

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: P979337

Luminaire Tested: PRLX-CYL6-927-74L-MD-U-S-X-X-WHTE

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979337
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-CYL6-927-74L-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

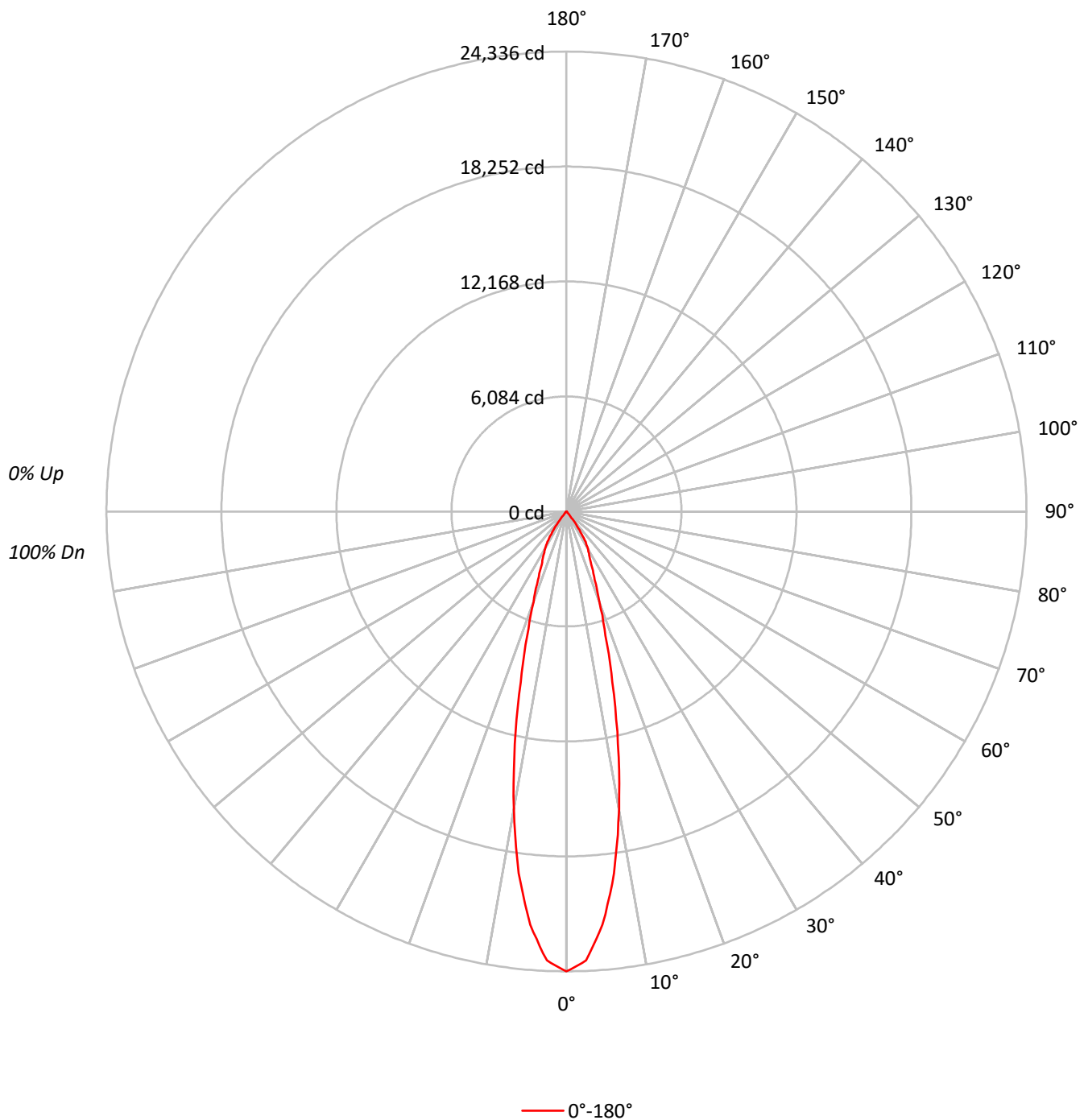
Lumens per Lamp: N/A
Luminaire Lumens: 6831.7 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 61.5
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

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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		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	112	110	108	112	110	108	107	106	105	103		103	101	100		99
2	110	106	103	100	108	105	102	99	102	99	97		99	97	95		96
3	106	101	97	94	104	100	96	93	97	94	92		95	93	90		93
4	102	96	92	89	101	95	91	88	93	90	87		92	89	86		90
5	99	92	88	84	97	91	87	84	90	86	83		88	85	83		87
6	95	88	84	80	94	88	83	80	86	83	80		85	82	79		84
7	92	85	80	77	91	84	80	77	83	79	76		82	79	76		81
8	89	82	77	74	88	81	77	74	80	76	73		79	76	73		78
9	86	79	74	71	85	78	74	71	77	74	71		77	73	71		76
10	84	76	72	69	83	76	71	68	75	71	68		74	71	68		74

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	245040
5°	221854
10°	163757
15°	97559
20°	54611
25°	34323
30°	26169
35°	14893
40°	2550
45°	460
50°	237
55°	190
60°	131
65°	102
70°	127
75°	167
80°	128
85°	254

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 87.5°
Luminance: 508 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1905.8	27.9
10°-20°	2632.1	38.5
20°-30°	1499.5	21.9
30°-40°	735.3	10.8
40°-50°	38.5	0.6
50°-60°	9.6	0.1
60°-70°	5.1	0.1
70°-80°	3.7	0.1
80°-90°	2.1	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°	6037.4	88.4
0°-40°	6772.7	99.1
0°-60°	6820.8	99.8
0°-90°	6831.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6831.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	24336	
5°	21950	###
15°	9359	2632
25°	3089	1500
35°	1212	735
45°	32	38
55°	11	10
65°	4	5
75°	4	4
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	24336.1
2.5°	23788.5
5°	21949.5
7.5°	19299.8
10°	16016.4
12.5°	12607.8
15°	9358.9
17.5°	6886.0
20°	5096.6
22.5°	3919.5
25°	3089.4
27.5°	2600.0
30°	2250.8
32.5°	1808.8
35°	1211.6
37.5°	610.1
40°	194.0
42.5°	49.6
45°	32.3
47.5°	19.4
50°	15.1
52.5°	12.9
55°	10.8
57.5°	8.6
60°	6.5
62.5°	6.5
65°	4.3
67.5°	4.3
70°	4.3
72.5°	4.3
75°	4.3
77.5°	2.2
80°	2.2
82.5°	2.2
85°	2.2
87.5°	2.2
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