

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: P980432

Luminaire Tested: PRLX-243-935-LL6-F-U-S-BLAK-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P980432  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-37)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-243-935-LL6-F-U-S-BLAK-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 243 SHADE WITH FROSTED LENS  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

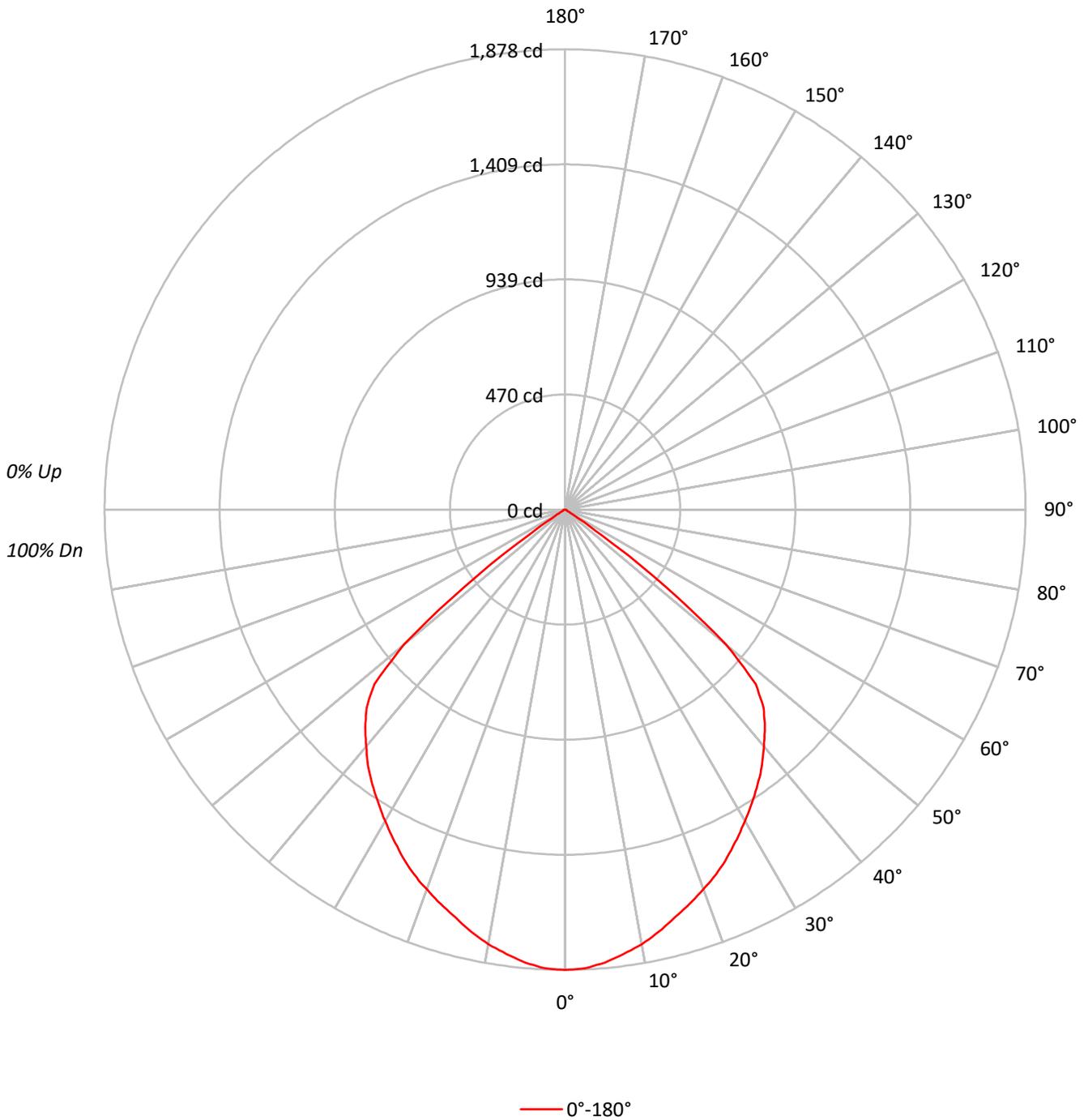
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3369.3 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.31  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 33.5  
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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	74	67	62	83	73	67	62	71	66	61	70	64	60	68	63	60	58
6	79	68	61	55	77	67	60	55	66	59	55	64	58	54	63	58	54	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43
9	65	53	46	41	64	52	46	41	51	45	41	50	45	40	49	44	40	39
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	9268
5°	9190
10°	9020
15°	8806
20°	8659
25°	8520
30°	8359
35°	8249
40°	8122
45°	7988
50°	6570
55°	1552
60°	91
65°	89
70°	110
75°	116
80°	88
85°	85

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7988 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.3	5.2
10°-20°	486.9	14.5
20°-30°	720.8	21.4
30°-40°	856.7	25.4
40°-50°	860.4	25.5
50°-60°	253.5	7.5
60°-70°	7.7	0.2
70°-80°	5.8	0.2
80°-90°	2.1	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°	1383.0	41.0
0°-40°	2239.7	66.5
0°-60°	3353.7	99.5
0°-90°	3369.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3369.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1878	
5°	1856	175
15°	1724	487
25°	1565	721
35°	1370	857
45°	1145	860
55°	180	254
65°	8	8
75°	6	6
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1878.4
2.5°	1873.9
5°	1855.5
7.5°	1829.5
10°	1800.5
12.5°	1765.3
15°	1724.1
17.5°	1687.4
20°	1649.2
22.5°	1611.0
25°	1565.1
27.5°	1516.2
30°	1467.3
32.5°	1418.4
35°	1369.5
37.5°	1319.0
40°	1261.0
42.5°	1205.9
45°	1144.8
47.5°	1054.6
50°	855.9
52.5°	516.6
55°	180.4
57.5°	35.2
60°	9.2
62.5°	7.6
65°	7.6
67.5°	7.6
70°	7.6
72.5°	6.1
75°	6.1
77.5°	4.6
80°	3.1
82.5°	3.1
85°	1.5
87.5°	1.5
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	0.00	0.03	0.00	0.34	0.65	0.00	0.03	0.00	0.34	0.65
	3H	0.00	0.06	0.00	0.39	0.76	0.00	0.06	0.00	0.39	0.76
	4H	0.00	0.13	0.00	0.49	0.87	0.00	0.13	0.00	0.49	0.87
	6H	0.00	0.15	0.00	0.52	0.92	0.00	0.15	0.00	0.52	0.92
	8H	0.00	0.15	0.00	0.54	0.95	0.00	0.15	0.00	0.54	0.95
	12H	0.00	0.13	0.00	0.52	0.95	0.00	0.13	0.00	0.52	0.95
4H	2H	0.00	0.00	0.00	0.01	0.39	0.00	0.00	0.00	0.01	0.39
	3H	0.00	0.00	0.00	0.19	0.60	0.00	0.00	0.00	0.19	0.60
	4H	0.00	0.00	0.00	0.38	0.83	0.00	0.00	0.00	0.38	0.83
	6H	0.00	0.05	0.00	0.50	0.97	0.00	0.05	0.00	0.50	0.97
	8H	0.00	0.11	0.00	0.56	1.03	0.00	0.11	0.00	0.56	1.03
	12H	0.00	0.10	0.05	0.58	1.06	0.00	0.10	0.05	0.58	1.06
8H	4H	0.00	0.00	0.00	0.29	0.76	0.00	0.00	0.00	0.29	0.76
	6H	0.00	0.00	0.00	0.49	0.97	0.00	0.00	0.00	0.49	0.97
	8H	0.00	0.11	0.18	0.63	1.12	0.00	0.11	0.18	0.63	1.12
	12H	0.00	0.18	0.28	0.67	1.25	0.00	0.18	0.28	0.67	1.25
12H	4H	0.00	0.00	0.00	0.23	0.70	0.00	0.00	0.00	0.23	0.70
	6H	0.00	0.00	0.00	0.45	0.94	0.00	0.00	0.00	0.45	0.94
	8H	0.00	0.10	0.21	0.60	1.17	0.00	0.10	0.21	0.60	1.17