

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: P981025

Luminaire Tested: PRLX-CYL3-10-935-15L-FL-U-S-X-X-WHTE

Issue Date: 4/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P981025
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-CYL3-10-935-15L-FL-U-S-X-X-WHTE
Description: PrentaLux 3-INCH CYLINDER, FLOOD OPTIC
1500 LUMENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

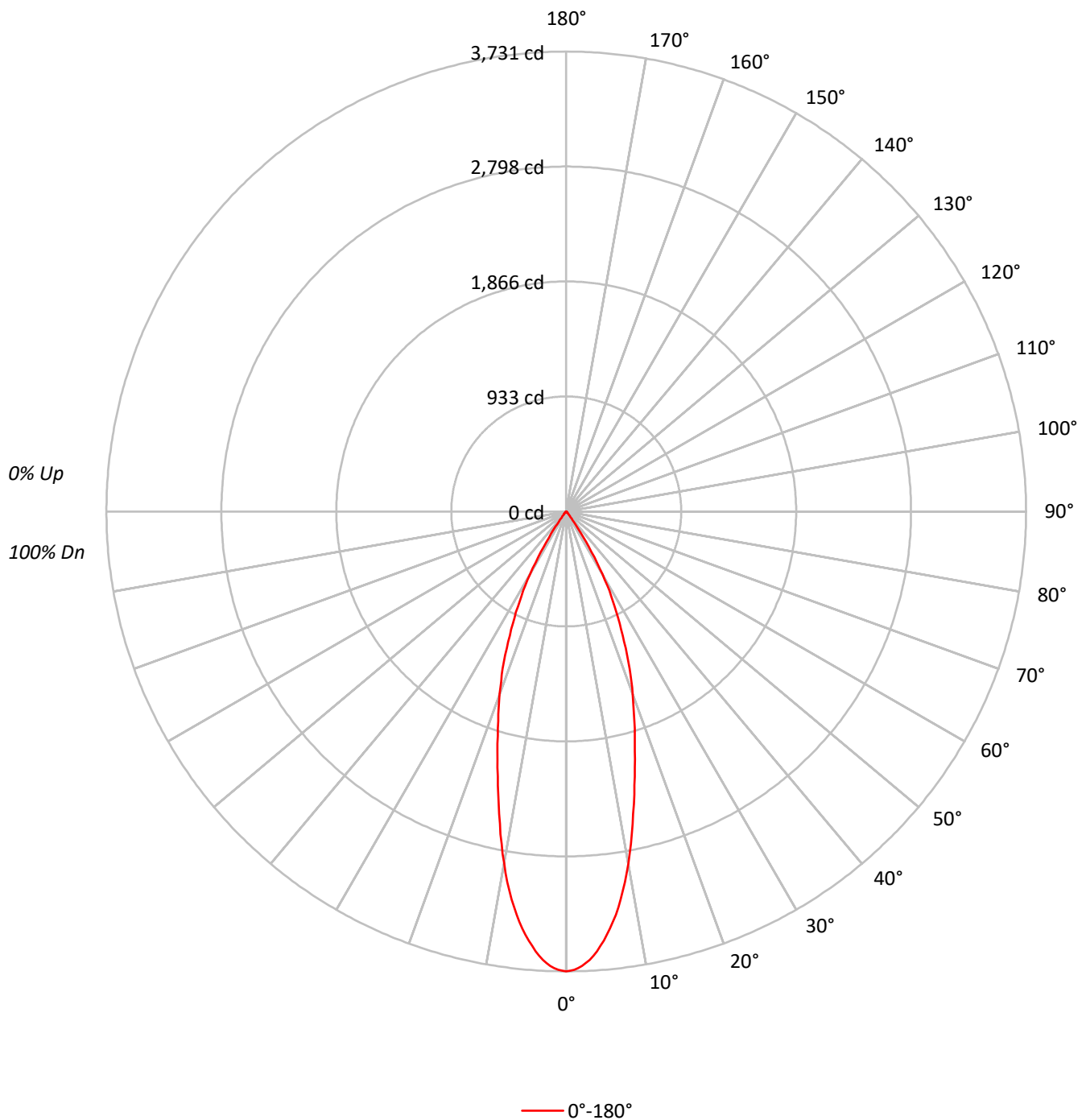
Lumens per Lamp: N/A
Luminaire Lumens: 1537.5 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 0.56 / 0.56 / 0.62
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P981025

CATALOG NUMBER: PRLX-CYL3-10-935-15L-FL-U-S-X-X-WHTE

Luminous Intensity Polar Plot



TEST NUMBER: P981025

CATALOG NUMBER: PRLX-CYL3-10-935-15L-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°	818136
5°	769446
10°	646325
15°	488470
20°	368209
25°	255499
30°	148732
35°	40743
40°	9446
45°	2977
50°	1842
55°	1300
60°	1009
65°	882
70°	898
75°	1017
80°	1263
85°	1510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2977 cd/sqm

TEST NUMBER: P981025

CATALOG NUMBER: PRLX-CYL3-10-935-15L-FL-U-S-X-X-WHTE

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.8	20.5
10°-20°	599.1	39.0
20°-30°	481.1	31.3
30°-40°	125.8	8.2
40°-50°	10.0	0.6
50°-60°	3.1	0.2
60°-70°	1.8	0.1
70°-80°	1.3	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°	1394.9	90.7
0°-40°	1520.7	98.9
0°-60°	1533.8	99.8
0°-90°	1537.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1537.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3731	
5°	3496	315
15°	2152	599
25°	1056	481
35°	152	126
45°	10	10
55°	3	3
65°	2	2
75°	1	1
85°	1	1
90°	0	

TEST NUMBER: P981025

CATALOG NUMBER: PRLX-CYL3-10-935-15L-FL-U-S-X-X-WHTE

CANDELA DISTRIBUTION (FULL):

0°	
0°	3731.0
1°	3720.5
2°	3690.0
3°	3642.1
4°	3575.9
5°	3495.6
6°	3402.7
7°	3296.2
8°	3177.5
9°	3046.7
10°	2902.7
11°	2749.7
12°	2591.6
13°	2435.6
14°	2289.8
15°	2151.7
16°	2023.8
17°	1901.8
18°	1788.1
19°	1680.6
20°	1577.9
21°	1475.4
22°	1375.6
23°	1264.6
24°	1157.9
25°	1056.0
26°	959.1
27°	864.8
28°	776.9
29°	686.4
30°	587.4
31°	485.1
32°	386.9
33°	296.8
34°	217.5
35°	152.2
36°	104.9
37°	71.3
38°	51.5
39°	41.1
40°	33.0
41°	26.2
42°	20.7
43°	15.8
44°	12.3

TEST NUMBER: P981025

CATALOG NUMBER: PRLX-CYL3-10-935-15L-FL-U-S-X-X-WHTE

CANDELA DISTRIBUTION (continued):

	0°
45°	9.6
46°	8.5
47°	7.5
48°	6.7
49°	6.0
50°	5.4
51°	4.8
52°	4.4
53°	4.0
54°	3.7
55°	3.4
56°	3.1
57°	2.8
58°	2.6
59°	2.4
60°	2.3
61°	2.1
62°	2.1
63°	1.9
64°	1.8
65°	1.7
66°	1.7
67°	1.6
68°	1.5
69°	1.5
70°	1.4
71°	1.4
72°	1.4
73°	1.4
74°	1.3
75°	1.2
76°	1.2
77°	1.2
78°	1.1
79°	1.1
80°	1.0
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

TEST NUMBER: P981025

CATALOG NUMBER: PRLX-CYL3-10-935-15L-FL-U-S-X-X-WHTE

CANDELA DISTRIBUTION (continued):

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

TEST NUMBER: P981025

CATALOG NUMBER: PRLX-CYL3-10-935-15L-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	0.16	0.53	0.00	0.00	0.00	0.16	0.53
	4H	0.00	0.63	0.32	0.98	1.38	0.00	0.63	0.32	0.98	1.38
	6H	0.85	1.51	1.27	1.89	2.29	0.85	1.51	1.27	1.89	2.29
	8H	1.37	1.98	1.81	2.38	2.79	1.37	1.98	1.81	2.38	2.79
	12H	1.61	2.20	2.05	2.59	3.02	1.61	2.20	2.05	2.59	3.02
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	0.27	0.10	0.68	1.09	0.00	0.27	0.10	0.68	1.09
	4H	0.73	1.25	1.17	1.68	2.13	0.73	1.25	1.17	1.68	2.13
	6H	1.89	2.34	2.37	2.79	3.27	1.89	2.34	2.37	2.79	3.27
	8H	2.52	2.94	3.00	3.39	3.87	2.52	2.94	3.00	3.39	3.87
	12H	2.90	3.25	3.39	3.74	4.22	2.90	3.25	3.39	3.74	4.22
8H	4H	1.13	1.55	1.61	2.00	2.47	1.13	1.55	1.61	2.00	2.47
	6H	2.55	2.87	3.06	3.38	3.87	2.55	2.87	3.06	3.38	3.87
	8H	3.33	3.62	3.87	4.15	4.64	3.33	3.62	3.87	4.15	4.64
	12H	3.87	4.11	4.40	4.61	5.20	3.87	4.11	4.40	4.61	5.20
12H	4H	1.20	1.55	1.69	2.04	2.52	1.20	1.55	1.69	2.04	2.52
	6H	2.72	3.00	3.25	3.53	4.03	2.72	3.00	3.25	3.53	4.03
	8H	3.58	3.83	4.11	4.33	4.91	3.58	3.83	4.11	4.33	4.91