

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: P979443

Luminaire Tested: PRLX-240-935-23L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979443
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-935-23L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH FROSTED LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

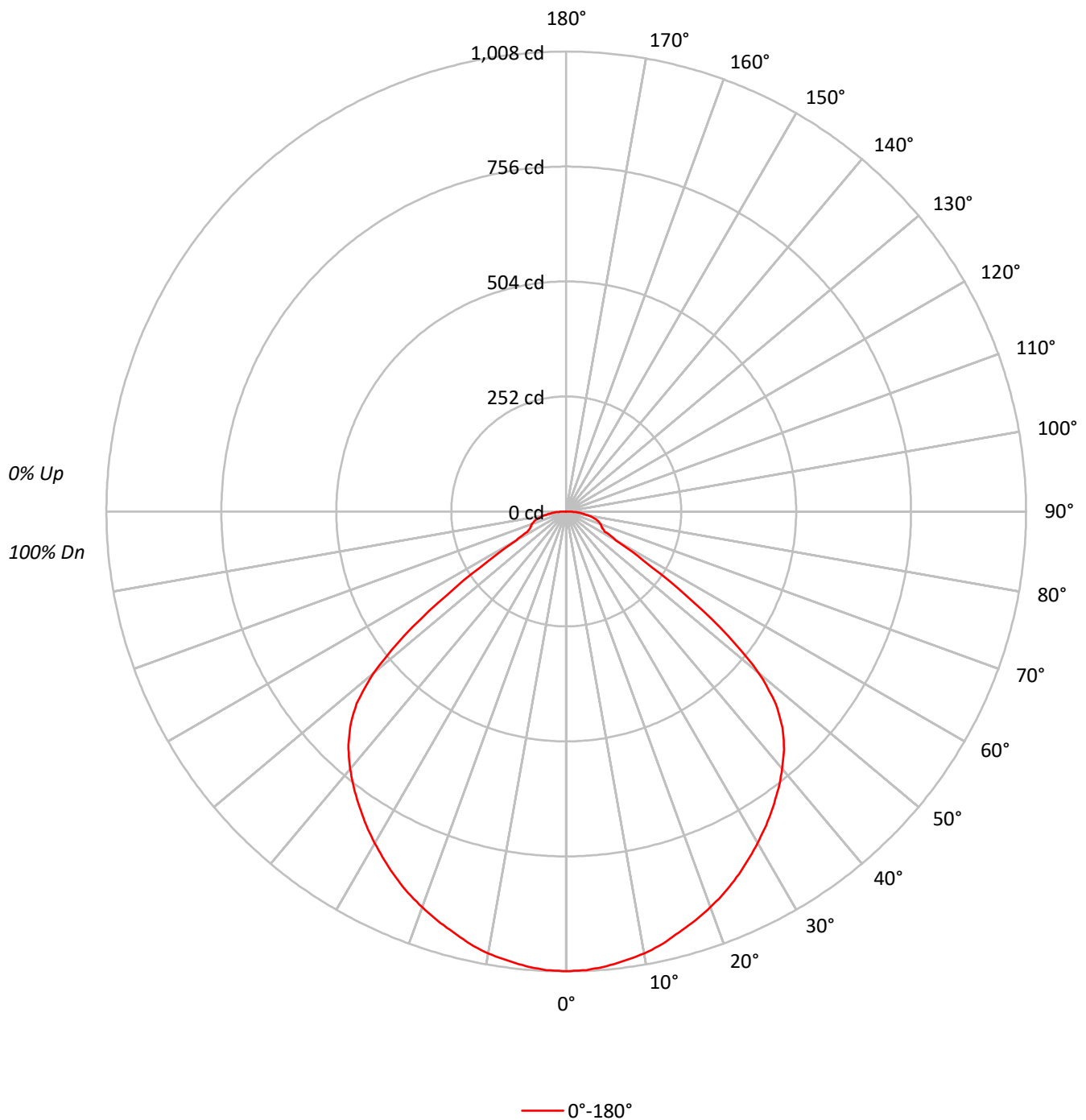
Lumens per Lamp: N/A
Luminaire Lumens: 2254.7 lumens
Efficiency: N/A
Efficacy: 150.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	89
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47
7	70	57	49	44	68	56	49	43	55	48	43	54	47	43	52	47	42
8	65	52	45	39	64	52	44	39	50	44	39	49	43	39	48	43	38
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	10146
5°	10117
10°	10060
15°	9955
20°	9891
25°	9828
30°	9759
35°	9717
40°	9679
45°	9548
50°	8645
55°	5618
60°	2535
65°	2082
70°	2355
75°	2622
80°	2748
85°	2819

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 9548 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.0	4.2
10°-20°	269.8	12.0
20°-30°	407.7	18.1
30°-40°	494.8	21.9
40°-50°	510.1	22.6
50°-60°	289.3	12.8
60°-70°	91.5	4.1
70°-80°	69.8	3.1
80°-90°	26.6	1.2
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°	772.5	34.3
0°-40°	1267.4	56.2
0°-60°	2066.8	91.7
0°-90°	2254.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2254.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1008	
5°	1001	95
15°	955	270
25°	885	408
35°	790	495
45°	670	510
55°	320	289
65°	87	91
75°	67	70
85°	24	27
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1007.6
2.5°	1006.1
5°	1000.9
7.5°	992.7
10°	983.9
12.5°	971.3
15°	955.0
17.5°	940.1
20°	923.1
22.5°	905.3
25°	884.6
27.5°	862.4
30°	839.4
32.5°	815.7
35°	790.5
37.5°	764.6
40°	736.4
42.5°	706.8
45°	670.5
47.5°	623.1
50°	551.9
52.5°	447.5
55°	320.0
57.5°	200.8
60°	125.9
62.5°	95.6
65°	87.4
67.5°	83.7
70°	80.0
72.5°	74.8
75°	67.4
77.5°	58.5
80°	47.4
82.5°	36.3
85°	24.4
87.5°	13.3
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	14.69	16.16	15.05	16.47	16.79	14.69	16.16	15.05	16.47	16.79
	3H	15.58	16.89	15.96	17.21	17.58	15.58	16.89	15.96	17.21	17.58
	4H	16.19	17.41	16.59	17.76	18.14	16.19	17.41	16.59	17.76	18.14
	6H	16.79	17.91	17.20	18.28	18.67	16.79	17.91	17.20	18.28	18.67
	8H	17.02	18.09	17.45	18.48	18.88	17.02	18.09	17.45	18.48	18.88
	12H	17.21	18.23	17.64	18.61	19.04	17.21	18.23	17.64	18.61	19.04
4H	2H	14.81	16.03	15.21	16.38	16.76	14.81	16.03	15.21	16.38	16.76
	3H	16.05	17.05	16.47	17.45	17.86	16.05	17.05	16.47	17.45	17.86
	4H	16.88	17.77	17.31	18.19	18.63	16.88	17.77	17.31	18.19	18.63
	6H	17.68	18.46	18.14	18.90	19.37	17.68	18.46	18.14	18.90	19.37
	8H	18.00	18.73	18.47	19.17	19.64	18.00	18.73	18.47	19.17	19.64
	12H	18.26	18.91	18.74	19.39	19.86	18.26	18.91	18.74	19.39	19.86
8H	4H	17.19	17.92	17.66	18.36	18.83	17.19	17.92	17.66	18.36	18.83
	6H	18.16	18.77	18.66	19.26	19.74	18.16	18.77	18.66	19.26	19.74
	8H	18.58	19.13	19.10	19.64	20.13	18.58	19.13	19.10	19.64	20.13
	12H	18.95	19.44	19.46	19.93	20.50	18.95	19.44	19.46	19.93	20.50
12H	4H	17.23	17.88	17.72	18.36	18.84	17.23	17.88	17.72	18.36	18.84
	6H	18.24	18.79	18.76	19.30	19.79	18.24	18.79	18.76	19.30	19.79
	8H	18.73	19.23	19.24	19.72	20.28	18.73	19.23	19.24	19.72	20.28