

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: P979558

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

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979558
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL6-940-48L-WD-U-S-X-X-BLAK
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK TRIM WITH WIDE FLOOD OPTIC
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

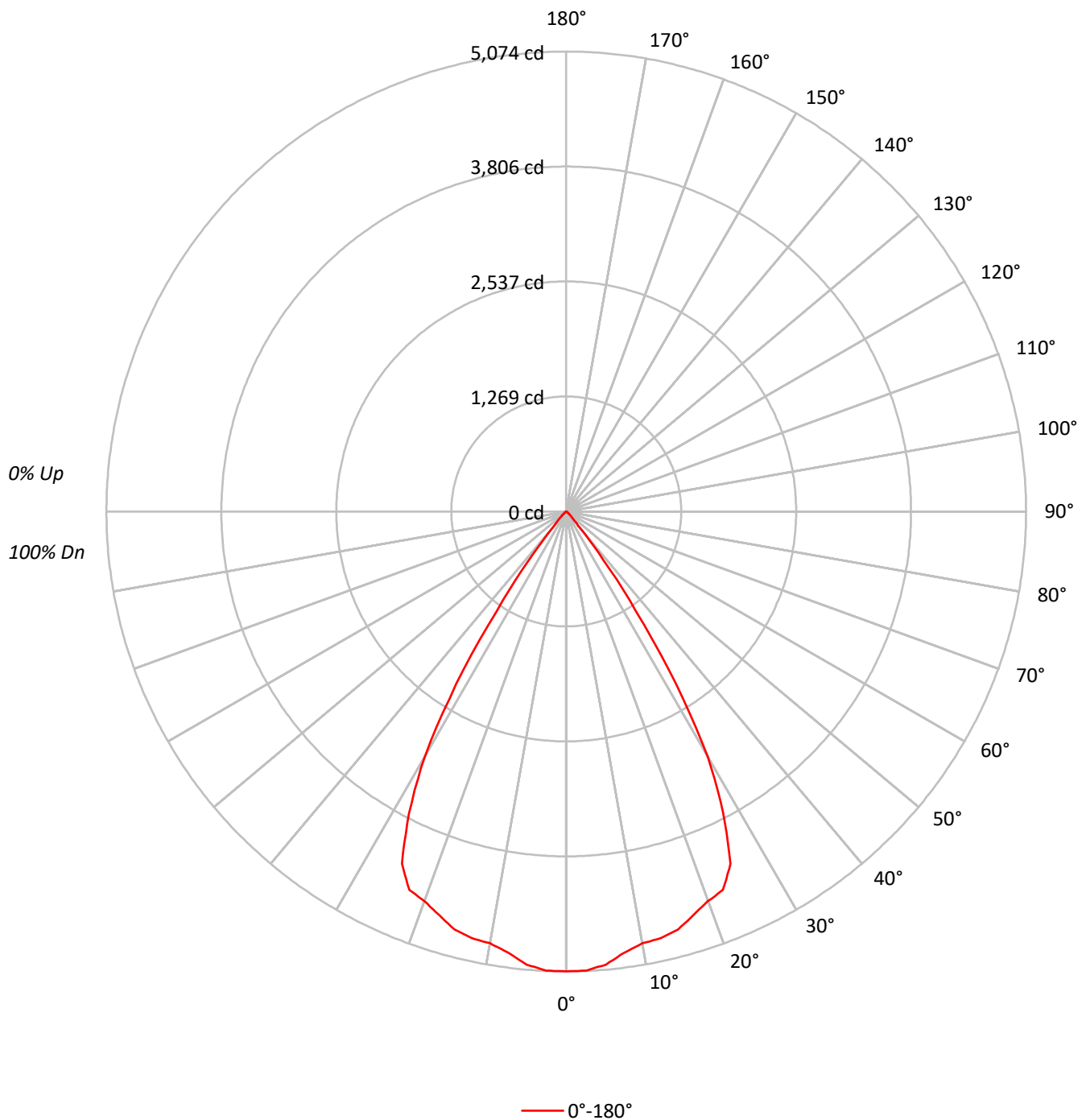
Lumens per Lamp: N/A
Luminaire Lumens: 4672.6 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.91
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10		
RCR																									
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100							
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94							
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88							
3	103	97	92	89	101	96	92	88	93	90	87	91	88	85	89	86	84	82							
4	98	91	86	82	97	90	85	81	88	84	80	86	82	80	84	81	79	77							
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72							
6	89	81	75	71	88	80	75	71	78	74	70	77	73	70	76	72	69	68							
7	85	76	70	66	84	75	70	66	74	69	66	73	69	65	72	68	65	64							
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60							
9	77	68	62	58	76	67	62	58	66	62	58	66	61	58	65	61	58	56							
10	74	64	59	55	73	64	59	55	63	58	55	62	58	55	62	57	54	53							

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	51094
5°	50712
10°	49467
15°	49757
20°	49005
25°	47640
30°	36328
35°	16427
40°	2980
45°	1106
50°	497
55°	251
60°	97
65°	0
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1106 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.1	10.1
10°-20°	1340.0	28.7
20°-30°	1879.1	40.2
30°-40°	895.5	19.2
40°-50°	71.4	1.5
50°-60°	13.5	0.3
60°-70°	1.0	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°	3691.3	79.0
0°-40°	4586.8	98.2
0°-60°	4671.6	100.0
0°-90°	4672.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4672.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5074	
5°	5017	472
15°	4773	1340
25°	4288	1879
35°	1336	896
45°	78	71
55°	14	13
65°	0	1
75°	0	0
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5074.4
2.5°	5069.6
5°	5017.3
7.5°	4907.9
10°	4838.2
12.5°	4820.7
15°	4773.2
17.5°	4667.0
20°	4573.4
22.5°	4519.5
25°	4288.1
27.5°	3755.5
30°	3124.5
32.5°	2255.8
35°	1336.4
37.5°	669.0
40°	226.7
42.5°	120.5
45°	77.7
47.5°	50.7
50°	31.7
52.5°	20.6
55°	14.3
57.5°	7.9
60°	4.8
62.5°	1.6
65°	0.0
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