

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: P979493

Luminaire Tested: PRLX-240-935-LL8-F-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979493  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-240-935-LL8-F-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH FROSTED LENS  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

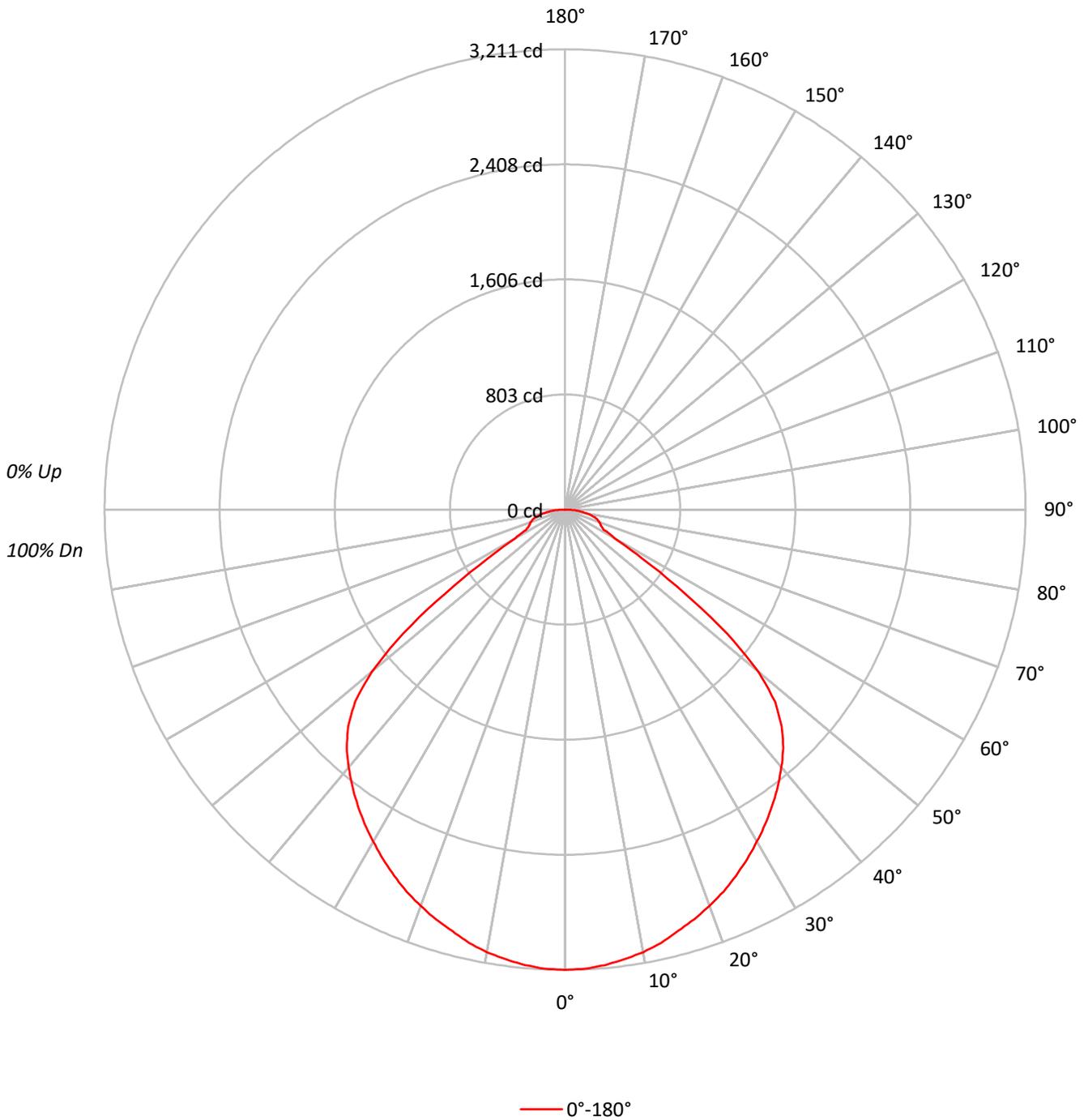
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7186.3 lumens  
Efficiency: N/A  
Efficacy: 116.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37  
Luminous Opening: Circular (Dia: 1.17' 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	104	101	98	100	98	95	96	94	92	93	91	89	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46
7	70	57	49	44	68	56	49	43	55	48	43	54	47	43	52	47	42	41
8	65	52	45	39	64	52	44	39	50	44	39	49	43	39	48	43	38	37
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

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

	0°
0°	32335
5°	32244
10°	32061
15°	31728
20°	31526
25°	31323
30°	31105
35°	30970
40°	30851
45°	30430
50°	27557
55°	17908
60°	8083
65°	6638
70°	7507
75°	8360
80°	8762
85°	9000

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 30430 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	302.7	4.2
10°-20°	860.0	12.0
20°-30°	1299.6	18.1
30°-40°	1577.1	21.9
40°-50°	1625.9	22.6
50°-60°	922.1	12.8
60°-70°	291.6	4.1
70°-80°	222.5	3.1
80°-90°	84.8	1.2
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°	2462.2	34.3
0°-40°	4039.3	56.2
0°-60°	6587.3	91.7
0°-90°	7186.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7186.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3211	
5°	3190	303
15°	3044	860
25°	2819	1300
35°	2520	1577
45°	2137	1626
55°	1020	922
65°	279	292
75°	215	223
85°	78	85
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3211.3
2.5°	3206.6
5°	3190.1
7.5°	3164.1
10°	3135.8
12.5°	3095.6
15°	3043.7
17.5°	2996.5
20°	2942.2
22.5°	2885.5
25°	2819.4
27.5°	2748.5
30°	2675.3
32.5°	2599.8
35°	2519.5
37.5°	2436.8
40°	2347.1
42.5°	2252.7
45°	2137.0
47.5°	1985.8
50°	1759.2
52.5°	1426.2
55°	1020.1
57.5°	639.9
60°	401.4
62.5°	304.6
65°	278.6
67.5°	266.8
70°	255.0
72.5°	238.5
75°	214.9
77.5°	186.5
80°	151.1
82.5°	115.7
85°	77.9
87.5°	42.5
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	18.71	20.18	19.08	20.50	20.81	18.71	20.18	19.08	20.50	20.81
	3H	19.61	20.91	19.98	21.24	21.60	19.61	20.91	19.98	21.24	21.60
	4H	20.21	21.43	20.62	21.78	22.16	20.21	21.43	20.62	21.78	22.16
	6H	20.81	21.94	21.23	22.30	22.70	20.81	21.94	21.23	22.30	22.70
	8H	21.05	22.12	21.48	22.51	22.91	21.05	22.12	21.48	22.51	22.91
	12H	21.24	22.26	21.67	22.64	23.07	21.24	22.26	21.67	22.64	23.07
4H	2H	18.84	20.06	19.24	20.41	20.79	18.84	20.06	19.24	20.41	20.79
	3H	20.08	21.08	20.49	21.48	21.88	20.08	21.08	20.49	21.48	21.88
	4H	20.90	21.80	21.34	22.22	22.66	20.90	21.80	21.34	22.22	22.66
	6H	21.71	22.49	22.17	22.93	23.39	21.71	22.49	22.17	22.93	23.39
	8H	22.03	22.76	22.49	23.20	23.67	22.03	22.76	22.49	23.20	23.67
	12H	22.29	22.94	22.77	23.42	23.89	22.29	22.94	22.77	23.42	23.89
8H	4H	21.22	21.95	21.68	22.39	22.86	21.22	21.95	21.68	22.39	22.86
	6H	22.19	22.79	22.68	23.29	23.77	22.19	22.79	22.68	23.29	23.77
	8H	22.61	23.16	23.12	23.67	24.16	22.61	23.16	23.12	23.67	24.16
	12H	22.98	23.47	23.49	23.96	24.53	22.98	23.47	23.49	23.96	24.53
12H	4H	21.26	21.91	21.74	22.39	22.86	21.26	21.91	21.74	22.39	22.86
	6H	22.27	22.82	22.78	23.33	23.82	22.27	22.82	22.78	23.33	23.82
	8H	22.76	23.25	23.27	23.75	24.31	22.76	23.25	23.27	23.75	24.31