

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: P980000

Luminaire Tested: PRLX-242-930-LL3-C-U-S-BLAK-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P980000  
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-LL3-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**

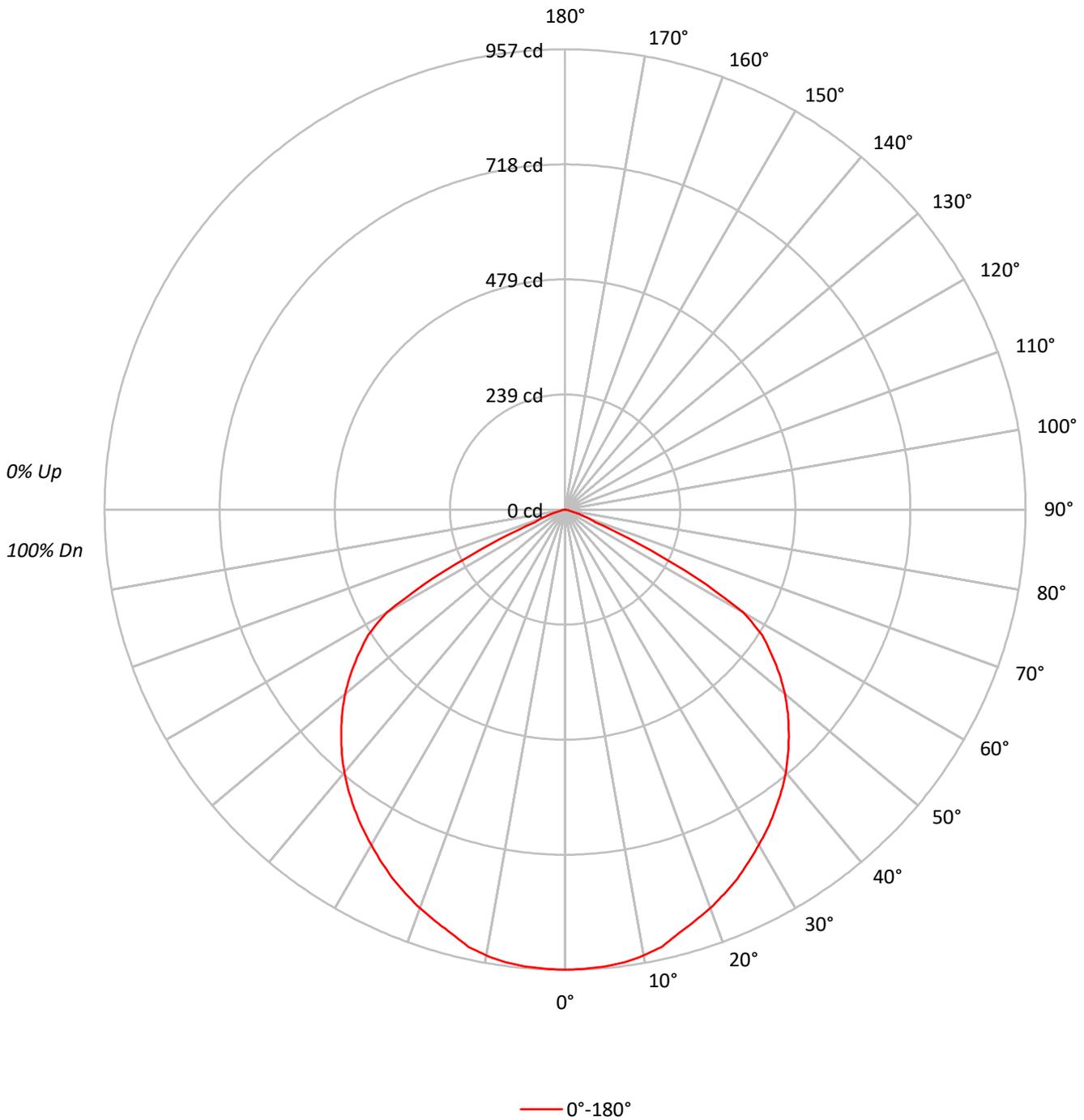
Lumens per Lamp: N/A  
Luminaire Lumens: 2397.2 lumens  
Efficiency: N/A  
Efficacy: 159.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.39  
Luminous Opening: Circular (Dia: 1.75' x H: 0')  
CIE Type: Direct

Input Watts (W): 15  
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	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	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88				
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76				
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65				
4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58	56				
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49				
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43				
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38				
8	63	50	42	36	62	49	42	36	48	41	36	47	41	36	46	40	36	34				
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30				
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	27				

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

	0°
0°	4281
5°	4284
10°	4278
15°	4226
20°	4200
25°	4182
30°	4161
35°	4161
40°	4168
45°	4162
50°	4154
55°	4084
60°	3825
65°	1784
70°	601
75°	187
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4162 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.7	3.8
10°-20°	257.9	10.8
20°-30°	390.2	16.3
30°-40°	477.0	19.9
40°-50°	507.4	21.2
50°-60°	465.7	19.4
60°-70°	191.1	8.0
70°-80°	17.3	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°	738.8	30.8
0°-40°	1215.7	50.7
0°-60°	2188.9	91.3
0°-90°	2397.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2397.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	957	
5°	954	91
15°	912	258
25°	847	390
35°	762	477
45°	658	507
55°	524	466
65°	168	191
75°	11	17
85°	0	0
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	956.6
2.5°	955.9
5°	953.7
7.5°	949.4
10°	941.5
12.5°	930.8
15°	912.1
17.5°	897.1
20°	882.0
22.5°	864.8
25°	846.9
27.5°	826.1
30°	805.3
32.5°	784.5
35°	761.6
37.5°	738.6
40°	713.5
42.5°	686.3
45°	657.6
47.5°	628.2
50°	596.6
52.5°	561.5
55°	523.5
57.5°	485.5
60°	427.4
62.5°	308.4
65°	168.5
67.5°	67.4
70°	45.9
72.5°	31.6
75°	10.8
77.5°	0.7
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	17.84	19.38	18.21	19.69	20.01	17.84	19.38	18.21	19.69	20.01
	3H	17.83	19.19	18.21	19.52	19.88	17.83	19.19	18.21	19.52	19.88
	4H	17.78	19.05	18.18	19.40	19.78	17.78	19.05	18.18	19.40	19.78
	6H	17.71	18.88	18.13	19.25	19.64	17.71	18.88	18.13	19.25	19.64
	8H	17.68	18.79	18.11	19.18	19.58	17.68	18.79	18.11	19.18	19.58
	12H	17.65	18.71	18.08	19.09	19.52	17.65	18.71	18.08	19.09	19.52
4H	2H	17.90	19.17	18.30	19.52	19.90	17.90	19.17	18.30	19.52	19.90
	3H	17.91	18.95	18.32	19.35	19.75	17.91	18.95	18.32	19.35	19.75
	4H	17.85	18.77	18.29	19.19	19.63	17.85	18.77	18.29	19.19	19.63
	6H	17.79	18.59	18.25	19.03	19.49	17.79	18.59	18.25	19.03	19.49
	8H	17.75	18.49	18.21	18.93	19.40	17.75	18.49	18.21	18.93	19.40
	12H	17.71	18.37	18.19	18.85	19.32	17.71	18.37	18.19	18.85	19.32
8H	4H	17.75	18.49	18.22	18.94	19.41	17.75	18.49	18.22	18.94	19.41
	6H	17.67	18.28	18.17	18.77	19.25	17.67	18.28	18.17	18.77	19.25
	8H	17.61	18.16	18.13	18.67	19.16	17.61	18.16	18.13	18.67	19.16
	12H	17.58	18.06	18.09	18.55	19.12	17.58	18.06	18.09	18.55	19.12
12H	4H	17.72	18.38	18.20	18.86	19.33	17.72	18.38	18.20	18.86	19.33
	6H	17.61	18.16	18.13	18.67	19.16	17.61	18.16	18.13	18.67	19.16
	8H	17.58	18.06	18.09	18.55	19.12	17.58	18.06	18.09	18.55	19.12