

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: P979545

Luminaire Tested: PRLX-CYL6-940-43L-FL-U-S-X-X-WHTE

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL6-940-43L-FL-U-S-X-X-WHTE
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE BLACK TRIM WITH FLOOD OPTIC
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

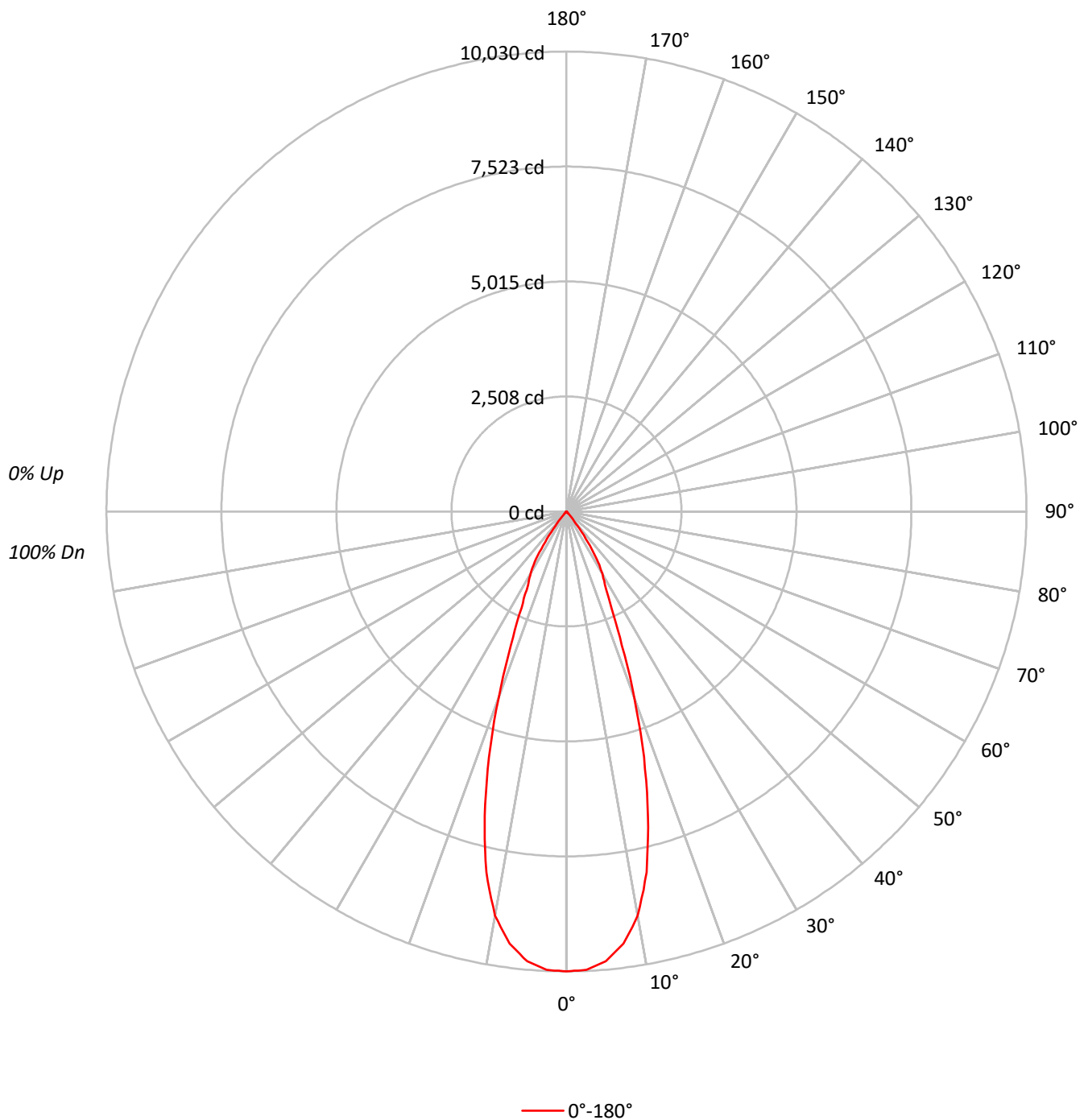
Lumens per Lamp: N/A
Luminaire Lumens: 4449.3 lumens
Efficiency: N/A
Efficacy: 150.8 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.62 / 0.58
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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
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	114	112	110	108	112	110	108	106	106	104	103		102	101	100		95
2	110	106	102	100	108	104	101	98	101	98	96		98	96	94		91
3	106	100	96	93	104	99	95	92	96	93	91		94	91	89		86
4	102	95	91	87	100	94	90	87	92	89	86		90	87	85		82
5	98	91	86	82	96	90	85	82	88	84	81		87	83	81		79
6	94	87	82	78	93	86	81	78	84	80	77		83	80	77		75
7	90	83	78	74	89	82	78	74	81	77	74		80	76	73		72
8	87	79	74	71	86	79	74	71	78	74	71		77	73	70		69
9	84	76	71	68	83	76	71	68	75	71	68		74	70	67		66
10	81	73	68	65	80	73	68	65	72	68	65		71	67	65		64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	100992
5°	99480
10°	91567
15°	71734
20°	46160
25°	25716
30°	18162
35°	9968
40°	1197
45°	384
50°	201
55°	149
60°	87
65°	67
70°	82
75°	54
80°	81
85°	162

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 384 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	911.4	20.5
10°-20°	1858.5	41.8
20°-30°	1145.6	25.7
30°-40°	494.6	11.1
40°-50°	25.6	0.6
50°-60°	7.3	0.2
60°-70°	3.0	0.1
70°-80°	2.0	0.0
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°	3915.5	88.0
0°-40°	4410.1	99.1
0°-60°	4443.0	99.9
0°-90°	4449.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4449.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10030	
5°	9842	911
15°	6882	1858
25°	2315	1146
35°	811	495
45°	27	26
55°	8	7
65°	3	3
75°	1	2
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	10030.0
2.5°	10004.4
5°	9842.2
7.5°	9505.0
10°	8955.8
12.5°	8062.4
15°	6881.5
17.5°	5615.4
20°	4307.9
22.5°	3156.9
25°	2314.7
27.5°	1812.5
30°	1562.1
32.5°	1240.6
35°	810.9
37.5°	392.7
40°	91.1
42.5°	38.4
45°	27.0
47.5°	18.5
50°	12.8
52.5°	10.0
55°	8.5
57.5°	5.7
60°	4.3
62.5°	2.8
65°	2.8
67.5°	2.8
70°	2.8
72.5°	2.8
75°	1.4
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