

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: P980513

Luminaire Tested: PRLX-243-940-48L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980513
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-243-940-48L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 243 SHADE WITH FROSTED LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

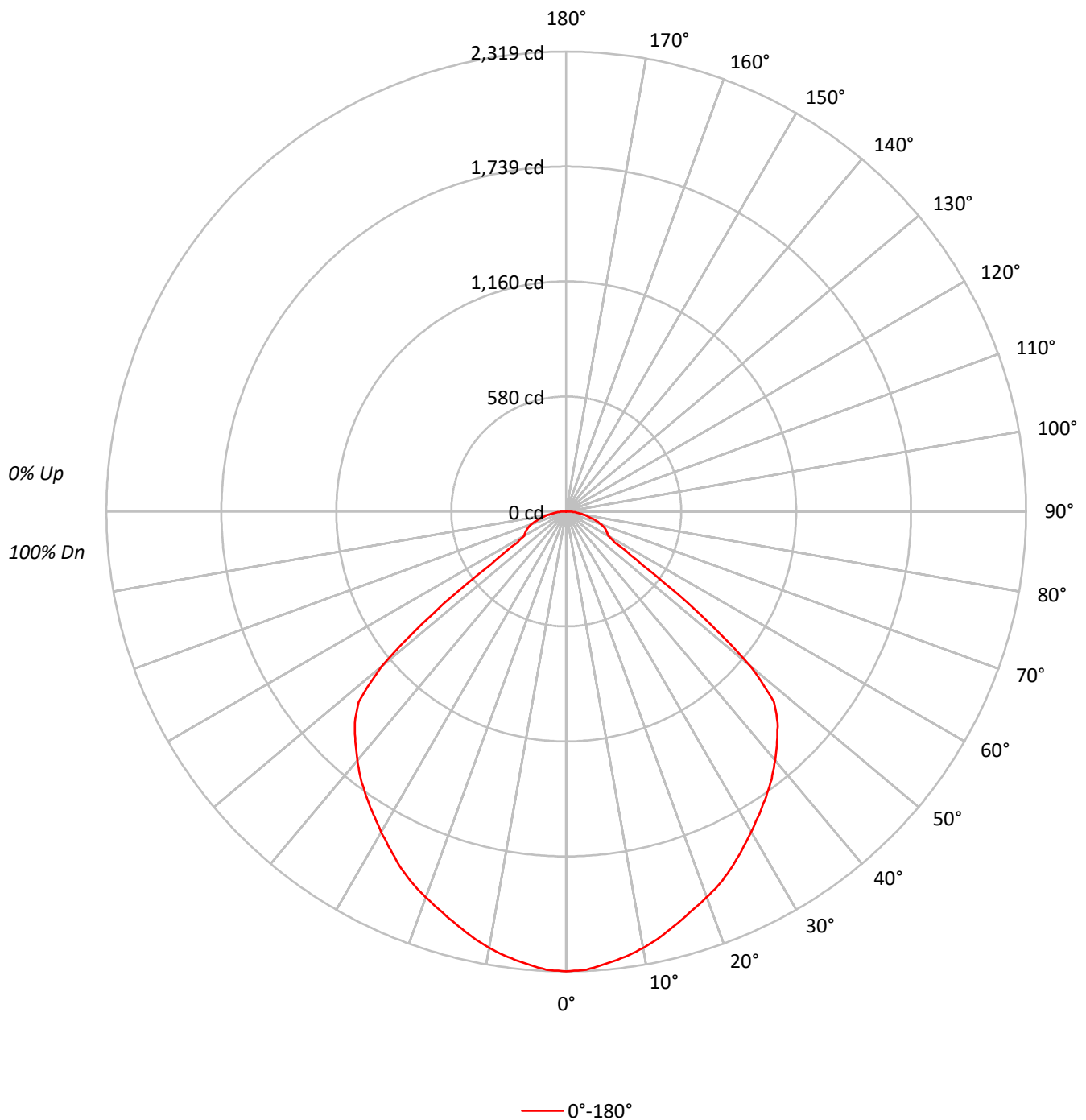
Lumens per Lamp: N/A
Luminaire Lumens: 4901.7 lumens
Efficiency: N/A
Efficacy: 146.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.36
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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Luminous Intensity Polar Plot



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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°	11442
5°	11345
10°	11198
15°	10996
20°	10870
25°	10770
30°	10630
35°	10580
40°	10557
45°	10519
50°	9333
55°	3996
60°	2409
65°	2572
70°	2653
75°	2568
80°	2478
85°	2513

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 10519 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.9	4.4
10°-20°	607.9	12.4
20°-30°	911.0	18.6
30°-40°	1099.8	22.4
40°-50°	1144.1	23.3
50°-60°	514.7	10.5
60°-70°	216.0	4.4
70°-80°	142.8	2.9
80°-90°	48.6	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°	1735.8	35.4
0°-40°	2835.6	57.9
0°-60°	4494.4	91.7
0°-90°	4901.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4901.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2319	
5°	2291	217
15°	2153	608
25°	1978	911
35°	1756	1100
45°	1508	1144
55°	464	515
65°	220	216
75°	135	143
85°	44	49
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2319.2
2.5°	2312.9
5°	2290.7
7.5°	2265.3
10°	2235.2
12.5°	2197.2
15°	2152.8
17.5°	2110.0
20°	2070.3
22.5°	2029.1
25°	1978.4
27.5°	1921.3
30°	1865.8
32.5°	1810.4
35°	1756.5
37.5°	1701.0
40°	1639.1
42.5°	1574.1
45°	1507.6
47.5°	1420.4
50°	1215.9
52.5°	849.7
55°	464.5
57.5°	290.1
60°	244.1
62.5°	233.0
65°	220.3
67.5°	204.5
70°	183.9
72.5°	160.1
75°	134.7
77.5°	111.0
80°	87.2
82.5°	65.0
85°	44.4
87.5°	25.4
90°	0.0

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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	12.21	13.66	12.58	13.97	14.29	12.21	13.66	12.58	13.97	14.29
	3H	14.30	15.59	14.68	15.92	16.28	14.30	15.59	14.68	15.92	16.28
	4H	15.13	16.33	15.53	16.68	17.06	15.13	16.33	15.53	16.68	17.06
	6H	15.78	16.88	16.19	17.25	17.64	15.78	16.88	16.19	17.25	17.64
	8H	16.01	17.06	16.44	17.45	17.86	16.01	17.06	16.44	17.45	17.86
	12H	16.19	17.20	16.62	17.58	18.01	16.19	17.20	16.62	17.58	18.01
4H	2H	12.87	14.07	13.27	14.42	14.80	12.87	14.07	13.27	14.42	14.80
	3H	15.22	16.20	15.63	16.60	17.00	15.22	16.20	15.63	16.60	17.00
	4H	16.18	17.06	16.61	17.48	17.92	16.18	17.06	16.61	17.48	17.92
	6H	16.96	17.72	17.42	18.17	18.63	16.96	17.72	17.42	18.17	18.63
	8H	17.25	17.96	17.71	18.41	18.88	17.25	17.96	17.71	18.41	18.88
	12H	17.48	18.12	17.97	18.60	19.07	17.48	18.12	17.97	18.60	19.07
8H	4H	16.53	17.25	17.00	17.69	18.16	16.53	17.25	17.00	17.69	18.16
	6H	17.45	18.05	17.95	18.54	19.02	17.45	18.05	17.95	18.54	19.02
	8H	17.83	18.37	18.35	18.88	19.37	17.83	18.37	18.35	18.88	19.37
	12H	18.17	18.65	18.68	19.14	19.71	18.17	18.65	18.68	19.14	19.71
12H	4H	16.57	17.20	17.05	17.69	18.16	16.57	17.20	17.05	17.69	18.16
	6H	17.52	18.06	18.04	18.57	19.06	17.52	18.06	18.04	18.57	19.06
	8H	17.97	18.45	18.48	18.94	19.51	17.97	18.45	18.48	18.94	19.51