

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: P981001

Luminaire Tested: PRLX-CYL3-10-927-15L-FL-U-S-X-X-WHTE

Issue Date: 4/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P981001
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-CYL3-10-927-15L-FL-U-S-X-X-WHTE
Description: PrentaLux 3-INCH CYLINDER, FLOOD OPTIC
1500 LUMENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

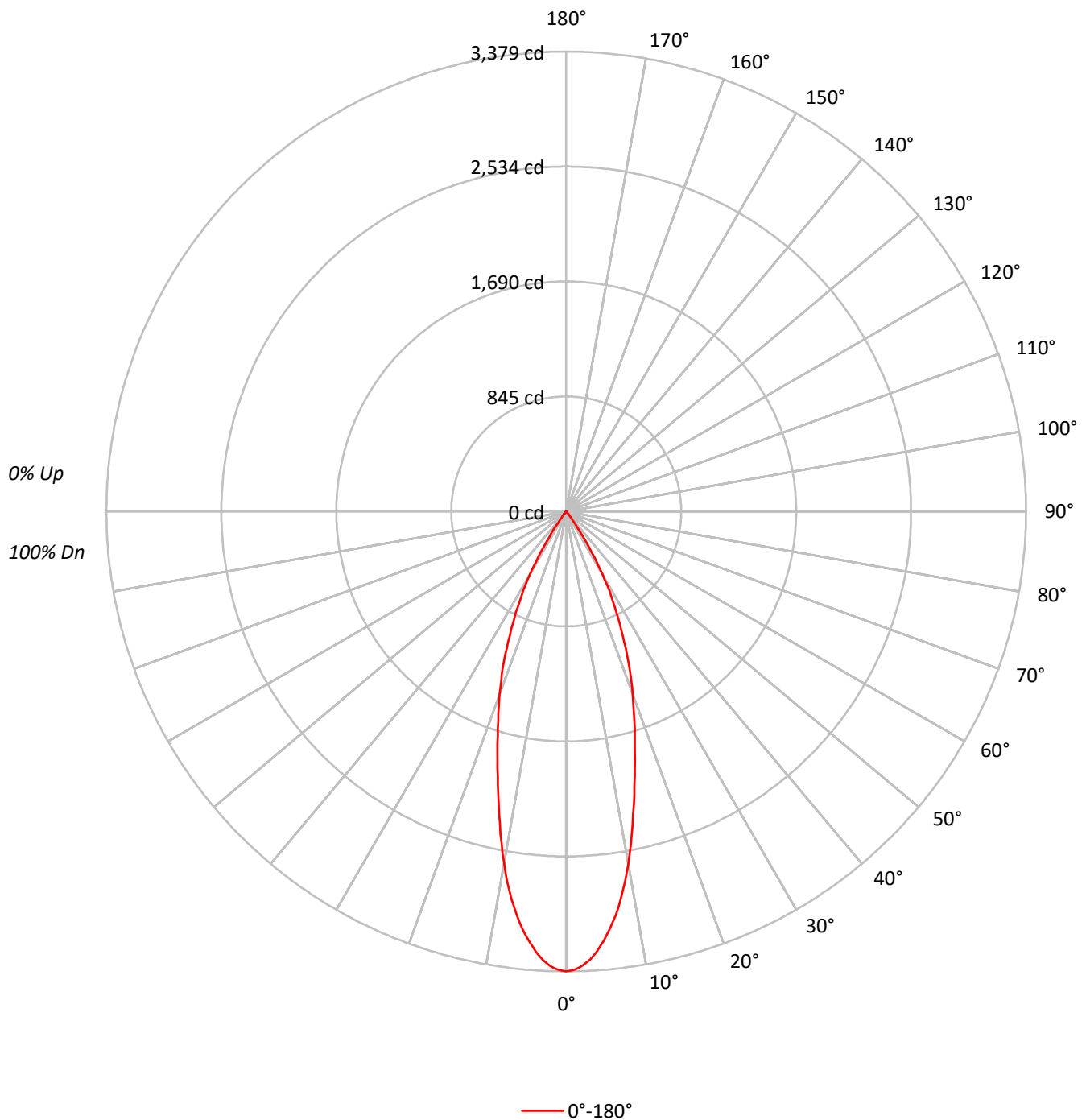
Lumens per Lamp: N/A
Luminaire Lumens: 1392.4 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 0.56 / 0.56 / 0.62
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P981001

CATALOG NUMBER: PRLX-CYL3-10-927-15L-FL-U-S-X-X-WHTE

Luminous Intensity Polar Plot



TEST NUMBER: P981001

CATALOG NUMBER: PRLX-CYL3-10-927-15L-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°	740949
5°	696850
10°	585360
15°	442386
20°	333462
25°	231400
30°	134704
35°	36888
40°	8559
45°	2698
50°	1672
55°	1185
60°	921
65°	830
70°	833
75°	932
80°	1137
85°	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2698 cd/sqm

TEST NUMBER: P981001

CATALOG NUMBER: PRLX-CYL3-10-927-15L-FL-U-S-X-X-WHTE

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.1	20.5
10°-20°	542.6	39.0
20°-30°	435.7	31.3
30°-40°	113.9	8.2
40°-50°	9.0	0.6
50°-60°	2.8	0.2
60°-70°	1.6	0.1
70°-80°	1.2	0.1
80°-90°	0.5	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°	1263.3	90.7
0°-40°	1377.3	98.9
0°-60°	1389.1	99.8
0°-90°	1392.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1392.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3379	
5°	3166	285
15°	1949	543
25°	956	436
35°	138	114
45°	9	9
55°	3	3
65°	2	2
75°	1	1
85°	0	0
90°	0	

TEST NUMBER: P981001

CATALOG NUMBER: PRLX-CYL3-10-927-15L-FL-U-S-X-X-WHTE

CANDELA DISTRIBUTION (FULL):

0°	
0°	3379.0
1°	3369.5
2°	3341.9
3°	3298.5
4°	3238.6
5°	3165.8
6°	3081.6
7°	2985.2
8°	2877.7
9°	2759.3
10°	2628.9
11°	2490.3
12°	2347.1
13°	2205.8
14°	2073.8
15°	1948.7
16°	1832.9
17°	1722.4
18°	1619.4
19°	1522.1
20°	1429.0
21°	1336.2
22°	1245.8
23°	1145.3
24°	1048.6
25°	956.4
26°	868.6
27°	783.2
28°	703.6
29°	621.6
30°	532.0
31°	439.4
32°	350.4
33°	268.8
34°	197.0
35°	137.8
36°	95.0
37°	64.6
38°	46.6
39°	37.2
40°	29.9
41°	23.7
42°	18.7
43°	14.4
44°	11.1

TEST NUMBER: P981001

CATALOG NUMBER: PRLX-CYL3-10-927-15L-FL-U-S-X-X-WHTE

CANDELA DISTRIBUTION (continued):

	0°
45°	8.7
46°	7.7
47°	6.8
48°	6.1
49°	5.4
50°	4.9
51°	4.4
52°	4.0
53°	3.6
54°	3.3
55°	3.1
56°	2.8
57°	2.6
58°	2.4
59°	2.2
60°	2.1
61°	1.9
62°	1.9
63°	1.7
64°	1.6
65°	1.6
66°	1.5
67°	1.4
68°	1.4
69°	1.4
70°	1.3
71°	1.2
72°	1.2
73°	1.2
74°	1.2
75°	1.1
76°	1.1
77°	1.1
78°	1.0
79°	1.0
80°	0.9
81°	0.9
82°	0.9
83°	0.7
84°	0.6
85°	0.5
86°	0.2
87°	0.1
88°	0.1
89°	0.0

TEST NUMBER: P981001

CATALOG NUMBER: PRLX-CYL3-10-927-15L-FL-U-S-X-X-WHTE

CANDELA DISTRIBUTION (continued):

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

TEST NUMBER: P981001

CATALOG NUMBER: PRLX-CYL3-10-927-15L-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	0.36	0.00	0.00	0.00	0.00	0.36
	4H	0.00	0.44	0.13	0.80	1.19	0.00	0.44	0.13	0.80	1.19
	6H	0.63	1.29	1.05	1.67	2.06	0.63	1.29	1.05	1.67	2.06
	8H	1.12	1.73	1.55	2.13	2.54	1.12	1.73	1.55	2.13	2.54
	12H	1.32	1.91	1.76	2.29	2.73	1.32	1.91	1.76	2.29	2.73
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	0.02	0.00	0.43	0.84	0.00	0.02	0.00	0.43	0.84
	4H	0.48	1.00	0.92	1.43	1.88	0.48	1.00	0.92	1.43	1.88
	6H	1.62	2.07	2.09	2.52	2.99	1.62	2.07	2.09	2.52	2.99
	8H	2.22	2.64	2.70	3.09	3.57	2.22	2.64	2.70	3.09	3.57
	12H	2.54	2.90	3.04	3.39	3.87	2.54	2.90	3.04	3.39	3.87
8H	4H	0.87	1.29	1.35	1.74	2.22	0.87	1.29	1.35	1.74	2.22
	6H	2.26	2.58	2.77	3.09	3.58	2.26	2.58	2.77	3.09	3.58
	8H	3.01	3.30	3.55	3.82	4.32	3.01	3.30	3.55	3.82	4.32
	12H	3.48	3.72	4.01	4.22	4.81	3.48	3.72	4.01	4.22	4.81
12H	4H	0.94	1.29	1.43	1.78	2.26	0.94	1.29	1.43	1.78	2.26
	6H	2.42	2.71	2.96	3.23	3.73	2.42	2.71	2.96	3.23	3.73
	8H	3.25	3.49	3.77	3.99	4.57	3.25	3.49	3.77	3.99	4.57

END OF REPORT