

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: P980043

Luminaire Tested: PRLX-242-930-LL7-F-U-S-WHTE-X

Issue Date: 4/3/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P980043  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/3/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-242-930-LL7-F-U-S-WHTE-X  
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 242 SHADE WITH FROSTED LENS  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

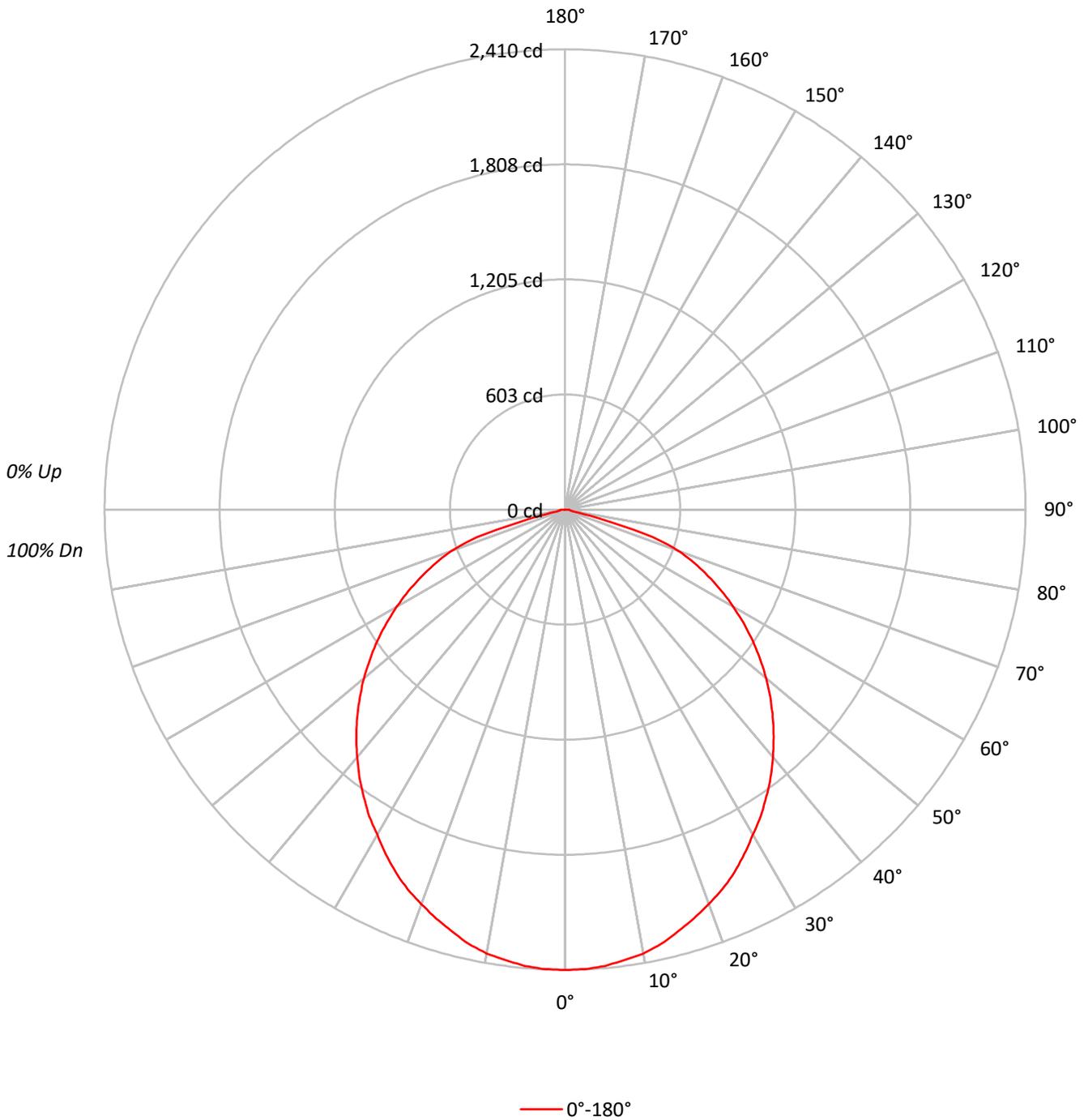
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6359.0 lumens  
Efficiency: N/A  
Efficacy: 132.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.34  
Luminous Opening: Circular (Dia: 1.75' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 48  
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: P980043  
CATALOG NUMBER: PRLX-242-930-LL7-F-U-S-WHTE-X

### Luminous Intensity Polar Plot





TEST NUMBER: P980043

CATALOG NUMBER: PRLX-242-930-LL7-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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	100	92	86	80	98	90	85	79	87	82	78	84	80	76	81	77	74	72
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

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

	0°
0°	10787
5°	10776
10°	10726
15°	10597
20°	10470
25°	10351
30°	10156
35°	10032
40°	9883
45°	9731
50°	9565
55°	9351
60°	9089
65°	8753
70°	8269
75°	3432
80°	745
85°	1186

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9731 cd/sqm

TEST NUMBER: P980043

CATALOG NUMBER: PRLX-242-930-LL7-F-U-S-WHTE-X

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.6	3.6
10°-20°	645.4	10.1
20°-30°	964.6	15.2
30°-40°	1149.0	18.1
40°-50°	1186.1	18.7
50°-60°	1070.9	16.8
60°-70°	817.9	12.9
70°-80°	276.2	4.3
80°-90°	21.3	0.3
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°	1837.7	28.9
0°-40°	2986.7	47.0
0°-60°	5243.7	82.5
0°-90°	6359.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6359.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2410	
5°	2399	228
15°	2287	645
25°	2096	965
35°	1836	1149
45°	1538	1186
55°	1198	1071
65°	827	818
75°	198	276
85°	23	21
90°	0	

TEST NUMBER: P980043

CATALOG NUMBER: PRLX-242-930-LL7-F-U-S-WHTE-X

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2410.5
2.5°	2408.6
5°	2398.9
7.5°	2379.7
10°	2360.4
12.5°	2329.6
15°	2287.2
17.5°	2244.8
20°	2198.6
22.5°	2152.3
25°	2096.4
27.5°	2032.8
30°	1965.4
32.5°	1905.7
35°	1836.3
37.5°	1766.9
40°	1691.8
42.5°	1616.6
45°	1537.6
47.5°	1456.7
50°	1373.9
52.5°	1287.1
55°	1198.5
57.5°	1107.9
60°	1015.5
62.5°	923.0
65°	826.6
67.5°	732.2
70°	632.0
72.5°	483.6
75°	198.5
77.5°	42.4
80°	28.9
82.5°	27.0
85°	23.1
87.5°	13.5
90°	0.0



TEST NUMBER: P980043  
 CATALOG NUMBER: PRLX-242-930-LL7-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	20.12	21.72	20.48	22.04	22.35	20.12	21.72	20.48	22.04	22.35
	3H	21.95	23.39	22.32	23.72	24.08	21.95	23.39	22.32	23.72	24.08
	4H	22.18	23.53	22.58	23.88	24.26	22.18	23.53	22.58	23.88	24.26
	6H	22.13	23.38	22.54	23.74	24.13	22.13	23.38	22.54	23.74	24.13
	8H	22.10	23.29	22.52	23.68	24.08	22.10	23.29	22.52	23.68	24.08
	12H	22.08	23.22	22.51	23.60	24.03	22.08	23.22	22.51	23.60	24.03
4H	2H	20.77	22.12	21.17	22.47	22.85	20.77	22.12	21.17	22.47	22.85
	3H	22.77	23.90	23.18	24.30	24.70	22.77	23.90	23.18	24.30	24.70
	4H	22.99	24.00	23.42	24.42	24.85	22.99	24.00	23.42	24.42	24.85
	6H	22.95	23.83	23.41	24.27	24.73	22.95	23.83	23.41	24.27	24.73
	8H	22.92	23.74	23.38	24.18	24.65	22.92	23.74	23.38	24.18	24.65
	12H	22.90	23.63	23.39	24.11	24.58	22.90	23.63	23.39	24.11	24.58
8H	4H	23.05	23.86	23.51	24.30	24.77	23.05	23.86	23.51	24.30	24.77
	6H	22.99	23.66	23.49	24.15	24.63	22.99	23.66	23.49	24.15	24.63
	8H	22.96	23.56	23.47	24.06	24.55	22.96	23.56	23.47	24.06	24.55
	12H	22.95	23.47	23.46	23.97	24.53	22.95	23.47	23.46	23.97	24.53
12H	4H	23.02	23.75	23.50	24.23	24.70	23.02	23.75	23.50	24.23	24.70
	6H	22.95	23.55	23.46	24.06	24.54	22.95	23.55	23.46	24.06	24.54
	8H	22.94	23.46	23.45	23.96	24.52	22.94	23.46	23.45	23.96	24.52