

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: P980352

Luminaire Tested: PRLX-243-930-48L-F-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980352
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-243-930-48L-F-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 243 SHADE WITH FROSTED LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

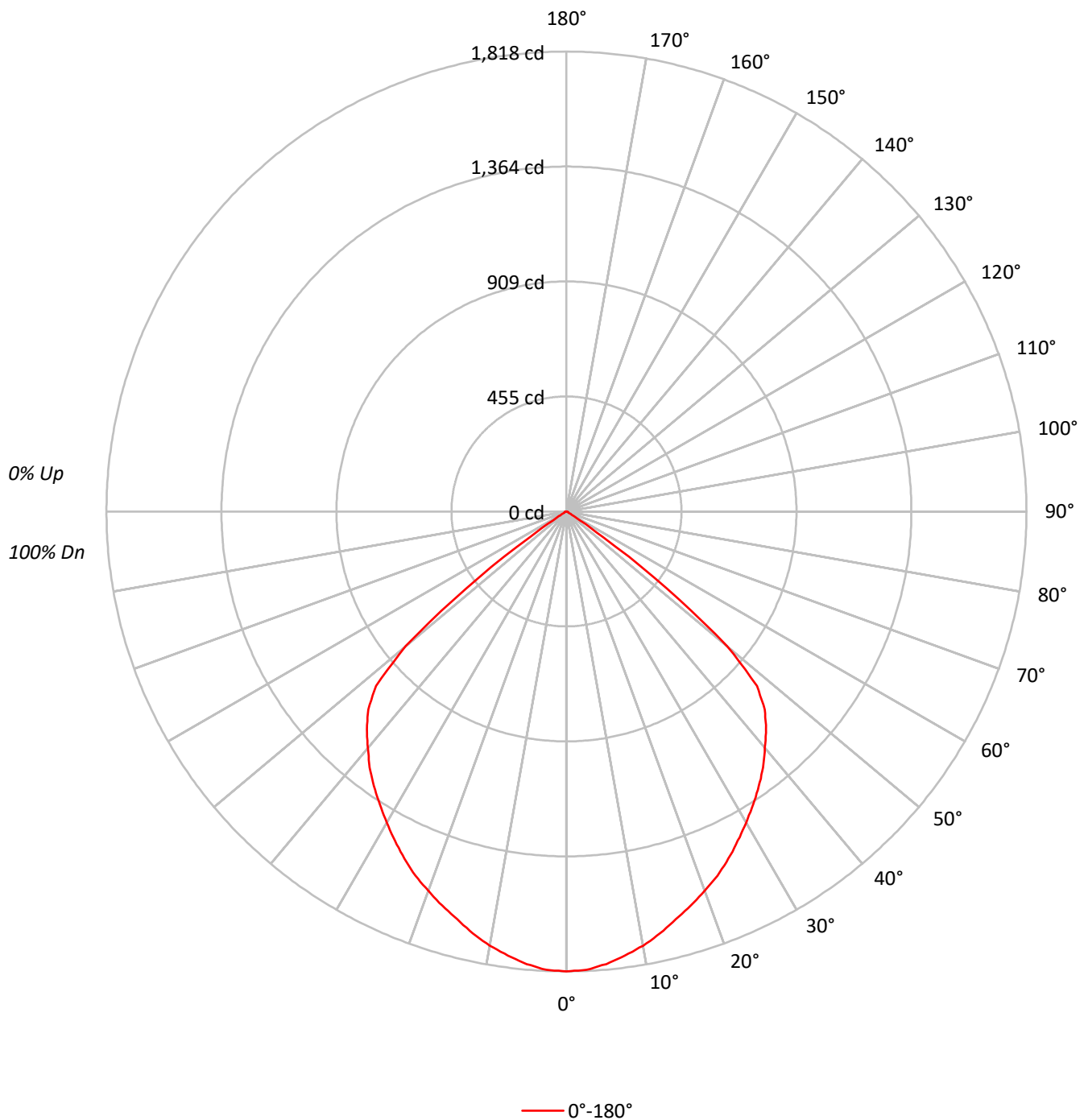
Lumens per Lamp: N/A
Luminaire Lumens: 3261.3 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.31
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	112	109	106	103	110	107	104	102	103	100	98		99	97	95		91
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		81
3	98	90	84	79	96	88	83	78	86	81	77		83	79	76		73
4	91	82	75	70	89	80	74	69	78	73	68		76	71	67		65
5	85	74	67	62	83	73	67	62	71	66	61		70	64	60		58
6	79	68	61	55	77	67	60	55	66	59	55		64	58	54		52
7	74	62	55	50	72	62	55	50	60	54	49		59	53	49		47
8	69	57	50	45	68	57	50	45	56	49	45		54	49	44		43
9	65	53	46	41	64	52	46	41	51	45	41		50	45	40		39
10	61	49	42	37	60	49	42	37	48	41	37		47	41	37		35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	8971
5°	8895
10°	8731
15°	8524
20°	8381
25°	8247
30°	8091
35°	7984
40°	7861
45°	7732
50°	6359
55°	1502
60°	88
65°	86
70°	107
75°	112
80°	85
85°	85

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7732 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.7	5.2
10°-20°	471.3	14.5
20°-30°	697.7	21.4
30°-40°	829.3	25.4
40°-50°	832.8	25.5
50°-60°	245.4	7.5
60°-70°	7.5	0.2
70°-80°	5.6	0.2
80°-90°	2.0	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°	1338.7	41.0
0°-40°	2167.9	66.5
0°-60°	3246.1	99.5
0°-90°	3261.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3261.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1818	
5°	1796	170
15°	1669	471
25°	1515	698
35°	1326	829
45°	1108	833
55°	175	245
65°	7	8
75°	6	6
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1818.2
2.5°	1813.8
5°	1796.0
7.5°	1770.9
10°	1742.8
12.5°	1708.7
15°	1668.8
17.5°	1633.3
20°	1596.3
22.5°	1559.3
25°	1514.9
27.5°	1467.6
30°	1420.2
32.5°	1372.9
35°	1325.6
37.5°	1276.7
40°	1220.5
42.5°	1167.3
45°	1108.1
47.5°	1020.8
50°	828.5
52.5°	500.0
55°	174.6
57.5°	34.0
60°	8.9
62.5°	7.4
65°	7.4
67.5°	7.4
70°	7.4
72.5°	5.9
75°	5.9
77.5°	4.4
80°	3.0
82.5°	3.0
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	0.00	0.00	0.21	0.53	0.00	0.00	0.00	0.21	0.53
	3H	0.00	0.00	0.00	0.27	0.63	0.00	0.00	0.00	0.27	0.63
	4H	0.00	0.01	0.00	0.36	0.75	0.00	0.01	0.00	0.36	0.75
	6H	0.00	0.03	0.00	0.40	0.79	0.00	0.03	0.00	0.40	0.79
	8H	0.00	0.03	0.00	0.42	0.82	0.00	0.03	0.00	0.42	0.82
	12H	0.00	0.01	0.00	0.39	0.82	0.00	0.01	0.00	0.39	0.82
4H	2H	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.26
	3H	0.00	0.00	0.00	0.07	0.48	0.00	0.00	0.00	0.07	0.48
	4H	0.00	0.00	0.00	0.26	0.71	0.00	0.00	0.00	0.26	0.71
	6H	0.00	0.00	0.00	0.38	0.85	0.00	0.00	0.00	0.38	0.85
	8H	0.00	0.00	0.00	0.43	0.91	0.00	0.00	0.00	0.43	0.91
	12H	0.00	0.00	0.00	0.46	0.94	0.00	0.00	0.00	0.46	0.94
8H	4H	0.00	0.00	0.00	0.17	0.64	0.00	0.00	0.00	0.17	0.64
	6H	0.00	0.00	0.00	0.36	0.85	0.00	0.00	0.00	0.36	0.85
	8H	0.00	0.00	0.05	0.50	0.99	0.00	0.00	0.05	0.50	0.99
	12H	0.00	0.06	0.17	0.56	1.13	0.00	0.06	0.17	0.56	1.13
12H	4H	0.00	0.00	0.00	0.11	0.58	0.00	0.00	0.00	0.11	0.58
	6H	0.00	0.00	0.00	0.33	0.82	0.00	0.00	0.00	0.33	0.82
	8H	0.00	0.00	0.08	0.47	1.04	0.00	0.00	0.08	0.47	1.04

END OF REPORT