

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: P979556

Luminaire Tested: PRLX-CYL6-940-48L-MD-U-S-X-X-BLAK

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL6-940-48L-MD-U-S-X-X-BLAK
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK TRIM WITH MEDIUM OPTIC
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

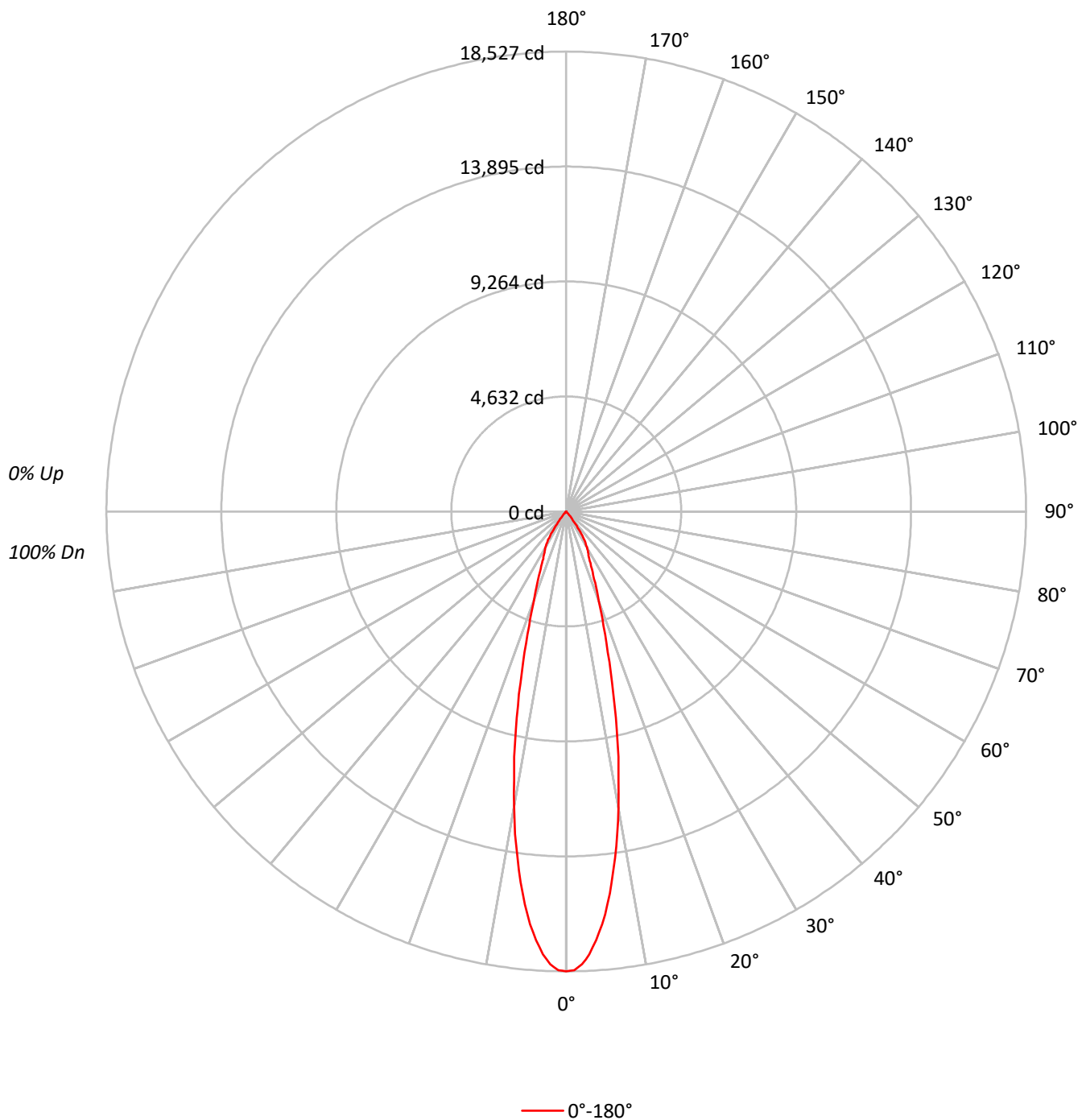
Lumens per Lamp: N/A
Luminaire Lumens: 5106.3 lumens
Efficiency: N/A
Efficacy: 152.4 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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	115	112	110	109	112	110	108	107	106	105	104	103	101	100	99	98	98	96								
2	110	107	103	101	108	105	102	99	102	99	97	99	97	95	96	95	93	92								
3	106	101	97	94	105	100	96	94	98	95	92	95	93	91	93	91	89	88								
4	103	97	92	89	101	96	92	89	94	90	88	92	89	87	90	88	86	84								
5	99	93	88	85	98	92	87	84	90	86	84	88	85	83	87	84	82	81								
6	96	89	84	81	94	88	84	80	87	83	80	85	82	79	84	81	79	78								
7	92	85	81	77	91	85	80	77	83	80	77	82	79	76	81	78	76	75								
8	89	82	77	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72								
9	87	79	75	71	86	79	74	71	78	74	71	77	73	71	76	73	71	70								
10	84	76	72	69	83	76	72	69	75	71	69	75	71	68	74	71	68	67								

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	186546
5°	168752
10°	124041
15°	74379
20°	41022
25°	25573
30°	19444
35°	11028
40°	1709
45°	248
50°	99
55°	56
60°	32
65°	0
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 248 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1443.0	28.3
10°-20°	1978.5	38.7
20°-30°	1111.7	21.8
30°-40°	545.5	10.7
40°-50°	23.6	0.5
50°-60°	3.4	0.1
60°-70°	0.6	0.0
70°-80°	0.0	0.0
80°-90°	0.0	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°	4533.3	88.8
0°-40°	5078.8	99.5
0°-60°	5105.7	100.0
0°-90°	5106.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5106.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	18527	
5°	16696	###
15°	7135	1979
25°	2302	1112
35°	897	545
45°	17	24
55°	3	3
65°	0	1
75°	0	0
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	18526.8
1°	18487.1
2°	18254.1
3°	17864.1
4°	17310.9
5°	16695.8
6°	15917.4
7°	15051.9
8°	14099.2
9°	13167.0
10°	12131.9
11°	11022.2
12°	10107.5
13°	9034.3
14°	8057.8
15°	7135.2
16°	6299.8
17°	5537.3
18°	4852.4
19°	4332.5
20°	3828.4
21°	3441.6
22.5°	2945.4
23°	2782.1
24°	2533.2
25°	2301.8
26°	2122.6
27°	1981.6
28°	1867.4
29°	1773.9
30°	1672.4
32.5°	1345.9
35°	897.2
37.5°	456.6
40°	130.0
42.5°	30.1
45°	17.4
47.5°	11.1
50°	6.3
52.5°	4.8
55°	3.2
57.5°	3.2
60°	1.6
62.5°	1.6
65°	0.0

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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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