

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: P979272

Luminaire Tested: PRLX-240-927-LL2-F-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979272
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-LL2-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

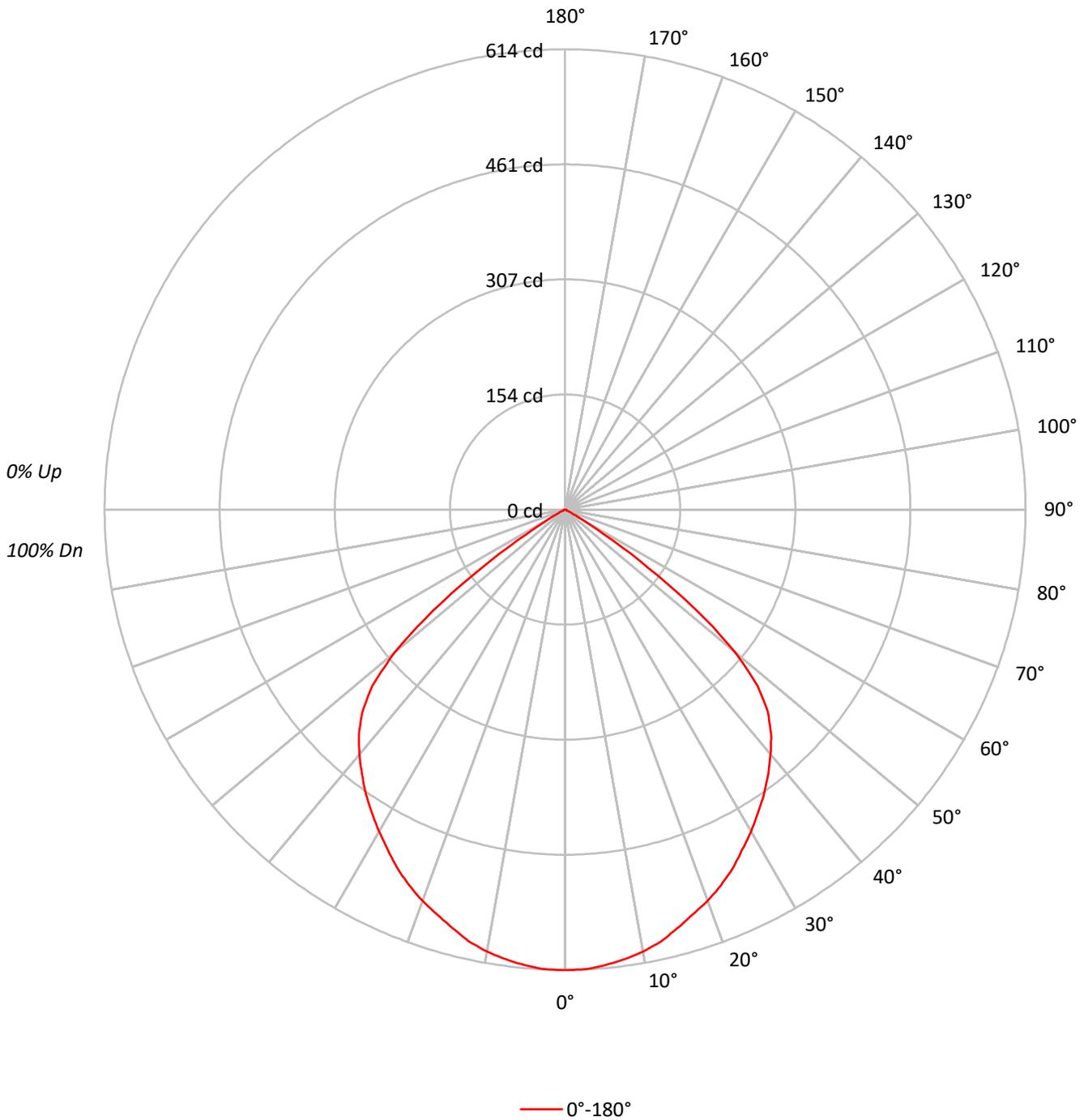
Lumens per Lamp: N/A
Luminaire Lumens: 1175.8 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.33
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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			100	
1	112	109	106	103	110	106	104	101	102	100	98	99	97	95	95	94	92	91			91	
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81			81	
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72			72	
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64			64	
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57			57	
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51			51	
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	57	51	47	46			46	
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43	41			41	
9	64	52	45	40	63	51	44	40	50	44	39	49	43	39	48	43	39	37			37	
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34			34	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6186
5°	6169
10°	6123
15°	6028
20°	5953
25°	5869
30°	5765
35°	5689
40°	5603
45°	5445
50°	4643
55°	2370
60°	385
65°	50
70°	44
75°	58
80°	58
85°	58

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5445 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.9	4.9
10°-20°	163.2	13.9
20°-30°	243.2	20.7
30°-40°	289.4	24.6
40°-50°	288.9	24.6
50°-60°	126.7	10.8
60°-70°	4.4	0.4
70°-80°	1.5	0.1
80°-90°	0.7	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°	464.3	39.5
0°-40°	753.6	64.1
0°-60°	1169.2	99.4
0°-90°	1175.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1175.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	614	
5°	610	58
15°	578	163
25°	528	243
35°	463	289
45°	382	289
55°	135	127
65°	2	4
75°	2	2
85°	0	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	614.4
2.5°	613.9
5°	610.3
7.5°	605.1
10°	598.9
12.5°	590.2
15°	578.3
17.5°	566.4
20°	555.6
22.5°	542.7
25°	528.3
27.5°	511.8
30°	495.8
32.5°	479.3
35°	462.8
37.5°	444.8
40°	426.3
42.5°	406.7
45°	382.4
47.5°	348.4
50°	296.4
52.5°	222.7
55°	135.0
57.5°	60.8
60°	19.1
62.5°	4.1
65°	2.1
67.5°	1.5
70°	1.5
72.5°	1.5
75°	1.5
77.5°	1.5
80°	1.0
82.5°	1.0
85°	0.5
87.5°	0.5
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	8.63	9.98	9.00	10.29	10.61	8.63	9.98	9.00	10.29	10.61
	3H	8.51	9.69	8.89	10.02	10.38	8.51	9.69	8.89	10.02	10.38
	4H	8.44	9.54	8.85	9.89	10.27	8.44	9.54	8.85	9.89	10.27
	6H	8.37	9.37	8.79	9.74	10.14	8.37	9.37	8.79	9.74	10.14
	8H	8.34	9.28	8.77	9.67	10.08	8.34	9.28	8.77	9.67	10.08
	12H	8.30	9.20	8.73	9.58	10.01	8.30	9.20	8.73	9.58	10.01
4H	2H	8.44	9.53	8.84	9.88	10.26	8.44	9.53	8.84	9.88	10.26
	3H	8.32	9.19	8.73	9.60	10.00	8.32	9.19	8.73	9.60	10.00
	4H	8.24	9.01	8.67	9.43	9.88	8.24	9.01	8.67	9.43	9.88
	6H	8.17	8.83	8.63	9.28	9.75	8.17	8.83	8.63	9.28	9.75
	8H	8.12	8.74	8.59	9.19	9.66	8.12	8.74	8.59	9.19	9.66
	12H	8.07	8.62	8.56	9.11	9.58	8.07	8.62	8.56	9.11	9.58
8H	4H	8.10	8.72	8.57	9.17	9.64	8.10	8.72	8.57	9.17	9.64
	6H	8.01	8.52	8.51	9.02	9.50	8.01	8.52	8.51	9.02	9.50
	8H	7.95	8.42	8.47	8.93	9.42	7.95	8.42	8.47	8.93	9.42
	12H	7.90	8.33	8.42	8.82	9.39	7.90	8.33	8.42	8.82	9.39
12H	4H	8.05	8.60	8.54	9.09	9.56	8.05	8.60	8.54	9.09	9.56
	6H	7.94	8.41	8.46	8.92	9.42	7.94	8.41	8.46	8.92	9.42
	8H	7.90	8.32	8.41	8.82	9.39	7.90	8.32	8.41	8.82	9.39