

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: P979982

Luminaire Tested: PRLX-242-930-LL1-F-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979982
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-242-930-LL1-F-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 242 SHADE WITH FROSTED LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

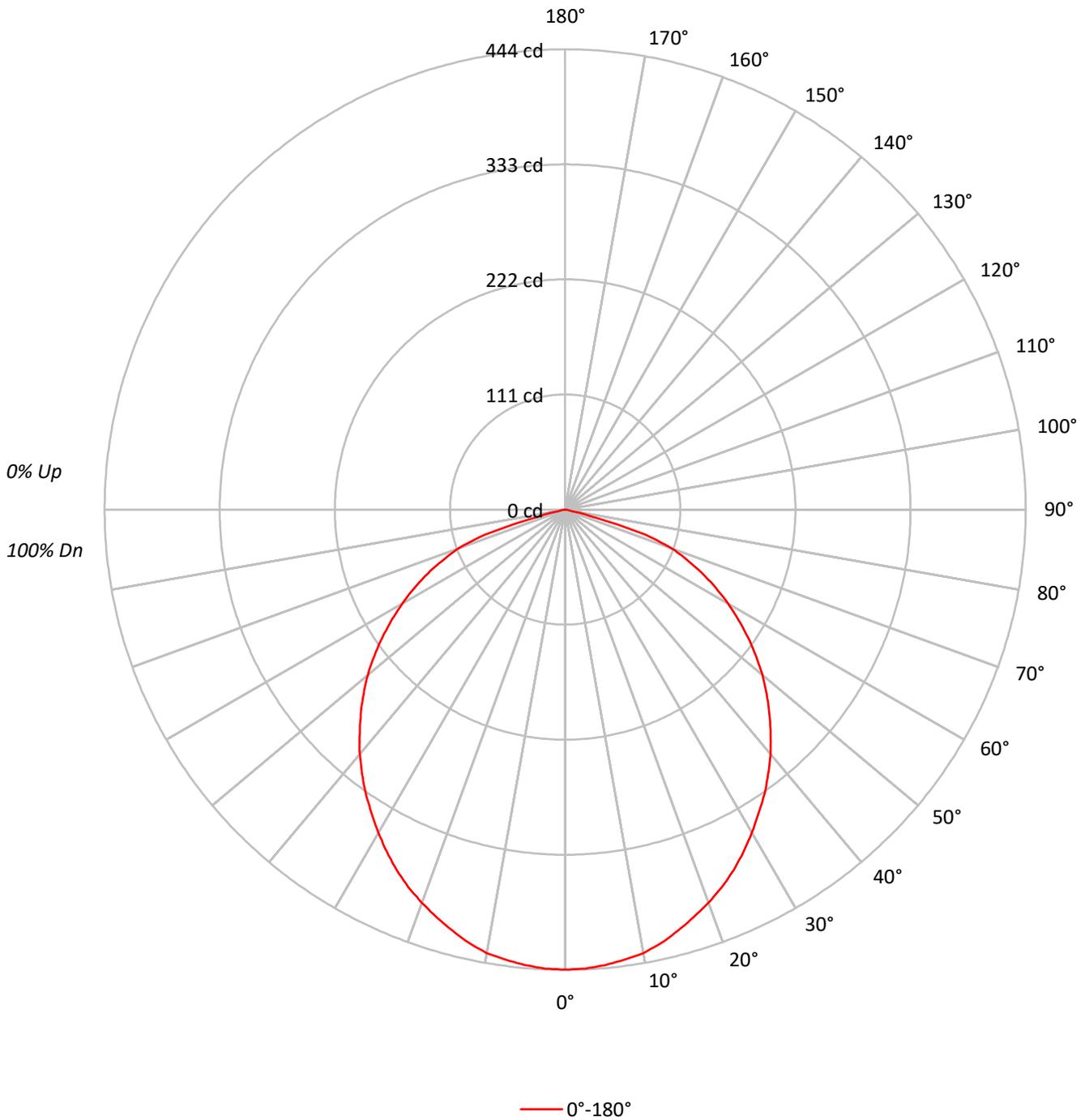
Lumens per Lamp: N/A
Luminaire Lumens: 1142.6 lumens
Efficiency: N/A
Efficacy: 152.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.33
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 7.5
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	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1986
5°	1982
10°	1974
15°	1948
20°	1923
25°	1896
30°	1860
35°	1830
40°	1799
45°	1763
50°	1728
55°	1680
60°	1623
65°	1548
70°	1433
75°	562
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1763 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.9	3.7
10°-20°	118.6	10.4
20°-30°	176.7	15.5
30°-40°	209.5	18.3
40°-50°	214.9	18.8
50°-60°	192.3	16.8
60°-70°	144.2	12.6
70°-80°	44.4	3.9
80°-90°	0.0	0.0
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°	337.2	29.5
0°-40°	546.7	47.8
0°-60°	953.9	83.5
0°-90°	1142.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1142.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	444	
5°	441	42
15°	420	119
25°	384	177
35°	335	209
45°	278	215
55°	215	192
65°	146	144
75°	32	44
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	443.7
2.5°	443.3
5°	441.1
7.5°	438.1
10°	434.4
12.5°	428.4
15°	420.5
17.5°	412.3
20°	403.7
22.5°	394.4
25°	383.9
27.5°	372.3
30°	360.0
32.5°	347.3
35°	334.9
37.5°	321.5
40°	308.0
42.5°	293.1
45°	278.5
47.5°	263.5
50°	248.2
52.5°	231.8
55°	215.3
57.5°	198.1
60°	181.3
62.5°	163.7
65°	146.2
67.5°	127.8
70°	109.5
72.5°	81.1
75°	32.5
77.5°	1.5
80°	0.0
82.5°	0.0
85°	0.0
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	14.14	15.73	14.50	16.04	16.36	14.14	15.73	14.50	16.04	16.36
	3H	15.89	17.31	16.26	17.64	18.00	15.89	17.31	16.26	17.64	18.00
	4H	16.08	17.42	16.48	17.77	18.15	16.08	17.42	16.48	17.77	18.15
	6H	16.02	17.26	16.43	17.63	18.02	16.02	17.26	16.43	17.63	18.02
	8H	15.99	17.17	16.42	17.56	17.96	15.99	17.17	16.42	17.56	17.96
	12H	15.96	17.09	16.39	17.47	17.90	15.96	17.09	16.39	17.47	17.90
4H	2H	14.77	16.11	15.17	16.46	16.84	14.77	16.11	15.17	16.46	16.84
	3H	16.69	17.80	17.10	18.19	18.59	16.69	17.80	17.10	18.19	18.59
	4H	16.87	17.86	17.30	18.28	18.72	16.87	17.86	17.30	18.28	18.72
	6H	16.82	17.68	17.27	18.12	18.58	16.82	17.68	17.27	18.12	18.58
	8H	16.78	17.58	17.24	18.02	18.49	16.78	17.58	17.24	18.02	18.49
	12H	16.75	17.47	17.23	17.95	18.42	16.75	17.47	17.23	17.95	18.42
8H	4H	16.91	17.71	17.37	18.15	18.62	16.91	17.71	17.37	18.15	18.62
	6H	16.84	17.49	17.33	17.98	18.46	16.84	17.49	17.33	17.98	18.46
	8H	16.79	17.38	17.31	17.89	18.37	16.79	17.38	17.31	17.89	18.37
	12H	16.77	17.28	17.28	17.77	18.34	16.77	17.28	17.28	17.77	18.34
12H	4H	16.88	17.59	17.36	18.07	18.54	16.88	17.59	17.36	18.07	18.54
	6H	16.79	17.38	17.31	17.89	18.37	16.79	17.38	17.31	17.89	18.37
	8H	16.77	17.28	17.28	17.77	18.34	16.77	17.28	17.28	17.77	18.34