

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: P979872

Luminaire Tested: PRLX-241-940-48L-F-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-241-940-48L-F-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 241 SHADE WITH FROSTED LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

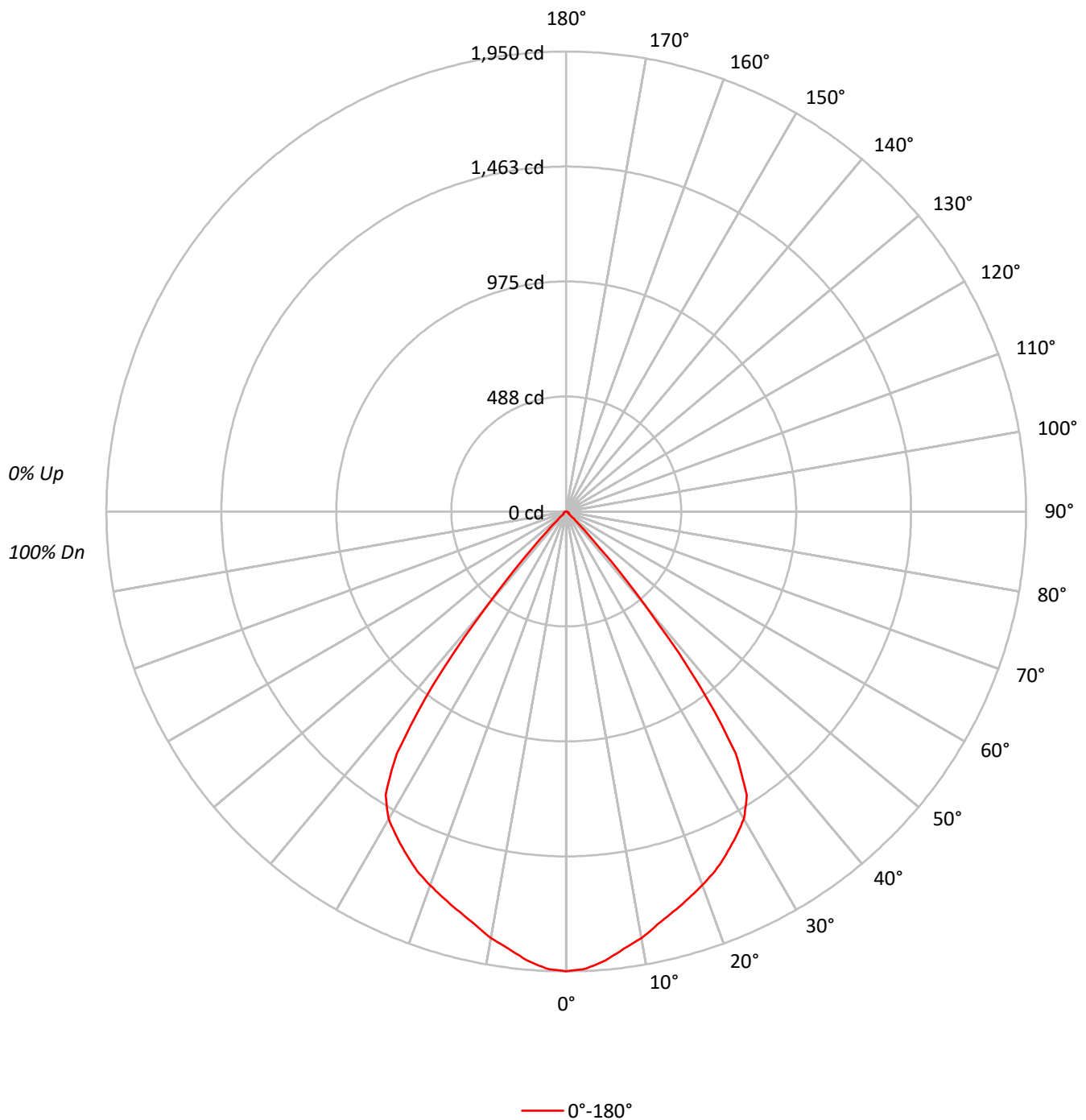
Lumens per Lamp: N/A
Luminaire Lumens: 2258.0 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.07
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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	113	110	108	105	111	108	106	104	104	102	101		100	99	98		93
2	107	102	98	95	105	101	97	93	97	94	91		94	92	89		86
3	102	95	90	86	100	93	89	85	91	87	83		88	85	82		79
4	96	88	82	78	94	87	82	77	85	80	77		83	79	76		73
5	91	82	76	71	89	81	75	71	79	74	70		78	73	70		68
6	86	77	70	66	84	76	70	65	74	69	65		73	68	65		63
7	81	71	65	61	80	71	65	61	69	64	60		68	63	60		58
8	77	67	61	56	76	66	60	56	65	60	56		64	59	56		54
9	73	63	56	52	72	62	56	52	61	56	52		60	55	52		50
10	69	59	53	49	68	58	53	49	58	52	49		57	52	48		47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	15032
5°	14782
10°	14382
15°	14019
20°	13837
25°	13646
30°	13406
35°	11785
40°	5233
45°	656
50°	152
55°	171
60°	171
65°	173
70°	142
75°	143
80°	142
85°	142

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 656 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.9	8.0
10°-20°	496.3	22.0
20°-30°	739.0	32.7
30°-40°	713.1	31.6
40°-50°	103.7	4.6
50°-60°	10.8	0.5
60°-70°	8.8	0.4
70°-80°	5.0	0.2
80°-90°	1.3	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°	1415.1	62.7
0°-40°	2128.3	94.3
0°-60°	2242.8	99.3
0°-90°	2258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2258.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1950	
5°	1910	180
15°	1756	496
25°	1604	739
35°	1252	713
45°	60	104
55°	13	11
65°	10	9
75°	5	5
85°	2	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1949.9
2.5°	1940.3
5°	1910.2
7.5°	1870.6
10°	1837.3
12.5°	1792.9
15°	1756.5
17.5°	1721.6
20°	1686.7
22.5°	1650.2
25°	1604.3
27.5°	1556.7
30°	1506.0
32.5°	1425.1
35°	1252.3
37.5°	927.4
40°	520.0
42.5°	215.6
45°	60.2
47.5°	19.0
50°	12.7
52.5°	12.7
55°	12.7
57.5°	11.1
60°	11.1
62.5°	9.5
65°	9.5
67.5°	7.9
70°	6.3
72.5°	6.3
75°	4.8
77.5°	3.2
80°	3.2
82.5°	1.6
85°	1.6
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	0.06	0.00	0.00	0.00	0.00	0.06
	12H	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.18
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	0.24	0.00	0.00	0.00	0.00	0.24
	8H	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.43
	12H	0.00	0.00	0.00	0.11	0.69	0.00	0.00	0.00	0.11	0.69
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	0.26	0.00	0.00	0.00	0.00	0.26
	8H	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	0.52

END OF REPORT