

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: P979316

Luminaire Tested: PRLX-CYL6-927-48L-MD-U-S-X-X-BLAK

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL6-927-48L-MD-U-S-X-X-BLAK
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK TRIM WITH MEDIUM OPTIC
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

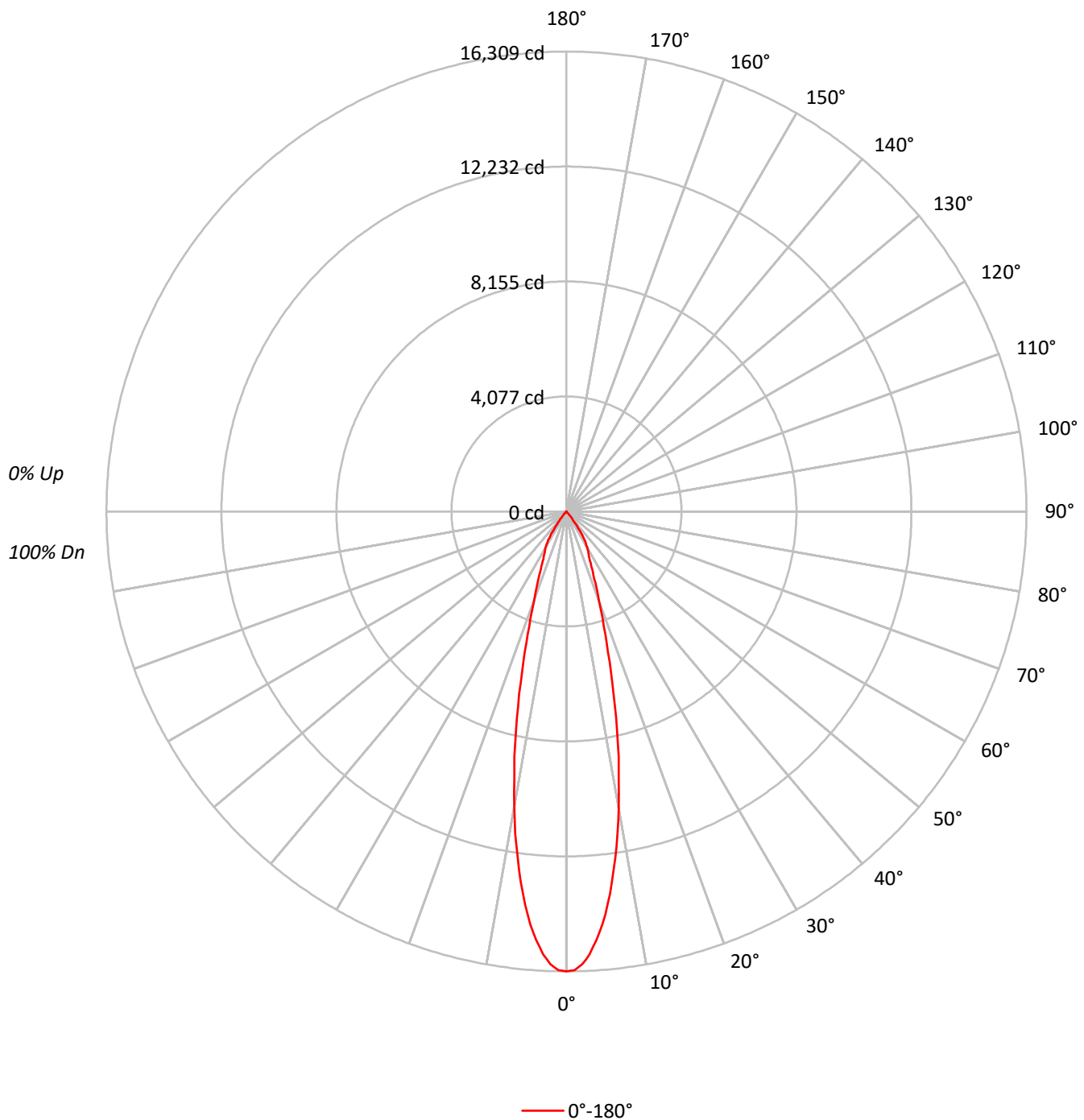
Lumens per Lamp: N/A
Luminaire Lumens: 4495.1 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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: P979316

CATALOG NUMBER: PRLX-CYL6-927-48L-MD-U-S-X-X-BLAK

Luminous Intensity Polar Plot



TEST NUMBER: P979316

CATALOG NUMBER: PRLX-CYL6-927-48L-MD-U-S-X-X-BLAK

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	112	110	109	112	110	108	107	106	105	104		103	101	100		96
2	110	107	103	101	108	105	102	99	102	99	97		99	97	95		92
3	106	101	97	94	105	100	96	94	98	95	92		95	93	91		88
4	103	97	92	89	101	96	92	89	94	90	88		92	89	87		84
5	99	93	88	85	98	92	87	84	90	86	84		88	85	83		81
6	96	89	84	81	94	88	84	80	87	83	80		85	82	79		78
7	92	85	81	77	91	85	80	77	83	80	77		82	79	76		75
8	89	82	77	74	88	82	77	74	81	77	74		80	76	74		72
9	87	79	75	71	86	79	74	71	78	74	71		77	73	71		70
10	84	76	72	69	83	76	72	69	75	71	69		75	71	68		67

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	164218
5°	148554
10°	109194
15°	65476
20°	36111
25°	22512
30°	17118
35°	9709
40°	1504
45°	219
50°	88
55°	49
60°	28
65°	0
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 219 cd/sqm

TEST NUMBER: P979316

CATALOG NUMBER: PRLX-CYL6-927-48L-MD-U-S-X-X-BLAK

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1270.3	28.3
10°-20°	1741.7	38.7
20°-30°	978.7	21.8
30°-40°	480.2	10.7
40°-50°	20.8	0.5
50°-60°	3.0	0.1
60°-70°	0.5	0.0
70°-80°	0.0	0.0
80°-90°	0.0	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°	3990.7	88.8
0°-40°	4470.9	99.5
0°-60°	4494.6	100.0
0°-90°	4495.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4495.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16309	
5°	14698	###
15°	6281	1742
25°	2026	979
35°	790	480
45°	15	21
55°	3	3
65°	0	1
75°	0	0
85°	0	0
90°	0	

TEST NUMBER: P979316

CATALOG NUMBER: PRLX-CYL6-927-48L-MD-U-S-X-X-BLAK

CANDELA DISTRIBUTION (FULL):

0°	
0°	16309.3
1°	16274.4
2°	16069.3
3°	15726.0
4°	15238.9
5°	14697.5
6°	14012.3
7°	13250.3
8°	12411.6
9°	11591.1
10°	10679.8
11°	9703.0
12°	8897.8
13°	7953.0
14°	7093.4
15°	6281.2
16°	5545.7
17°	4874.5
18°	4271.6
19°	3813.9
20°	3370.1
21°	3029.6
22.5°	2592.9
23°	2449.1
24°	2230.0
25°	2026.3
26°	1868.6
27°	1744.4
28°	1643.9
29°	1561.6
30°	1472.3
32.5°	1184.8
35°	789.9
37.5°	401.9
40°	114.4
42.5°	26.5
45°	15.4
47.5°	9.8
50°	5.6
52.5°	4.2
55°	2.8
57.5°	2.8
60°	1.4
62.5°	1.4
65°	0.0

TEST NUMBER: P979316

CATALOG NUMBER: PRLX-CYL6-927-48L-MD-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

TEST NUMBER: P979316

CATALOG NUMBER: PRLX-CYL6-927-48L-MD-U-S-X-X-BLAK

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