

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: P980373

Luminaire Tested: PRLX-243-930-74L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980373
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-243-930-74L-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

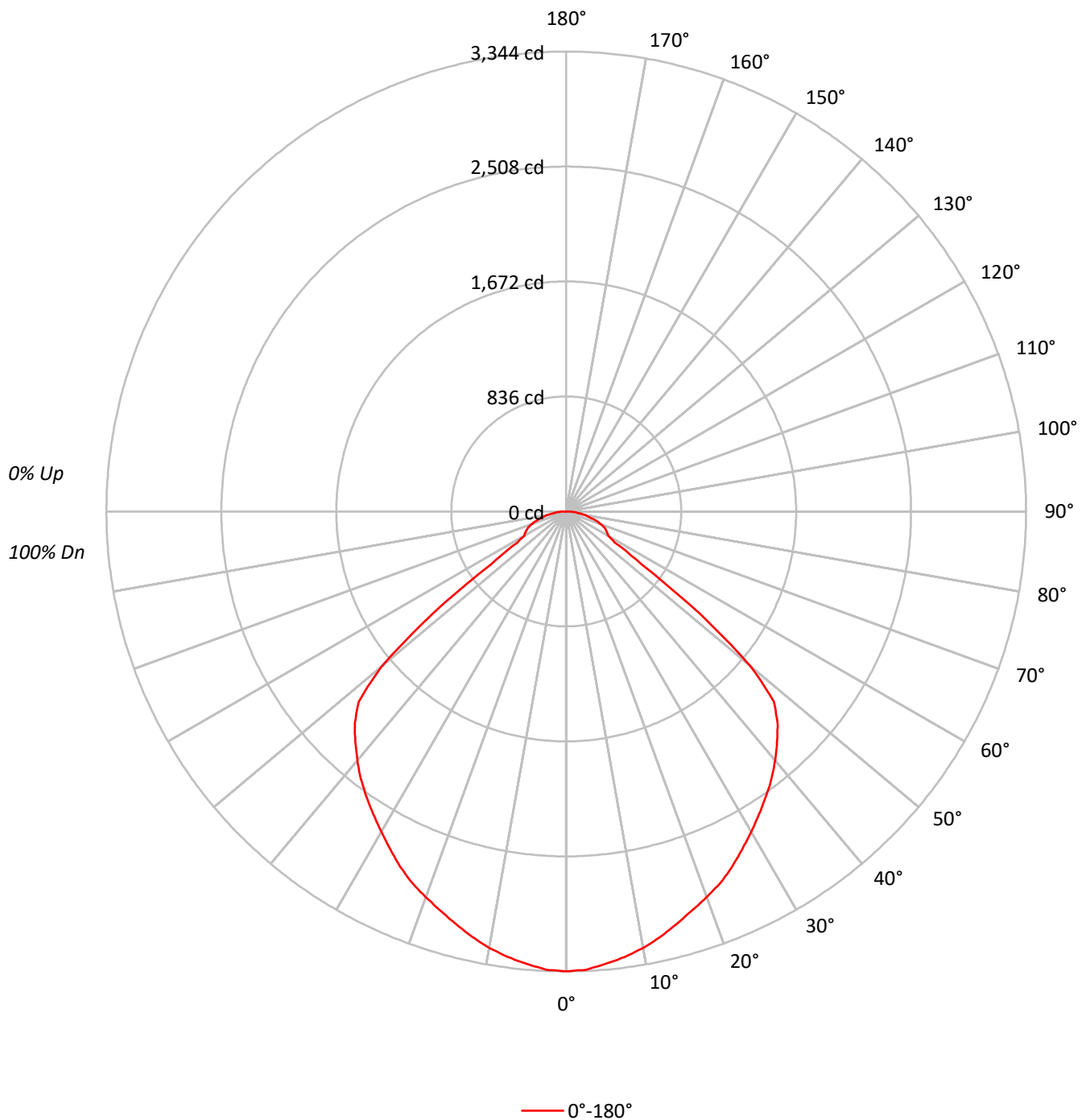
Lumens per Lamp: N/A
Luminaire Lumens: 7067.2 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.36
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 61.5
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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	111	107	103	100	108	105	101	99	100	98	95		97	95	93		88
2	103	96	90	85	100	94	89	84	90	86	82		87	84	80		77
3	95	86	79	73	92	84	78	73	81	76	71		79	74	70		67
4	88	77	70	64	86	76	69	63	74	67	63		71	66	62		59
5	81	70	62	56	79	69	61	56	67	60	55		65	59	55		52
6	76	64	56	50	74	63	55	50	61	54	49		59	53	49		46
7	70	58	50	44	69	57	50	44	56	49	44		54	48	44		42
8	66	53	45	40	64	53	45	40	51	45	40		50	44	39		37
9	61	49	41	36	60	48	41	36	47	41	36		46	40	36		34
10	58	45	38	33	56	45	38	33	44	37	33		43	37	33		31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	16498
5°	16357
10°	16145
15°	15854
20°	15672
25°	15528
30°	15326
35°	15253
40°	15221
45°	15166
50°	13455
55°	5761
60°	3473
65°	3709
70°	3824
75°	3704
80°	3571
85°	3623

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15166 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.8	4.4
10°-20°	876.5	12.4
20°-30°	1313.4	18.6
30°-40°	1585.7	22.4
40°-50°	1649.5	23.3
50°-60°	742.1	10.5
60°-70°	311.4	4.4
70°-80°	205.9	2.9
80°-90°	70.0	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°	2502.7	35.4
0°-40°	4088.3	57.8
0°-60°	6479.9	91.7
0°-90°	7067.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7067.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3344	
5°	3303	313
15°	3104	876
25°	2852	1313
35°	2532	1586
45°	2174	1650
55°	670	742
65°	318	311
75°	194	206
85°	64	70
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3343.8
2.5°	3334.6
5°	3302.6
7.5°	3266.1
10°	3222.6
12.5°	3167.8
15°	3103.8
17.5°	3042.1
20°	2984.9
22.5°	2925.5
25°	2852.4
27.5°	2770.1
30°	2690.1
32.5°	2610.1
35°	2532.4
37.5°	2452.4
40°	2363.3
42.5°	2269.6
45°	2173.6
47.5°	2047.9
50°	1753.0
52.5°	1225.1
55°	669.7
57.5°	418.3
60°	352.0
62.5°	336.0
65°	317.7
67.5°	294.8
70°	265.1
72.5°	230.8
75°	194.3
77.5°	160.0
80°	125.7
82.5°	93.7
85°	64.0
87.5°	36.6
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	13.48	14.93	13.85	15.25	15.56	13.48	14.93	13.85	15.25	15.56
	3H	15.57	16.86	15.95	17.19	17.55	15.57	16.86	15.95	17.19	17.55
	4H	16.40	17.60	16.80	17.95	18.33	16.40	17.60	16.80	17.95	18.33
	6H	17.05	18.15	17.46	18.52	18.92	17.05	18.15	17.46	18.52	18.92
	8H	17.28	18.33	17.71	18.72	19.13	17.28	18.33	17.71	18.72	19.13
	12H	17.46	18.47	17.90	18.85	19.28	17.46	18.47	17.90	18.85	19.28
4H	2H	14.15	15.35	14.55	15.70	16.08	14.15	15.35	14.55	15.70	16.08
	3H	16.49	17.47	16.90	17.87	18.27	16.49	17.47	16.90	17.87	18.27
	4H	17.45	18.33	17.88	18.75	19.19	17.45	18.33	17.88	18.75	19.19
	6H	18.23	19.00	18.69	19.44	19.90	18.23	19.00	18.69	19.44	19.90
	8H	18.52	19.23	18.98	19.68	20.15	18.52	19.23	18.98	19.68	20.15
	12H	18.75	19.39	19.24	19.87	20.34	18.75	19.39	19.24	19.87	20.34
8H	4H	17.80	18.52	18.27	18.96	19.43	17.80	18.52	18.27	18.96	19.43
	6H	18.72	19.32	19.22	19.81	20.29	18.72	19.32	19.22	19.81	20.29
	8H	19.10	19.64	19.62	20.15	20.64	19.10	19.64	19.62	20.15	20.64
	12H	19.44	19.92	19.95	20.41	20.98	19.44	19.92	19.95	20.41	20.98
12H	4H	17.84	18.48	18.32	18.96	19.43	17.84	18.48	18.32	18.96	19.43
	6H	18.79	19.33	19.31	19.84	20.33	18.79	19.33	19.31	19.84	20.33
	8H	19.24	19.72	19.75	20.21	20.78	19.24	19.72	19.75	20.21	20.78