37°	72.7
38°	52.4
39°	41.8
40°	33.6
41°	26.7
42°	21.1
43°	16.1
44°	12.5

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CANDELA DISTRIBUTION (continued):

	0°
45°	9.8
46°	8.6
47°	7.7
48°	6.8
49°	6.1
50°	5.5
51°	4.9
52°	4.5
53°	4.1
54°	3.7
55°	3.4
56°	3.2
57°	2.9
58°	2.7
59°	2.5
60°	2.3
61°	2.2
62°	2.1
63°	2.0
64°	1.8
65°	1.8
66°	1.7
67°	1.6
68°	1.5
69°	1.5
70°	1.5
71°	1.4
72°	1.4
73°	1.4
74°	1.3
75°	1.3
76°	1.3
77°	1.2
78°	1.1
79°	1.1
80°	1.1
81°	1.0
82°	1.0
83°	0.8
84°	0.7
85°	0.6
86°	0.3
87°	0.1
88°	0.1
89°	0.0

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CANDELA DISTRIBUTION (continued):

90° | $\overset{0^\circ}{\text{---}} \underset{0.0}{\text{---}}$

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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	0.26	0.63	0.00	0.00	0.00	0.26	0.63
	4H	0.00	0.72	0.40	1.07	1.46	0.00	0.72	0.40	1.07	1.46
	6H	0.96	1.61	1.38	1.99	2.39	0.96	1.61	1.38	1.99	2.39
	8H	1.45	2.06	1.88	2.46	2.87	1.45	2.06	1.88	2.46	2.87
	12H	1.68	2.27	2.12	2.65	3.08	1.68	2.27	2.12	2.65	3.08
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	0.36	0.18	0.77	1.17	0.00	0.36	0.18	0.77	1.17
	4H	0.86	1.38	1.30	1.81	2.26	0.86	1.38	1.30	1.81	2.26
	6H	2.04	2.49	2.51	2.94	3.42	2.04	2.49	2.51	2.94	3.42
	8H	2.63	3.05	3.11	3.50	3.98	2.63	3.05	3.11	3.50	3.98
	12H	2.99	3.34	3.48	3.83	4.31	2.99	3.34	3.48	3.83	4.31
8H	4H	1.24	1.65	1.72	2.11	2.58	1.24	1.65	1.72	2.11	2.58
	6H	2.68	3.00	3.19	3.51	4.00	2.68	3.00	3.19	3.51	4.00
	8H	3.42	3.71	3.96	4.24	4.73	3.42	3.71	3.96	4.24	4.73
	12H	3.94	4.18	4.46	4.68	5.26	3.94	4.18	4.46	4.68	5.26
12H	4H	1.31	1.67	1.81	2.16	2.64	1.31	1.67	1.81	2.16	2.64
	6H	2.84	3.13	3.38	3.65	4.15	2.84	3.13	3.38	3.65	4.15
	8H	3.66	3.91	4.19	4.41	4.99	3.66	3.91	4.19	4.41	4.99

END OF REPORT