

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: P979893

Luminaire Tested: PRLX-241-940-LL8-F-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979893  
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-241-940-LL8-F-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH FROSTED LENS  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

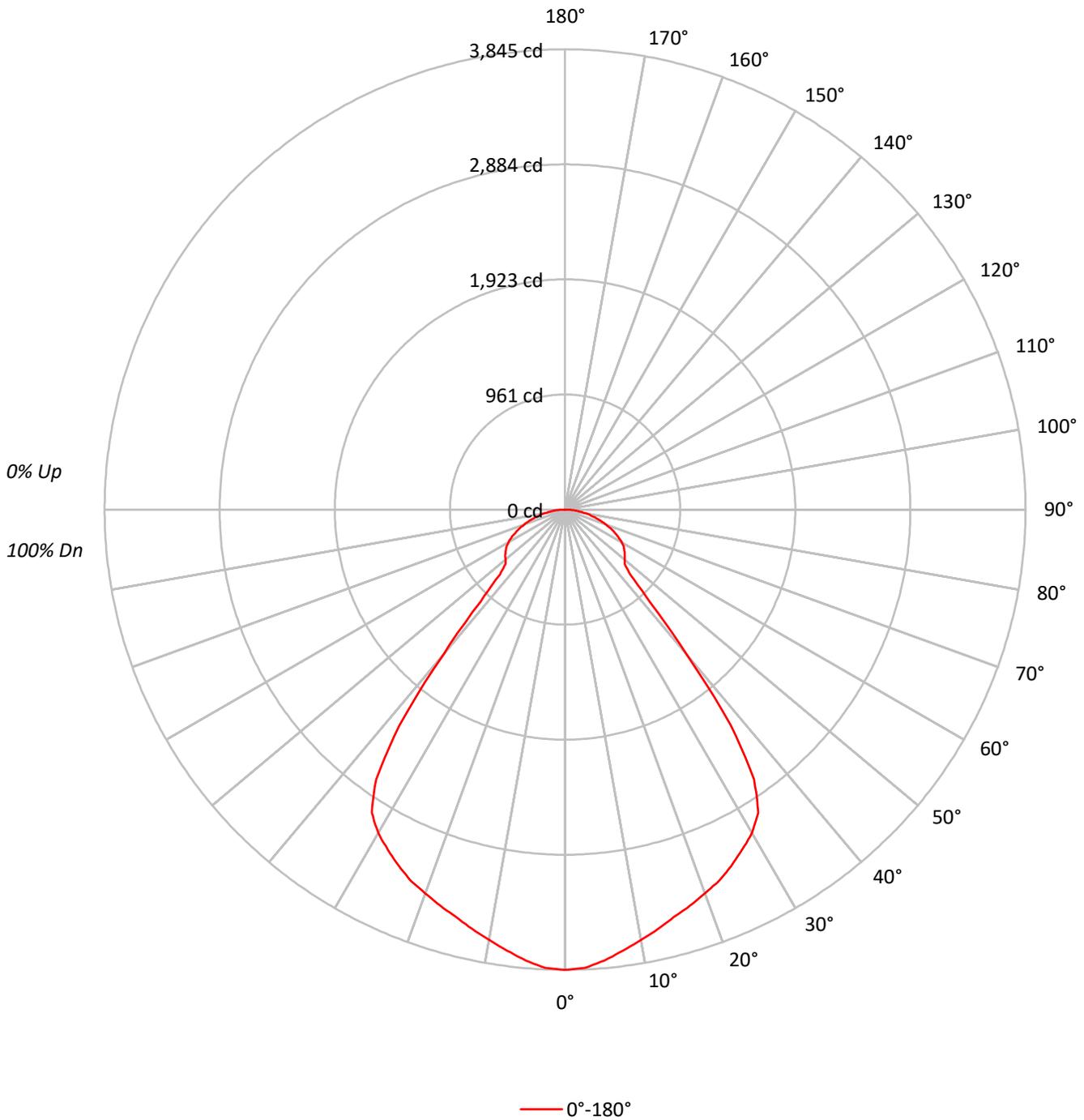
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6521.4 lumens  
Efficiency: N/A  
Efficacy: 106.0 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): 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	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°	29641
5°	29262
10°	28584
15°	28107
20°	27987
25°	27936
30°	27774
35°	25906
40°	15946
45°	8384
50°	7784
55°	8130
60°	8420
65°	8354
70°	8114
75°	7732
80°	7285
85°	6713

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 62.5°  
 Luminance: 8423 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	356.7	5.5
10°-20°	996.6	15.3
20°-30°	1513.1	23.2
30°-40°	1612.3	24.7
40°-50°	688.8	10.6
50°-60°	540.2	8.3
60°-70°	451.6	6.9
70°-80°	275.2	4.2
80°-90°	87.0	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°	2866.4	44.0
0°-40°	4478.7	68.7
0°-60°	5707.7	87.5
0°-90°	6521.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6521.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3845	
5°	3781	357
15°	3522	997
25°	3284	1513
35°	2753	1612
45°	769	689
55°	605	540
65°	458	452
75°	260	275
85°	76	87
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3845.0
2.5°	3832.8
5°	3781.3
7.5°	3715.2
10°	3651.5
12.5°	3587.9
15°	3521.7
17.5°	3470.3
20°	3411.5
22.5°	3357.6
25°	3284.2
27.5°	3203.4
30°	3120.1
32.5°	3002.5
35°	2752.7
37.5°	2275.2
40°	1584.5
42.5°	1045.7
45°	769.0
47.5°	673.5
50°	649.0
52.5°	629.4
55°	604.9
57.5°	580.4
60°	546.1
62.5°	504.5
65°	458.0
67.5°	409.0
70°	360.0
72.5°	308.6
75°	259.6
77.5°	213.1
80°	164.1
82.5°	120.0
85°	75.9
87.5°	41.6
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	17.78	19.12	18.14	19.43	19.75	17.78	19.12	18.14	19.43	19.75
	3H	19.78	20.99	20.16	21.31	21.68	19.78	20.99	20.16	21.31	21.68
	4H	20.54	21.67	20.94	22.02	22.40	20.54	21.67	20.94	22.02	22.40
	6H	21.13	22.17	21.54	22.53	22.93	21.13	22.17	21.54	22.53	22.93
	8H	21.33	22.31	21.76	22.70	23.11	21.33	22.31	21.76	22.70	23.11
	12H	21.46	22.41	21.90	22.79	23.22	21.46	22.41	21.90	22.79	23.22
4H	2H	18.45	19.58	18.85	19.93	20.31	18.45	19.58	18.85	19.93	20.31
	3H	20.65	21.59	21.06	21.99	22.39	20.65	21.59	21.06	21.99	22.39
	4H	21.53	22.38	21.97	22.80	23.24	21.53	22.38	21.97	22.80	23.24
	6H	22.25	22.98	22.71	23.43	23.89	22.25	22.98	22.71	23.43	23.89
	8H	22.50	23.18	22.97	23.63	24.10	22.50	23.18	22.97	23.63	24.10
	12H	22.69	23.29	23.17	23.77	24.25	22.69	23.29	23.17	23.77	24.25
8H	4H	21.85	22.54	22.32	22.98	23.45	21.85	22.54	22.32	22.98	23.45
	6H	22.71	23.27	23.21	23.77	24.25	22.71	23.27	23.21	23.77	24.25
	8H	23.05	23.55	23.57	24.06	24.56	23.05	23.55	23.57	24.06	24.56
	12H	23.33	23.77	23.84	24.26	24.83	23.33	23.77	23.84	24.26	24.83
12H	4H	21.88	22.49	22.37	22.97	23.44	21.88	22.49	22.37	22.97	23.44
	6H	22.77	23.28	23.29	23.79	24.28	22.77	23.28	23.29	23.79	24.28
	8H	23.18	23.62	23.69	24.11	24.68	23.18	23.62	23.69	24.11	24.68