

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: P980443

Luminaire Tested: PRLX-243-935-LL7-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P980443
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-243-935-LL7-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 243 SHADE WITH FROSTED LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6155.4 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.36
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

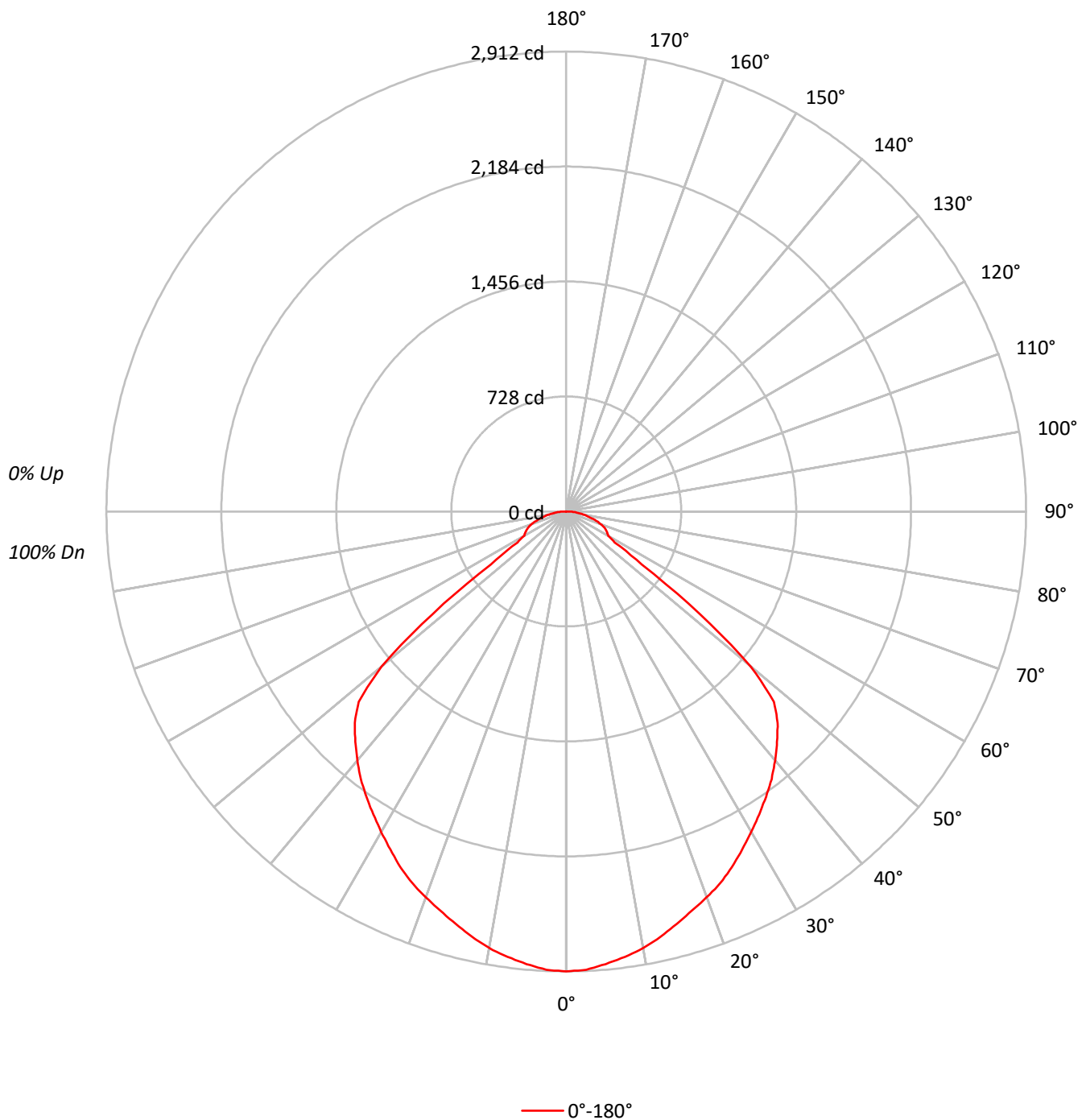
Input Watts (W): 48
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P980443

CATALOG NUMBER: PRLX-243-935-LL7-F-U-S-WHTE-X

Luminous Intensity Polar Plot



TEST NUMBER: P980443

CATALOG NUMBER: PRLX-243-935-LL7-F-U-S-WHTE-X

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	103	100	108	105	101	99	100	98	95		97	95	93		93
2	103	96	90	85	100	94	89	84	90	86	82		87	84	80		84
3	95	86	79	73	92	84	78	73	81	76	71		79	74	70		76
4	88	77	70	64	86	76	69	63	74	67	63		71	66	62		69
5	81	70	62	56	79	69	61	56	67	60	55		65	59	55		63
6	76	64	56	50	74	63	55	50	61	54	49		59	53	49		58
7	70	58	50	44	69	57	50	44	56	49	44		54	48	44		53
8	66	53	45	40	64	53	45	40	51	45	40		50	44	39		49
9	61	49	41	36	60	48	41	36	47	41	36		46	40	36		45
10	58	45	38	33	56	45	38	33	44	37	33		43	37	33		42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	14369
5°	14247
10°	14062
15°	13809
20°	13651
25°	13525
30°	13349
35°	13285
40°	13257
45°	13210
50°	11720
55°	5017
60°	3025
65°	3230
70°	3331
75°	3225
80°	3111
85°	3153

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13210 cd/sqm

TEST NUMBER: P980443

CATALOG NUMBER: PRLX-243-935-LL7-F-U-S-WHTE-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.4	4.4
10°-20°	763.4	12.4
20°-30°	1144.0	18.6
30°-40°	1381.1	22.4
40°-50°	1436.7	23.3
50°-60°	646.3	10.5
60°-70°	271.2	4.4
70°-80°	179.3	2.9
80°-90°	60.9	1.0
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°	2179.8	35.4
0°-40°	3560.9	57.8
0°-60°	5643.9	91.7
0°-90°	6155.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6155.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2912	
5°	2877	272
15°	2703	763
25°	2484	1144
35°	2206	1381
45°	1893	1437
55°	583	646
65°	277	271
75°	169	179
85°	56	61
90°	0	

TEST NUMBER: P980443

CATALOG NUMBER: PRLX-243-935-LL7-F-U-S-WHTE-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	2912.4
2.5°	2904.4
5°	2876.6
7.5°	2844.7
10°	2806.9
12.5°	2759.1
15°	2703.4
17.5°	2649.6
20°	2599.9
22.5°	2548.1
25°	2484.4
27.5°	2412.7
30°	2343.1
32.5°	2273.4
35°	2205.7
37.5°	2136.0
40°	2058.4
42.5°	1976.8
45°	1893.2
47.5°	1783.7
50°	1526.9
52.5°	1067.0
55°	583.3
57.5°	364.3
60°	306.6
62.5°	292.6
65°	276.7
67.5°	256.8
70°	230.9
72.5°	201.1
75°	169.2
77.5°	139.3
80°	109.5
82.5°	81.6
85°	55.7
87.5°	31.9
90°	0.0

TEST NUMBER: P980443

CATALOG NUMBER: PRLX-243-935-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	13.00	14.45	13.37	14.76	15.08	13.00	14.45	13.37	14.76	15.08
	3H	15.09	16.38	15.47	16.71	17.07	15.09	16.38	15.47	16.71	17.07
	4H	15.92	17.12	16.32	17.47	17.85	15.92	17.12	16.32	17.47	17.85
	6H	16.57	17.67	16.98	18.04	18.44	16.57	17.67	16.98	18.04	18.44
	8H	16.80	17.85	17.23	18.24	18.65	16.80	17.85	17.23	18.24	18.65
	12H	16.98	17.99	17.42	18.37	18.80	16.98	17.99	17.42	18.37	18.80
4H	2H	13.67	14.87	14.07	15.22	15.60	13.67	14.87	14.07	15.22	15.60
	3H	16.01	16.99	16.42	17.39	17.79	16.01	16.99	16.42	17.39	17.79
	4H	16.97	17.85	17.40	18.27	18.71	16.97	17.85	17.40	18.27	18.71
	6H	17.75	18.52	18.21	18.96	19.42	17.75	18.52	18.21	18.96	19.42
	8H	18.04	18.75	18.50	19.20	19.67	18.04	18.75	18.50	19.20	19.67
	12H	18.27	18.91	18.76	19.39	19.86	18.27	18.91	18.76	19.39	19.86
8H	4H	17.32	18.04	17.79	18.48	18.95	17.32	18.04	17.79	18.48	18.95
	6H	18.24	18.84	18.74	19.33	19.81	18.24	18.84	18.74	19.33	19.81
	8H	18.62	19.16	19.14	19.67	20.16	18.62	19.16	19.14	19.67	20.16
	12H	18.96	19.44	19.47	19.93	20.50	18.96	19.44	19.47	19.93	20.50
12H	4H	17.36	18.00	17.84	18.48	18.95	17.36	18.00	17.84	18.48	18.95
	6H	18.31	18.85	18.83	19.36	19.85	18.31	18.85	18.83	19.36	19.85
	8H	18.76	19.24	19.27	19.73	20.30	18.76	19.24	19.27	19.73	20.30