

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: P979282

Luminaire Tested: PRLX-240-927-LL3-F-U-S-BLAK-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979282  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-240-927-LL3-F-U-S-BLAK-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 240 SHADE WITH FROSTED LENS  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

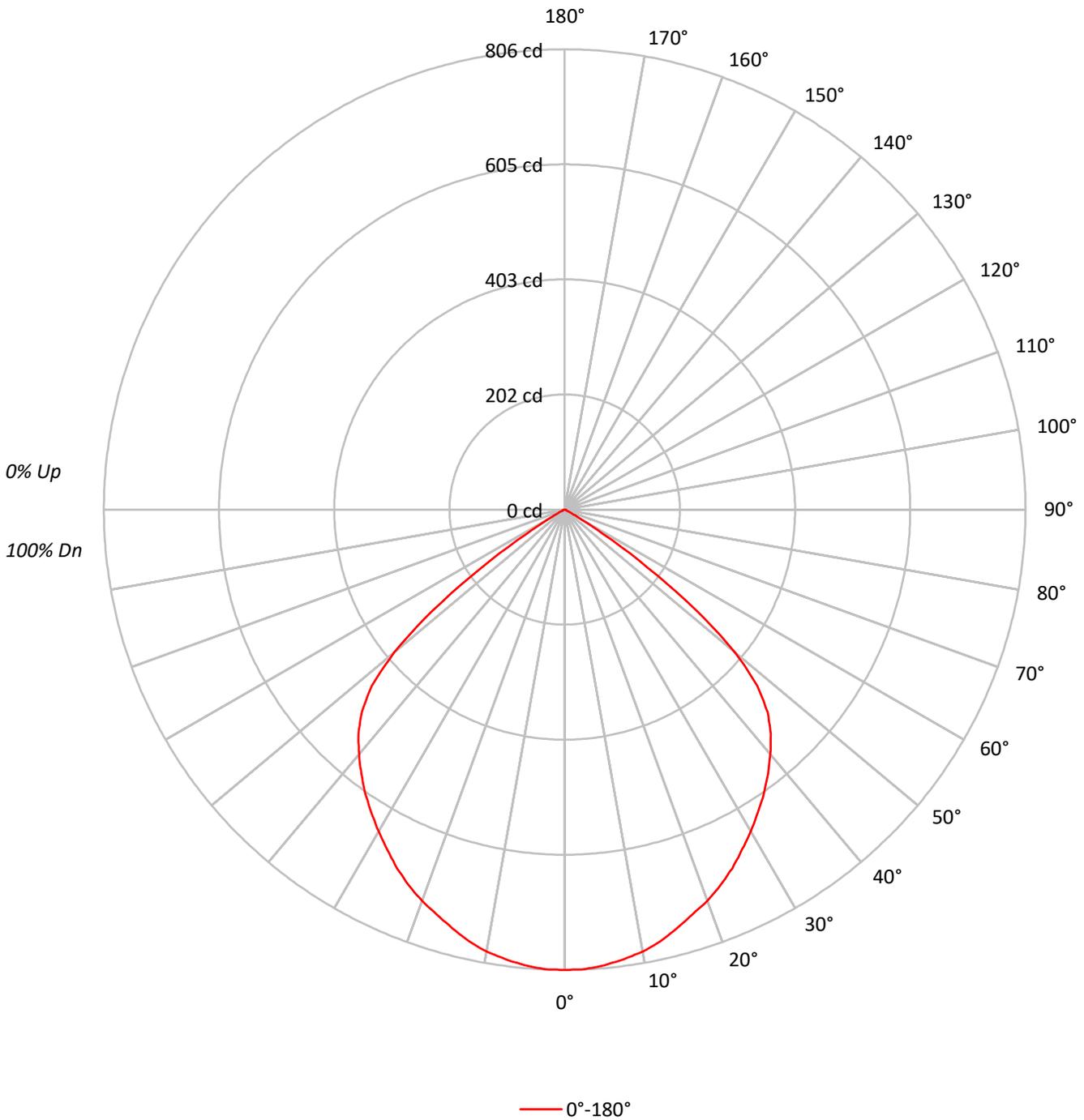
Lumens per Lamp: N/A  
Luminaire Lumens: 1543.2 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.33  
Luminous Opening: Circular (Dia: 1.17' x H: 0')  
CIE Type: Direct

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			100	
1	112	109	106	103	110	106	104	101	102	100	98	99	97	95	95	94	92	90			90	
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81			81	
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72			72	
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64			64	
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57			57	
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51			51	
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	57	51	47	46			46	
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43	41			41	
9	64	52	45	40	63	51	44	40	50	44	39	49	43	39	48	43	39	37			37	
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34			34	

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

	0°
0°	8119
5°	8095
10°	8036
15°	7911
20°	7814
25°	7703
30°	7565
35°	7466
40°	7353
45°	7147
50°	6092
55°	3111
60°	503
65°	64
70°	59
75°	78
80°	81
85°	81

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7147 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.0	4.9
10°-20°	214.2	13.9
20°-30°	319.1	20.7
30°-40°	379.8	24.6
40°-50°	379.1	24.6
50°-60°	166.3	10.8
60°-70°	5.7	0.4
70°-80°	2.0	0.1
80°-90°	1.0	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°	609.3	39.5
0°-40°	989.1	64.1
0°-60°	1534.5	99.4
0°-90°	1543.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1543.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	806	
5°	801	76
15°	759	214
25°	693	319
35°	607	380
45°	502	379
55°	177	166
65°	3	6
75°	2	2
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	806.3
2.5°	805.6
5°	800.9
7.5°	794.1
10°	786.0
12.5°	774.5
15°	758.9
17.5°	743.4
20°	729.2
22.5°	712.3
25°	693.3
27.5°	671.7
30°	650.7
32.5°	629.1
35°	607.4
37.5°	583.8
40°	559.4
42.5°	533.7
45°	501.9
47.5°	457.3
50°	388.9
52.5°	292.2
55°	177.2
57.5°	79.8
60°	25.0
62.5°	5.4
65°	2.7
67.5°	2.0
70°	2.0
72.5°	2.0
75°	2.0
77.5°	2.0
80°	1.4
82.5°	1.4
85°	0.7
87.5°	0.7
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	9.58	10.92	9.94	11.24	11.55	9.58	10.92	9.94	11.24	11.55
	3H	9.46	10.63	9.83	10.96	11.33	9.46	10.63	9.83	10.96	11.33
	4H	9.39	10.48	9.79	10.83	11.22	9.39	10.48	9.79	10.83	11.22
	6H	9.32	10.32	9.73	10.69	11.08	9.32	10.32	9.73	10.69	11.08
	8H	9.28	10.23	9.71	10.62	11.02	9.28	10.23	9.71	10.62	11.02
	12H	9.24	10.15	9.67	10.53	10.96	9.24	10.15	9.67	10.53	10.96
4H	2H	9.38	10.47	9.78	10.82	11.21	9.38	10.47	9.78	10.82	11.21
	3H	9.26	10.14	9.67	10.54	10.94	9.26	10.14	9.67	10.54	10.94
	4H	9.18	9.96	9.62	10.38	10.82	9.18	9.96	9.62	10.38	10.82
	6H	9.11	9.78	9.58	10.23	10.69	9.11	9.78	9.58	10.23	10.69
	8H	9.06	9.69	9.53	10.13	10.61	9.06	9.69	9.53	10.13	10.61
	12H	9.02	9.57	9.51	10.05	10.53	9.02	9.57	9.51	10.05	10.53
8H	4H	9.04	9.67	9.51	10.12	10.59	9.04	9.67	9.51	10.12	10.59
	6H	8.95	9.47	9.46	9.97	10.45	8.95	9.47	9.46	9.97	10.45
	8H	8.90	9.37	9.42	9.88	10.37	8.90	9.37	9.42	9.88	10.37
	12H	8.85	9.28	9.37	9.77	10.34	8.85	9.28	9.37	9.77	10.34
12H	4H	9.00	9.55	9.48	10.03	10.51	9.00	9.55	9.48	10.03	10.51
	6H	8.89	9.35	9.41	9.87	10.36	8.89	9.35	9.41	9.87	10.36
	8H	8.85	9.27	9.36	9.77	10.34	8.85	9.27	9.36	9.77	10.34