

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: P979671

Luminaire Tested: PRLX-241-930-LL2-C-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979671  
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-241-930-LL2-C-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH CLEAR LENS  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

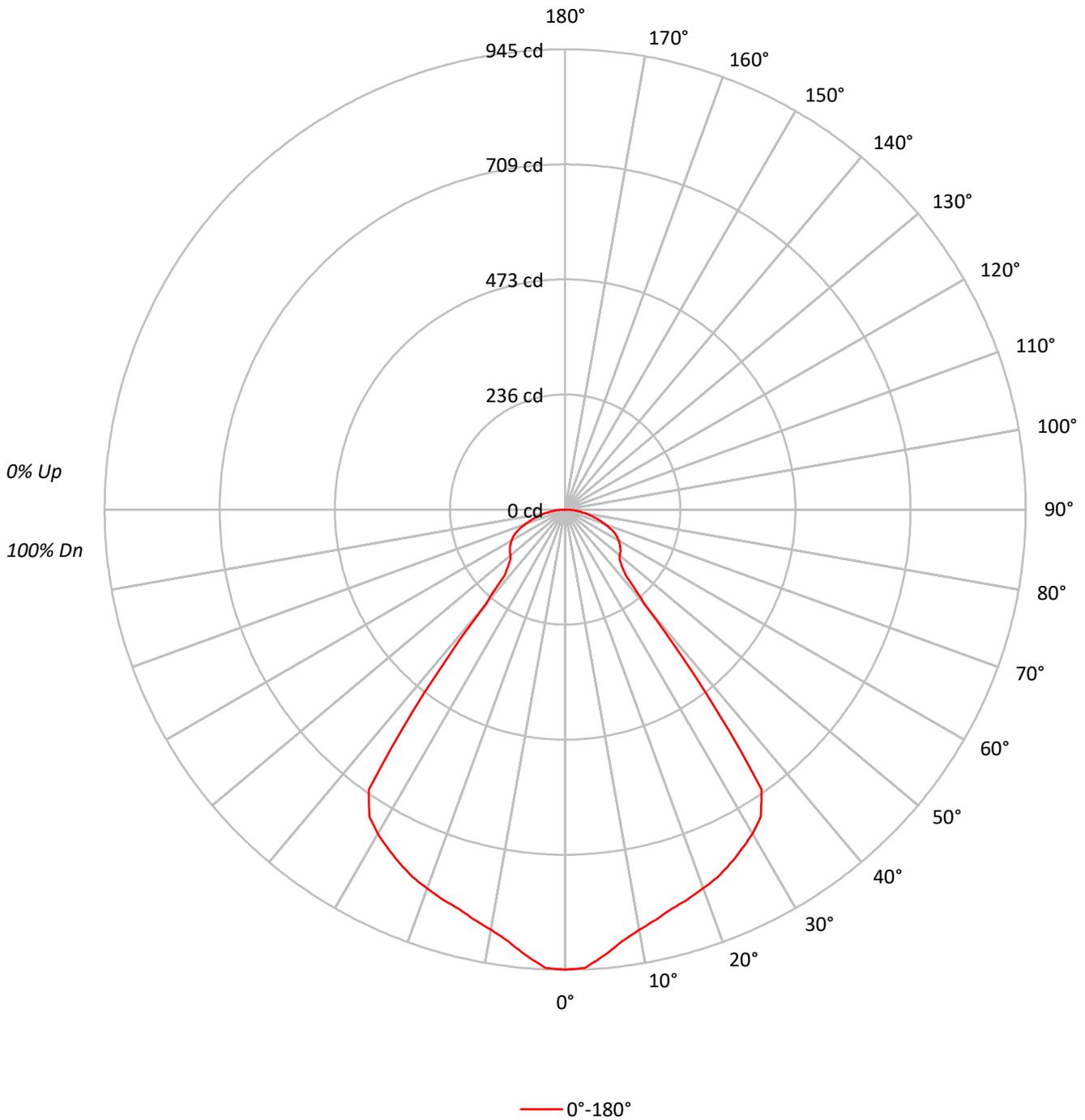
Lumens per Lamp: N/A  
Luminaire Lumens: 1524.4 lumens  
Efficiency: N/A  
Efficacy: 138.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.09  
Luminous Opening: Circular (Dia: 1.33' x H: 0')  
CIE Type: Direct

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

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

	0°
0°	7283
5°	7112
10°	6857
15°	6768
20°	6791
25°	6823
30°	6844
35°	6608
40°	2551
45°	1793
50°	1756
55°	1857
60°	1955
65°	2014
70°	1945
75°	1838
80°	1723
85°	1592

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 65°  
 Luminance: 2014 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.3	5.7
10°-20°	240.3	15.8
20°-30°	369.8	24.3
30°-40°	376.2	24.7
40°-50°	134.8	8.8
50°-60°	123.2	8.1
60°-70°	107.7	7.1
70°-80°	65.5	4.3
80°-90°	20.6	1.3
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°	696.4	45.7
0°-40°	1072.6	70.4
0°-60°	1330.6	87.3
0°-90°	1524.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1524.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	945	
5°	919	86
15°	848	240
25°	802	370
35°	702	376
45°	164	135
55°	138	123
65°	110	108
75°	62	65
85°	18	21
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	944.7
2.5°	941.5
5°	919.1
7.5°	893.9
10°	875.9
12.5°	862.2
15°	848.0
17.5°	838.7
20°	827.8
22.5°	816.9
25°	802.1
27.5°	785.7
30°	768.8
32.5°	747.5
35°	702.1
37.5°	475.4
40°	253.5
42.5°	184.7
45°	164.5
47.5°	151.9
50°	146.4
52.5°	142.6
55°	138.2
57.5°	132.8
60°	126.8
62.5°	119.7
65°	110.4
67.5°	98.4
70°	86.3
72.5°	73.8
75°	61.7
77.5°	50.3
80°	38.8
82.5°	28.4
85°	18.0
87.5°	9.8
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	12.61	13.93	12.98	14.25	14.56	12.61	13.93	12.98	14.25	14.56
	3H	14.77	15.96	15.15	16.29	16.65	14.77	15.96	15.15	16.29	16.65
	4H	15.55	16.66	15.95	17.01	17.39	15.55	16.66	15.95	17.01	17.39
	6H	16.14	17.16	16.55	17.53	17.93	16.14	17.16	16.55	17.53	17.93
	8H	16.34	17.31	16.77	17.71	18.11	16.34	17.31	16.77	17.71	18.11
	12H	16.48	17.41	16.91	17.79	18.23	16.48	17.41	16.91	17.79	18.23
4H	2H	13.36	14.47	13.76	14.82	15.20	13.36	14.47	13.76	14.82	15.20
	3H	15.68	16.60	16.09	17.01	17.41	15.68	16.60	16.09	17.01	17.41
	4H	16.57	17.41	17.01	17.83	18.27	16.57	17.41	17.01	17.83	18.27
	6H	17.29	18.01	17.75	18.46	18.92	17.29	18.01	17.75	18.46	18.92
	8H	17.54	18.21	18.00	18.66	19.13	17.54	18.21	18.00	18.66	19.13
	12H	17.72	18.32	18.21	18.80	19.28	17.72	18.32	18.21	18.80	19.28
8H	4H	16.89	17.57	17.36	18.02	18.49	16.89	17.57	17.36	18.02	18.49
	6H	17.75	18.30	18.25	18.80	19.28	17.75	18.30	18.25	18.80	19.28
	8H	18.09	18.58	18.61	19.10	19.59	18.09	18.58	18.61	19.10	19.59
	12H	18.37	18.80	18.88	19.30	19.87	18.37	18.80	18.88	19.30	19.87
12H	4H	16.92	17.52	17.41	18.00	18.48	16.92	17.52	17.41	18.00	18.48
	6H	17.81	18.31	18.33	18.82	19.31	17.81	18.31	18.33	18.82	19.31
	8H	18.22	18.65	18.73	19.14	19.71	18.22	18.65	18.73	19.14	19.71