

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: P981031

Luminaire Tested: PRLX-CYL3-10-935-23L-SP-U-S-X-X-WHTE

Issue Date: 4/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P981031
TEST IS SCALED FROM (FO44196.PSO)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL3-10-935-23L-SP-U-S-X-X-WHTE
Description: PrentaLux 3-INCH CYLINDER, SPOT OPTIC
2300 LUMENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

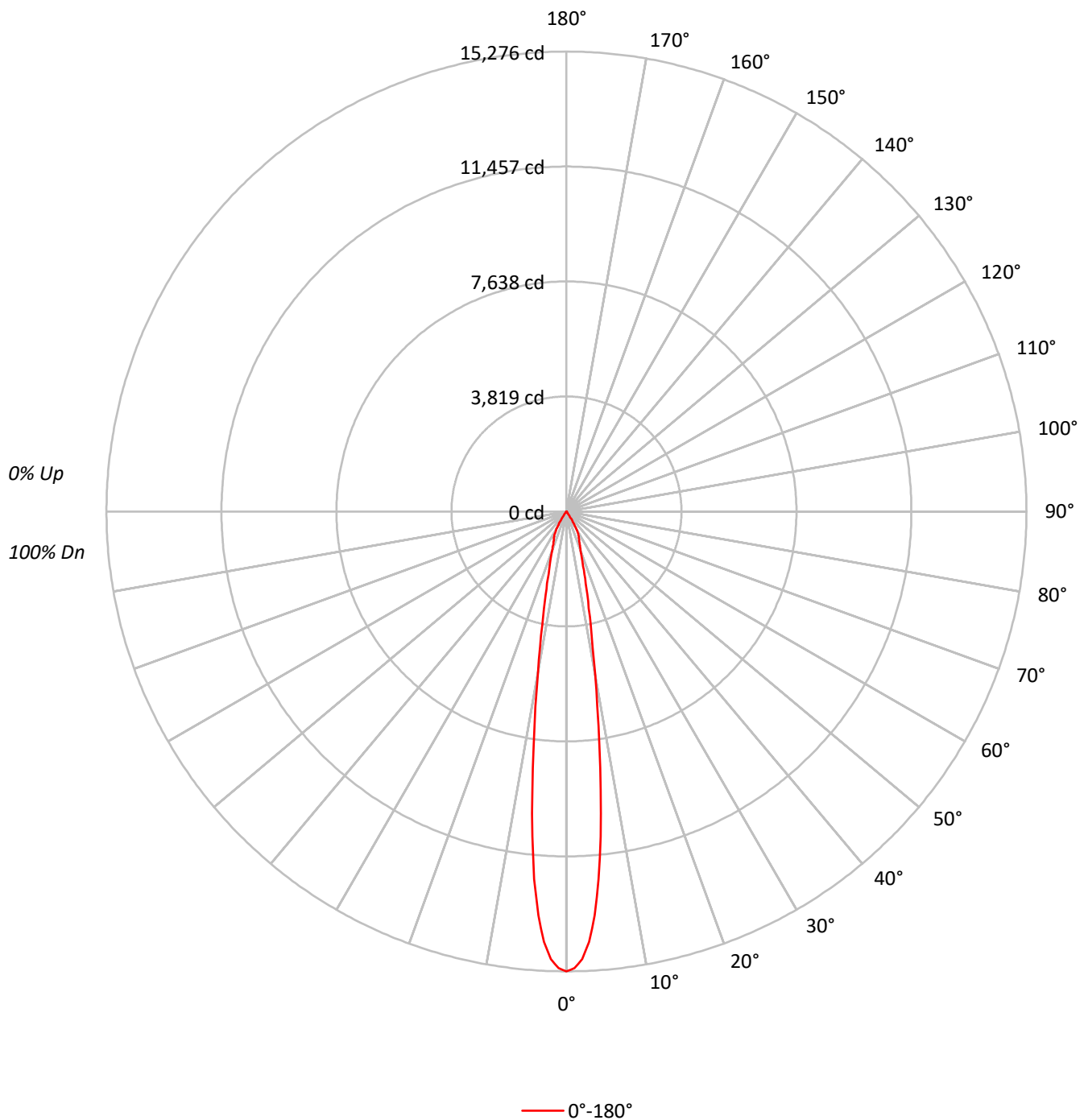
Lumens per Lamp: N/A
Luminaire Lumens: 2234.0 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 0.28 / 0.28 / 0.29
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P981031

CATALOG NUMBER: PRLX-CYL3-10-935-23L-SP-U-S-X-X-WHTE

Luminous Intensity Polar Plot



TEST NUMBER: P981031

CATALOG NUMBER: PRLX-CYL3-10-935-23L-SP-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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	115	113	111	109	113	111	109	108	107	106	104		103	102	101		97
2	111	108	105	102	109	106	103	101	103	101	99		100	98	97		94
3	108	103	100	97	106	102	99	96	99	97	95		97	95	93		91
4	105	99	95	92	103	98	95	92	96	93	91		94	92	90		88
5	102	96	92	89	100	95	91	88	93	90	88		92	89	87		85
6	99	92	88	85	97	92	88	85	90	87	85		89	86	84		83
7	96	90	85	83	95	89	85	82	88	84	82		87	84	82		80
8	93	87	83	80	92	86	83	80	86	82	80		85	82	79		78
9	91	84	80	78	90	84	80	78	83	80	77		83	79	77		76
10	89	82	78	76	88	82	78	76	81	78	75		81	77	75		74

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3349819
5°	2699927
10°	1213894
15°	560616
20°	322588
25°	237522
30°	156556
35°	34318
40°	5611
45°	1551
50°	853
55°	650
60°	658
65°	726
70°	769
75°	847
80°	884
85°	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 1551 cd/sqm

TEST NUMBER: P981031

CATALOG NUMBER: PRLX-CYL3-10-935-23L-SP-U-S-X-X-WHITE

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	926.3	41.5
10°-20°	729.3	32.6
20°-30°	448.0	20.1
30°-40°	120.9	5.4
40°-50°	5.0	0.2
50°-60°	1.6	0.1
60°-70°	1.4	0.1
70°-80°	1.0	0.0
80°-90°	0.4	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°	2103.6	94.2
0°-40°	2224.6	99.6
0°-60°	2231.2	99.9
0°-90°	2234.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2234.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15276	
5°	12266	926
15°	2470	729
25°	982	448
35°	128	121
45°	5	5
55°	2	2
65°	1	1
75°	1	1
85°	0	0
90°	0	

TEST NUMBER: P981031

CATALOG NUMBER: PRLX-CYL3-10-935-23L-SP-U-S-X-X-WHTE

CANDELA DISTRIBUTION (FULL):

0°	
0°	15276.4
1°	15176.7
2°	14879.5
3°	14311.9
4°	13441.1
5°	12265.8
6°	10865.8
7°	9330.7
8°	7859.3
9°	6549.6
10°	5451.7
11°	4569.4
12°	3866.3
13°	3305.0
14°	2846.7
15°	2469.5
16°	2162.2
17°	1908.2
18°	1701.9
19°	1526.1
20°	1382.4
21°	1265.9
22°	1171.4
23°	1094.8
24°	1032.3
25°	981.7
26°	935.7
27°	878.9
28°	806.7
29°	717.4
30°	618.3
31°	514.2
32°	407.5
33°	302.4
34°	207.8
35°	128.2
36°	72.6
37°	42.5
38°	32.3
39°	26.0
40°	19.6
41°	14.2
42°	9.6
43°	7.1
44°	5.9

TEST NUMBER: P981031

CATALOG NUMBER: PRLX-CYL3-10-935-23L-SP-U-S-X-X-WHTE

CANDELA DISTRIBUTION (continued):

	0°
45°	5.0
46°	4.3
47°	3.7
48°	3.2
49°	2.9
50°	2.5
51°	2.3
52°	2.1
53°	2.0
54°	1.8
55°	1.7
56°	1.7
57°	1.6
58°	1.5
59°	1.5
60°	1.5
61°	1.5
62°	1.5
63°	1.5
64°	1.5
65°	1.4
66°	1.4
67°	1.3
68°	1.3
69°	1.3
70°	1.2
71°	1.2
72°	1.1
73°	1.1
74°	1.0
75°	1.0
76°	0.8
77°	0.8
78°	0.8
79°	0.8
80°	0.7
81°	0.7
82°	0.7
83°	0.6
84°	0.5
85°	0.4
86°	0.2
87°	0.1
88°	0.0
89°	0.0

TEST NUMBER: P981031

CATALOG NUMBER: PRLX-CYL3-10-935-23L-SP-U-S-X-X-WHTE

CANDELA DISTRIBUTION (continued):

90° | $\overset{0^\circ}{\rule{1.5cm}{0.4pt}}$
0.0

TEST NUMBER: P981031

CATALOG NUMBER: PRLX-CYL3-10-935-23L-SP-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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.41
	12H	0.00	0.00	0.00	0.26	0.74	0.00	0.00	0.00	0.26	0.74
8H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.42
	8H	0.00	0.13	0.39	0.66	1.15	0.00	0.13	0.39	0.66	1.15
	12H	0.35	0.59	0.87	1.09	1.67	0.35	0.59	0.87	1.09	1.67
12H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.06	0.56	0.00	0.00	0.00	0.06	0.56
	8H	0.09	0.33	0.61	0.83	1.41	0.09	0.33	0.61	0.83	1.41

END OF REPORT