

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: P979315

Luminaire Tested: PRLX-CYL6-927-48L-FL-U-S-X-X-WHTE

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979315
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL6-927-48L-FL-U-S-X-X-WHTE
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE BLACK TRIM WITH FLOOD OPTIC
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

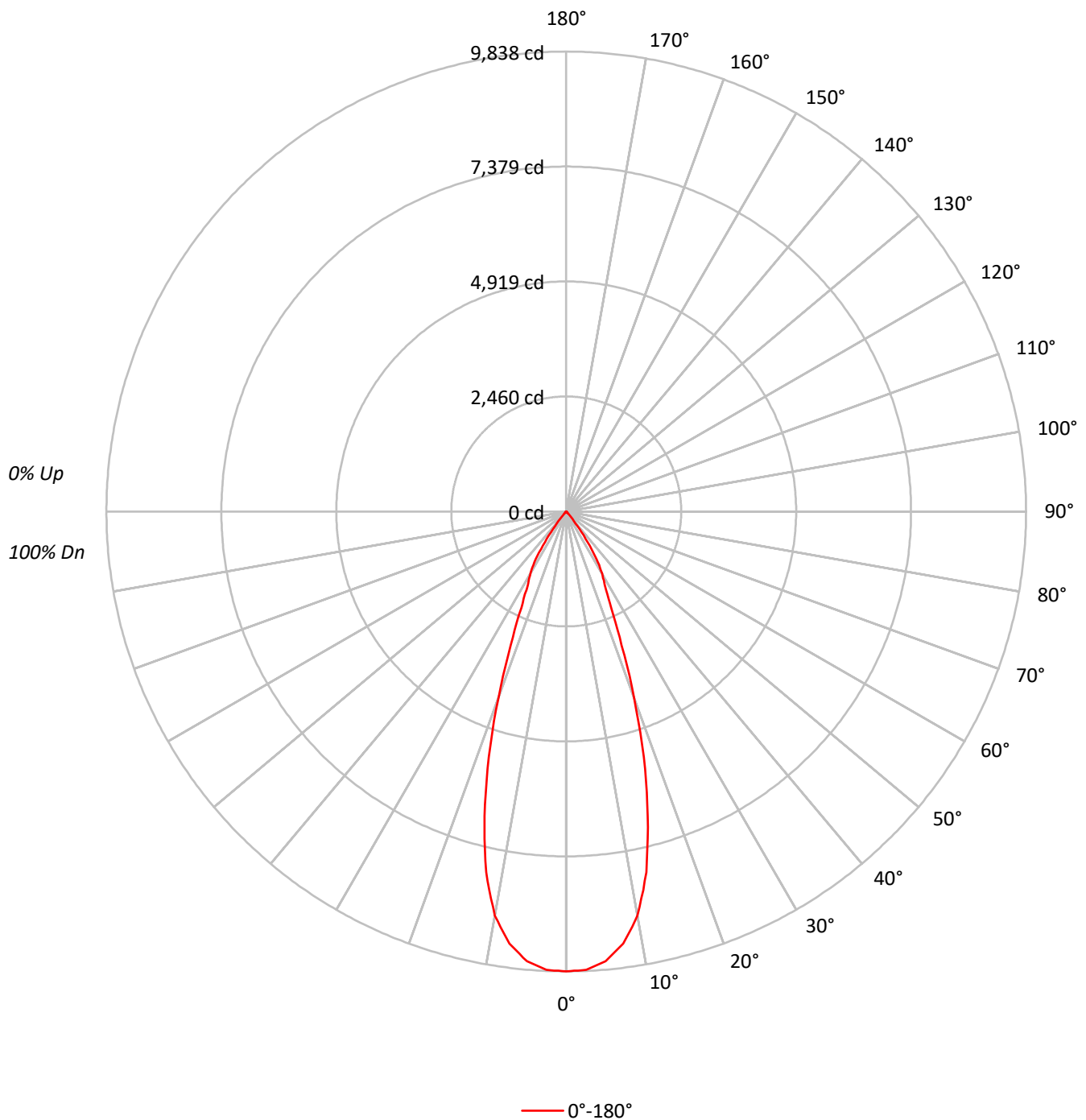
Lumens per Lamp: N/A
Luminaire Lumens: 4364.4 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.62 / 0.58
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 33.5
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: P979315

CATALOG NUMBER: PRLX-CYL6-927-48L-FL-U-S-X-X-WHTE

Luminous Intensity Polar Plot



TEST NUMBER: P979315

CATALOG NUMBER: PRLX-CYL6-927-48L-FL-U-S-X-X-WHTE

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	100	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	102	95	91	87	100	94	90	87	92	89	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	78	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	71	68	74	70	67	73	70	67
10	81	73	68	65	80	73	68	65	72	68	65	71	67	65	71	67	65

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	99062
5°	97578
10°	89818
15°	70364
20°	45278
25°	25225
30°	17816
35°	9777
40°	1174
45°	377
50°	197
55°	147
60°	85
65°	67
70°	82
75°	54
80°	81
85°	162

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 377 cd/sqm

TEST NUMBER: P979315

CATALOG NUMBER: PRLX-CYL6-927-48L-FL-U-S-X-X-WHTE

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	894.0	20.5
10°-20°	1823.0	41.8
20°-30°	1123.7	25.7
30°-40°	485.1	11.1
40°-50°	25.1	0.6
50°-60°	7.2	0.2
60°-70°	2.9	0.1
70°-80°	2.0	0.0
80°-90°	1.3	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°	3840.7	88.0
0°-40°	4325.8	99.1
0°-60°	4358.1	99.9
0°-90°	4364.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4364.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9838	
5°	9654	894
15°	6750	1823
25°	2270	1124
35°	795	485
45°	26	25
55°	8	7
65°	3	3
75°	1	2
85°	1	1
90°	0	

TEST NUMBER: P979315

CATALOG NUMBER: PRLX-CYL6-927-48L-FL-U-S-X-X-WHTE

CANDELA DISTRIBUTION (FULL):

0°	
0°	9838.3
2.5°	9813.2
5°	9654.1
7.5°	9323.4
10°	8784.7
12.5°	7908.4
15°	6750.1
17.5°	5508.1
20°	4225.6
22.5°	3096.6
25°	2270.5
27.5°	1777.9
30°	1532.3
32.5°	1216.9
35°	795.4
37.5°	385.2
40°	89.3
42.5°	37.7
45°	26.5
47.5°	18.1
50°	12.6
52.5°	9.8
55°	8.4
57.5°	5.6
60°	4.2
62.5°	2.8
65°	2.8
67.5°	2.8
70°	2.8
72.5°	2.8
75°	1.4
77.5°	1.4
80°	1.4
82.5°	1.4
85°	1.4
87.5°	1.4
90°	0.0

TEST NUMBER: P979315

CATALOG NUMBER: PRLX-CYL6-927-48L-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	0.00	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	0.00	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
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	0.00	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
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	0.00	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

END OF REPORT