

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: P980353

Luminaire Tested: PRLX-243-930-LL6-F-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P980353  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-32)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-243-930-LL6-F-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 243 SHADE WITH FROSTED LENS  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

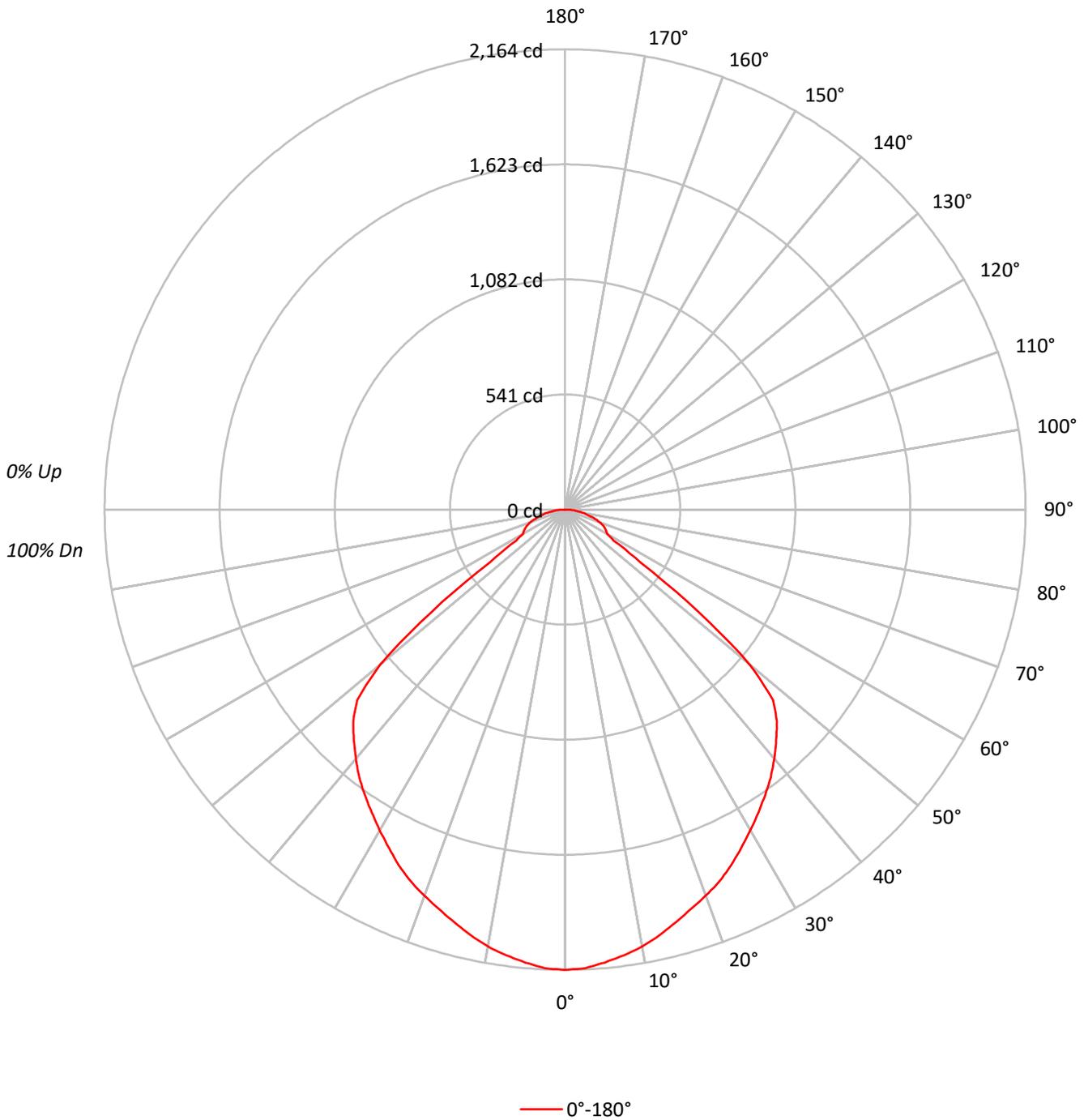
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4574.5 lumens  
Efficiency: N/A  
Efficacy: 136.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.36  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 33.5  
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	99	100	98	95	97	95	93	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	46
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42
8	66	53	45	40	64	53	45	40	51	45	40	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31

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

	0°
0°	10679
5°	10588
10°	10451
15°	10262
20°	10144
25°	10051
30°	9920
35°	9873
40°	9852
45°	9817
50°	8710
55°	3729
60°	2248
65°	2400
70°	2475
75°	2398
80°	2313
85°	2344

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9817 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.5	4.4
10°-20°	567.3	12.4
20°-30°	850.2	18.6
30°-40°	1026.4	22.4
40°-50°	1067.7	23.3
50°-60°	480.3	10.5
60°-70°	201.6	4.4
70°-80°	133.3	2.9
80°-90°	45.3	1.0
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°	1620.0	35.4
0°-40°	2646.3	57.8
0°-60°	4194.4	91.7
0°-90°	4574.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4574.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2164	
5°	2138	202
15°	2009	567
25°	1846	850
35°	1639	1026
45°	1407	1068
55°	434	480
65°	206	202
75°	126	133
85°	41	45
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2164.4
2.5°	2158.5
5°	2137.8
7.5°	2114.1
10°	2086.0
12.5°	2050.5
15°	2009.1
17.5°	1969.1
20°	1932.1
22.5°	1893.7
25°	1846.3
27.5°	1793.1
30°	1741.3
32.5°	1689.5
35°	1639.2
37.5°	1587.4
40°	1529.7
42.5°	1469.1
45°	1406.9
47.5°	1325.6
50°	1134.7
52.5°	793.0
55°	433.5
57.5°	270.7
60°	227.8
62.5°	217.5
65°	205.6
67.5°	190.8
70°	171.6
72.5°	149.4
75°	125.8
77.5°	103.6
80°	81.4
82.5°	60.7
85°	41.4
87.5°	23.7
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	11.97	13.42	12.34	13.73	14.05	11.97	13.42	12.34	13.73	14.05
	3H	14.06	15.35	14.44	15.68	16.04	14.06	15.35	14.44	15.68	16.04
	4H	14.89	16.09	15.29	16.44	16.82	14.89	16.09	15.29	16.44	16.82
	6H	15.54	16.64	15.95	17.01	17.40	15.54	16.64	15.95	17.01	17.40
	8H	15.77	16.82	16.20	17.21	17.62	15.77	16.82	16.20	17.21	17.62
	12H	15.95	16.96	16.38	17.34	17.77	15.95	16.96	16.38	17.34	17.77
4H	2H	12.63	13.83	13.03	14.18	14.56	12.63	13.83	13.03	14.18	14.56
	3H	14.98	15.96	15.39	16.36	16.76	14.98	15.96	15.39	16.36	16.76
	4H	15.94	16.82	16.37	17.24	17.68	15.94	16.82	16.37	17.24	17.68
	6H	16.72	17.48	17.18	17.93	18.39	16.72	17.48	17.18	17.93	18.39
	8H	17.01	17.72	17.47	18.17	18.64	17.01	17.72	17.47	18.17	18.64
	12H	17.24	17.88	17.73	18.36	18.83	17.24	17.88	17.73	18.36	18.83
8H	4H	16.29	17.01	16.76	17.45	17.92	16.29	17.01	16.76	17.45	17.92
	6H	17.21	17.81	17.71	18.30	18.78	17.21	17.81	17.71	18.30	18.78
	8H	17.59	18.13	18.11	18.64	19.13	17.59	18.13	18.11	18.64	19.13
	12H	17.93	18.41	18.44	18.90	19.47	17.93	18.41	18.44	18.90	19.47
12H	4H	16.33	16.97	16.81	17.45	17.92	16.33	16.97	16.81	17.45	17.92
	6H	17.28	17.82	17.80	18.33	18.82	17.28	17.82	17.80	18.33	18.82
	8H	17.73	18.21	18.24	18.70	19.27	17.73	18.21	18.24	18.70	19.27