

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: P980261

Luminaire Tested: PRLX-243-927-LL5-C-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P980261  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-31)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-243-927-LL5-C-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 243 SHADE WITH CLEAR LENS  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

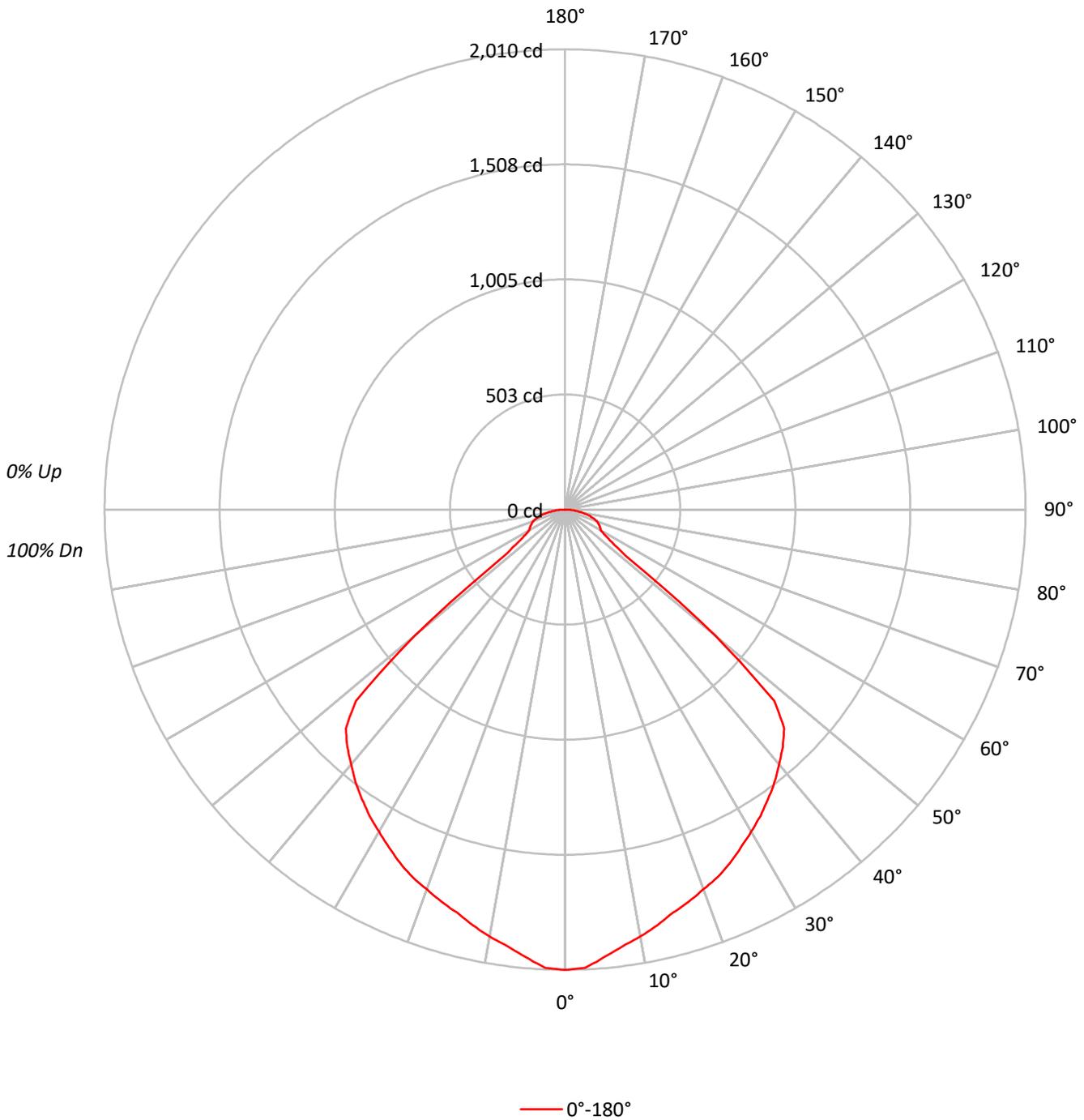
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4056.9 lumens  
Efficiency: N/A  
Efficacy: 137.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.38  
Luminous Opening: Circular (Dia: 1.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 29.5  
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									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	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	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88													88															
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77													77															
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68													68															
4	88	78	71	65	86	77	70	65	75	68	64	72	67	63	70	66	62	60													60															
5	82	71	63	57	80	70	63	57	68	61	56	66	60	56	64	59	55	53													53															
6	76	65	57	51	75	64	56	51	62	55	50	60	55	50	59	54	50	48													48															
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43													43															
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39													39															
9	62	50	43	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35													35															
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32													32															

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

	0°
0°	9917
5°	9720
10°	9487
15°	9308
20°	9265
25°	9273
30°	9254
35°	9301
40°	9357
45°	9438
50°	6556
55°	2133
60°	1779
65°	1930
70°	2113
75°	2196
80°	2100
85°	2129

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9438 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.1	4.6
10°-20°	516.0	12.7
20°-30°	784.8	19.3
30°-40°	967.1	23.8
40°-50°	992.1	24.5
50°-60°	288.3	7.1
60°-70°	163.1	4.0
70°-80°	119.3	2.9
80°-90°	41.1	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°	1485.9	36.6
0°-40°	2453.0	60.5
0°-60°	3733.4	92.0
0°-90°	4056.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4056.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2010	
5°	1962	185
15°	1822	516
25°	1703	785
35°	1544	967
45°	1353	992
55°	248	288
65°	165	163
75°	115	119
85°	38	41
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2010.1
2.5°	2003.8
5°	1962.5
7.5°	1923.7
10°	1893.6
12.5°	1859.8
15°	1822.2
17.5°	1795.9
20°	1764.6
22.5°	1738.3
25°	1703.3
27.5°	1663.2
30°	1624.4
32.5°	1586.8
35°	1544.2
37.5°	1501.6
40°	1452.8
42.5°	1406.5
45°	1352.6
47.5°	1238.6
50°	854.1
52.5°	335.6
55°	248.0
57.5°	204.1
60°	180.3
62.5°	172.8
65°	165.3
67.5°	156.6
70°	146.5
72.5°	132.8
75°	115.2
77.5°	93.9
80°	73.9
82.5°	55.1
85°	37.6
87.5°	21.3
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	10.49	11.91	10.86	12.22	12.53	10.49	11.91	10.86	12.22	12.53
	3H	12.92	14.17	13.29	14.50	14.86	12.92	14.17	13.29	14.50	14.86
	4H	13.97	15.14	14.38	15.49	15.88	13.97	15.14	14.38	15.49	15.88
	6H	14.76	15.84	15.17	16.20	16.60	14.76	15.84	15.17	16.20	16.60
	8H	15.04	16.06	15.46	16.45	16.85	15.04	16.06	15.46	16.45	16.85
	12H	15.25	16.23	15.68	16.61	17.04	15.25	16.23	15.68	16.61	17.04
4H	2H	11.24	12.41	11.64	12.76	13.14	11.24	12.41	11.64	12.76	13.14
	3H	13.94	14.90	14.35	15.30	15.70	13.94	14.90	14.35	15.30	15.70
	4H	15.13	15.99	15.56	16.41	16.85	15.13	15.99	15.56	16.41	16.85
	6H	16.04	16.79	16.50	17.23	17.70	16.04	16.79	16.50	17.23	17.70
	8H	16.37	17.07	16.84	17.51	17.98	16.37	17.07	16.84	17.51	17.98
	12H	16.64	17.26	17.12	17.74	18.21	16.64	17.26	17.12	17.74	18.21
8H	4H	15.55	16.25	16.02	16.70	17.16	15.55	16.25	16.02	16.70	17.16
	6H	16.61	17.18	17.11	17.68	18.16	16.61	17.18	17.11	17.68	18.16
	8H	17.03	17.55	17.55	18.06	18.55	17.03	17.55	17.55	18.06	18.55
	12H	17.40	17.87	17.91	18.36	18.93	17.40	17.87	17.91	18.36	18.93
12H	4H	15.60	16.22	16.08	16.70	17.17	15.60	16.22	16.08	16.70	17.17
	6H	16.69	17.21	17.21	17.73	18.22	16.69	17.21	17.21	17.73	18.22
	8H	17.18	17.65	17.70	18.14	18.71	17.18	17.65	17.70	18.14	18.71