

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: P979413

Luminaire Tested: PRLX-240-930-LL8-F-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P979413  
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-240-930-LL8-F-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH FROSTED LENS  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

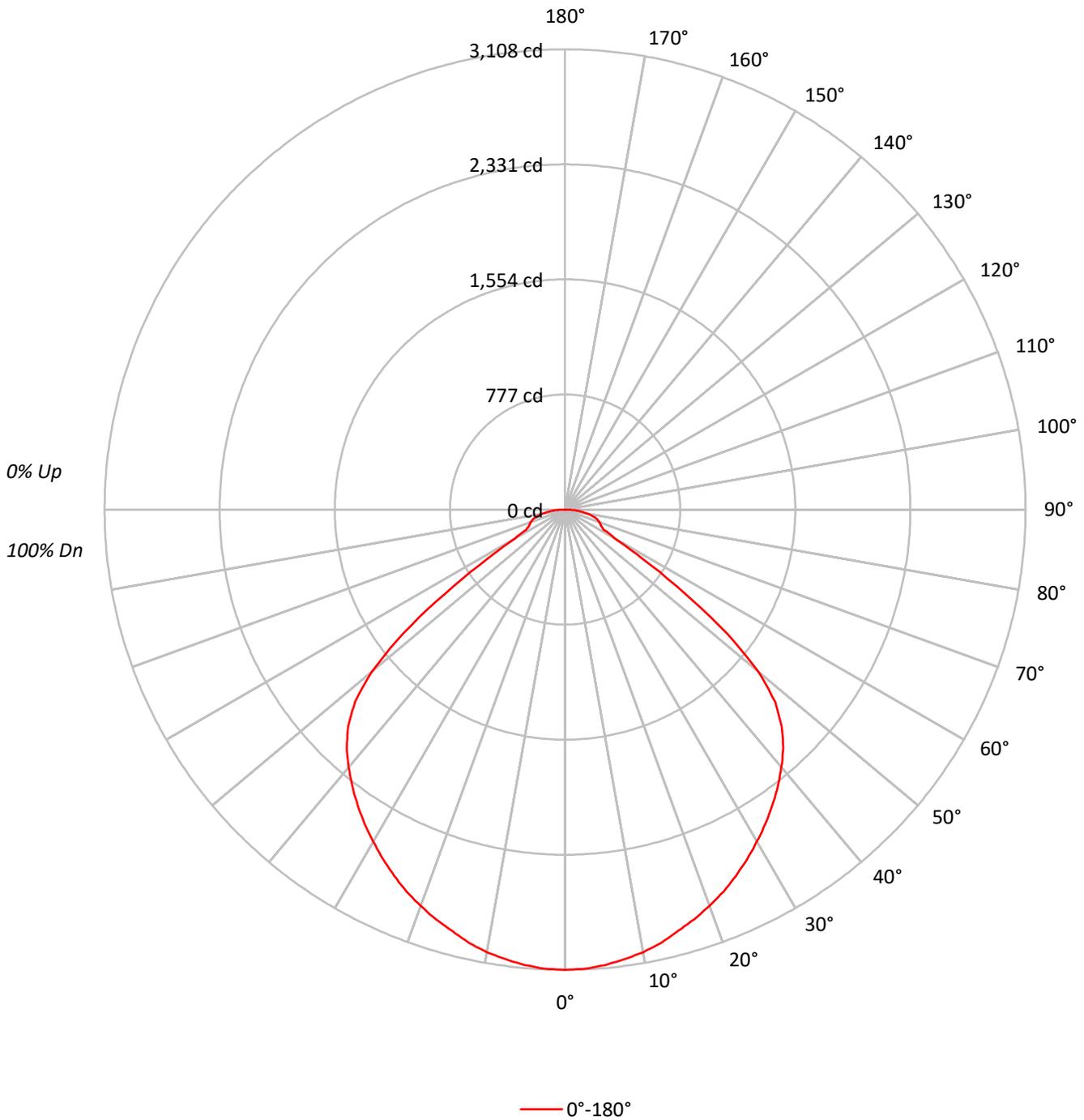
Lumens per Lamp: N/A  
Luminaire Lumens: 6955.8 lumens  
Efficiency: N/A  
Efficacy: 113.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37  
Luminous Opening: Circular (Dia: 1.17' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 61.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



TEST NUMBER: P979413

CATALOG NUMBER: PRLX-240-930-LL8-F-U-S-WHTE-X

### Luminous Intensity Polar Plot





TEST NUMBER: P979413

CATALOG NUMBER: PRLX-240-930-LL8-F-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	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°	31298
5°	31210
10°	31033
15°	30711
20°	30515
25°	30318
30°	30107
35°	29976
40°	29861
45°	29453
50°	26672
55°	17334
60°	7824
65°	6426
70°	7266
75°	8092
80°	8483
85°	8711

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 29453 cd/sqm

TEST NUMBER: P979413

CATALOG NUMBER: PRLX-240-930-LL8-F-U-S-WHTE-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	293.0	4.2
10°-20°	832.4	12.0
20°-30°	1257.9	18.1
30°-40°	1526.5	21.9
40°-50°	1573.7	22.6
50°-60°	892.6	12.8
60°-70°	282.3	4.1
70°-80°	215.4	3.1
80°-90°	82.1	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°	2383.3	34.3
0°-40°	3909.8	56.2
0°-60°	6376.0	91.7
0°-90°	6955.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6955.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3108	
5°	3088	293
15°	2946	832
25°	2729	1258
35°	2439	1526
45°	2068	1574
55°	987	893
65°	270	282
75°	208	215
85°	75	82
90°	0	

TEST NUMBER: P979413

CATALOG NUMBER: PRLX-240-930-LL8-F-U-S-WHTE-X

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3108.4
2.5°	3103.8
5°	3087.8
7.5°	3062.6
10°	3035.2
12.5°	2996.4
15°	2946.1
17.5°	2900.4
20°	2847.8
22.5°	2792.9
25°	2728.9
27.5°	2660.4
30°	2589.5
32.5°	2516.4
35°	2438.7
37.5°	2358.7
40°	2271.8
42.5°	2180.4
45°	2068.4
47.5°	1922.1
50°	1702.7
52.5°	1380.5
55°	987.4
57.5°	619.4
60°	388.5
62.5°	294.8
65°	269.7
67.5°	258.3
70°	246.8
72.5°	230.8
75°	208.0
77.5°	180.6
80°	146.3
82.5°	112.0
85°	75.4
87.5°	41.1
90°	0.0



TEST NUMBER: P979413  
 CATALOG NUMBER: PRLX-240-930-LL8-F-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	18.60	20.07	18.97	20.38	20.70	18.60	20.07	18.97	20.38	20.70
	3H	19.49	20.80	19.87	21.13	21.49	19.49	20.80	19.87	21.13	21.49
	4H	20.10	21.32	20.50	21.67	22.05	20.10	21.32	20.50	21.67	22.05
	6H	20.70	21.82	21.11	22.19	22.58	20.70	21.82	21.11	22.19	22.58
	8H	20.94	22.01	21.37	22.40	22.80	20.94	22.01	21.37	22.40	22.80
	12H	21.12	22.14	21.55	22.53	22.96	21.12	22.14	21.55	22.53	22.96
4H	2H	18.73	19.95	19.13	20.30	20.68	18.73	19.95	19.13	20.30	20.68
	3H	19.97	20.97	20.38	21.37	21.77	19.97	20.97	20.38	21.37	21.77
	4H	20.79	21.69	21.22	22.10	22.54	20.79	21.69	21.22	22.10	22.54
	6H	21.60	22.38	22.06	22.82	23.28	21.60	22.38	22.06	22.82	23.28
	8H	21.92	22.64	22.38	23.09	23.56	21.92	22.64	22.38	23.09	23.56
	12H	22.18	22.83	22.66	23.31	23.78	22.18	22.83	22.66	23.31	23.78
8H	4H	21.10	21.83	21.57	22.28	22.75	21.10	21.83	21.57	22.28	22.75
	6H	22.07	22.68	22.57	23.17	23.65	22.07	22.68	22.57	23.17	23.65
	8H	22.50	23.05	23.01	23.56	24.05	22.50	23.05	23.01	23.56	24.05
	12H	22.86	23.36	23.37	23.85	24.42	22.86	23.36	23.37	23.85	24.42
12H	4H	21.15	21.80	21.63	22.28	22.75	21.15	21.80	21.63	22.28	22.75
	6H	22.16	22.71	22.67	23.22	23.71	22.16	22.71	22.67	23.22	23.71
	8H	22.65	23.14	23.16	23.63	24.20	22.65	23.14	23.16	23.63	24.20