

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: P979512

Luminaire Tested: PRLX-240-940-LL2-F-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979512
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-240-940-LL2-F-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 240 SHADE WITH FROSTED LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

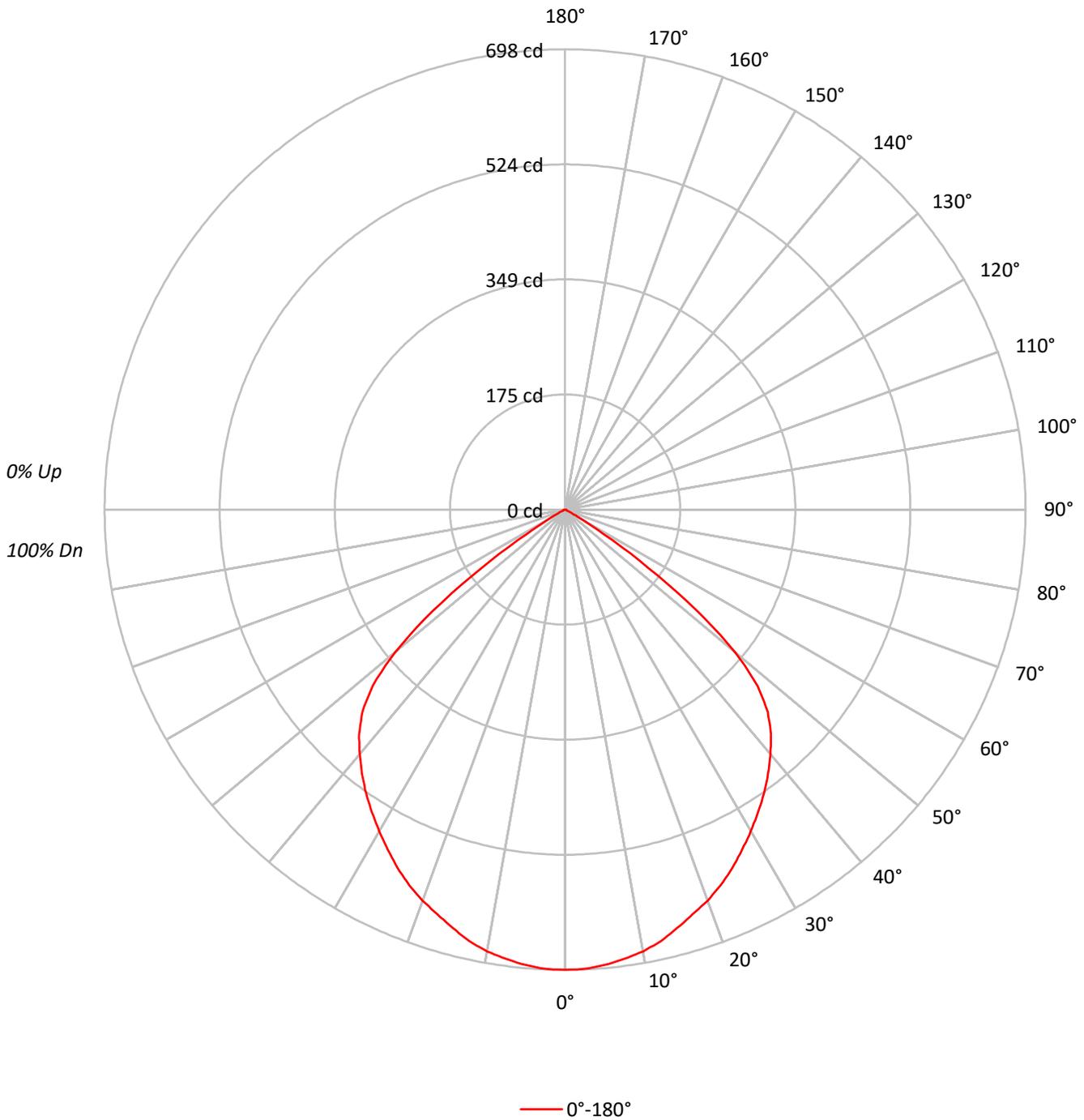
Lumens per Lamp: N/A
Luminaire Lumens: 1335.9 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.33
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	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	112	109	106	103	110	106	104	101	102	100	98	99	97	95	95	94	92	90				
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81				
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72				
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64				
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57				
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51				
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	57	51	47	46				
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43	41				
9	64	52	45	40	63	51	44	40	50	44	39	49	43	39	48	43	39	37				
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7027
5°	7006
10°	6956
15°	6848
20°	6763
25°	6667
30°	6548
35°	6463
40°	6364
45°	6186
50°	5274
55°	2693
60°	437
65°	55
70°	53
75°	70
80°	70
85°	69

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6186 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.8	4.9
10°-20°	185.4	13.9
20°-30°	276.2	20.7
30°-40°	328.7	24.6
40°-50°	328.2	24.6
50°-60°	143.9	10.8
60°-70°	5.0	0.4
70°-80°	1.8	0.1
80°-90°	0.8	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°	527.4	39.5
0°-40°	856.1	64.1
0°-60°	1328.2	99.4
0°-90°	1335.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1335.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	698	
5°	693	66
15°	657	185
25°	600	276
35°	526	329
45°	434	328
55°	153	144
65°	2	5
75°	2	2
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	697.9
2.5°	697.3
5°	693.2
7.5°	687.4
10°	680.3
12.5°	670.4
15°	656.9
17.5°	643.5
20°	631.2
22.5°	616.5
25°	600.1
27.5°	581.4
30°	563.2
32.5°	544.5
35°	525.8
37.5°	505.3
40°	484.2
42.5°	462.0
45°	434.4
47.5°	395.8
50°	336.7
52.5°	252.9
55°	153.4
57.5°	69.1
60°	21.7
62.5°	4.7
65°	2.3
67.5°	1.8
70°	1.8
72.5°	1.8
75°	1.8
77.5°	1.8
80°	1.2
82.5°	1.2
85°	0.6
87.5°	0.6
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	9.08	10.43	9.44	10.74	11.05	9.08	10.43	9.44	10.74	11.05
	3H	8.96	10.14	9.34	10.47	10.83	8.96	10.14	9.34	10.47	10.83
	4H	8.89	9.98	9.29	10.33	10.72	8.89	9.98	9.29	10.33	10.72
	6H	8.82	9.82	9.24	10.19	10.59	8.82	9.82	9.24	10.19	10.59
	8H	8.78	9.73	9.21	10.12	10.53	8.78	9.73	9.21	10.12	10.53
	12H	8.74	9.65	9.18	10.03	10.46	8.74	9.65	9.18	10.03	10.46
4H	2H	8.88	9.98	9.29	10.33	10.71	8.88	9.98	9.29	10.33	10.71
	3H	8.76	9.64	9.18	10.04	10.45	8.76	9.64	9.18	10.04	10.45
	4H	8.69	9.46	9.12	9.88	10.32	8.69	9.46	9.12	9.88	10.32
	6H	8.62	9.28	9.08	9.73	10.20	8.62	9.28	9.08	9.73	10.20
	8H	8.57	9.19	9.03	9.64	10.11	8.57	9.19	9.03	9.64	10.11
	12H	8.52	9.07	9.01	9.56	10.03	8.52	9.07	9.01	9.56	10.03
8H	4H	8.55	9.17	9.02	9.62	10.09	8.55	9.17	9.02	9.62	10.09
	6H	8.46	8.97	8.96	9.47	9.95	8.46	8.97	8.96	9.47	9.95
	8H	8.40	8.87	8.92	9.38	9.88	8.40	8.87	8.92	9.38	9.88
	12H	8.36	8.78	8.87	9.27	9.84	8.36	8.78	8.87	9.27	9.84
12H	4H	8.50	9.05	8.99	9.53	10.01	8.50	9.05	8.99	9.53	10.01
	6H	8.39	8.86	8.91	9.37	9.87	8.39	8.86	8.91	9.37	9.87
	8H	8.35	8.77	8.86	9.27	9.84	8.35	8.77	8.86	9.27	9.84