

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: P980353

Luminaire Tested: PRLX-243-930-48L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980353
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-243-930-48L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 243 SHADE WITH FROSTED LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

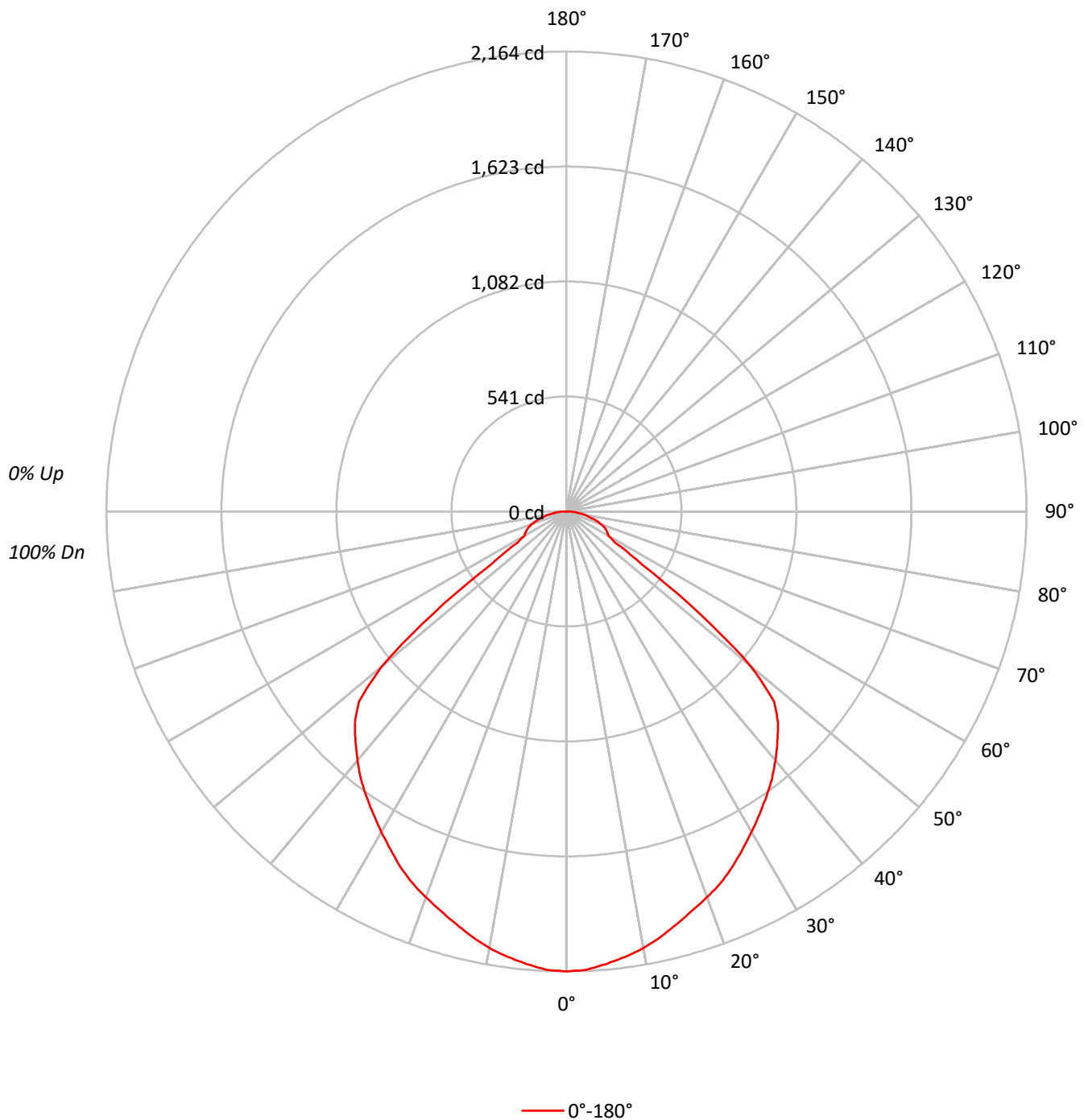
Lumens per Lamp: N/A
Luminaire Lumens: 4574.5 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.36
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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°	10679
5°	10588
10°	10451
15°	10262
20°	10144
25°	10051
30°	9920
35°	9873
40°	9852
45°	9817
50°	8710
55°	3729
60°	2248
65°	2400
70°	2475
75°	2398
80°	2313
85°	2344

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9817 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.5	4.4
10°-20°	567.3	12.4
20°-30°	850.2	18.6
30°-40°	1026.4	22.4
40°-50°	1067.7	23.3
50°-60°	480.3	10.5
60°-70°	201.6	4.4
70°-80°	133.3	2.9
80°-90°	45.3	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°	1620.0	35.4
0°-40°	2646.3	57.8
0°-60°	4194.4	91.7
0°-90°	4574.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4574.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2164	
5°	2138	202
15°	2009	567
25°	1846	850
35°	1639	1026
45°	1407	1068
55°	434	480
65°	206	202
75°	126	133
85°	41	45
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2164.4
2.5°	2158.5
5°	2137.8
7.5°	2114.1
10°	2086.0
12.5°	2050.5
15°	2009.1
17.5°	1969.1
20°	1932.1
22.5°	1893.7
25°	1846.3
27.5°	1793.1
30°	1741.3
32.5°	1689.5
35°	1639.2
37.5°	1587.4
40°	1529.7
42.5°	1469.1
45°	1406.9
47.5°	1325.6
50°	1134.7
52.5°	793.0
55°	433.5
57.5°	270.7
60°	227.8
62.5°	217.5
65°	205.6
67.5°	190.8
70°	171.6
72.5°	149.4
75°	125.8
77.5°	103.6
80°	81.4
82.5°	60.7
85°	41.4
87.5°	23.7
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	11.97	13.42	12.34	13.73	14.05	11.97	13.42	12.34	13.73	14.05
	3H	14.06	15.35	14.44	15.68	16.04	14.06	15.35	14.44	15.68	16.04
	4H	14.89	16.09	15.29	16.44	16.82	14.89	16.09	15.29	16.44	16.82
	6H	15.54	16.64	15.95	17.01	17.40	15.54	16.64	15.95	17.01	17.40
	8H	15.77	16.82	16.20	17.21	17.62	15.77	16.82	16.20	17.21	17.62
	12H	15.95	16.96	16.38	17.34	17.77	15.95	16.96	16.38	17.34	17.77
4H	2H	12.63	13.83	13.03	14.18	14.56	12.63	13.83	13.03	14.18	14.56
	3H	14.98	15.96	15.39	16.36	16.76	14.98	15.96	15.39	16.36	16.76
	4H	15.94	16.82	16.37	17.24	17.68	15.94	16.82	16.37	17.24	17.68
	6H	16.72	17.48	17.18	17.93	18.39	16.72	17.48	17.18	17.93	18.39
	8H	17.01	17.72	17.47	18.17	18.64	17.01	17.72	17.47	18.17	18.64
	12H	17.24	17.88	17.73	18.36	18.83	17.24	17.88	17.73	18.36	18.83
8H	4H	16.29	17.01	16.76	17.45	17.92	16.29	17.01	16.76	17.45	17.92
	6H	17.21	17.81	17.71	18.30	18.78	17.21	17.81	17.71	18.30	18.78
	8H	17.59	18.13	18.11	18.64	19.13	17.59	18.13	18.11	18.64	19.13
	12H	17.93	18.41	18.44	18.90	19.47	17.93	18.41	18.44	18.90	19.47
12H	4H	16.33	16.97	16.81	17.45	17.92	16.33	16.97	16.81	17.45	17.92
	6H	17.28	17.82	17.80	18.33	18.82	17.28	17.82	17.80	18.33	18.82
	8H	17.73	18.21	18.24	18.70	19.27	17.73	18.21	18.24	18.70	19.27