

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: P979317

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

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-3)
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-WHTE
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE TRIM WITH MEDIUM OPTIC
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

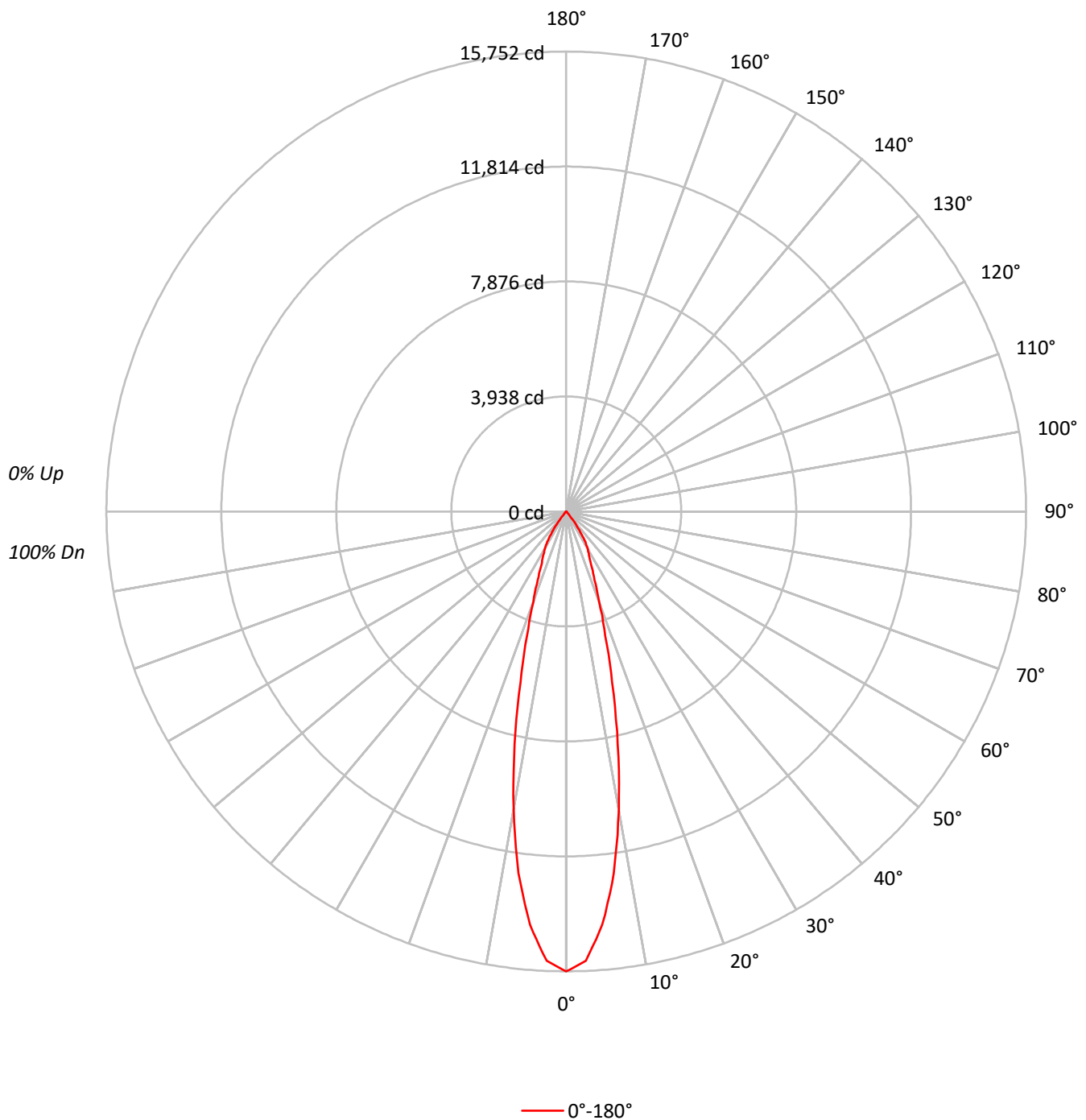
Lumens per Lamp: N/A
Luminaire Lumens: 4422.1 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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: P979317

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

Luminous Intensity Polar Plot



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	158612
5°	143604
10°	105998
15°	63149
20°	35349
25°	22218
30°	16939
35°	9641
40°	1651
45°	298
50°	154
55°	123
60°	85
65°	67
70°	82
75°	109
80°	81
85°	162

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 87.5°
Luminance: 323 cd/sqm

TEST NUMBER: P979317

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1233.6	27.9
10°-20°	1703.7	38.5
20°-30°	970.6	21.9
30°-40°	476.0	10.8
40°-50°	24.9	0.6
50°-60°	6.2	0.1
60°-70°	3.3	0.1
70°-80°	2.4	0.1
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°	3908.0	88.4
0°-40°	4383.9	99.1
0°-60°	4415.1	99.8
0°-90°	4422.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4422.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15752	
5°	14208	###
15°	6058	1704
25°	2000	971
35°	784	476
45°	21	25
55°	7	6
65°	3	3
75°	3	2
85°	1	1
90°	0	

TEST NUMBER: P979317

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

CANDELA DISTRIBUTION (FULL):

	0°
0°	15752.5
2.5°	15398.1
5°	14207.7
7.5°	12492.6
10°	10367.2
12.5°	8160.9
15°	6057.9
17.5°	4457.3
20°	3299.0
22.5°	2537.0
25°	1999.8
27.5°	1683.0
30°	1456.9
32.5°	1170.8
35°	784.3
37.5°	394.9
40°	125.6
42.5°	32.1
45°	20.9
47.5°	12.6
50°	9.8
52.5°	8.4
55°	7.0
57.5°	5.6
60°	4.2
62.5°	4.2
65°	2.8
67.5°	2.8
70°	2.8
72.5°	2.8
75°	2.8
77.5°	1.4
80°	1.4
82.5°	1.4
85°	1.4
87.5°	1.4
90°	0.0

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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