

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: P980453

Luminaire Tested: PRLX-243-935-LL8-F-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P980453  
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-LL8-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: -

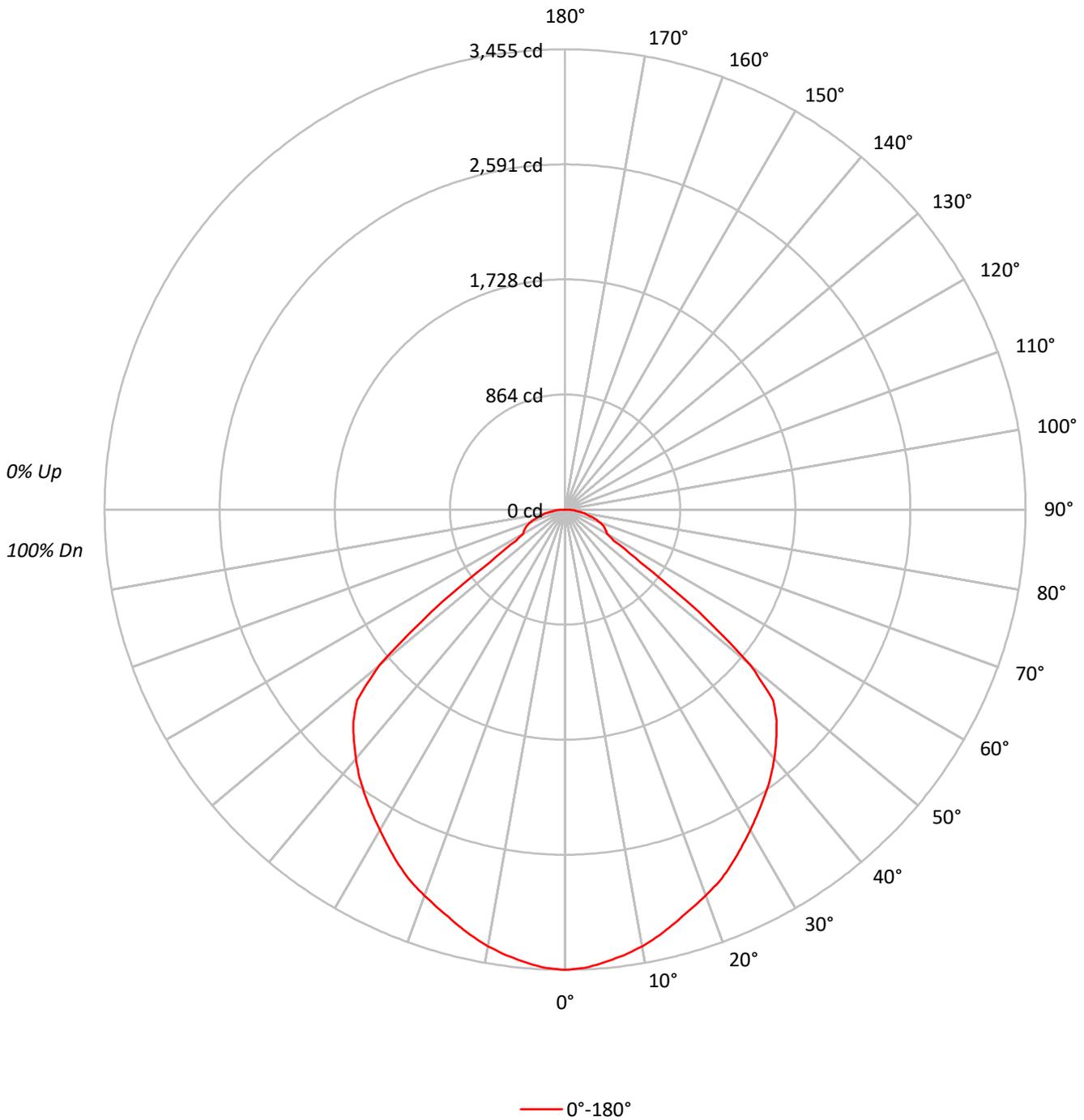
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7301.3 lumens  
Efficiency: N/A  
Efficacy: 118.7 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): 61.5  
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°	17044
5°	16899
10°	16680
15°	16379
20°	16191
25°	16043
30°	15833
35°	15758
40°	15725
45°	15669
50°	13901
55°	5952
60°	3588
65°	3832
70°	3951
75°	3826
80°	3691
85°	3742

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15669 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	323.1	4.4
10°-20°	905.5	12.4
20°-30°	1356.9	18.6
30°-40°	1638.2	22.4
40°-50°	1704.2	23.3
50°-60°	766.6	10.5
60°-70°	321.7	4.4
70°-80°	212.7	2.9
80°-90°	72.3	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°	2585.6	35.4
0°-40°	4223.8	57.8
0°-60°	6694.5	91.7
0°-90°	7301.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7301.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3455	
5°	3412	323
15°	3207	906
25°	2947	1357
35°	2616	1638
45°	2246	1704
55°	692	767
65°	328	322
75°	201	213
85°	66	72
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3454.6
2.5°	3445.1
5°	3412.1
7.5°	3374.3
10°	3329.4
12.5°	3272.7
15°	3206.6
17.5°	3142.9
20°	3083.8
22.5°	3022.4
25°	2946.9
27.5°	2861.9
30°	2779.2
32.5°	2696.6
35°	2616.3
37.5°	2533.7
40°	2441.6
42.5°	2344.8
45°	2245.6
47.5°	2115.7
50°	1811.1
52.5°	1265.6
55°	691.9
57.5°	432.1
60°	363.6
62.5°	347.1
65°	328.2
67.5°	304.6
70°	273.9
72.5°	238.5
75°	200.7
77.5°	165.3
80°	129.9
82.5°	96.8
85°	66.1
87.5°	37.8
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	13.60	15.04	13.96	15.36	15.67	13.60	15.04	13.96	15.36	15.67
	3H	15.69	16.97	16.07	17.30	17.67	15.69	16.97	16.07	17.30	17.67
	4H	16.52	17.72	16.92	18.07	18.45	16.52	17.72	16.92	18.07	18.45
	6H	17.16	18.27	17.58	18.64	19.03	17.16	18.27	17.58	18.64	19.03
	8H	17.40	18.45	17.82	18.84	19.24	17.40	18.45	17.82	18.84	19.24
	12H	17.58	18.58	18.01	18.97	19.39	17.58	18.58	18.01	18.97	19.39
4H	2H	14.26	15.46	14.66	15.81	16.19	14.26	15.46	14.66	15.81	16.19
	3H	16.60	17.58	17.01	17.99	18.39	16.60	17.58	17.01	17.99	18.39
	4H	17.56	18.44	18.00	18.86	19.30	17.56	18.44	18.00	18.86	19.30
	6H	18.34	19.11	18.80	19.55	20.02	18.34	19.11	18.80	19.55	20.02
	8H	18.63	19.35	19.10	19.79	20.26	18.63	19.35	19.10	19.79	20.26
	12H	18.87	19.50	19.35	19.98	20.46	18.87	19.50	19.35	19.98	20.46
8H	4H	17.91	18.63	18.38	19.08	19.54	17.91	18.63	18.38	19.08	19.54
	6H	18.84	19.43	19.34	19.92	20.40	18.84	19.43	19.34	19.92	20.40
	8H	19.21	19.75	19.73	20.26	20.75	19.21	19.75	19.73	20.26	20.75
	12H	19.55	20.03	20.06	20.52	21.09	19.55	20.03	20.06	20.52	21.09
12H	4H	17.95	18.59	18.44	19.07	19.54	17.95	18.59	18.44	19.07	19.54
	6H	18.91	19.45	19.43	19.96	20.45	18.91	19.45	19.43	19.96	20.45
	8H	19.35	19.83	19.86	20.33	20.89	19.35	19.83	19.86	20.33	20.89