

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: P980321

Luminaire Tested: PRLX-243-930-23L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-243-930-23L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 243 SHADE WITH CLEAR LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

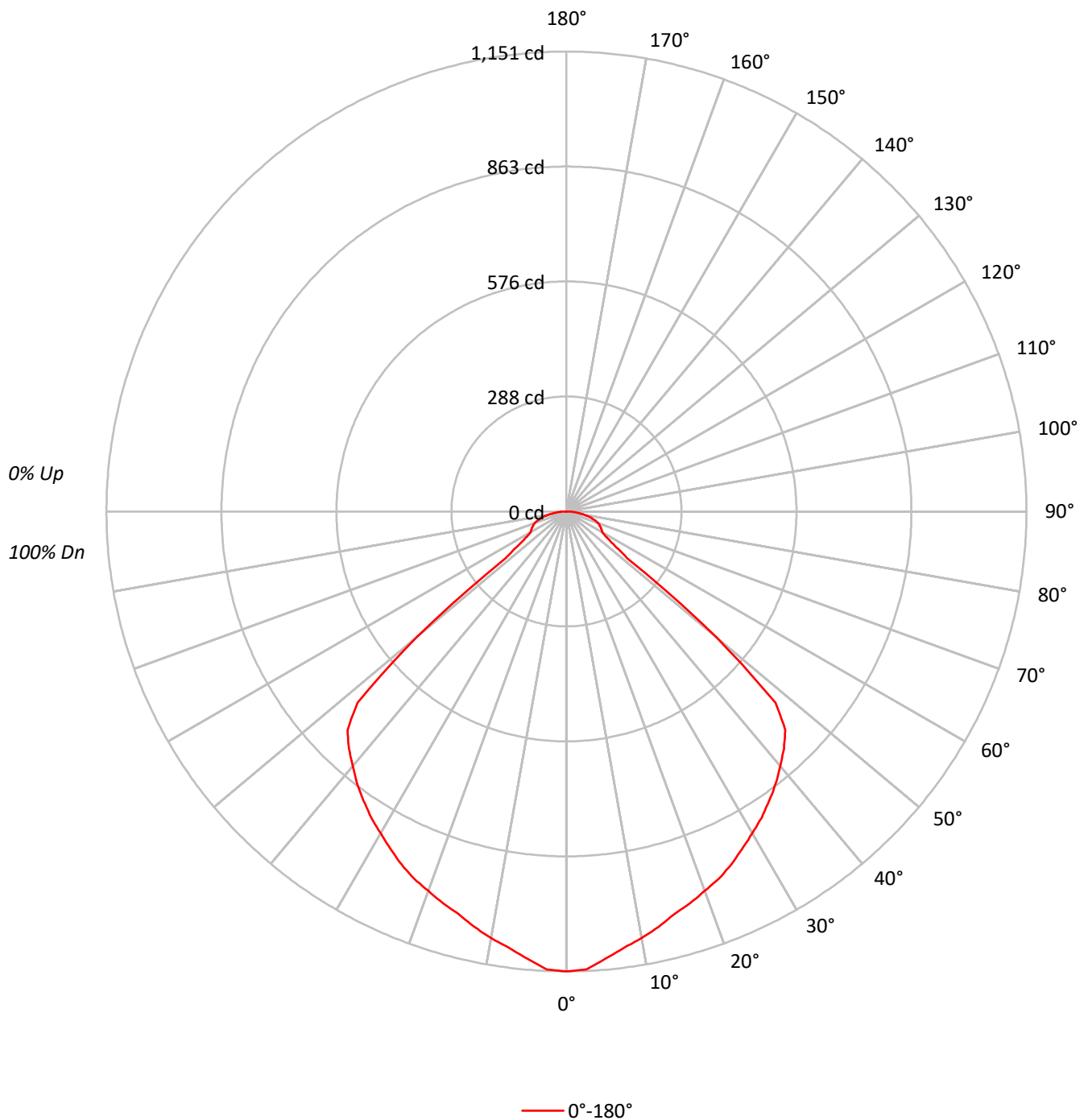
Lumens per Lamp: N/A
Luminaire Lumens: 2323.0 lumens
Efficiency: N/A
Efficacy: 154.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.38
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 15
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	104	100	108	105	102	99	101	98	96		97	95	93		88
2	103	96	91	86	100	94	89	85	91	87	83		88	84	81		77
3	95	87	80	74	93	85	79	74	82	77	72		80	75	71		68
4	88	78	71	65	86	77	70	65	75	68	64		72	67	63		60
5	82	71	63	57	80	70	63	57	68	61	56		66	60	56		53
6	76	65	57	51	75	64	56	51	62	55	50		60	55	50		48
7	71	59	51	46	70	58	51	46	57	50	45		56	49	45		43
8	67	54	47	41	65	54	46	41	52	46	41		51	45	41		39
9	62	50	43	37	61	49	42	37	48	42	37		47	41	37		35
10	59	46	39	34	57	46	39	34	45	38	34		44	38	34		32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5678
5°	5565
10°	5432
15°	5330
20°	5305
25°	5309
30°	5299
35°	5326
40°	5357
45°	5404
50°	3754
55°	1221
60°	1019
65°	1106
70°	1210
75°	1258
80°	1202
85°	1217

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5404 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.0	4.6
10°-20°	295.4	12.7
20°-30°	449.4	19.3
30°-40°	553.7	23.8
40°-50°	568.1	24.5
50°-60°	165.1	7.1
60°-70°	93.4	4.0
70°-80°	68.3	2.9
80°-90°	23.5	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°	850.8	36.6
0°-40°	1404.6	60.5
0°-60°	2137.7	92.0
0°-90°	2323.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2323.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1151	
5°	1124	106
15°	1043	295
25°	975	449
35°	884	554
45°	774	568
55°	142	165
65°	95	93
75°	66	68
85°	22	24
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1150.9
2.5°	1147.3
5°	1123.7
7.5°	1101.5
10°	1084.2
12.5°	1064.9
15°	1043.4
17.5°	1028.3
20°	1010.4
22.5°	995.3
25°	975.2
27.5°	952.3
30°	930.1
32.5°	908.6
35°	884.2
37.5°	859.8
40°	831.8
42.5°	805.3
45°	774.5
47.5°	709.2
50°	489.1
52.5°	192.2
55°	142.0
57.5°	116.9
60°	103.3
62.5°	99.0
65°	94.7
67.5°	89.6
70°	83.9
72.5°	76.0
75°	66.0
77.5°	53.8
80°	42.3
82.5°	31.6
85°	21.5
87.5°	12.2
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	8.56	9.97	8.92	10.28	10.60	8.56	9.97	8.92	10.28	10.60
	3H	10.98	12.23	11.36	12.56	12.93	10.98	12.23	11.36	12.56	12.93
	4H	12.04	13.21	12.44	13.56	13.94	12.04	13.21	12.44	13.56	13.94
	6H	12.82	13.90	13.23	14.27	14.66	12.82	13.90	13.23	14.27	14.66
	8H	13.10	14.12	13.53	14.51	14.92	13.10	14.12	13.53	14.51	14.92
	12H	13.31	14.29	13.75	14.68	15.11	13.31	14.29	13.75	14.68	15.11
4H	2H	9.31	10.48	9.71	10.83	11.21	9.31	10.48	9.71	10.83	11.21
	3H	12.00	12.96	12.41	13.36	13.76	12.00	12.96	12.41	13.36	13.76
	4H	13.19	14.05	13.63	14.47	14.91	13.19	14.05	13.63	14.47	14.91
	6H	14.11	14.85	14.57	15.30	15.76	14.11	14.85	14.57	15.30	15.76
	8H	14.43	15.13	14.90	15.58	16.05	14.43	15.13	14.90	15.58	16.05
	12H	14.70	15.32	15.19	15.80	16.28	14.70	15.32	15.19	15.80	16.28
8H	4H	13.62	14.31	14.08	14.76	15.23	13.62	14.31	14.08	14.76	15.23
	6H	14.67	15.25	15.17	15.74	16.22	14.67	15.25	15.17	15.74	16.22
	8H	15.09	15.62	15.61	16.13	16.62	15.09	15.62	15.61	16.13	16.62
	12H	15.46	15.93	15.98	16.42	16.99	15.46	15.93	15.98	16.42	16.99
12H	4H	13.66	14.28	14.15	14.76	15.24	13.66	14.28	14.15	14.76	15.24
	6H	14.75	15.28	15.27	15.79	16.28	14.75	15.28	15.27	15.79	16.28
	8H	15.25	15.72	15.76	16.21	16.78	15.25	15.72	15.76	16.21	16.78

END OF REPORT