

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: P980290

Luminaire Tested: PRLX-243-927-LL8-C-U-S-BLAK-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P980290  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-243-927-LL8-C-U-S-BLAK-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 243 SHADE WITH CLEAR LENS  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

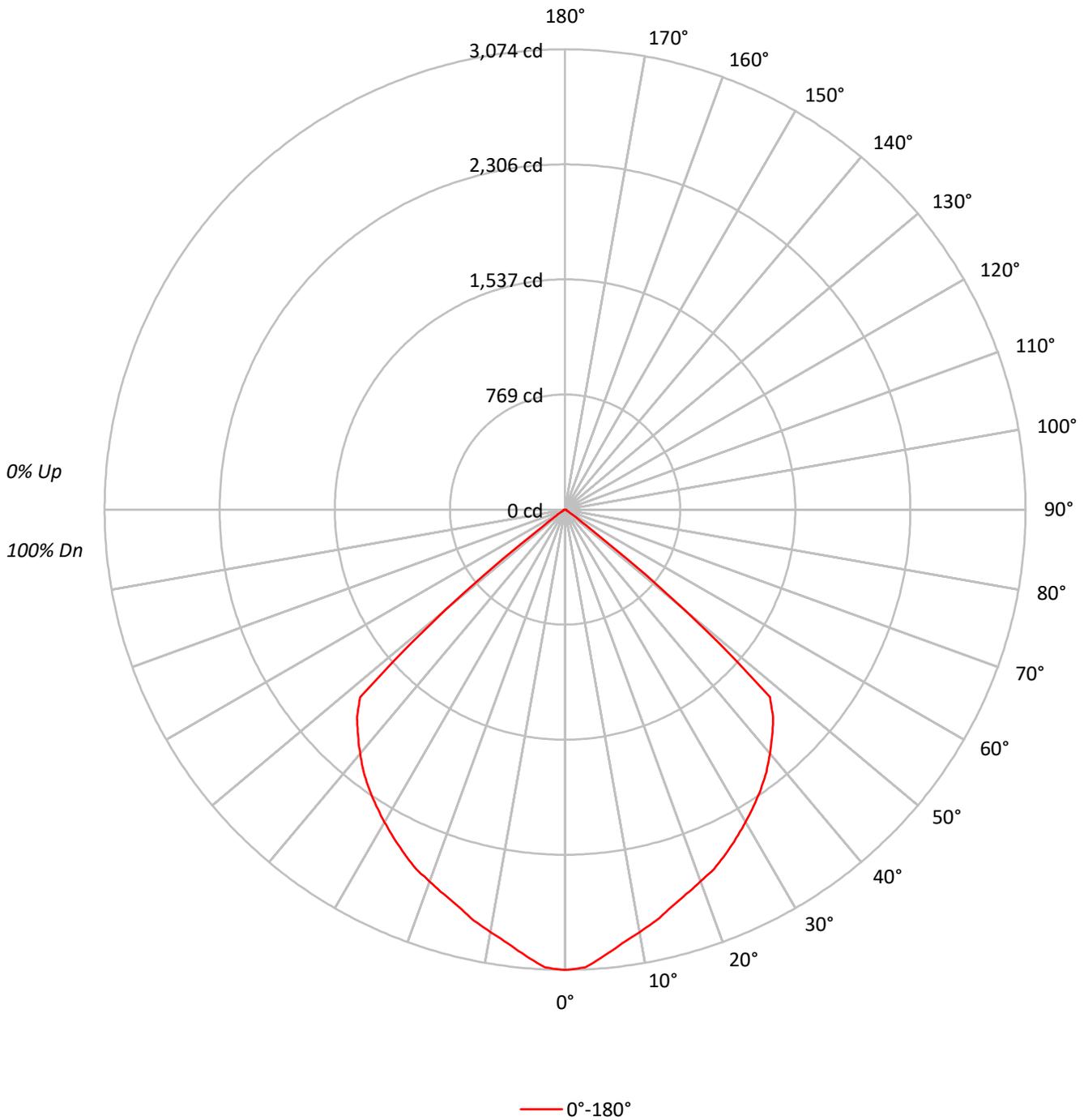
Lumens per Lamp: N/A  
Luminaire Lumens: 5288.3 lumens  
Efficiency: N/A  
Efficacy: 86.0 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.34  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct

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	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	104	110	107	104	102	103	101	99		99	97	96		96	94	93	91
2	105	99	95	91	103	98	93	89	94	91	88		91	88	86		88	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78		84	80	77		82	78	75	74
4	92	83	76	71	90	81	75	70	79	74	69		77	72	69		75	71	68	66
5	86	75	68	63	84	74	68	63	73	67	62		71	66	62		69	65	61	59
6	80	69	62	57	78	68	61	56	67	61	56		65	60	56		64	59	55	53
7	75	63	56	51	73	63	56	51	61	55	51		60	54	50		59	54	50	48
8	70	58	51	46	69	58	51	46	57	50	46		55	50	46		54	49	45	44
9	66	54	47	42	64	53	47	42	52	46	42		51	46	42		50	45	41	40
10	62	50	43	38	61	50	43	38	49	43	38		48	42	38		47	42	38	36

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

	0°
0°	15168
5°	14820
10°	14354
15°	14029
20°	13878
25°	13814
30°	13732
35°	13725
40°	13705
45°	13704
50°	7943
55°	704
60°	107
65°	126
70°	156
75°	164
80°	122
85°	125

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13704 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.5	5.3
10°-20°	776.6	14.7
20°-30°	1169.8	22.1
30°-40°	1425.9	27.0
40°-50°	1433.0	27.1
50°-60°	178.9	3.4
60°-70°	10.7	0.2
70°-80°	8.8	0.2
80°-90°	3.0	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°	2227.9	42.1
0°-40°	3653.8	69.1
0°-60°	5265.8	99.6
0°-90°	5288.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5288.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3074	
5°	2992	282
15°	2747	777
25°	2538	1170
35°	2279	1426
45°	1964	1433
55°	82	179
65°	11	11
75°	9	9
85°	2	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3074.3
2.5°	3061.4
5°	2992.4
7.5°	2921.3
10°	2865.2
12.5°	2811.3
15°	2746.6
17.5°	2692.7
20°	2643.2
22.5°	2597.9
25°	2537.5
27.5°	2475.0
30°	2410.3
32.5°	2345.6
35°	2278.8
37.5°	2207.7
40°	2127.9
42.5°	2046.0
45°	1964.0
47.5°	1854.1
50°	1034.8
52.5°	196.2
55°	81.9
57.5°	25.9
60°	10.8
62.5°	10.8
65°	10.8
67.5°	10.8
70°	10.8
72.5°	10.8
75°	8.6
77.5°	6.5
80°	4.3
82.5°	4.3
85°	2.2
87.5°	2.2
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.02
	12H	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.28
12H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.13