

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: P981017

Luminaire Tested: PRLX-CYL3-10-930-23L-FL-U-S-X-X-WHTE

Issue Date: 4/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P981017
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-CYL3-10-930-23L-FL-U-S-X-X-WHTE
Description: PrentaLux 3-INCH CYLINDER, FLOOD OPTIC
2300 LUMENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

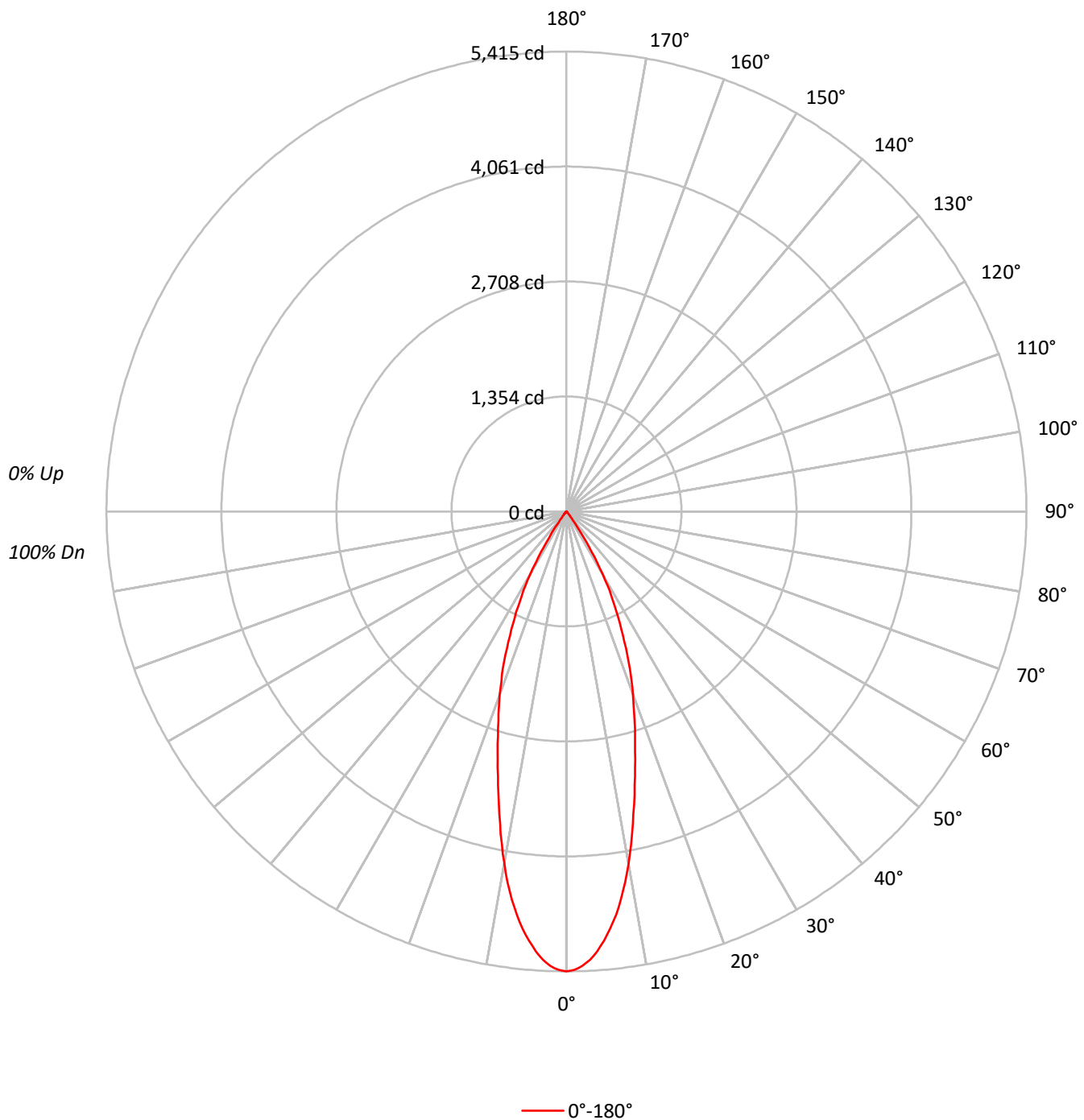
Lumens per Lamp: N/A
Luminaire Lumens: 2231.4 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 0.56 / 0.56 / 0.62
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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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CATALOG NUMBER: PRLX-CYL3-10-930-23L-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	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°	1187405
5°	1116748
10°	938059
15°	708948
20°	534403
25°	370812
30°	215856
35°	59133
40°	13711
45°	4342
50°	2661
55°	1873
60°	1447
65°	1297
70°	1346
75°	1525
80°	1894
85°	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4342 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.8	20.5
10°-20°	869.6	39.0
20°-30°	698.2	31.3
30°-40°	182.6	8.2
40°-50°	14.5	0.6
50°-60°	4.5	0.2
60°-70°	2.6	0.1
70°-80°	1.9	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°	2024.6	90.7
0°-40°	2207.1	98.9
0°-60°	2226.1	99.8
0°-90°	2231.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2231.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5415	
5°	5073	457
15°	3123	870
25°	1533	698
35°	221	183
45°	14	14
55°	5	5
65°	2	3
75°	2	2
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5415.0
1°	5399.8
2°	5355.5
3°	5286.0
4°	5190.0
5°	5073.4
6°	4938.5
7°	4784.0
8°	4611.7
9°	4421.9
10°	4212.9
11°	3990.8
12°	3761.4
13°	3534.9
14°	3323.4
15°	3122.9
16°	2937.3
17°	2760.2
18°	2595.2
19°	2439.2
20°	2290.1
21°	2141.3
22°	1996.5
23°	1835.4
24°	1680.5
25°	1532.6
26°	1392.0
27°	1255.1
28°	1127.6
29°	996.2
30°	852.5
31°	704.1
32°	561.5
33°	430.7
34°	315.7
35°	220.9
36°	152.3
37°	103.5
38°	74.7
39°	59.6
40°	47.9
41°	38.0
42°	30.0
43°	23.0
44°	17.8

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CANDELA DISTRIBUTION (continued):

	0°
45°	14.0
46°	12.3
47°	10.9
48°	9.7
49°	8.7
50°	7.8
51°	7.0
52°	6.4
53°	5.8
54°	5.3
55°	4.9
56°	4.5
57°	4.1
58°	3.8
59°	3.5
60°	3.3
61°	3.1
62°	3.0
63°	2.8
64°	2.6
65°	2.5
66°	2.4
67°	2.3
68°	2.2
69°	2.2
70°	2.1
71°	2.0
72°	2.0
73°	2.0
74°	1.9
75°	1.8
76°	1.8
77°	1.7
78°	1.6
79°	1.6
80°	1.5
81°	1.4
82°	1.4
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° | $\overset{0^\circ}{\text{---}} \underset{0.0}{\text{---}}$

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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	0.16	0.47	0.00	0.00	0.00	0.16	0.47
	3H	0.40	1.18	0.78	1.52	1.89	0.40	1.18	0.78	1.52	1.89
	4H	1.27	1.99	1.68	2.35	2.74	1.27	1.99	1.68	2.35	2.74
	6H	2.20	2.86	2.63	3.24	3.64	2.20	2.86	2.63	3.24	3.64
	8H	2.69	3.30	3.12	3.70	4.11	2.69	3.30	3.12	3.70	4.11
	12H	2.92	3.51	3.35	3.89	4.32	2.92	3.51	3.35	3.89	4.32
4H	2H	0.00	0.00	0.00	0.33	0.72	0.00	0.00	0.00	0.33	0.72
	3H	1.01	1.60	1.43	2.01	2.42	1.01	1.60	1.43	2.01	2.42
	4H	2.09	2.61	2.53	3.04	3.49	2.09	2.61	2.53	3.04	3.49
	6H	3.25	3.70	3.73	4.15	4.63	3.25	3.70	3.73	4.15	4.63
	8H	3.84	4.26	4.32	4.71	5.19	3.84	4.26	4.32	4.71	5.19
	12H	4.20	4.55	4.69	5.04	5.52	4.20	4.55	4.69	5.04	5.52
8H	4H	2.47	2.89	2.95	3.34	3.82	2.47	2.89	2.95	3.34	3.82
	6H	3.89	4.21	4.40	4.72	5.20	3.89	4.21	4.40	4.72	5.20
	8H	4.64	4.93	5.18	5.45	5.95	4.64	4.93	5.18	5.45	5.95
	12H	5.14	5.39	5.67	5.89	6.47	5.14	5.39	5.67	5.89	6.47
12H	4H	2.54	2.90	3.04	3.39	3.87	2.54	2.90	3.04	3.39	3.87
	6H	4.04	4.33	4.58	4.86	5.35	4.04	4.33	4.58	4.86	5.35
	8H	4.88	5.12	5.41	5.62	6.21	4.88	5.12	5.41	5.62	6.21

END OF REPORT