

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: P980401

Luminaire Tested: PRLX-243-935-23L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980401
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-243-935-23L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 243 SHADE WITH CLEAR LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

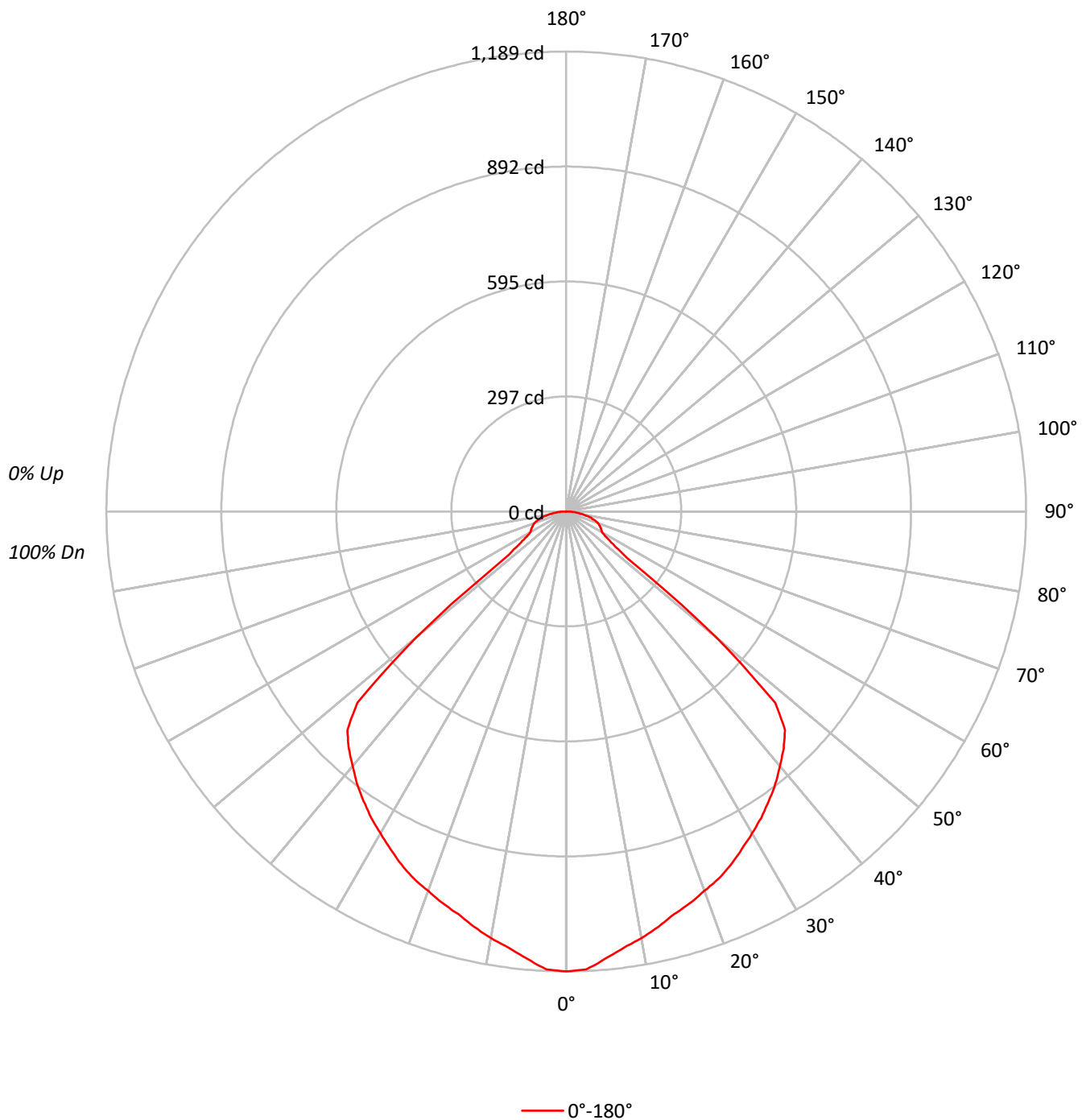
Lumens per Lamp: N/A
Luminaire Lumens: 2399.9 lumens
Efficiency: N/A
Efficacy: 160.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.38
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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°	5867
5°	5750
10°	5612
15°	5506
20°	5481
25°	5485
30°	5474
35°	5502
40°	5535
45°	5583
50°	3879
55°	1262
60°	1053
65°	1142
70°	1251
75°	1300
80°	1242
85°	1257

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5583 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.5	4.6
10°-20°	305.2	12.7
20°-30°	464.3	19.3
30°-40°	572.1	23.8
40°-50°	586.9	24.5
50°-60°	170.5	7.1
60°-70°	96.5	4.0
70°-80°	70.6	2.9
80°-90°	24.3	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°	879.0	36.6
0°-40°	1451.1	60.5
0°-60°	2208.6	92.0
0°-90°	2399.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2399.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1189	
5°	1161	110
15°	1078	305
25°	1008	464
35°	914	572
45°	800	587
55°	147	171
65°	98	96
75°	68	71
85°	22	24
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1189.1
2.5°	1185.4
5°	1160.9
7.5°	1137.9
10°	1120.2
12.5°	1100.2
15°	1077.9
17.5°	1062.4
20°	1043.9
22.5°	1028.3
25°	1007.6
27.5°	983.9
30°	960.9
32.5°	938.7
35°	913.5
37.5°	888.3
40°	859.4
42.5°	832.0
45°	800.1
47.5°	732.7
50°	505.3
52.5°	198.5
55°	146.7
57.5°	120.8
60°	106.7
62.5°	102.2
65°	97.8
67.5°	92.6
70°	86.7
72.5°	78.5
75°	68.2
77.5°	55.6
80°	43.7
82.5°	32.6
85°	22.2
87.5°	12.6
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	8.67	10.09	9.04	10.40	10.71	8.67	10.09	9.04	10.40	10.71
	3H	11.09	12.35	11.47	12.68	13.04	11.09	12.35	11.47	12.68	13.04
	4H	12.15	13.32	12.55	13.67	14.05	12.15	13.32	12.55	13.67	14.05
	6H	12.94	14.01	13.35	14.38	14.78	12.94	14.01	13.35	14.38	14.78
	8H	13.21	14.24	13.64	14.63	15.03	13.21	14.24	13.64	14.63	15.03
	12H	13.43	14.41	13.86	14.79	15.22	13.43	14.41	13.86	14.79	15.22
4H	2H	9.42	10.59	9.82	10.94	11.32	9.42	10.59	9.82	10.94	11.32
	3H	12.11	13.07	12.53	13.48	13.88	12.11	13.07	12.53	13.48	13.88
	4H	13.31	14.17	13.74	14.59	15.03	13.31	14.17	13.74	14.59	15.03
	6H	14.22	14.97	14.68	15.41	15.87	14.22	14.97	14.68	15.41	15.87
	8H	14.55	15.25	15.02	15.69	16.16	14.55	15.25	15.02	15.69	16.16
	12H	14.81	15.44	15.30	15.92	16.39	14.81	15.44	15.30	15.92	16.39
8H	4H	13.73	14.43	14.20	14.87	15.34	13.73	14.43	14.20	14.87	15.34
	6H	14.78	15.36	15.28	15.86	16.34	14.78	15.36	15.28	15.86	16.34
	8H	15.21	15.73	15.72	16.24	16.73	15.21	15.73	15.72	16.24	16.73
	12H	15.58	16.04	16.09	16.54	17.10	15.58	16.04	16.09	16.54	17.10
12H	4H	13.78	14.40	14.26	14.88	15.35	13.78	14.40	14.26	14.88	15.35
	6H	14.87	15.39	15.39	15.90	16.39	14.87	15.39	15.39	15.90	16.39
	8H	15.36	15.83	15.87	16.32	16.89	15.36	15.83	15.87	16.32	16.89

END OF REPORT