

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P981012

Luminaire Tested: PRLX-CYL3S-10-930-10L-WD-U-S-X-X-WHTE

Issue Date: 4/11/2025

Test Information

Test Method: LM-79-2024
Report Number: P981012
TEST IS SCALED FROM (FO44195.PSO)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PentaLux
Catalog Number: PRLX-CYL3S-10-930-10L-WD-U-S-X-X-WHTE
Description: PentaLux 3-INCH CYLINDER, WIDE FLOOD OPTIC
1000 LUMENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

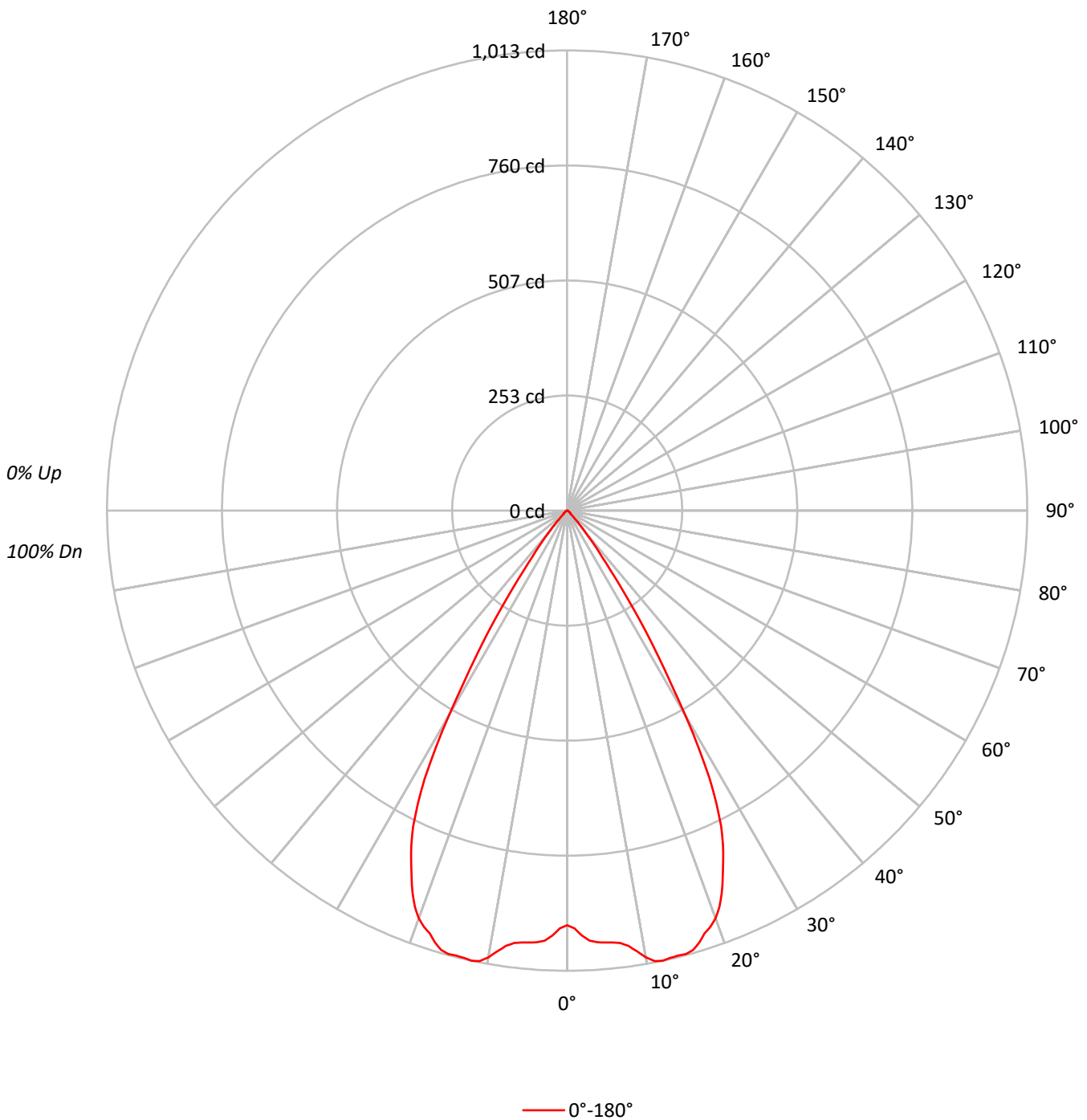
Lumens per Lamp: N/A
Luminaire Lumens: 905.0 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 1.07 / 1.07 / 0.89
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 9.5
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: P981012

CATALOG NUMBER: PRLX-CYL3S-10-930-10L-WD-U-S-X-X-WHTE

Luminous Intensity Polar Plot





TEST NUMBER: P981012

CATALOG NUMBER: PRLX-CYL3S-10-930-10L-WD-U-S-X-X-WHTE

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	82
4	98	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	70	68
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64
8	81	72	67	63	80	72	66	62	71	66	62	70	65	62	69	65	62	60
9	78	68	63	59	77	68	63	59	67	62	59	66	62	58	65	61	58	57
10	74	65	59	56	73	64	59	56	64	59	55	63	58	55	62	58	55	54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	200181
5°	210103
10°	222352
15°	229377
20°	222899
25°	196439
30°	131716
35°	55787
40°	18520
45°	4745
50°	3002
55°	2409
60°	1842
65°	1401
70°	1090
75°	1186
80°	1515
85°	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4745 cd/sqm

TEST NUMBER: P981012

CATALOG NUMBER: PRLX-CYL3S-10-930-10L-WD-U-S-X-X-WHTE

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	10.2
10°-20°	282.2	31.2
20°-30°	358.7	39.6
30°-40°	143.5	15.9
40°-50°	17.9	2.0
50°-60°	5.8	0.6
60°-70°	2.7	0.3
70°-80°	1.5	0.2
80°-90°	0.6	0.1
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°	732.9	81.0
0°-40°	876.4	96.8
0°-60°	900.1	99.5
0°-90°	905.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	905.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	913	
5°	954	92
15°	1010	282
25°	812	359
35°	208	144
45°	15	18
55°	6	6
65°	3	3
75°	1	1
85°	1	1
90°	0	

TEST NUMBER: P981012

CATALOG NUMBER: PRLX-CYL3S-10-930-10L-WD-U-S-X-X-WHTE

CANDELA DISTRIBUTION (FULL):

0°	
0°	912.9
1°	919.6
2°	936.0
3°	948.0
4°	952.4
5°	954.5
6°	956.2
7°	959.3
8°	967.7
9°	982.1
10°	998.6
11°	1010.4
12°	1013.0
13°	1010.4
14°	1009.8
15°	1010.4
16°	1006.1
17°	994.5
18°	979.0
19°	969.2
20°	955.2
21°	934.6
22°	908.7
23°	877.0
24°	844.5
25°	811.9
26°	773.1
27°	725.0
28°	668.1
29°	596.8
30°	520.2
31°	444.7
32°	377.1
33°	317.9
34°	262.7
35°	208.4
36°	162.2
37°	127.7
38°	103.0
39°	82.9
40°	64.7
41°	50.9
42°	40.3
43°	30.8
44°	21.6

TEST NUMBER: P981012

CATALOG NUMBER: PRLX-CYL3S-10-930-10L-WD-U-S-X-X-WHTE

CANDELA DISTRIBUTION (continued):

	0°
45°	15.3
46°	12.3
47°	11.1
48°	10.2
49°	9.5
50°	8.8
51°	8.1
52°	7.4
53°	6.9
54°	6.4
55°	6.3
56°	6.3
57°	6.1
58°	5.7
59°	5.2
60°	4.2
61°	3.4
62°	3.1
63°	3.1
64°	2.9
65°	2.7
66°	2.6
67°	2.5
68°	2.4
69°	2.0
70°	1.7
71°	1.5
72°	1.5
73°	1.4
74°	1.4
75°	1.4
76°	1.4
77°	1.4
78°	1.3
79°	1.3
80°	1.2
81°	1.1
82°	1.1
83°	1.0
84°	0.8
85°	0.7
86°	0.4
87°	0.1
88°	0.0
89°	0.0



TEST NUMBER: P981012

CATALOG NUMBER: PRLX-CYL3S-10-930-10L-WD-U-S-X-X-WHTE

CANDELA DISTRIBUTION (continued):

90° | $\frac{0^\circ}{0.0}$

TEST NUMBER: P981012
 CATALOG NUMBER: PRLX-CYL3S-10-930-10L-WD-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	4.85	5.77	5.22	6.08	6.40	4.85	5.77	5.22	6.08	6.40
	3H	5.46	6.27	5.84	6.60	6.97	5.46	6.27	5.84	6.60	6.97
	4H	5.69	6.44	6.10	6.79	7.19	5.69	6.44	6.10	6.79	7.19
	6H	6.09	6.77	6.51	7.15	7.55	6.09	6.77	6.51	7.15	7.55
	8H	6.32	6.95	6.75	7.35	7.76	6.32	6.95	6.75	7.35	7.76
	12H	6.43	7.04	6.87	7.43	7.86	6.43	7.04	6.87	7.43	7.86
4H	2H	4.88	5.63	5.29	5.98	6.37	4.88	5.63	5.29	5.98	6.37
	3H	5.60	6.21	6.01	6.62	7.02	5.60	6.21	6.01	6.62	7.02
	4H	5.97	6.52	6.41	6.94	7.39	5.97	6.52	6.41	6.94	7.39
	6H	6.59	7.05	7.06	7.50	7.98	6.59	7.05	7.06	7.50	7.98
	8H	6.92	7.36	7.40	7.81	8.28	6.92	7.36	7.40	7.81	8.28
	12H	7.16	7.53	7.65	8.02	8.50	7.16	7.53	7.65	8.02	8.50
8H	4H	6.08	6.52	6.56	6.97	7.44	6.08	6.52	6.56	6.97	7.44
	6H	6.91	7.25	7.42	7.75	8.24	6.91	7.25	7.42	7.75	8.24
	8H	7.40	7.70	7.93	8.22	8.72	7.40	7.70	7.93	8.22	8.72
	12H	7.78	8.04	8.31	8.54	9.12	7.78	8.04	8.31	8.54	9.12
12H	4H	6.09	6.46	6.59	6.95	7.43	6.09	6.46	6.59	6.95	7.43
	6H	6.99	7.29	7.52	7.81	8.31	6.99	7.29	7.52	7.81	8.31
	8H	7.56	7.82	8.08	8.31	8.90	7.56	7.82	8.08	8.31	8.90