

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P979962

Luminaire Tested: PRLX-242-927-62L-F-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979962
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-242-927-62L-F-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 242 SHADE WITH FROSTED LENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

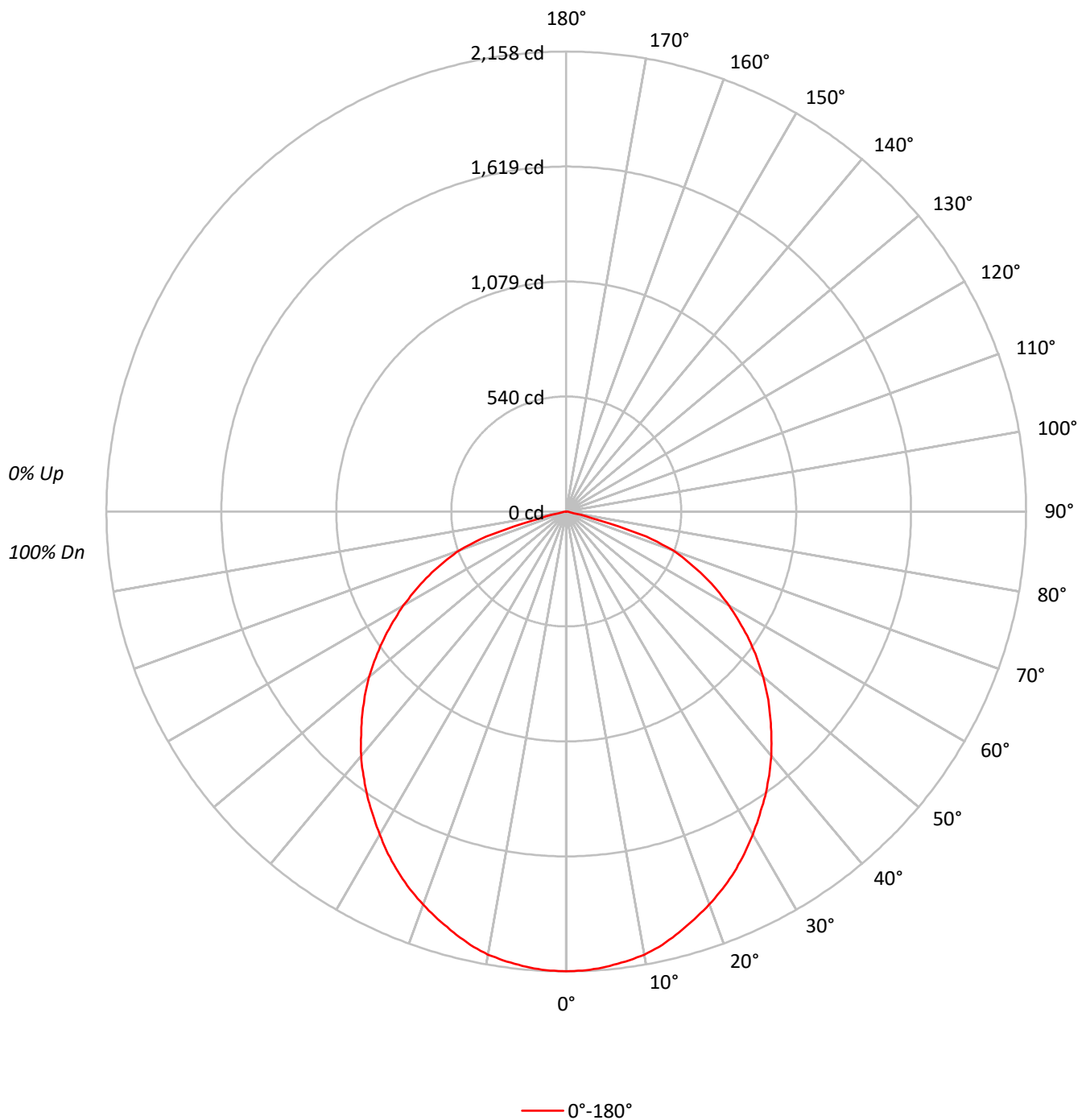
Lumens per Lamp: N/A
Luminaire Lumens: 5555.6 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.33
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
R	C	R	C	R	C	R	C	R	C	R	C	R	C	R	C	R	C	R	C	R	C	R	C	R		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	102	102	102	100	100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	92	90	88	86	86			
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73	81	78	75	73	73			
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62	72	68	64	62	62			
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53	64	59	55	53	53			
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48	46	58	52	48	46	46			
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40	53	47	42	40	40			
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36	48	42	37	36	36			
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32	44	38	34	32	32			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29	41	35	30	29	29			
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26	38	32	28	26	26			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	9655
5°	9634
10°	9597
15°	9474
20°	9348
25°	9217
30°	9045
35°	8897
40°	8749
45°	8570
50°	8402
55°	8168
60°	7890
65°	7526
70°	6967
75°	2734
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8570 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.7	3.7
10°-20°	576.8	10.4
20°-30°	859.3	15.5
30°-40°	1018.4	18.3
40°-50°	1044.9	18.8
50°-60°	935.0	16.8
60°-70°	701.4	12.6
70°-80°	216.0	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°	1639.8	29.5
0°-40°	2658.2	47.8
0°-60°	4638.1	83.5
0°-90°	5555.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5555.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2158	
5°	2145	204
15°	2045	577
25°	1867	859
35°	1628	1018
45°	1354	1045
55°	1047	935
65°	711	701
75°	158	216
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2157.5
2.5°	2155.6
5°	2144.7
7.5°	2130.2
10°	2112.0
12.5°	2082.9
15°	2044.8
17.5°	2004.8
20°	1963.0
22.5°	1917.5
25°	1866.6
27.5°	1810.3
30°	1750.3
32.5°	1688.5
35°	1628.5
37.5°	1563.1
40°	1497.7
42.5°	1425.0
45°	1354.1
47.5°	1281.4
50°	1206.9
52.5°	1126.9
55°	1046.9
57.5°	963.3
60°	881.5
62.5°	796.1
65°	710.7
67.5°	621.6
70°	532.5
72.5°	394.4
75°	158.1
77.5°	7.3
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	19.63	21.22	20.00	21.54	21.85	19.63	21.22	20.00	21.54	21.85
	3H	21.38	22.81	21.76	23.14	23.50	21.38	22.81	21.76	23.14	23.50
	4H	21.58	22.92	21.98	23.27	23.64	21.58	22.92	21.98	23.27	23.64
	6H	21.52	22.76	21.93	23.12	23.51	21.52	22.76	21.93	23.12	23.51
	8H	21.49	22.66	21.91	23.05	23.45	21.49	22.66	21.91	23.05	23.45
	12H	21.46	22.58	21.89	22.97	23.39	21.46	22.58	21.89	22.97	23.39
4H	2H	20.27	21.61	20.67	21.96	22.33	20.27	21.61	20.67	21.96	22.33
	3H	22.18	23.29	22.59	23.69	24.09	22.18	23.29	22.59	23.69	24.09
	4H	22.37	23.36	22.80	23.77	24.21	22.37	23.36	22.80	23.77	24.21
	6H	22.31	23.17	22.77	23.62	24.07	22.31	23.17	22.77	23.62	24.07
	8H	22.28	23.08	22.74	23.52	23.99	22.28	23.08	22.74	23.52	23.99
	12H	22.25	22.96	22.73	23.44	23.91	22.25	22.96	22.73	23.44	23.91
8H	4H	22.40	23.20	22.86	23.65	24.11	22.40	23.20	22.86	23.65	24.11
	6H	22.33	22.99	22.83	23.48	23.96	22.33	22.99	22.83	23.48	23.96
	8H	22.29	22.87	22.80	23.38	23.87	22.29	22.87	22.80	23.38	23.87
	12H	22.26	22.78	22.77	23.27	23.83	22.26	22.78	22.77	23.27	23.83
12H	4H	22.38	23.09	22.86	23.57	24.04	22.38	23.09	22.86	23.57	24.04
	6H	22.29	22.87	22.80	23.38	23.87	22.29	22.87	22.80	23.38	23.87
	8H	22.26	22.78	22.77	23.27	23.83	22.26	22.78	22.77	23.27	23.83