

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: P979651

Luminaire Tested: PRLX-241-927-LL8-C-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979651  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-241-927-LL8-C-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH CLEAR LENS  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

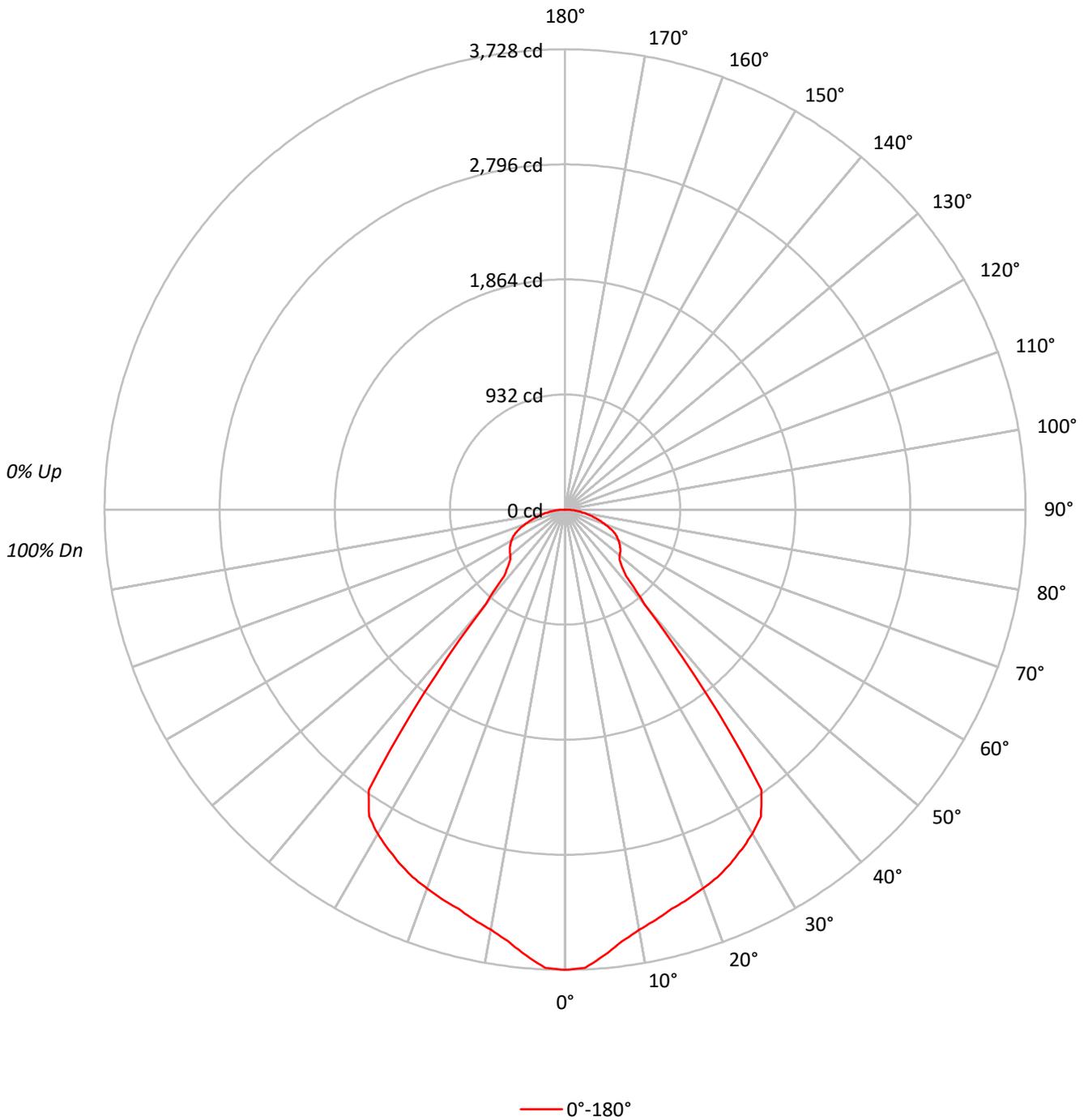
Lumens per Lamp: N/A  
Luminaire Lumens: 6014.5 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.09  
Luminous Opening: Circular (Dia: 1.33' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P979651  
CATALOG NUMBER: PRLX-241-927-LL8-C-U-S-WHTE-X

### Luminous Intensity Polar Plot





TEST NUMBER: P979651

CATALOG NUMBER: PRLX-241-927-LL8-C-U-S-WHTE-X

**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	98	100	98	95	97	94	92	93	91	90	88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68
4	89	79	71	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61
5	83	72	64	59	81	71	64	59	69	63	58	67	62	57	65	61	57	55
6	78	66	59	53	76	65	58	53	64	57	52	62	56	52	61	56	52	50
7	73	61	54	48	71	60	53	48	59	53	48	58	52	48	56	51	47	45
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42
9	65	53	46	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38
10	61	49	42	38	60	49	42	37	48	42	37	47	41	37	46	41	37	36

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

	0°
0°	28736
5°	28062
10°	27053
15°	26705
20°	26795
25°	26921
30°	27002
35°	26072
40°	10067
45°	7075
50°	6930
55°	7330
60°	7712
65°	7944
70°	7677
75°	7256
80°	6797
85°	6289

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 65°  
 Luminance: 7944 cd/sqm

TEST NUMBER: P979651

CATALOG NUMBER: PRLX-241-927-LL8-C-U-S-WHTE-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	340.4	5.7
10°-20°	948.2	15.8
20°-30°	1459.2	24.3
30°-40°	1484.3	24.7
40°-50°	531.7	8.8
50°-60°	486.3	8.1
60°-70°	424.8	7.1
70°-80°	258.4	4.3
80°-90°	81.2	1.4
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°	2747.8	45.7
0°-40°	4232.1	70.4
0°-60°	5250.1	87.3
0°-90°	6014.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6014.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3728	
5°	3626	340
15°	3346	948
25°	3165	1459
35°	2770	1484
45°	649	532
55°	545	486
65°	436	425
75°	244	258
85°	71	81
90°	0	

TEST NUMBER: P979651

CATALOG NUMBER: PRLX-241-927-LL8-C-U-S-WHTE-X

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3727.6
2.5°	3714.7
5°	3626.3
7.5°	3527.1
10°	3455.9
12.5°	3402.0
15°	3346.0
17.5°	3309.3
20°	3266.2
22.5°	3223.1
25°	3164.9
27.5°	3100.2
30°	3033.4
32.5°	2949.3
35°	2770.4
37.5°	1875.7
40°	1000.3
42.5°	728.7
45°	648.9
47.5°	599.3
50°	577.8
52.5°	562.7
55°	545.4
57.5°	523.9
60°	500.2
62.5°	472.1
65°	435.5
67.5°	388.1
70°	340.6
72.5°	291.0
75°	243.6
77.5°	198.3
80°	153.1
82.5°	112.1
85°	71.1
87.5°	38.8
90°	0.0



TEST NUMBER: P979651  
 CATALOG NUMBER: PRLX-241-927-LL8-C-U-S-WHTE-X

**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	17.38	18.70	17.74	19.01	19.33	17.38	18.70	17.74	19.01	19.33
	3H	19.54	20.72	19.92	21.05	21.42	19.54	20.72	19.92	21.05	21.42
	4H	20.32	21.43	20.72	21.78	22.16	20.32	21.43	20.72	21.78	22.16
	6H	20.91	21.93	21.32	22.30	22.70	20.91	21.93	21.32	22.30	22.70
	8H	21.11	22.08	21.54	22.47	22.88	21.11	22.08	21.54	22.47	22.88
	12H	21.25	22.18	21.68	22.56	22.99	21.25	22.18	21.68	22.56	22.99
4H	2H	18.13	19.24	18.53	19.59	19.97	18.13	19.24	18.53	19.59	19.97
	3H	20.44	21.37	20.86	21.77	22.18	20.44	21.37	20.86	21.77	22.18
	4H	21.34	22.18	21.77	22.59	23.04	21.34	22.18	21.77	22.59	23.04
	6H	22.05	22.78	22.52	23.22	23.69	22.05	22.78	22.52	23.22	23.69
	8H	22.30	22.98	22.77	23.43	23.90	22.30	22.98	22.77	23.43	23.90
	12H	22.49	23.09	22.98	23.57	24.05	22.49	23.09	22.98	23.57	24.05
8H	4H	21.66	22.34	22.13	22.79	23.26	21.66	22.34	22.13	22.79	23.26
	6H	22.52	23.07	23.02	23.57	24.05	22.52	23.07	23.02	23.57	24.05
	8H	22.86	23.35	23.38	23.87	24.36	22.86	23.35	23.38	23.87	24.36
	12H	23.14	23.57	23.65	24.06	24.63	23.14	23.57	23.65	24.06	24.63
12H	4H	21.69	22.29	22.18	22.77	23.25	21.69	22.29	22.18	22.77	23.25
	6H	22.58	23.08	23.10	23.59	24.08	22.58	23.08	23.10	23.59	24.08
	8H	22.99	23.42	23.50	23.91	24.48	22.99	23.42	23.50	23.91	24.48