

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: P980041

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

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P980041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-242-930-LL7-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 242 SHADE WITH CLEAR LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

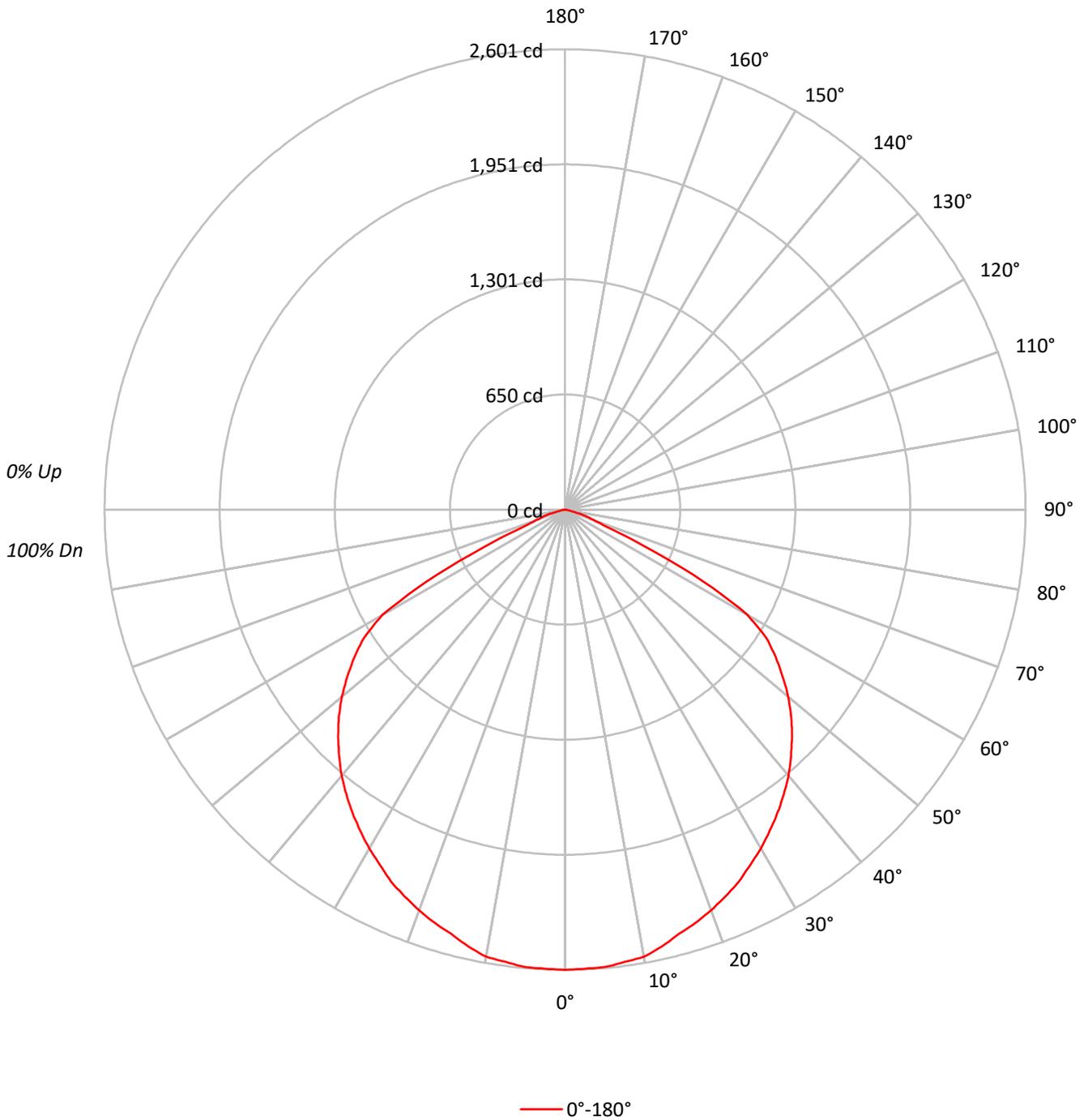
Lumens per Lamp: N/A
Luminaire Lumens: 6665.2 lumens
Efficiency: N/A
Efficacy: 138.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.4
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

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: P980041
CATALOG NUMBER: PRLX-242-930-LL7-C-U-S-WHTE-X

Luminous Intensity Polar Plot





TEST NUMBER: P980041

CATALOG NUMBER: PRLX-242-930-LL7-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	104	101	98	100	98	95	96	94	92	93	91	90	88
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	60	83	73	66	60	71	64	59	69	63	58	67	62	58	56
5	79	67	58	52	77	66	58	52	64	57	51	62	56	51	60	55	50	48
6	73	60	52	46	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	11641
5°	11660
10°	11663
15°	11507
20°	11480
25°	11465
30°	11430
35°	11432
40°	11470
45°	11475
50°	11456
55°	11320
60°	10641
65°	5448
70°	2193
75°	1032
80°	198
85°	298

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11475 cd/sqm

TEST NUMBER: P980041

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.6	3.7
10°-20°	702.8	10.5
20°-30°	1069.2	16.0
30°-40°	1310.2	19.7
40°-50°	1398.1	21.0
50°-60°	1289.1	19.3
60°-70°	567.6	8.5
70°-80°	75.9	1.1
80°-90°	5.8	0.1
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°	2018.6	30.3
0°-40°	3328.8	49.9
0°-60°	6015.9	90.3
0°-90°	6665.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6665.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2601	
5°	2596	247
15°	2484	703
25°	2322	1069
35°	2093	1310
45°	1813	1398
55°	1451	1289
65°	514	568
75°	60	76
85°	6	6
90°	0	



TEST NUMBER: P980041

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

CANDELA DISTRIBUTION (FULL):

0°	
0°	2601.3
2.5°	2597.4
5°	2595.5
7.5°	2578.1
10°	2566.6
12.5°	2528.0
15°	2483.7
17.5°	2449.0
20°	2410.5
22.5°	2366.2
25°	2321.9
27.5°	2264.1
30°	2212.0
32.5°	2152.3
35°	2092.6
37.5°	2029.0
40°	1963.5
42.5°	1888.3
45°	1813.2
47.5°	1732.2
50°	1645.5
52.5°	1549.2
55°	1450.9
57.5°	1346.9
60°	1188.9
62.5°	884.4
65°	514.5
67.5°	238.9
70°	167.6
72.5°	125.2
75°	59.7
77.5°	17.3
80°	7.7
82.5°	7.7
85°	5.8
87.5°	3.9
90°	0.0



TEST NUMBER: P980041
 CATALOG NUMBER: PRLX-242-930-LL7-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	21.37	22.92	21.73	23.23	23.54	21.37	22.92	21.73	23.23	23.54
	3H	21.41	22.79	21.79	23.12	23.48	21.41	22.79	21.79	23.12	23.48
	4H	21.38	22.66	21.78	23.01	23.39	21.38	22.66	21.78	23.01	23.39
	6H	21.32	22.50	21.73	22.87	23.26	21.32	22.50	21.73	22.87	23.26
	8H	21.28	22.41	21.71	22.80	23.20	21.28	22.41	21.71	22.80	23.20
	12H	21.25	22.33	21.68	22.71	23.14	21.25	22.33	21.68	22.71	23.14
4H	2H	21.46	22.75	21.86	23.09	23.47	21.46	22.75	21.86	23.09	23.47
	3H	21.55	22.60	21.96	23.00	23.40	21.55	22.60	21.96	23.00	23.40
	4H	21.51	22.45	21.95	22.86	23.30	21.51	22.45	21.95	22.86	23.30
	6H	21.46	22.26	21.92	22.71	23.17	21.46	22.26	21.92	22.71	23.17
	8H	21.41	22.17	21.88	22.61	23.08	21.41	22.17	21.88	22.61	23.08
	12H	21.38	22.05	21.86	22.53	23.00	21.38	22.05	21.86	22.53	23.00
8H	4H	21.43	22.18	21.89	22.62	23.09	21.43	22.18	21.89	22.62	23.09
	6H	21.35	21.96	21.85	22.46	22.94	21.35	21.96	21.85	22.46	22.94
	8H	21.30	21.85	21.81	22.36	22.85	21.30	21.85	21.81	22.36	22.85
	12H	21.26	21.75	21.77	22.25	22.81	21.26	21.75	21.77	22.25	22.81
12H	4H	21.39	22.06	21.88	22.54	23.01	21.39	22.06	21.88	22.54	23.01
	6H	21.29	21.85	21.81	22.36	22.85	21.29	21.85	21.81	22.36	22.85
	8H	21.26	21.75	21.77	22.24	22.81	21.26	21.75	21.77	22.24	22.81