

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: P980132

Luminaire Tested: PRLX-242-935-74L-F-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980132
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-242-935-74L-F-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 242 SHADE WITH FROSTED LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

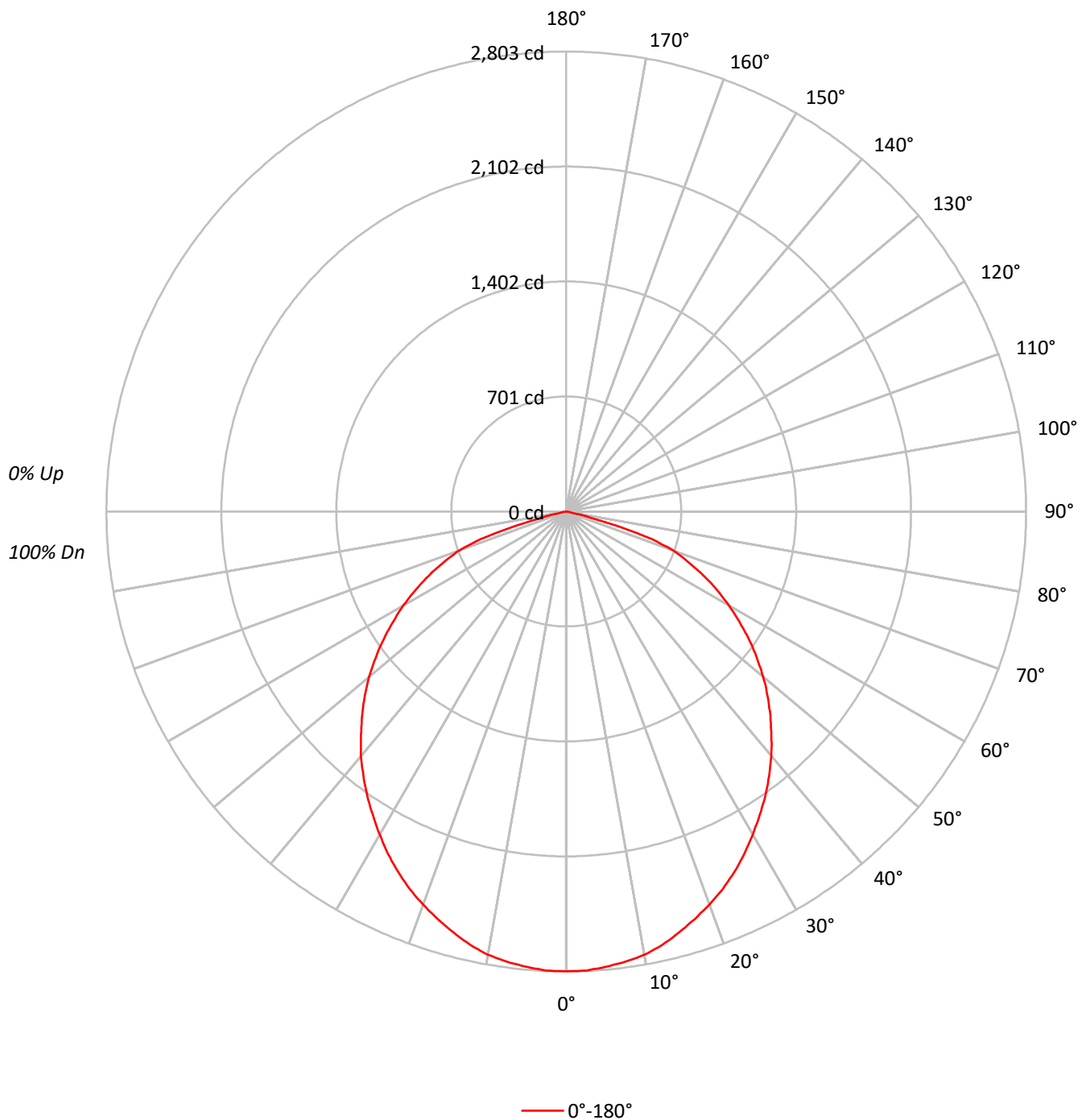
Lumens per Lamp: N/A
Luminaire Lumens: 7217.5 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.33
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 61.5
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			
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°	12543
5°	12517
10°	12468
15°	12307
20°	12145
25°	11974
30°	11750
35°	11558
40°	11366
45°	11134
50°	10916
55°	10612
60°	10250
65°	9777
70°	9053
75°	3551
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Luminance: 11134 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.6	3.7
10°-20°	749.3	10.4
20°-30°	1116.4	15.5
30°-40°	1323.0	18.3
40°-50°	1357.5	18.8
50°-60°	1214.7	16.8
60°-70°	911.3	12.6
70°-80°	280.6	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°	2130.3	29.5
0°-40°	3453.4	47.8
0°-60°	6025.6	83.5
0°-90°	7217.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7217.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2803	
5°	2786	265
15°	2656	749
25°	2425	1116
35°	2116	1323
45°	1759	1357
55°	1360	1215
65°	923	911
75°	205	281
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2802.8
2.5°	2800.5
5°	2786.3
7.5°	2767.4
10°	2743.8
12.5°	2706.0
15°	2656.4
17.5°	2604.5
20°	2550.2
22.5°	2491.2
25°	2425.0
27.5°	2351.8
30°	2273.9
32.5°	2193.6
35°	2115.7
37.5°	2030.7
40°	1945.7
42.5°	1851.2
45°	1759.2
47.5°	1664.7
50°	1567.9
52.5°	1464.0
55°	1360.1
57.5°	1251.5
60°	1145.2
62.5°	1034.2
65°	923.3
67.5°	807.6
70°	691.9
72.5°	512.4
75°	205.4
77.5°	9.4
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	20.54	22.13	20.91	22.45	22.76	20.54	22.13	20.91	22.45	22.76
	3H	22.29	23.72	22.67	24.05	24.41	22.29	23.72	22.67	24.05	24.41
	4H	22.49	23.83	22.89	24.18	24.55	22.49	23.83	22.89	24.18	24.55
	6H	22.43	23.67	22.84	24.03	24.42	22.43	23.67	22.84	24.03	24.42
	8H	22.40	23.57	22.82	23.96	24.36	22.40	23.57	22.82	23.96	24.36
	12H	22.37	23.49	22.80	23.88	24.30	22.37	23.49	22.80	23.88	24.30
4H	2H	21.18	22.52	21.58	22.86	23.24	21.18	22.52	21.58	22.86	23.24
	3H	23.09	24.20	23.50	24.60	25.00	23.09	24.20	23.50	24.60	25.00
	4H	23.27	24.27	23.71	24.68	25.12	23.27	24.27	23.71	24.68	25.12
	6H	23.22	24.08	23.68	24.53	24.98	23.22	24.08	23.68	24.53	24.98
	8H	23.19	23.99	23.65	24.43	24.90	23.19	23.99	23.65	24.43	24.90
	12H	23.16	23.87	23.64	24.35	24.82	23.16	23.87	23.64	24.35	24.82
8H	4H	23.31	24.11	23.77	24.56	25.02	23.31	24.11	23.77	24.56	25.02
	6H	23.24	23.90	23.74	24.39	24.86	23.24	23.90	23.74	24.39	24.86
	8H	23.20	23.78	23.71	24.29	24.78	23.20	23.78	23.71	24.29	24.78
	12H	23.17	23.69	23.68	24.18	24.74	23.17	23.69	23.68	24.18	24.74
12H	4H	23.29	24.00	23.77	24.48	24.95	23.29	24.00	23.77	24.48	24.95
	6H	23.20	23.78	23.71	24.29	24.78	23.20	23.78	23.71	24.29	24.78
	8H	23.17	23.69	23.68	24.18	24.74	23.17	23.69	23.68	24.18	24.74