

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: P980432

Luminaire Tested: PRLX-243-935-48L-F-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980432
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-243-935-48L-F-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 243 SHADE WITH FROSTED LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

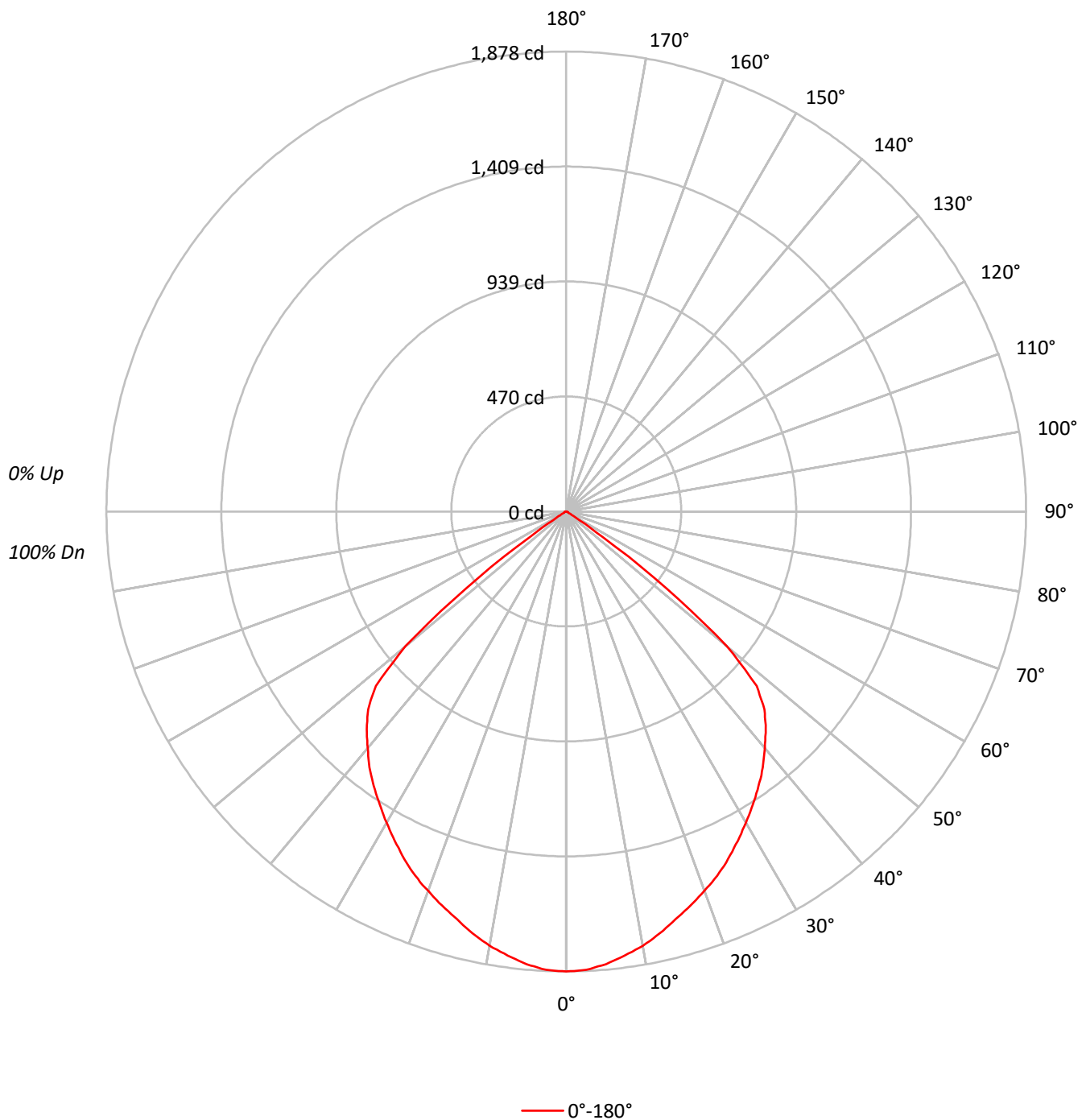
Lumens per Lamp: N/A
Luminaire Lumens: 3369.3 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.31
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 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
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°	9268
5°	9190
10°	9020
15°	8806
20°	8659
25°	8520
30°	8359
35°	8249
40°	8122
45°	7988
50°	6570
55°	1552
60°	91
65°	89
70°	110
75°	116
80°	88
85°	85

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7988 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.3	5.2
10°-20°	486.9	14.5
20°-30°	720.8	21.4
30°-40°	856.7	25.4
40°-50°	860.4	25.5
50°-60°	253.5	7.5
60°-70°	7.7	0.2
70°-80°	5.8	0.2
80°-90°	2.1	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°	1383.0	41.0
0°-40°	2239.7	66.5
0°-60°	3353.7	99.5
0°-90°	3369.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3369.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1878	
5°	1856	175
15°	1724	487
25°	1565	721
35°	1370	857
45°	1145	860
55°	180	254
65°	8	8
75°	6	6
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1878.4
2.5°	1873.9
5°	1855.5
7.5°	1829.5
10°	1800.5
12.5°	1765.3
15°	1724.1
17.5°	1687.4
20°	1649.2
22.5°	1611.0
25°	1565.1
27.5°	1516.2
30°	1467.3
32.5°	1418.4
35°	1369.5
37.5°	1319.0
40°	1261.0
42.5°	1205.9
45°	1144.8
47.5°	1054.6
50°	855.9
52.5°	516.6
55°	180.4
57.5°	35.2
60°	9.2
62.5°	7.6
65°	7.6
67.5°	7.6
70°	7.6
72.5°	6.1
75°	6.1
77.5°	4.6
80°	3.1
82.5°	3.1
85°	1.5
87.5°	1.5
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	0.03	0.00	0.34	0.65	0.00	0.03	0.00	0.34	0.65
	3H	0.00	0.06	0.00	0.39	0.76	0.00	0.06	0.00	0.39	0.76
	4H	0.00	0.13	0.00	0.49	0.87	0.00	0.13	0.00	0.49	0.87
	6H	0.00	0.15	0.00	0.52	0.92	0.00	0.15	0.00	0.52	0.92
	8H	0.00	0.15	0.00	0.54	0.95	0.00	0.15	0.00	0.54	0.95
	12H	0.00	0.13	0.00	0.52	0.95	0.00	0.13	0.00	0.52	0.95
4H	2H	0.00	0.00	0.00	0.01	0.39	0.00	0.00	0.00	0.01	0.39
	3H	0.00	0.00	0.00	0.19	0.60	0.00	0.00	0.00	0.19	0.60
	4H	0.00	0.00	0.00	0.38	0.83	0.00	0.00	0.00	0.38	0.83
	6H	0.00	0.05	0.00	0.50	0.97	0.00	0.05	0.00	0.50	0.97
	8H	0.00	0.11	0.00	0.56	1.03	0.00	0.11	0.00	0.56	1.03
	12H	0.00	0.10	0.05	0.58	1.06	0.00	0.10	0.05	0.58	1.06
8H	4H	0.00	0.00	0.00	0.29	0.76	0.00	0.00	0.00	0.29	0.76
	6H	0.00	0.00	0.00	0.49	0.97	0.00	0.00	0.00	0.49	0.97
	8H	0.00	0.11	0.18	0.63	1.12	0.00	0.11	0.18	0.63	1.12
	12H	0.00	0.18	0.28	0.67	1.25	0.00	0.18	0.28	0.67	1.25
12H	4H	0.00	0.00	0.00	0.23	0.70	0.00	0.00	0.00	0.23	0.70
	6H	0.00	0.00	0.00	0.45	0.94	0.00	0.00	0.00	0.45	0.94
	8H	0.00	0.10	0.21	0.60	1.17	0.00	0.10	0.21	0.60	1.17

END OF REPORT