

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: P979793

Luminaire Tested: PRLX-241-935-LL6-F-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979793  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-241-935-LL6-F-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH FROSTED LENS  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

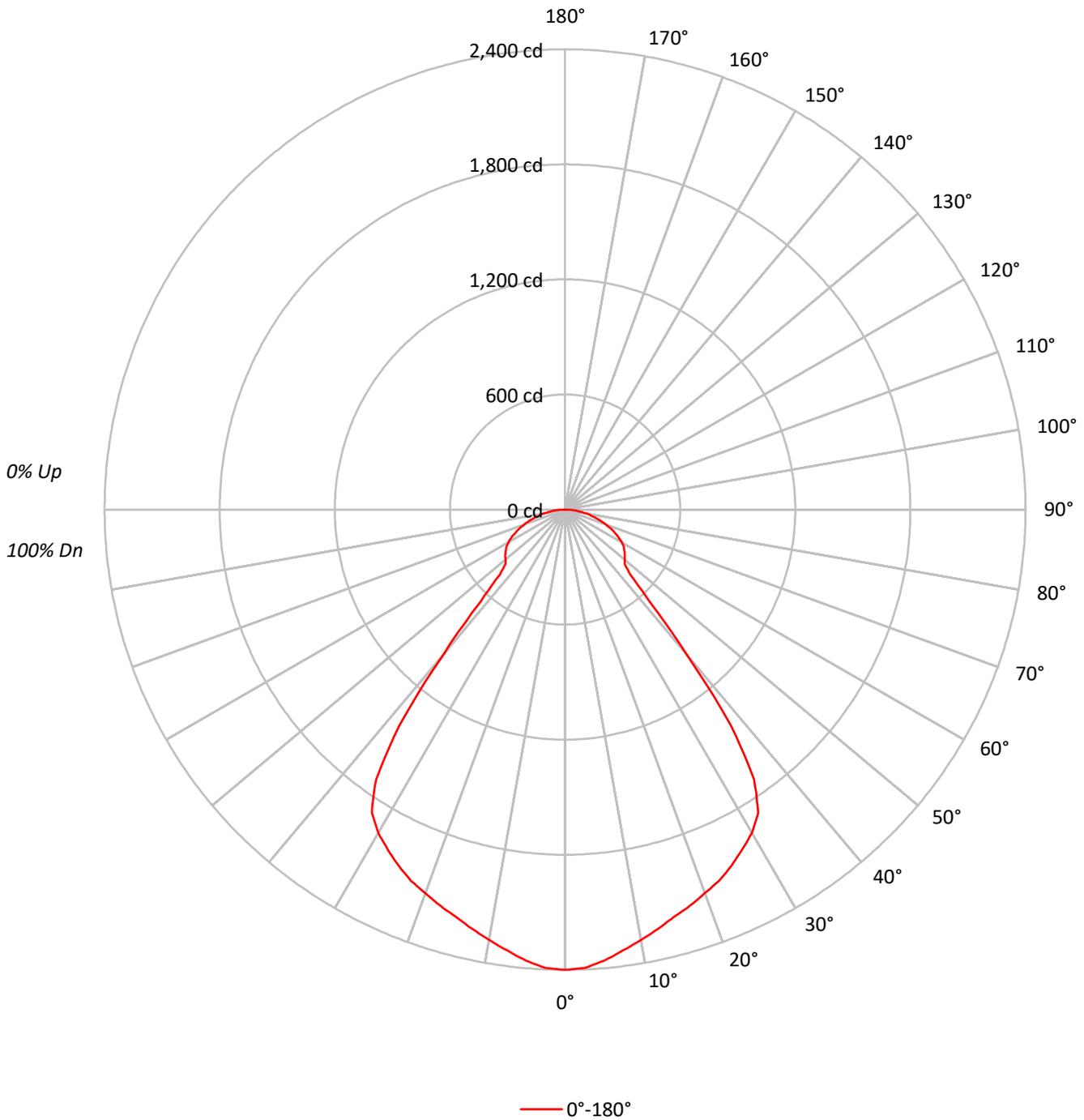
Lumens per Lamp: N/A  
Luminaire Lumens: 4069.9 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.12  
Luminous Opening: Circular (Dia: 1.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 33.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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	104	101	98	100	98	95	96	94	92	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	81	84	81	79	77
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	77	66	58	52	76	65	58	52	63	57	52	62	56	51	60	55	51	49
7	72	61	53	48	71	60	53	47	58	52	47	57	51	47	56	51	47	45
8	68	56	49	43	67	55	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	39	49	43	39	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	46	40	36	35

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

	0°
0°	18499
5°	18262
10°	17839
15°	17542
20°	17467
25°	17434
30°	17333
35°	16168
40°	9952
45°	5232
50°	4857
55°	5074
60°	5255
65°	5213
70°	5065
75°	4825
80°	4546
85°	4193

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 62.5°  
 Luminance: 5257 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.6	5.5
10°-20°	622.0	15.3
20°-30°	944.3	23.2
30°-40°	1006.2	24.7
40°-50°	429.9	10.6
50°-60°	337.1	8.3
60°-70°	281.8	6.9
70°-80°	171.7	4.2
80°-90°	54.3	1.3
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°	1788.9	44.0
0°-40°	2795.1	68.7
0°-60°	3562.1	87.5
0°-90°	4069.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4069.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2400	
5°	2360	223
15°	2198	622
25°	2050	944
35°	1718	1006
45°	480	430
55°	378	337
65°	286	282
75°	162	172
85°	47	54
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2399.6
2.5°	2392.0
5°	2359.9
7.5°	2318.6
10°	2278.9
12.5°	2239.2
15°	2197.9
17.5°	2165.8
20°	2129.1
22.5°	2095.5
25°	2049.6
27.5°	1999.2
30°	1947.2
32.5°	1873.9
35°	1718.0
37.5°	1419.9
40°	988.9
42.5°	652.6
45°	479.9
47.5°	420.3
50°	405.0
52.5°	392.8
55°	377.5
57.5°	362.2
60°	340.8
62.5°	314.9
65°	285.8
67.5°	255.2
70°	224.7
72.5°	192.6
75°	162.0
77.5°	133.0
80°	102.4
82.5°	74.9
85°	47.4
87.5°	26.0
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	16.14	17.48	16.51	17.79	18.11	16.14	17.48	16.51	17.79	18.11
	3H	18.14	19.35	18.52	19.68	20.04	18.14	19.35	18.52	19.68	20.04
	4H	18.90	20.03	19.30	20.38	20.76	18.90	20.03	19.30	20.38	20.76
	6H	19.49	20.53	19.90	20.90	21.29	19.49	20.53	19.90	20.90	21.29
	8H	19.69	20.68	20.12	21.07	21.47	19.69	20.68	20.12	21.07	21.47
	12H	19.83	20.77	20.26	21.15	21.58	19.83	20.77	20.26	21.15	21.58
4H	2H	16.81	17.94	17.21	18.29	18.67	16.81	17.94	17.21	18.29	18.67
	3H	19.01	19.95	19.42	20.35	20.75	19.01	19.95	19.42	20.35	20.75
	4H	19.89	20.74	20.33	21.16	21.60	19.89	20.74	20.33	21.16	21.60
	6H	20.61	21.34	21.07	21.79	22.25	20.61	21.34	21.07	21.79	22.25
	8H	20.86	21.55	21.33	21.99	22.46	20.86	21.55	21.33	21.99	22.46
	12H	21.05	21.66	21.53	22.14	22.61	21.05	21.66	21.53	22.14	22.61
8H	4H	20.21	20.90	20.68	21.35	21.82	20.21	20.90	20.68	21.35	21.82
	6H	21.07	21.63	21.57	22.13	22.61	21.07	21.63	21.57	22.13	22.61
	8H	21.41	21.91	21.93	22.43	22.92	21.41	21.91	21.93	22.43	22.92
	12H	21.69	22.13	22.20	22.62	23.19	21.69	22.13	22.20	22.62	23.19
12H	4H	20.24	20.85	20.73	21.33	21.81	20.24	20.85	20.73	21.33	21.81
	6H	21.14	21.64	21.66	22.15	22.64	21.14	21.64	21.66	22.15	22.64
	8H	21.54	21.98	22.05	22.47	23.04	21.54	21.98	22.05	22.47	23.04