

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: P979322

Luminaire Tested: PRLX-240-927-LL7-F-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979322
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-927-LL7-F-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 240 SHADE WITH FROSTED LENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4146.7 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.33
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

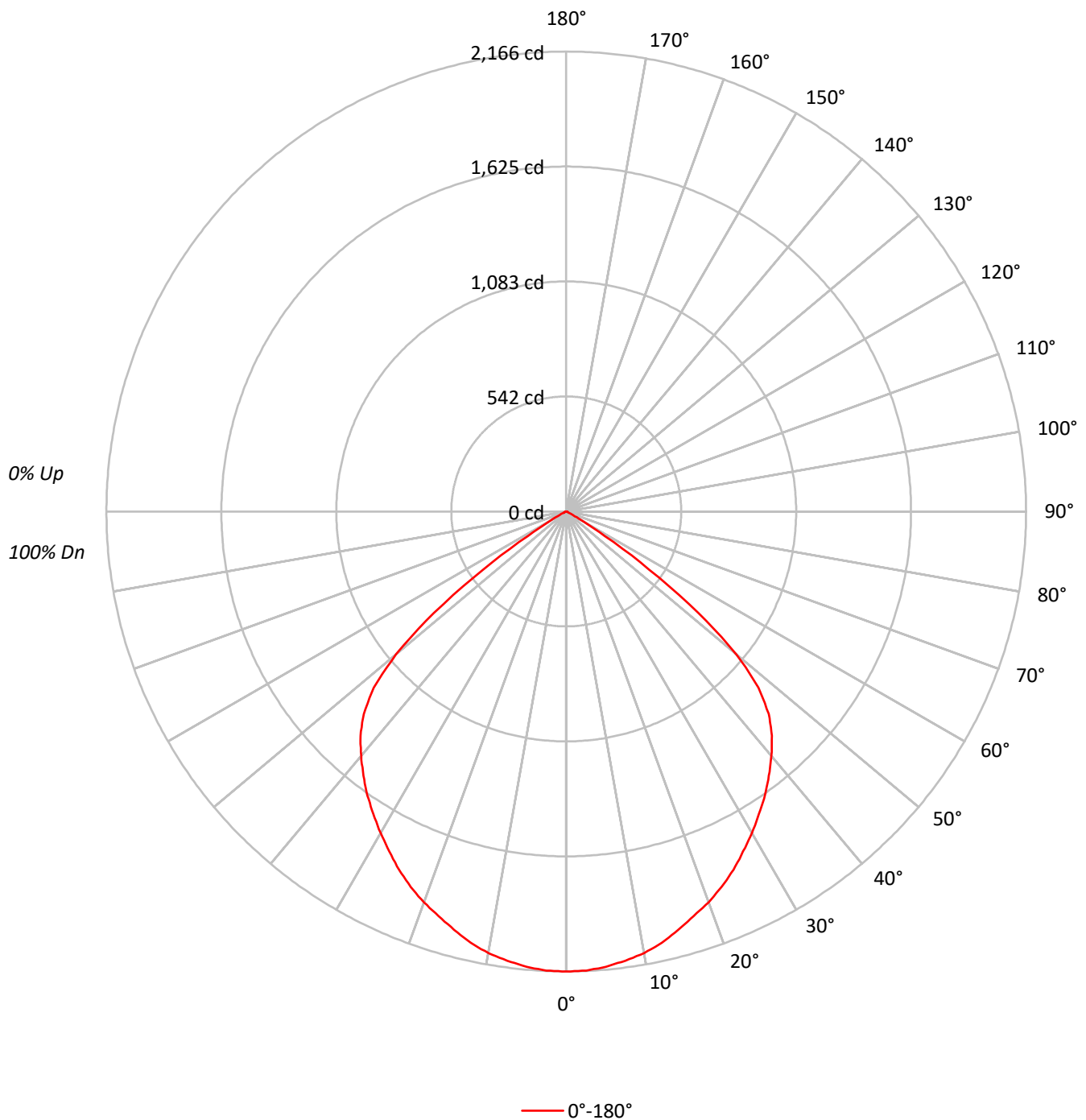
Input Watts (W): 48
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	106	104	101	102	100	98		99	97	95		95
2	105	98	93	89	102	97	92	88	93	89	86		90	87	84		87
3	97	89	83	78	95	88	82	77	85	80	76		82	78	75		80
4	90	81	74	68	88	80	73	68	77	72	67		75	70	66		73
5	84	73	66	61	82	72	65	60	70	64	60		69	63	59		67
6	78	67	59	54	77	66	59	54	64	58	53		63	57	53		61
7	73	61	54	48	71	61	53	48	59	53	48		58	52	48		57
8	68	56	49	44	67	56	49	44	54	48	43		53	47	43		52
9	64	52	45	40	63	51	44	40	50	44	39		49	43	39		48
10	60	48	41	36	59	48	41	36	47	40	36		46	40	36		45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	21814
5°	21751
10°	21594
15°	21258
20°	20994
25°	20698
30°	20329
35°	20063
40°	19757
45°	19204
50°	16371
55°	8360
60°	1355
65°	174
70°	162
75°	214
80°	209
85°	208

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19204 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.1	4.9
10°-20°	575.5	13.9
20°-30°	857.5	20.7
30°-40°	1020.5	24.6
40°-50°	1018.7	24.6
50°-60°	446.8	10.8
60°-70°	15.5	0.4
70°-80°	5.6	0.1
80°-90°	2.5	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°	1637.2	39.5
0°-40°	2657.7	64.1
0°-60°	4123.2	99.4
0°-90°	4146.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4146.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2166	
5°	2152	204
15°	2039	576
25°	1863	858
35°	1632	1020
45°	1349	1019
55°	476	447
65°	7	16
75°	6	6
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2166.5
2.5°	2164.7
5°	2152.0
7.5°	2133.8
10°	2112.0
12.5°	2081.1
15°	2039.3
17.5°	1997.5
20°	1959.3
22.5°	1913.9
25°	1863.0
27.5°	1804.8
30°	1748.5
32.5°	1690.3
35°	1632.2
37.5°	1568.6
40°	1503.1
42.5°	1434.1
45°	1348.6
47.5°	1228.7
50°	1045.1
52.5°	785.2
55°	476.2
57.5°	214.5
60°	67.3
62.5°	14.5
65°	7.3
67.5°	5.5
70°	5.5
72.5°	5.5
75°	5.5
77.5°	5.5
80°	3.6
82.5°	3.6
85°	1.8
87.5°	1.8
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	13.01	14.36	13.38	14.67	14.99	13.01	14.36	13.38	14.67	14.99
	3H	12.89	14.07	13.27	14.40	14.77	12.89	14.07	13.27	14.40	14.77
	4H	12.83	13.92	13.23	14.27	14.65	12.83	13.92	13.23	14.27	14.65
	6H	12.76	13.76	13.17	14.13	14.52	12.76	13.76	13.17	14.13	14.52
	8H	12.72	13.66	13.15	14.06	14.46	12.72	13.66	13.15	14.06	14.46
	12H	12.68	13.58	13.11	13.97	14.40	12.68	13.58	13.11	13.97	14.40
4H	2H	12.82	13.91	13.22	14.26	14.64	12.82	13.91	13.22	14.26	14.64
	3H	12.70	13.57	13.11	13.98	14.38	12.70	13.57	13.11	13.98	14.38
	4H	12.62	13.40	13.06	13.81	14.26	12.62	13.40	13.06	13.81	14.26
	6H	12.55	13.22	13.01	13.66	14.13	12.55	13.22	13.01	13.66	14.13
	8H	12.50	13.12	12.97	13.57	14.04	12.50	13.12	12.97	13.57	14.04
	12H	12.45	13.01	12.94	13.49	13.96	12.45	13.01	12.94	13.49	13.96
8H	4H	12.48	13.11	12.95	13.55	14.03	12.48	13.11	12.95	13.55	14.03
	6H	12.39	12.91	12.89	13.40	13.88	12.39	12.91	12.89	13.40	13.88
	8H	12.33	12.80	12.85	13.32	13.81	12.33	12.80	12.85	13.32	13.81
	12H	12.29	12.71	12.80	13.21	13.78	12.29	12.71	12.80	13.21	13.78
12H	4H	12.43	12.99	12.92	13.47	13.94	12.43	12.99	12.92	13.47	13.94
	6H	12.32	12.79	12.85	13.31	13.80	12.32	12.79	12.85	13.31	13.80
	8H	12.28	12.71	12.80	13.20	13.77	12.28	12.71	12.80	13.20	13.77

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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