

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: P979297

Luminaire Tested: PRLX-CYL6-927-31L-MD-U-S-X-X-WHTE

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979297
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-CYL6-927-31L-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

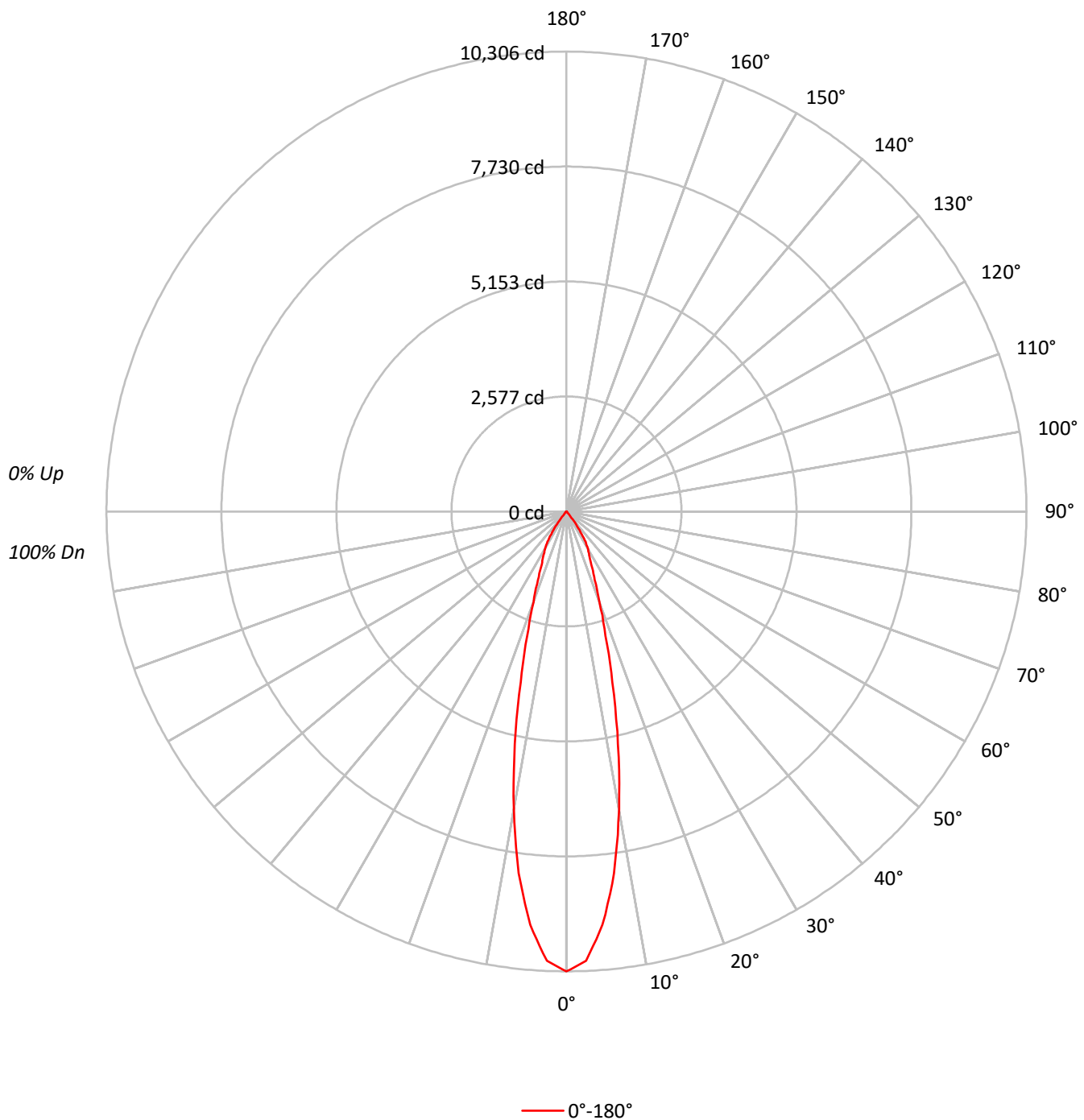
Lumens per Lamp: N/A
Luminaire Lumens: 2893.1 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 20.6
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		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°	103774
5°	93955
10°	69351
15°	41316
20°	23128
25°	14536
30°	11083
35°	6307
40°	1080
45°	195
50°	100
55°	81
60°	54
65°	43
70°	53
75°	70
80°	52
85°	104

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 87.5°
Luminance: 208 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	807.1	27.9
10°-20°	1114.7	38.5
20°-30°	635.1	22.0
30°-40°	311.4	10.8
40°-50°	16.3	0.6
50°-60°	4.1	0.1
60°-70°	2.1	0.1
70°-80°	1.5	0.1
80°-90°	0.9	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°	2556.9	88.4
0°-40°	2868.3	99.1
0°-60°	2888.6	99.8
0°-90°	2893.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2893.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10306	
5°	9296	807
15°	3964	1115
25°	1308	635
35°	513	311
45°	14	16
55°	5	4
65°	2	2
75°	2	2
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	10306.3
2.5°	10074.4
5°	9295.6
7.5°	8173.5
10°	6782.9
12.5°	5339.4
15°	3963.5
17.5°	2916.2
20°	2158.4
22.5°	1659.9
25°	1308.4
27.5°	1101.1
30°	953.2
32.5°	766.0
35°	513.1
37.5°	258.4
40°	82.2
42.5°	21.0
45°	13.7
47.5°	8.2
50°	6.4
52.5°	5.5
55°	4.6
57.5°	3.7
60°	2.7
62.5°	2.7
65°	1.8
67.5°	1.8
70°	1.8
72.5°	1.8
75°	1.8
77.5°	0.9
80°	0.9
82.5°	0.9
85°	0.9
87.5°	0.9
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