

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: P979591

Luminaire Tested: PRLX-241-927-LL2-C-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979591  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-241-927-LL2-C-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH CLEAR LENS  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

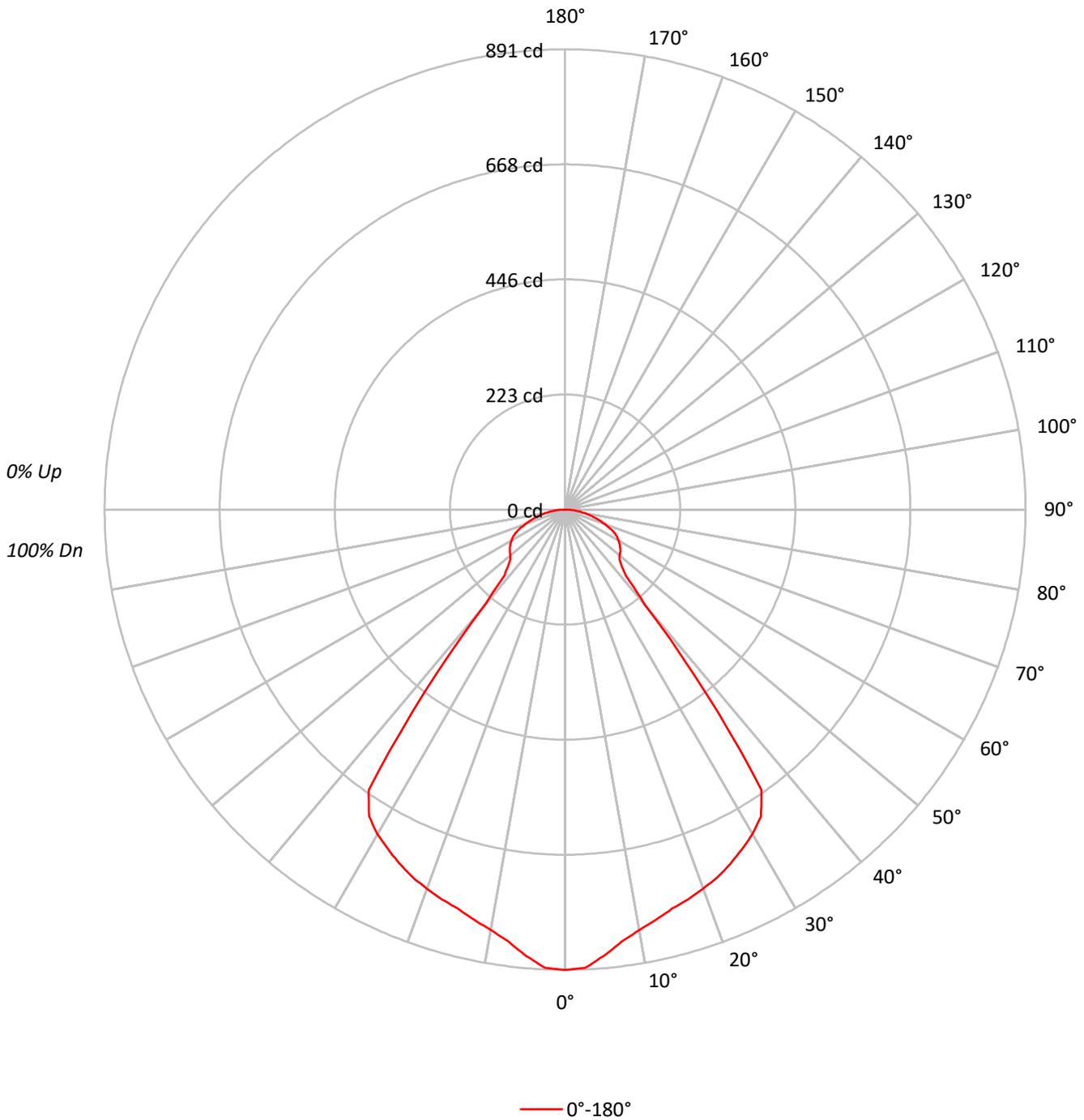
Lumens per Lamp: N/A  
Luminaire Lumens: 1437.9 lumens  
Efficiency: N/A  
Efficacy: 130.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.09  
Luminous Opening: Circular (Dia: 1.33' x H: 0')  
CIE Type: Direct

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	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	101	98	100	98	95	97	94	92	93	91	90	88				88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77				77
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68				68
4	89	79	71	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61				61
5	83	72	64	59	81	71	64	59	69	63	58	67	62	57	65	61	57	55				55
6	78	66	59	53	76	65	58	53	64	57	52	62	56	52	61	56	52	50				50
7	73	61	54	48	71	60	53	48	59	53	48	58	52	48	56	51	47	45				45
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42				42
9	65	53	46	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38				38
10	61	49	42	38	60	49	42	37	48	42	37	47	41	37	46	41	37	36				36

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

	0°
0°	6870
5°	6709
10°	6468
15°	6384
20°	6406
25°	6436
30°	6456
35°	6233
40°	2407
45°	1691
50°	1656
55°	1753
60°	1844
65°	1899
70°	1835
75°	1734
80°	1625
85°	1504

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 65°  
 Luminance: 1899 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.4	5.7
10°-20°	226.7	15.8
20°-30°	348.9	24.3
30°-40°	354.8	24.7
40°-50°	127.1	8.8
50°-60°	116.2	8.1
60°-70°	101.6	7.1
70°-80°	61.8	4.3
80°-90°	19.4	1.4
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°	656.9	45.7
0°-40°	1011.8	70.4
0°-60°	1255.1	87.3
0°-90°	1437.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1437.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	891	
5°	867	81
15°	800	227
25°	757	349
35°	662	355
45°	155	127
55°	130	116
65°	104	102
75°	58	62
85°	17	19
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	891.2
2.5°	888.1
5°	866.9
7.5°	843.2
10°	826.2
12.5°	813.3
15°	799.9
17.5°	791.2
20°	780.9
22.5°	770.6
25°	756.6
27.5°	741.2
30°	725.2
32.5°	705.1
35°	662.3
37.5°	448.4
40°	239.2
42.5°	174.2
45°	155.1
47.5°	143.3
50°	138.1
52.5°	134.5
55°	130.4
57.5°	125.2
60°	119.6
62.5°	112.9
65°	104.1
67.5°	92.8
70°	81.4
72.5°	69.6
75°	58.2
77.5°	47.4
80°	36.6
82.5°	26.8
85°	17.0
87.5°	9.3
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	12.40	13.73	12.77	14.04	14.35	12.40	13.73	12.77	14.04	14.35
	3H	14.56	15.75	14.94	16.08	16.44	14.56	15.75	14.94	16.08	16.44
	4H	15.34	16.46	15.75	16.81	17.19	15.34	16.46	15.75	16.81	17.19
	6H	15.93	16.96	16.35	17.33	17.72	15.93	16.96	16.35	17.33	17.72
	8H	16.14	17.11	16.57	17.50	17.91	16.14	17.11	16.57	17.50	17.91
	12H	16.28	17.21	16.71	17.59	18.02	16.28	17.21	16.71	17.59	18.02
4H	2H	13.15	14.26	13.55	14.61	15.00	13.15	14.26	13.55	14.61	15.00
	3H	15.47	16.40	15.88	16.80	17.20	15.47	16.40	15.88	16.80	17.20
	4H	16.37	17.20	16.80	17.62	18.06	16.37	17.20	16.80	17.62	18.06
	6H	17.08	17.81	17.54	18.25	18.72	17.08	17.81	17.54	18.25	18.72
	8H	17.33	18.01	17.80	18.46	18.93	17.33	18.01	17.80	18.46	18.93
	12H	17.52	18.12	18.00	18.60	19.07	17.52	18.12	18.00	18.60	19.07
8H	4H	16.69	17.37	17.16	17.81	18.28	16.69	17.37	17.16	17.81	18.28
	6H	17.54	18.10	18.05	18.59	19.07	17.54	18.10	18.05	18.59	19.07
	8H	17.88	18.38	18.40	18.89	19.38	17.88	18.38	18.40	18.89	19.38
	12H	18.17	18.60	18.68	19.09	19.66	18.17	18.60	18.68	19.09	19.66
12H	4H	16.72	17.32	17.20	17.80	18.27	16.72	17.32	17.20	17.80	18.27
	6H	17.61	18.10	18.13	18.62	19.11	17.61	18.10	18.13	18.62	19.11
	8H	18.01	18.44	18.53	18.94	19.51	18.01	18.44	18.53	18.94	19.51