

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P980433

Luminaire Tested: PRLX-243-935-48L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980433
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-243-935-48L-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

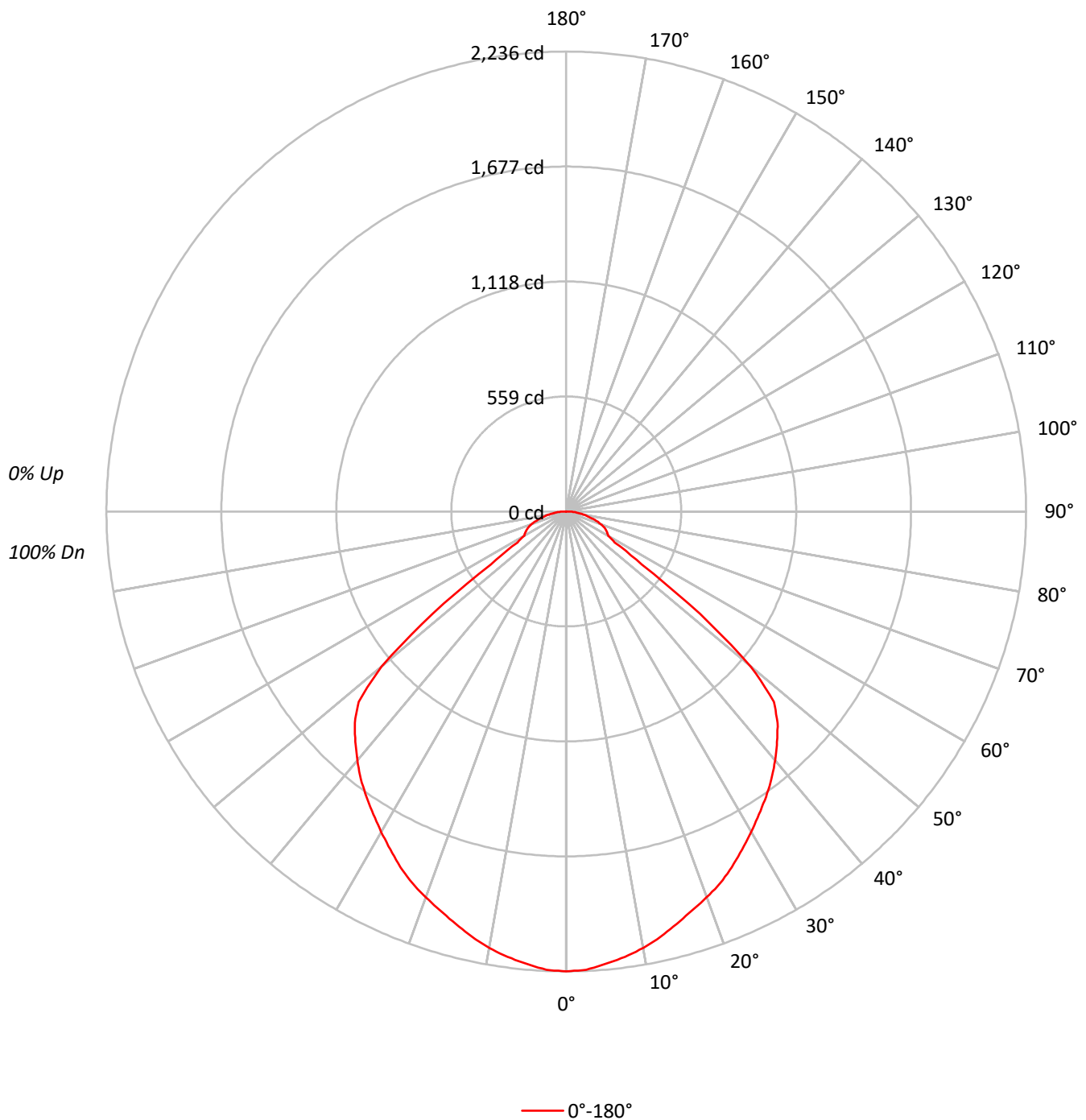
Lumens per Lamp: N/A
Luminaire Lumens: 4726.1 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.35
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 33.5
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: P980433

CATALOG NUMBER: PRLX-243-935-48L-F-U-S-WHTE-X

Luminous Intensity Polar Plot



TEST NUMBER: P980433

CATALOG NUMBER: PRLX-243-935-48L-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°	11032
5°	10938
10°	10797
15°	10602
20°	10480
25°	10384
30°	10249
35°	10200
40°	10179
45°	10142
50°	8998
55°	3852
60°	2323
65°	2481
70°	2558
75°	2476
80°	2390
85°	2423

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 10142 cd/sqm

TEST NUMBER: P980433

CATALOG NUMBER: PRLX-243-935-48L-F-U-S-WHTE-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.2	4.4
10°-20°	586.1	12.4
20°-30°	878.3	18.6
30°-40°	1060.4	22.4
40°-50°	1103.1	23.3
50°-60°	496.2	10.5
60°-70°	208.3	4.4
70°-80°	137.7	2.9
80°-90°	46.8	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°	1673.6	35.4
0°-40°	2734.0	57.8
0°-60°	4333.3	91.7
0°-90°	4726.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4726.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2236	
5°	2209	209
15°	2076	586
25°	1908	878
35°	1694	1060
45°	1454	1103
55°	448	496
65°	212	208
75°	130	138
85°	43	47
90°	0	

TEST NUMBER: P980433

CATALOG NUMBER: PRLX-243-935-48L-F-U-S-WHTE-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	2236.1
2.5°	2230.0
5°	2208.6
7.5°	2184.1
10°	2155.1
12.5°	2118.4
15°	2075.6
17.5°	2034.3
20°	1996.1
22.5°	1956.4
25°	1907.5
27.5°	1852.5
30°	1799.0
32.5°	1745.5
35°	1693.5
37.5°	1640.0
40°	1580.4
42.5°	1517.7
45°	1453.5
47.5°	1369.5
50°	1172.3
52.5°	819.2
55°	447.8
57.5°	279.7
60°	235.4
62.5°	224.7
65°	212.5
67.5°	197.2
70°	177.3
72.5°	154.4
75°	129.9
77.5°	107.0
80°	84.1
82.5°	62.7
85°	42.8
87.5°	24.5
90°	0.0

TEST NUMBER: P980433

CATALOG NUMBER: PRLX-243-935-48L-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	12.08	13.53	12.45	13.85	14.16	12.08	13.53	12.45	13.85	14.16
	3H	14.18	15.46	14.56	15.79	16.15	14.18	15.46	14.56	15.79	16.15
	4H	15.00	16.21	15.41	16.56	16.94	15.00	16.21	15.41	16.56	16.94
	6H	15.65	16.76	16.06	17.13	17.52	15.65	16.76	16.06	17.13	17.52
	8H	15.89	16.94	16.31	17.33	17.73	15.89	16.94	16.31	17.33	17.73
	12H	16.07	17.07	16.50	17.45	17.88	16.07	17.07	16.50	17.45	17.88
4H	2H	12.75	13.95	13.15	14.30	14.68	12.75	13.95	13.15	14.30	14.68
	3H	15.09	16.07	15.50	16.48	16.88	15.09	16.07	15.50	16.48	16.88
	4H	16.05	16.93	16.49	17.35	17.79	16.05	16.93	16.49	17.35	17.79
	6H	16.83	17.60	17.29	18.04	18.51	16.83	17.60	17.29	18.04	18.51
	8H	17.12	17.84	17.59	18.28	18.75	17.12	17.84	17.59	18.28	18.75
	12H	17.36	17.99	17.84	18.47	18.95	17.36	17.99	17.84	18.47	18.95
8H	4H	16.40	17.12	16.87	17.57	18.03	16.40	17.12	16.87	17.57	18.03
	6H	17.33	17.92	17.83	18.41	18.89	17.33	17.92	17.83	18.41	18.89
	8H	17.70	18.24	18.22	18.75	19.24	17.70	18.24	18.22	18.75	19.24
	12H	18.04	18.52	18.55	19.01	19.58	18.04	18.52	18.55	19.01	19.58
12H	4H	16.44	17.08	16.92	17.56	18.03	16.44	17.08	16.92	17.56	18.03
	6H	17.40	17.94	17.91	18.45	18.94	17.40	17.94	17.91	18.45	18.94
	8H	17.84	18.32	18.35	18.82	19.38	17.84	18.32	18.35	18.82	19.38