

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: P980072

Luminaire Tested: PRLX-242-935-LL2-F-U-S-BLAK-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P980072  
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-LL2-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**

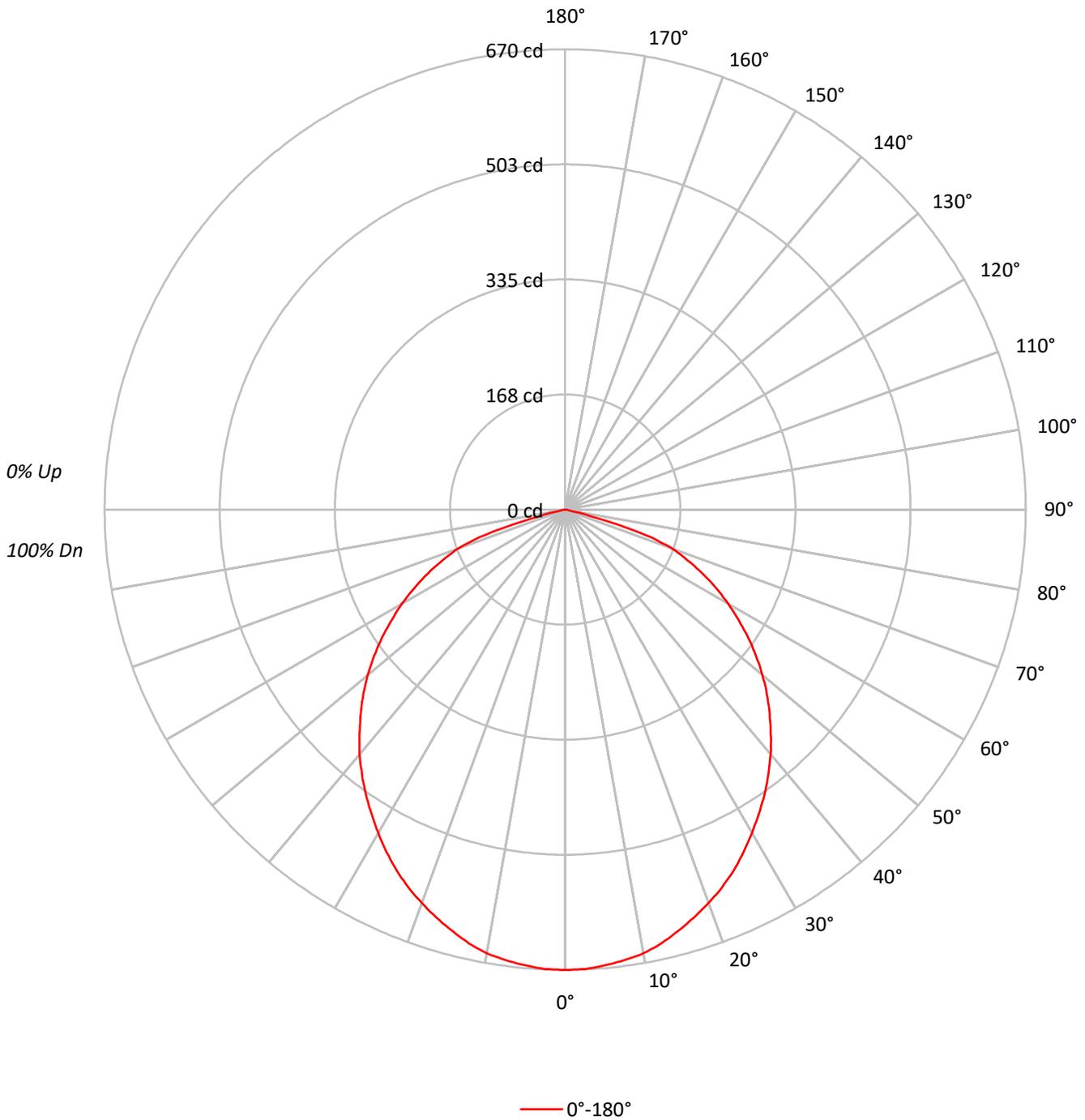
Lumens per Lamp: N/A  
Luminaire Lumens: 1725.6 lumens  
Efficiency: N/A  
Efficacy: 156.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.33  
Luminous Opening: Circular (Dia: 1.75' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	2999
5°	2992
10°	2981
15°	2942
20°	2904
25°	2863
30°	2809
35°	2763
40°	2718
45°	2662
50°	2609
55°	2537
60°	2451
65°	2337
70°	2164
75°	849
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2662 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.3	3.7
10°-20°	179.1	10.4
20°-30°	266.9	15.5
30°-40°	316.3	18.3
40°-50°	324.5	18.8
50°-60°	290.4	16.8
60°-70°	217.9	12.6
70°-80°	67.1	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°	509.3	29.5
0°-40°	825.6	47.8
0°-60°	1440.6	83.5
0°-90°	1725.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1725.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	670	
5°	666	63
15°	635	179
25°	580	267
35°	506	316
45°	421	325
55°	325	290
65°	221	218
75°	49	67
85°	0	0
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	670.1
2.5°	669.5
5°	666.1
7.5°	661.6
10°	656.0
12.5°	646.9
15°	635.1
17.5°	622.7
20°	609.7
22.5°	595.6
25°	579.8
27.5°	562.3
30°	543.6
32.5°	524.4
35°	505.8
37.5°	485.5
40°	465.2
42.5°	442.6
45°	420.6
47.5°	398.0
50°	374.8
52.5°	350.0
55°	325.2
57.5°	299.2
60°	273.8
62.5°	247.3
65°	220.7
67.5°	193.1
70°	165.4
72.5°	122.5
75°	49.1
77.5°	2.3
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	15.57	17.16	15.93	17.48	17.79	15.57	17.16	15.93	17.48	17.79
	3H	17.32	18.75	17.70	19.08	19.44	17.32	18.75	17.70	19.08	19.44
	4H	17.52	18.86	17.92	19.21	19.58	17.52	18.86	17.92	19.21	19.58
	6H	17.46	18.69	17.87	19.06	19.45	17.46	18.69	17.87	19.06	19.45
	8H	17.42	18.60	17.85	18.99	19.39	17.42	18.60	17.85	18.99	19.39
	12H	17.40	18.52	17.82	18.90	19.33	17.40	18.52	17.82	18.90	19.33
4H	2H	16.20	17.54	16.60	17.89	18.27	16.20	17.54	16.60	17.89	18.27
	3H	18.12	19.23	18.53	19.63	20.03	18.12	19.23	18.53	19.63	20.03
	4H	18.30	19.30	18.73	19.71	20.15	18.30	19.30	18.73	19.71	20.15
	6H	18.25	19.11	18.71	19.55	20.01	18.25	19.11	18.71	19.55	20.01
	8H	18.21	19.01	18.68	19.46	19.92	18.21	19.01	18.68	19.46	19.92
	12H	18.19	18.90	18.67	19.38	19.85	18.19	18.90	18.67	19.38	19.85
8H	4H	18.34	19.14	18.80	19.58	20.05	18.34	19.14	18.80	19.58	20.05
	6H	18.27	18.93	18.77	19.42	19.89	18.27	18.93	18.77	19.42	19.89
	8H	18.23	18.81	18.74	19.32	19.81	18.23	18.81	18.74	19.32	19.81
	12H	18.20	18.71	18.71	19.21	19.77	18.20	18.71	18.71	19.21	19.77
12H	4H	18.31	19.03	18.79	19.50	19.98	18.31	19.03	18.79	19.50	19.98
	6H	18.23	18.81	18.74	19.32	19.81	18.23	18.81	18.74	19.32	19.81
	8H	18.20	18.71	18.71	19.21	19.77	18.20	18.71	18.71	19.21	19.77