

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: P979732

Luminaire Tested: PRLX-241-930-LL8-F-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979732
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-241-930-LL8-F-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 241 SHADE WITH FROSTED LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3255.5 lumens
Efficiency: N/A
Efficacy: 52.9 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

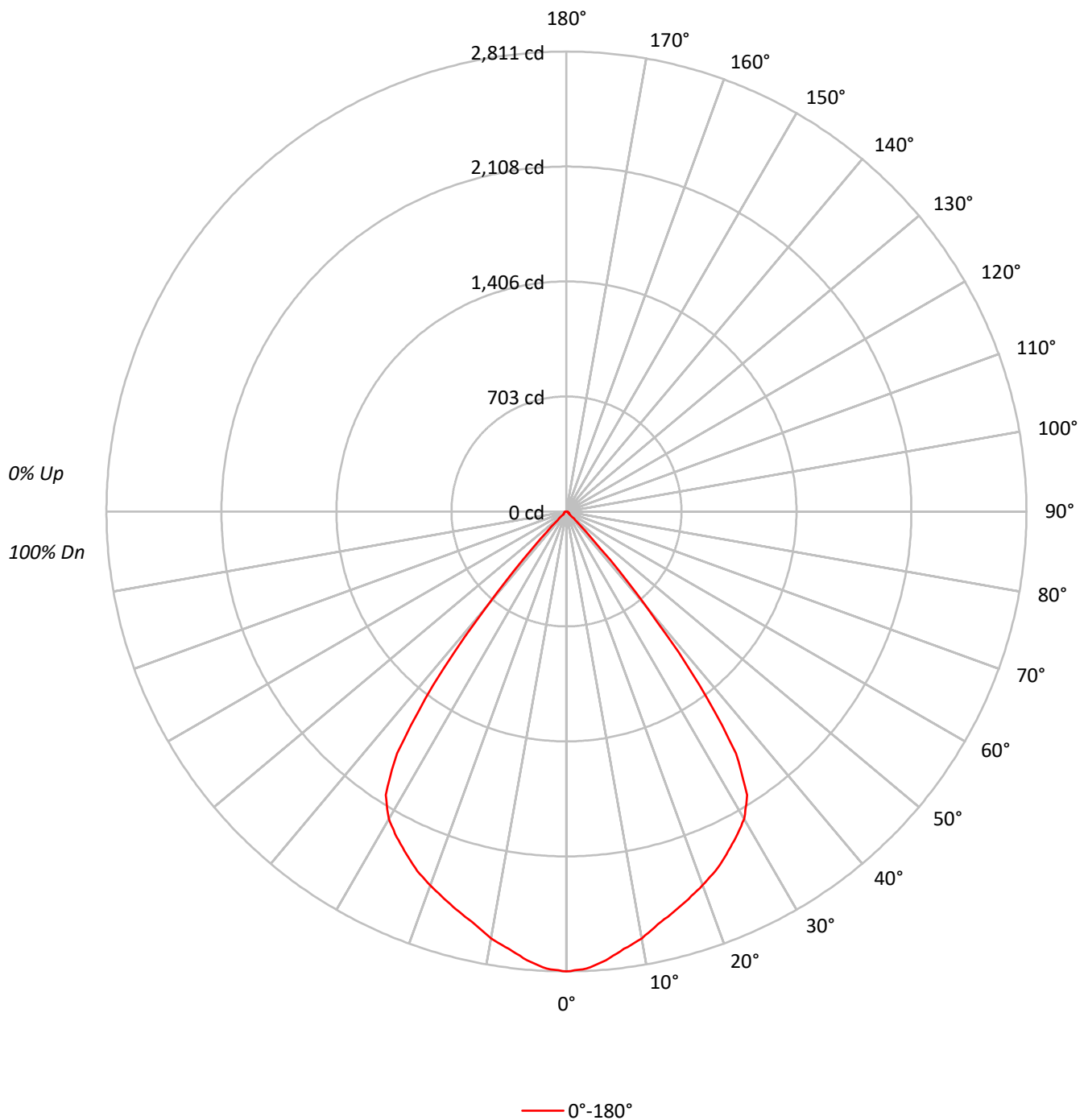
Input Watts (W): 61.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	21672
5°	21313
10°	20736
15°	20211
20°	19950
25°	19674
30°	19328
35°	16993
40°	7545
45°	947
50°	219
55°	246
60°	247
65°	250
70°	205
75°	206
80°	204
85°	203

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 947 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.4	8.0
10°-20°	715.5	22.0
20°-30°	1065.4	32.7
30°-40°	1028.2	31.6
40°-50°	149.6	4.6
50°-60°	15.6	0.5
60°-70°	12.7	0.4
70°-80°	7.2	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°	2040.3	62.7
0°-40°	3068.5	94.3
0°-60°	3233.7	99.3
0°-90°	3255.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3255.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2811	
5°	2754	259
15°	2532	716
25°	2313	1065
35°	1806	1028
45°	87	150
55°	18	16
65°	14	13
75°	7	7
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2811.2
2.5°	2797.5
5°	2754.1
7.5°	2697.0
10°	2649.0
12.5°	2585.0
15°	2532.4
17.5°	2482.1
20°	2431.8
22.5°	2379.3
25°	2313.0
27.5°	2244.4
30°	2171.3
32.5°	2054.7
35°	1805.6
37.5°	1337.1
40°	749.7
42.5°	310.8
45°	86.9
47.5°	27.4
50°	18.3
52.5°	18.3
55°	18.3
57.5°	16.0
60°	16.0
62.5°	13.7
65°	13.7
67.5°	11.4
70°	9.1
72.5°	9.1
75°	6.9
77.5°	4.6
80°	4.6
82.5°	2.3
85°	2.3
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	0.26	0.00	0.00	0.00	0.00	0.26
	8H	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.36
	12H	0.00	0.00	0.00	0.01	0.44	0.00	0.00	0.00	0.01	0.44
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	0.27	0.72	0.00	0.00	0.00	0.27	0.72
	6H	0.00	0.29	0.29	0.74	1.22	0.00	0.29	0.29	0.74	1.22
	8H	0.00	0.40	0.43	0.85	1.32	0.00	0.40	0.43	0.85	1.32
	12H	0.09	0.48	0.58	0.97	1.44	0.09	0.48	0.58	0.97	1.44
8H	4H	0.00	0.00	0.00	0.38	0.85	0.00	0.00	0.00	0.38	0.85
	6H	0.17	0.52	0.68	1.02	1.51	0.17	0.52	0.68	1.02	1.51
	8H	0.36	0.67	0.89	1.19	1.69	0.36	0.67	0.89	1.19	1.69
	12H	0.61	0.88	1.13	1.38	1.96	0.61	0.88	1.13	1.38	1.96
12H	4H	0.00	0.00	0.00	0.35	0.83	0.00	0.00	0.00	0.35	0.83
	6H	0.19	0.50	0.72	1.02	1.52	0.19	0.50	0.72	1.02	1.52
	8H	0.43	0.70	0.96	1.20	1.78	0.43	0.70	0.96	1.20	1.78

END OF REPORT