

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: P979990

Luminaire Tested: PRLX-242-930-LL2-C-U-S-BLAK-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979990  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-26)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-242-930-LL2-C-U-S-BLAK-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 242 SHADE WITH CLEAR LENS  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

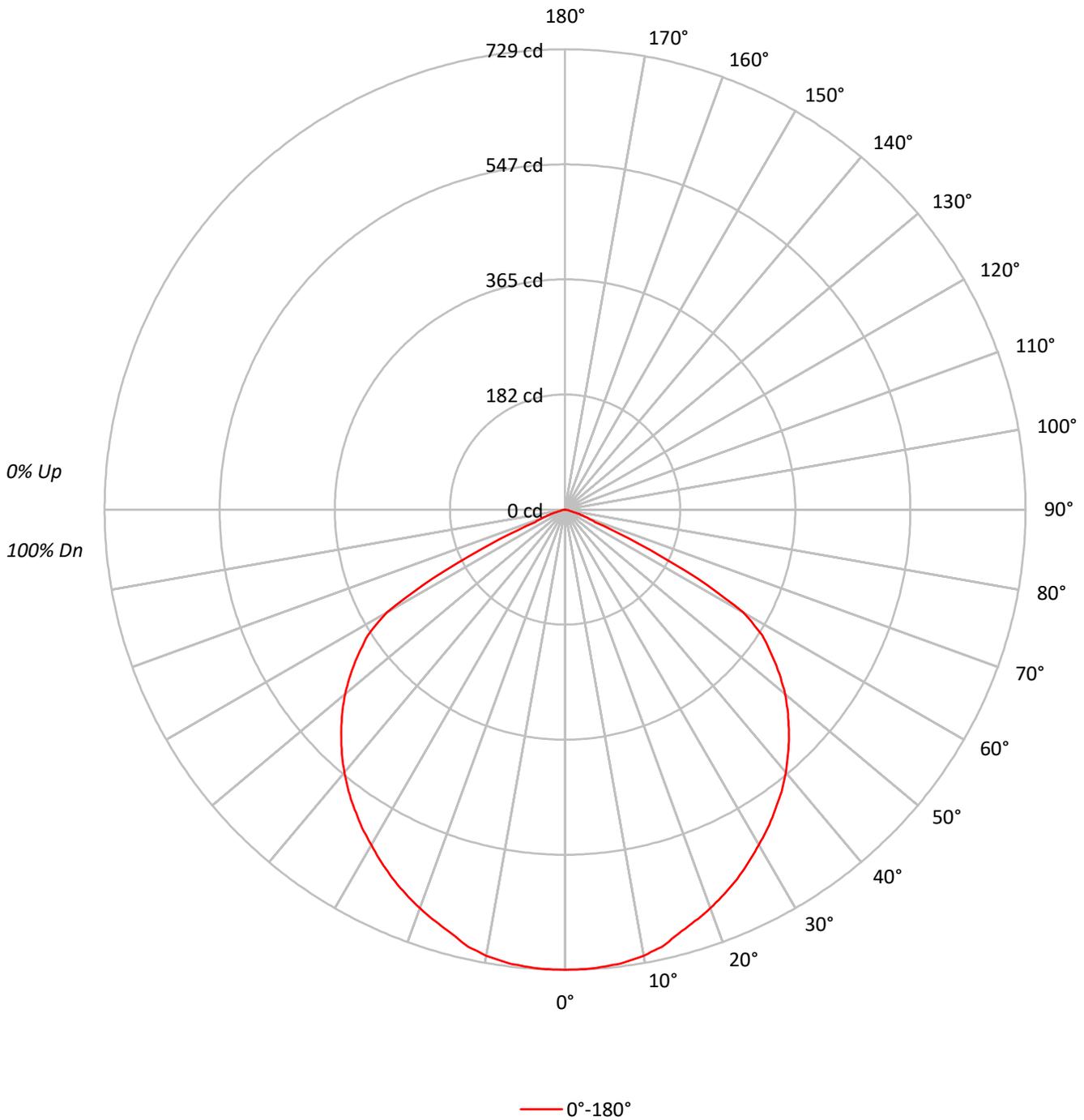
Lumens per Lamp: N/A  
Luminaire Lumens: 1826.6 lumens  
Efficiency: N/A  
Efficacy: 166.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.39  
Luminous Opening: Circular (Dia: 1.75' x H: 0')  
CIE Type: Direct

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									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	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													100															
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88													88															
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76													76															
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65													65															
4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58	56													56															
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49													49															
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43													43															
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38													38															
8	63	50	42	36	62	49	42	36	48	41	36	47	41	36	46	40	36	34													34															
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30													30															
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	27													27															

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

	0°
0°	3262
5°	3264
10°	3260
15°	3220
20°	3201
25°	3186
30°	3171
35°	3170
40°	3176
45°	3171
50°	3165
55°	3112
60°	2915
65°	1360
70°	458
75°	142
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3171 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.1	3.8
10°-20°	196.5	10.8
20°-30°	297.4	16.3
30°-40°	363.4	19.9
40°-50°	386.6	21.2
50°-60°	354.8	19.4
60°-70°	145.6	8.0
70°-80°	13.1	0.7
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°	563.0	30.8
0°-40°	926.4	50.7
0°-60°	1667.9	91.3
0°-90°	1826.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1826.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	729	
5°	727	69
15°	695	197
25°	645	297
35°	580	363
45°	501	387
55°	399	355
65°	128	146
75°	8	13
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	728.9
2.5°	728.4
5°	726.7
7.5°	723.5
10°	717.4
12.5°	709.2
15°	695.0
17.5°	683.6
20°	672.1
22.5°	659.0
25°	645.3
27.5°	629.5
30°	613.6
32.5°	597.8
35°	580.3
37.5°	562.8
40°	543.7
42.5°	522.9
45°	501.1
47.5°	478.7
50°	454.6
52.5°	427.8
55°	398.9
57.5°	369.9
60°	325.7
62.5°	235.0
65°	128.4
67.5°	51.4
70°	35.0
72.5°	24.0
75°	8.2
77.5°	0.5
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	16.90	18.43	17.26	18.75	19.06	16.90	18.43	17.26	18.75	19.06
	3H	16.88	18.25	17.26	18.57	18.94	16.88	18.25	17.26	18.57	18.94
	4H	16.83	18.10	17.23	18.45	18.83	16.83	18.10	17.23	18.45	18.83
	6H	16.77	17.94	17.18	18.31	18.70	16.77	17.94	17.18	18.31	18.70
	8H	16.73	17.85	17.16	18.24	18.64	16.73	17.85	17.16	18.24	18.64
	12H	16.70	17.76	17.13	18.15	18.58	16.70	17.76	17.13	18.15	18.58
4H	2H	16.95	18.22	17.35	18.57	18.95	16.95	18.22	17.35	18.57	18.95
	3H	16.97	18.00	17.38	18.40	18.80	16.97	18.00	17.38	18.40	18.80
	4H	16.91	17.83	17.34	18.24	18.68	16.91	17.83	17.34	18.24	18.68
	6H	16.85	17.64	17.31	18.08	18.55	16.85	17.64	17.31	18.08	18.55
	8H	16.80	17.54	17.27	17.99	18.45	16.80	17.54	17.27	17.99	18.45
	12H	16.77	17.42	17.25	17.90	18.38	16.77	17.42	17.25	17.90	18.38
8H	4H	16.81	17.55	17.27	17.99	18.46	16.81	17.55	17.27	17.99	18.46
	6H	16.72	17.33	17.22	17.82	18.30	16.72	17.33	17.22	17.82	18.30
	8H	16.67	17.21	17.18	17.73	18.22	16.67	17.21	17.18	17.73	18.22
	12H	16.63	17.12	17.14	17.61	18.18	16.63	17.12	17.14	17.61	18.18
12H	4H	16.77	17.43	17.26	17.91	18.38	16.77	17.43	17.26	17.91	18.38
	6H	16.67	17.21	17.18	17.73	18.22	16.67	17.21	17.18	17.73	18.22
	8H	16.63	17.12	17.14	17.61	18.18	16.63	17.12	17.14	17.61	18.18