

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: P979552

Luminaire Tested: PRLX-240-940-48L-F-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979552
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-940-48L-F-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 240 SHADE WITH FROSTED LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

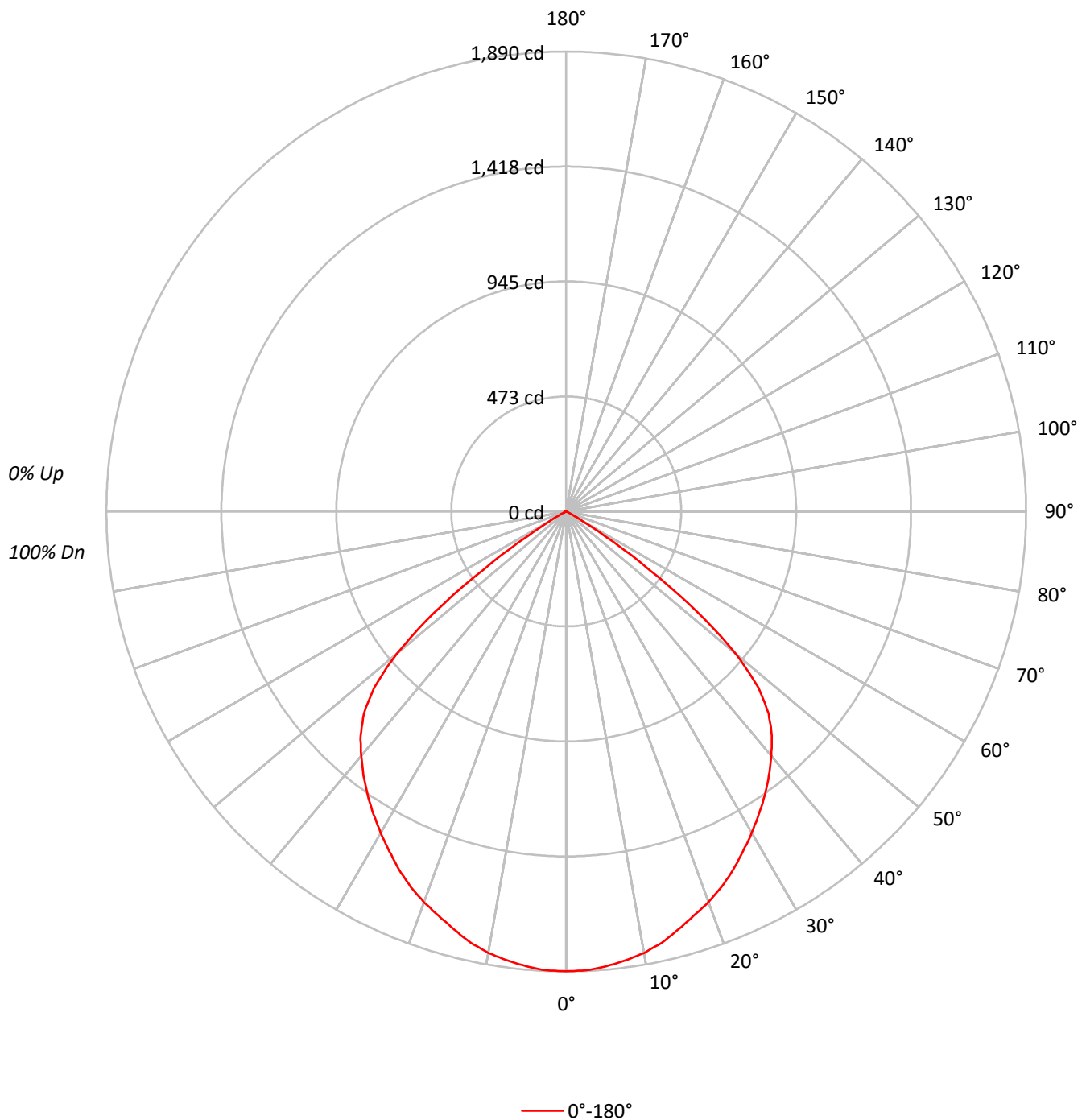
Lumens per Lamp: N/A
Luminaire Lumens: 3616.8 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.33
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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	0		
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	103	110	106	104	101	102	100	98	99	97	95	95	94	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72		
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64		
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57		
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51		
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	57	51	47	46		
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43	41		
9	64	52	45	40	63	51	44	40	50	44	39	49	43	39	48	43	39	37		
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	19026
5°	18971
10°	18834
15°	18540
20°	18311
25°	18053
30°	17731
35°	17499
40°	17232
45°	16750
50°	14278
55°	7290
60°	1182
65°	150
70°	141
75°	187
80°	186
85°	185

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 16750 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.0	4.9
10°-20°	502.0	13.9
20°-30°	747.9	20.7
30°-40°	890.1	24.6
40°-50°	888.5	24.6
50°-60°	389.7	10.8
60°-70°	13.5	0.4
70°-80°	4.9	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°	1427.9	39.5
0°-40°	2318.0	64.1
0°-60°	3596.2	99.4
0°-90°	3616.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3616.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1890	
5°	1877	178
15°	1779	502
25°	1625	748
35°	1424	890
45°	1176	889
55°	415	390
65°	6	14
75°	5	5
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1889.6
2.5°	1888.0
5°	1876.9
7.5°	1861.1
10°	1842.1
12.5°	1815.1
15°	1778.6
17.5°	1742.2
20°	1708.9
22.5°	1669.3
25°	1624.9
27.5°	1574.1
30°	1525.0
32.5°	1474.3
35°	1423.6
37.5°	1368.1
40°	1311.0
42.5°	1250.8
45°	1176.3
47.5°	1071.6
50°	911.5
52.5°	684.8
55°	415.3
57.5°	187.1
60°	58.7
62.5°	12.7
65°	6.3
67.5°	4.8
70°	4.8
72.5°	4.8
75°	4.8
77.5°	4.8
80°	3.2
82.5°	3.2
85°	1.6
87.5°	1.6
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	12.54	13.89	12.90	14.20	14.51	12.54	13.89	12.90	14.20	14.51
	3H	12.42	13.60	12.80	13.93	14.29	12.42	13.60	12.80	13.93	14.29
	4H	12.35	13.44	12.75	13.80	14.18	12.35	13.44	12.75	13.80	14.18
	6H	12.28	13.28	12.70	13.65	14.05	12.28	13.28	12.70	13.65	14.05
	8H	12.24	13.19	12.67	13.58	13.99	12.24	13.19	12.67	13.58	13.99
	12H	12.20	13.11	12.64	13.49	13.92	12.20	13.11	12.64	13.49	13.92
4H	2H	12.34	13.44	12.75	13.79	14.17	12.34	13.44	12.75	13.79	14.17
	3H	12.22	13.10	12.64	13.50	13.91	12.22	13.10	12.64	13.50	13.91
	4H	12.15	12.92	12.58	13.34	13.78	12.15	12.92	12.58	13.34	13.78
	6H	12.08	12.74	12.54	13.19	13.66	12.08	12.74	12.54	13.19	13.66
	8H	12.02	12.65	12.49	13.10	13.57	12.02	12.65	12.49	13.10	13.57
	12H	11.98	12.53	12.47	13.02	13.49	11.98	12.53	12.47	13.02	13.49
8H	4H	12.01	12.63	12.48	13.08	13.55	12.01	12.63	12.48	13.08	13.55
	6H	11.92	12.43	12.42	12.93	13.41	11.92	12.43	12.42	12.93	13.41
	8H	11.86	12.33	12.38	12.84	13.34	11.86	12.33	12.38	12.84	13.34
	12H	11.81	12.24	12.33	12.73	13.30	11.81	12.24	12.33	12.73	13.30
12H	4H	11.96	12.51	12.45	12.99	13.47	11.96	12.51	12.45	12.99	13.47
	6H	11.85	12.32	12.37	12.83	13.33	11.85	12.32	12.37	12.83	13.33
	8H	11.81	12.23	12.32	12.73	13.30	11.81	12.23	12.32	12.73	13.30