

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: P980383

Luminaire Tested: PRLX-243-935-LL1-F-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P980383  
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-243-935-LL1-F-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 243 SHADE WITH FROSTED LENS  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

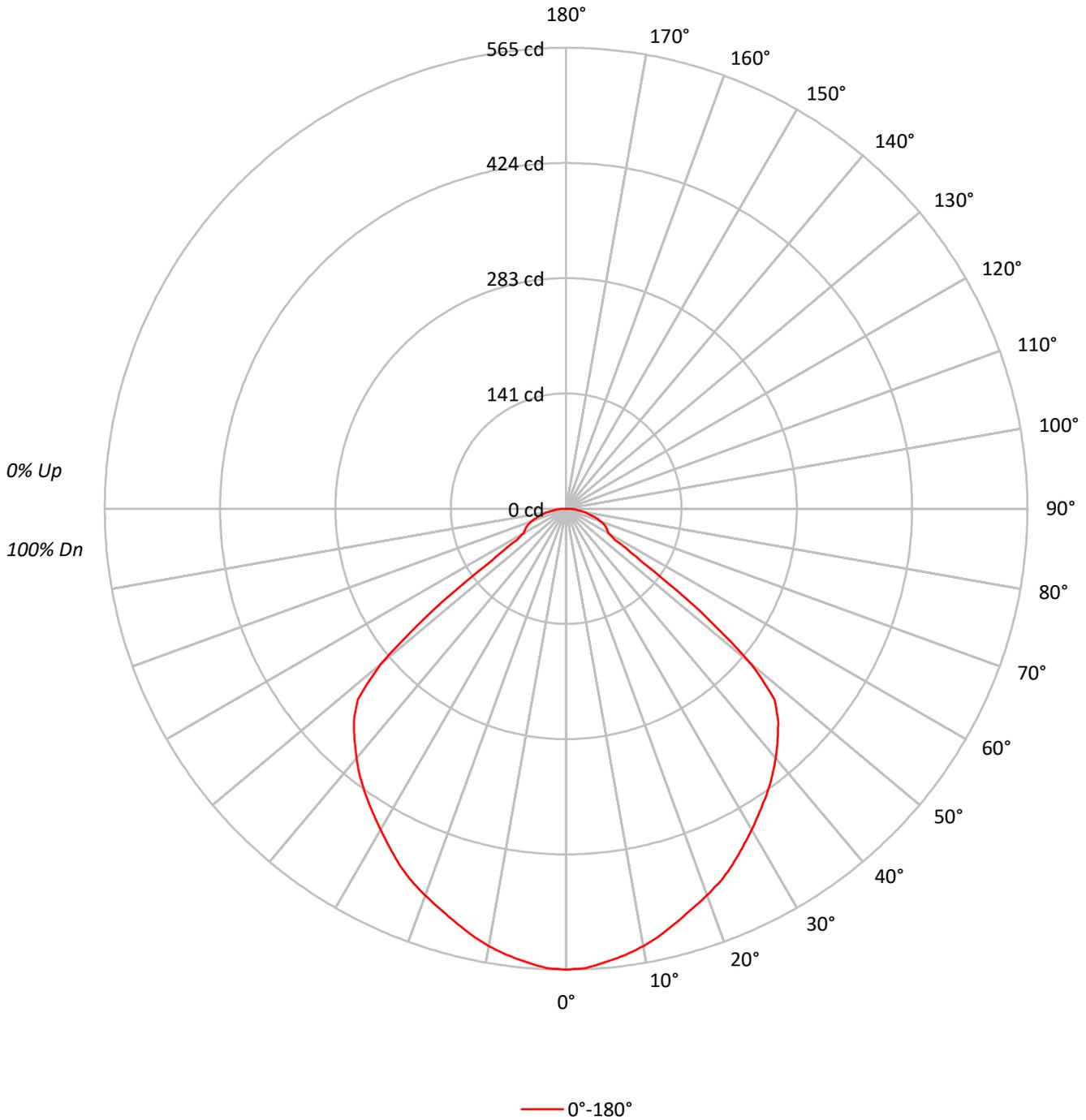
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1194.1 lumens  
Efficiency: N/A  
Efficacy: 159.2 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): 7.5  
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	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88													88															
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77													77															
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67													67															
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59													59															
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52													52															
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	46													46															
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42													42															
8	66	53	45	40	64	53	45	40	51	45	40	50	44	39	49	43	39	37													37															
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34													34															
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31													31															

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

	0°
0°	2788
5°	2764
10°	2728
15°	2679
20°	2648
25°	2624
30°	2589
35°	2577
40°	2572
45°	2563
50°	2274
55°	974
60°	587
65°	627
70°	646
75°	625
80°	602
85°	611

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2563 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.9	4.4
10°-20°	148.1	12.4
20°-30°	221.9	18.6
30°-40°	267.9	22.4
40°-50°	278.7	23.3
50°-60°	125.4	10.5
60°-70°	52.6	4.4
70°-80°	34.8	2.9
80°-90°	11.8	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°	422.9	35.4
0°-40°	690.8	57.9
0°-60°	1094.9	91.7
0°-90°	1194.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1194.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	565	
5°	558	53
15°	524	148
25°	482	222
35°	428	268
45°	367	279
55°	113	125
65°	54	53
75°	33	35
85°	11	12
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	565.0
2.5°	563.5
5°	558.0
7.5°	551.9
10°	544.5
12.5°	535.3
15°	524.4
17.5°	514.0
20°	504.4
22.5°	494.3
25°	482.0
27.5°	468.1
30°	454.5
32.5°	441.0
35°	427.9
37.5°	414.4
40°	399.3
42.5°	383.5
45°	367.3
47.5°	346.0
50°	296.2
52.5°	207.0
55°	113.2
57.5°	70.7
60°	59.5
62.5°	56.8
65°	53.7
67.5°	49.8
70°	44.8
72.5°	39.0
75°	32.8
77.5°	27.0
80°	21.2
82.5°	15.8
85°	10.8
87.5°	6.2
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	7.31	8.76	7.67	9.07	9.38	7.31	8.76	7.67	9.07	9.38
	3H	9.40	10.68	9.78	11.01	11.38	9.40	10.68	9.78	11.01	11.38
	4H	10.22	11.43	10.63	11.78	12.16	10.22	11.43	10.63	11.78	12.16
	6H	10.87	11.98	11.28	12.34	12.74	10.87	11.98	11.28	12.34	12.74
	8H	11.10	12.15	11.53	12.54	12.95	11.10	12.15	11.53	12.54	12.95
	12H	11.28	12.29	11.71	12.67	13.10	11.28	12.29	11.71	12.67	13.10
4H	2H	7.97	9.17	8.37	9.52	9.90	7.97	9.17	8.37	9.52	9.90
	3H	10.31	11.29	10.72	11.70	12.10	10.31	11.29	10.72	11.70	12.10
	4H	11.27	12.15	11.70	12.57	13.01	11.27	12.15	11.70	12.57	13.01
	6H	12.05	12.82	12.51	13.26	13.72	12.05	12.82	12.51	13.26	13.72
	8H	12.34	13.05	12.80	13.50	13.97	12.34	13.05	12.80	13.50	13.97
	12H	12.57	13.21	13.05	13.69	14.16	12.57	13.21	13.05	13.69	14.16
8H	4H	11.62	12.34	12.09	12.78	13.25	11.62	12.34	12.09	12.78	13.25
	6H	12.54	13.14	13.04	13.63	14.11	12.54	13.14	13.04	13.63	14.11
	8H	12.92	13.46	13.44	13.97	14.46	12.92	13.46	13.44	13.97	14.46
	12H	13.25	13.74	13.77	14.23	14.79	13.25	13.74	13.77	14.23	14.79
12H	4H	11.66	12.30	12.14	12.78	13.25	11.66	12.30	12.14	12.78	13.25
	6H	12.61	13.15	13.13	13.66	14.15	12.61	13.15	13.13	13.66	14.15
	8H	13.06	13.54	13.57	14.03	14.60	13.06	13.54	13.57	14.03	14.60