

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P980502

Luminaire Tested: PRLX-243-940-LL5-F-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P980502
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-37)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-243-940-LL5-F-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 243 SHADE WITH FROSTED LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3136.2 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.31
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

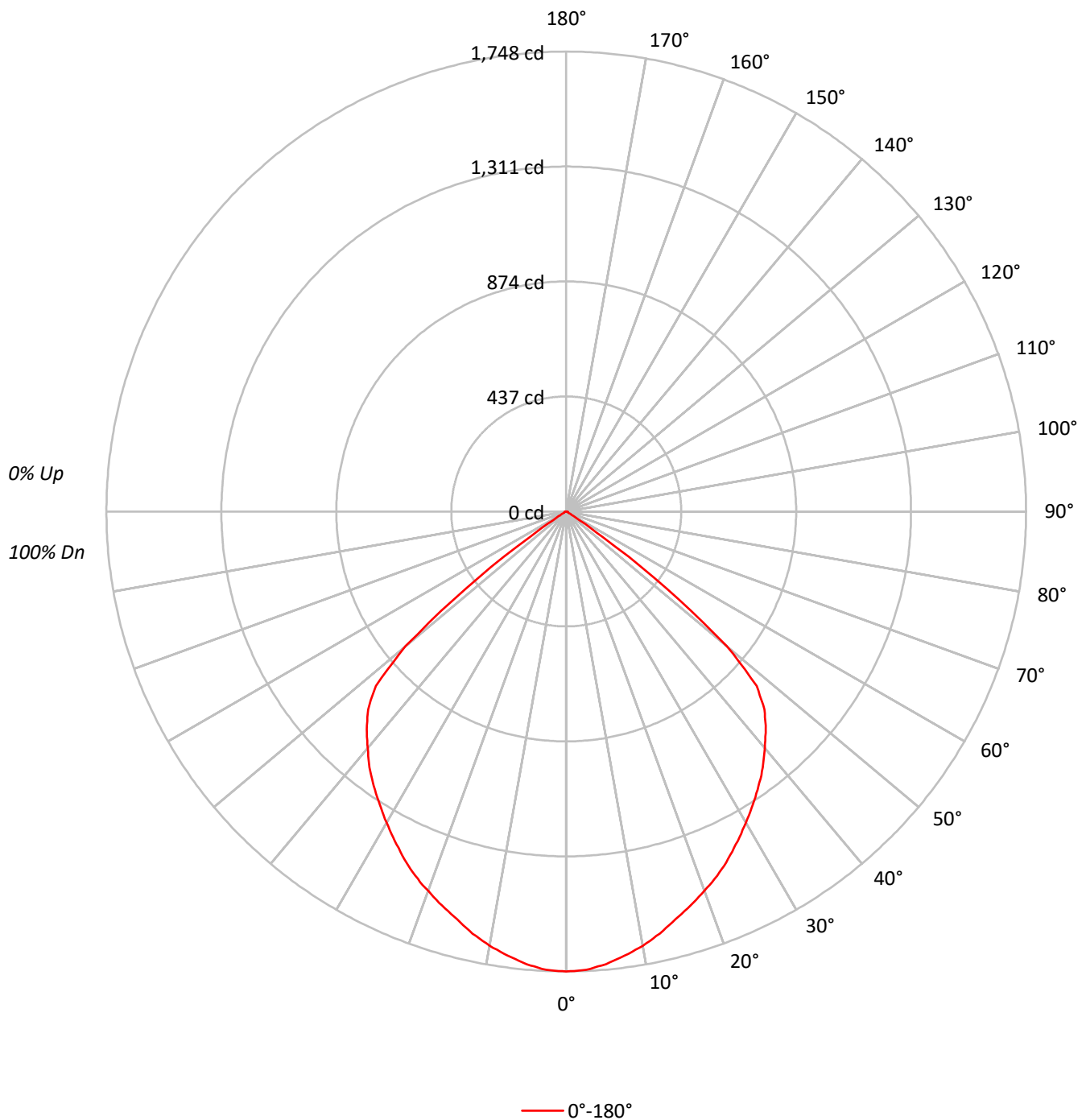
Input Watts (W): 29.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	109	106	103	110	107	104	102	103	100	98		99	97	95		95
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88
3	98	90	84	79	96	88	83	78	86	81	77		83	79	76		81
4	91	82	75	70	89	80	74	69	78	73	68		76	71	67		74
5	85	74	67	62	83	73	67	62	71	66	61		70	64	60		68
6	79	68	61	55	77	67	60	55	66	59	55		64	58	54		63
7	74	62	55	50	72	62	55	50	60	54	49		59	53	49		58
8	69	57	50	45	68	57	50	45	56	49	45		54	49	44		53
9	65	53	46	41	64	52	46	41	51	45	41		50	45	40		49
10	61	49	42	37	60	49	42	37	48	41	37		47	41	37		46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	8627
5°	8554
10°	8396
15°	8197
20°	8060
25°	7931
30°	7781
35°	7678
40°	7559
45°	7435
50°	6115
55°	1444
60°	84
65°	83
70°	102
75°	109
80°	80
85°	79

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7435 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.2	5.2
10°-20°	453.2	14.5
20°-30°	670.9	21.4
30°-40°	797.5	25.4
40°-50°	800.9	25.5
50°-60°	236.0	7.5
60°-70°	7.2	0.2
70°-80°	5.4	0.2
80°-90°	1.9	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°	1287.3	41.0
0°-40°	2084.8	66.5
0°-60°	3121.6	99.5
0°-90°	3136.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3136.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1748	
5°	1727	163
15°	1605	453
25°	1457	671
35°	1275	797
45°	1066	801
55°	168	236
65°	7	7
75°	6	5
85°	1	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1748.5
2.5°	1744.2
5°	1727.1
7.5°	1703.0
10°	1675.9
12.5°	1643.2
15°	1604.8
17.5°	1570.6
20°	1535.1
22.5°	1499.5
25°	1456.8
27.5°	1411.3
30°	1365.8
32.5°	1320.3
35°	1274.7
37.5°	1227.8
40°	1173.7
42.5°	1122.5
45°	1065.6
47.5°	981.7
50°	796.7
52.5°	480.9
55°	167.9
57.5°	32.7
60°	8.5
62.5°	7.1
65°	7.1
67.5°	7.1
70°	7.1
72.5°	5.7
75°	5.7
77.5°	4.3
80°	2.8
82.5°	2.8
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	0.07	0.39	0.00	0.00	0.00	0.07	0.39
	3H	0.00	0.00	0.00	0.13	0.50	0.00	0.00	0.00	0.13	0.50
	4H	0.00	0.00	0.00	0.23	0.61	0.00	0.00	0.00	0.23	0.61
	6H	0.00	0.00	0.00	0.26	0.66	0.00	0.00	0.00	0.26	0.66
	8H	0.00	0.00	0.00	0.28	0.68	0.00	0.00	0.00	0.28	0.68
	12H	0.00	0.00	0.00	0.25	0.68	0.00	0.00	0.00	0.25	0.68
4H	2H	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.13
	3H	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.34
	4H	0.00	0.00	0.00	0.13	0.57	0.00	0.00	0.00	0.13	0.57
	6H	0.00	0.00	0.00	0.24	0.71	0.00	0.00	0.00	0.24	0.71
	8H	0.00	0.00	0.00	0.29	0.76	0.00	0.00	0.00	0.29	0.76
	12H	0.00	0.00	0.00	0.31	0.79	0.00	0.00	0.00	0.31	0.79
8H	4H	0.00	0.00	0.00	0.04	0.51	0.00	0.00	0.00	0.04	0.51
	6H	0.00	0.00	0.00	0.23	0.71	0.00	0.00	0.00	0.23	0.71
	8H	0.00	0.00	0.00	0.35	0.85	0.00	0.00	0.00	0.35	0.85
	12H	0.00	0.00	0.01	0.40	0.97	0.00	0.00	0.01	0.40	0.97
12H	4H	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.45
	6H	0.00	0.00	0.00	0.19	0.68	0.00	0.00	0.00	0.19	0.68
	8H	0.00	0.00	0.00	0.32	0.89	0.00	0.00	0.00	0.32	0.89

END OF REPORT