

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: P979309

Luminaire Tested: PRLX-CYL6-927-43L-WD-U-S-X-X-WHTE

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL6-927-43L-WD-U-S-X-X-WHTE
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE TRIM WITH WIDE FLOOD OPTIC
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

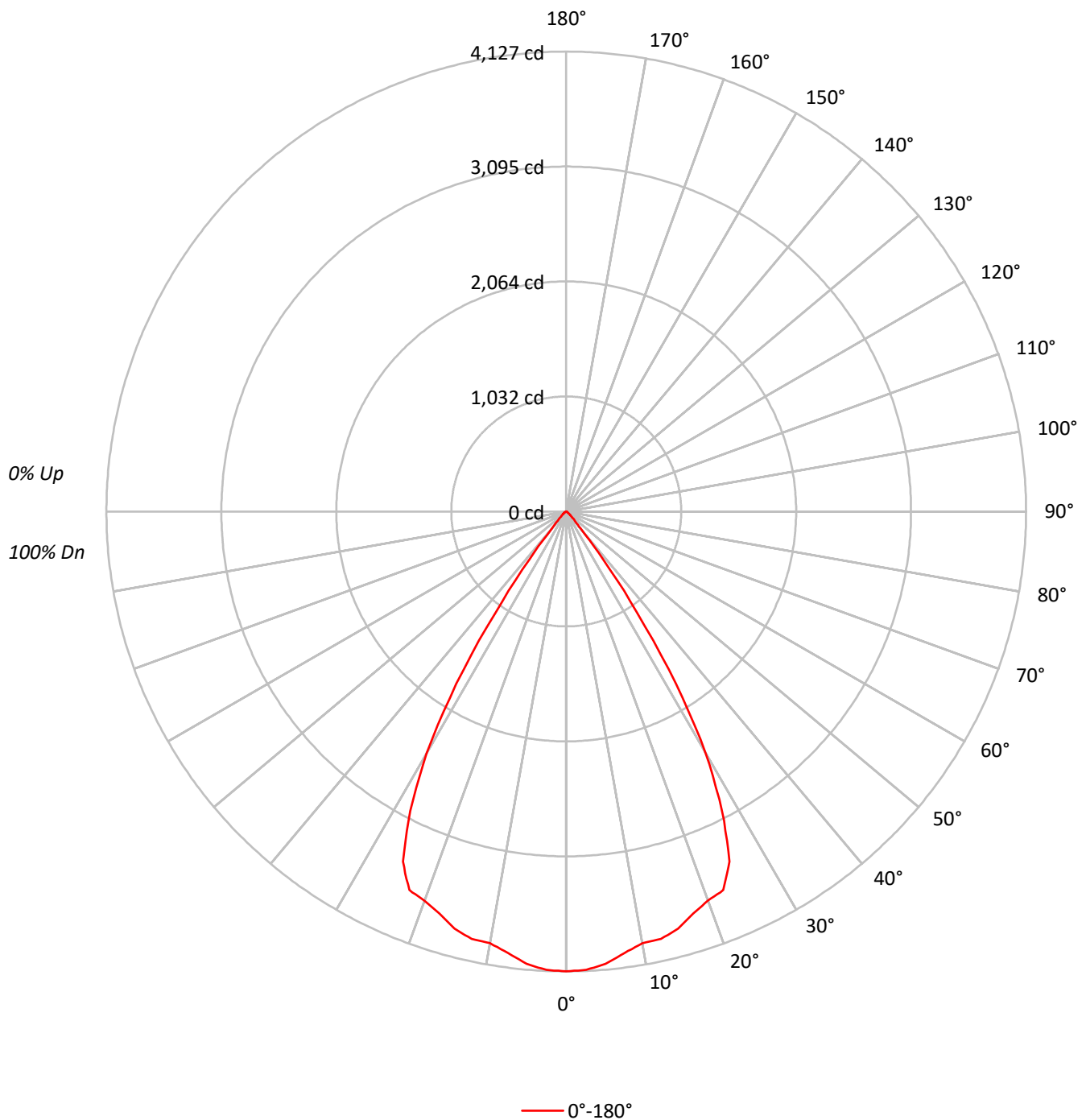
Lumens per Lamp: N/A
Luminaire Lumens: 3824.3 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.05 / 0.91
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 29.5
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	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	102	102	102	100								
1	114	111	109	106	111	109	107	105	105	103	102	101	100	98	98	97	96	94								
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88								
3	103	97	92	88	101	96	91	88	93	89	86	91	87	85	88	86	84	82								
4	98	91	86	82	96	90	85	81	88	83	80	86	82	79	84	81	78	77								
5	93	85	80	76	92	84	79	75	83	78	75	81	77	74	79	76	73	72								
6	89	80	75	70	87	80	74	70	78	73	70	77	72	69	75	72	69	67								
7	85	76	70	66	83	75	70	66	74	69	65	73	68	65	71	68	65	63								
8	81	71	66	62	79	71	65	62	70	65	61	69	64	61	68	64	61	59								
9	77	68	62	58	76	67	62	58	66	61	58	65	61	57	64	60	57	56								
10	73	64	58	55	72	64	58	54	63	58	54	62	57	54	61	57	54	53								

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	41552
5°	41191
10°	40220
15°	40406
20°	39830
25°	38515
30°	29138
35°	13608
40°	2568
45°	1088
50°	569
55°	374
60°	252
65°	150
70°	185
75°	195
80°	220
85°	289

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1088 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.8	10.0
10°-20°	1088.9	28.5
20°-30°	1520.6	39.8
30°-40°	729.2	19.1
40°-50°	67.2	1.8
50°-60°	19.3	0.5
60°-70°	7.6	0.2
70°-80°	5.3	0.1
80°-90°	2.2	0.1
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°	2993.3	78.3
0°-40°	3722.6	97.3
0°-60°	3809.1	99.6
0°-90°	3824.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3824.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4127	
5°	4075	384
15°	3876	1089
25°	3467	1521
35°	1107	729
45°	76	67
55°	21	19
65°	6	8
75°	5	5
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	4126.7
2.5°	4116.7
5°	4075.3
7.5°	3995.2
10°	3933.8
12.5°	3928.8
15°	3876.2
17.5°	3784.8
20°	3717.1
22.5°	3678.3
25°	3466.7
27.5°	3029.6
30°	2506.1
32.5°	1834.8
35°	1107.1
37.5°	539.8
40°	195.4
42.5°	110.2
45°	76.4
47.5°	52.6
50°	36.3
52.5°	26.3
55°	21.3
57.5°	15.0
60°	12.5
62.5°	8.8
65°	6.3
67.5°	6.3
70°	6.3
72.5°	5.0
75°	5.0
77.5°	5.0
80°	3.8
82.5°	2.5
85°	2.5
87.5°	1.3
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	0.01	0.00	0.00	0.00	0.00	0.01
	12H	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.32
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	0.18	0.00	0.00	0.00	0.00	0.18
	8H	0.00	0.00	0.00	0.03	0.52	0.00	0.00	0.00	0.03	0.52
	12H	0.00	0.00	0.22	0.45	1.03	0.00	0.00	0.22	0.45	1.03
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	0.24	0.00	0.00	0.00	0.00	0.24
	8H	0.00	0.00	0.00	0.10	0.68	0.00	0.00	0.00	0.10	0.68

END OF REPORT