

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: P979441

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

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979441
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-935-23L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH CLEAR LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

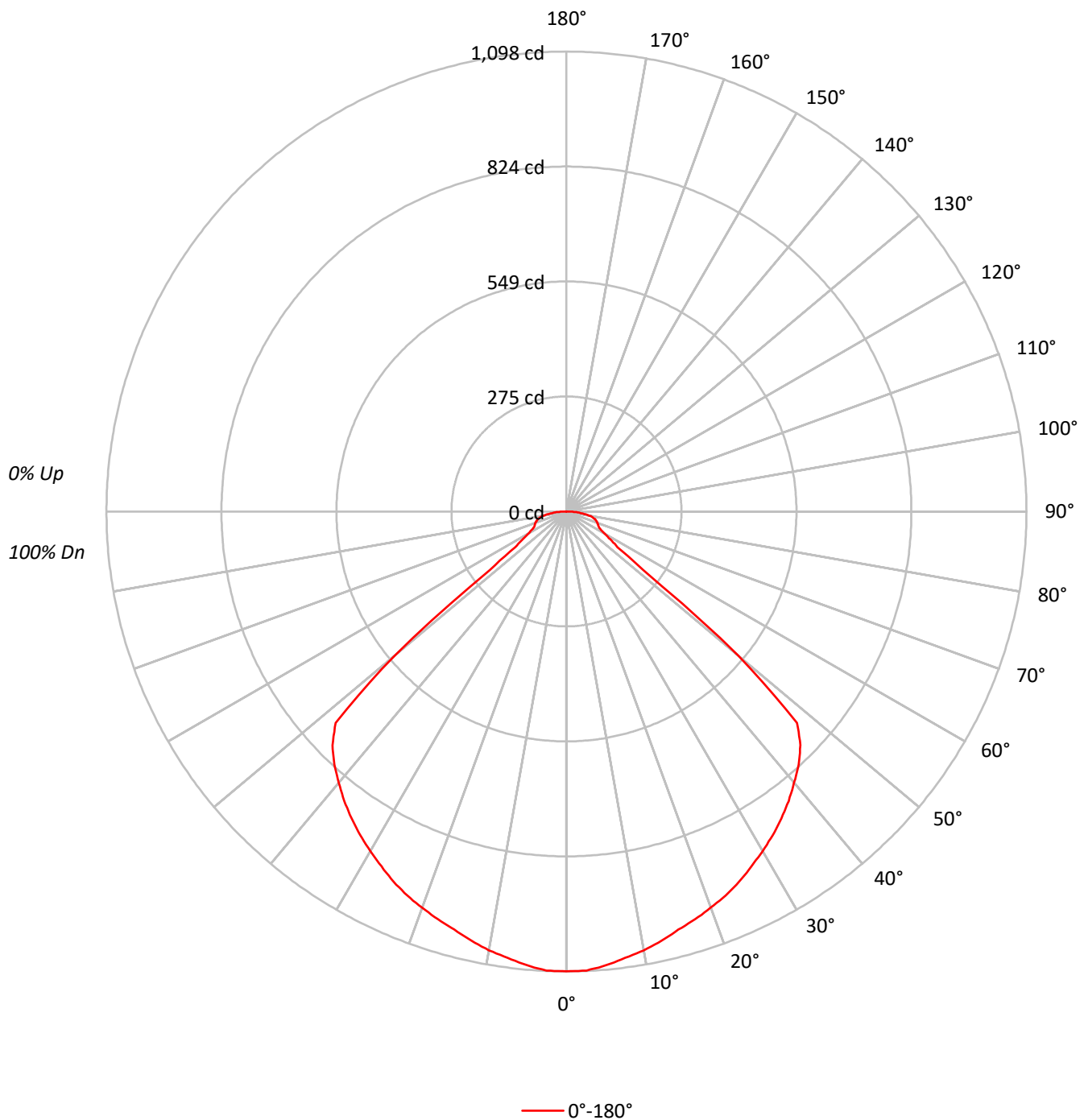
Lumens per Lamp: N/A
Luminaire Lumens: 2362.9 lumens
Efficiency: N/A
Efficacy: 157.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.43
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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				0
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	91	86	83		87	84	81		77
3	95	86	79	74	93	85	78	73	82	76	72		79	75	71		68
4	88	78	70	64	86	77	70	64	74	68	63		72	67	62		60
5	82	71	63	57	80	69	62	57	67	61	56		66	60	55		53
6	76	64	56	51	74	63	56	50	62	55	50		60	54	50		47
7	71	59	51	45	69	58	50	45	56	50	45		55	49	44		42
8	66	54	46	41	65	53	46	41	52	45	40		51	45	40		38
9	62	50	42	37	61	49	42	37	48	41	37		47	41	36		35
10	58	46	38	34	57	45	38	34	44	38	33		43	37	33		32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	11055
5°	10993
10°	10878
15°	10773
20°	10788
25°	10840
30°	10887
35°	10991
40°	11111
45°	11245
50°	8402
55°	2614
60°	2088
65°	2013
70°	2311
75°	2739
80°	3137
85°	3085

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 11245 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.0	4.4
10°-20°	292.5	12.4
20°-30°	449.8	19.0
30°-40°	560.0	23.7
40°-50°	587.5	24.9
50°-60°	181.6	7.7
60°-70°	86.1	3.6
70°-80°	72.7	3.1
80°-90°	29.7	1.3
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°	845.4	35.8
0°-40°	1405.3	59.5
0°-60°	2174.4	92.0
0°-90°	2362.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2362.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1098	
5°	1088	103
15°	1034	293
25°	976	450
35°	894	560
45°	790	587
55°	149	182
65°	84	86
75°	70	73
85°	27	30
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1097.9
2.5°	1097.2
5°	1087.6
7.5°	1075.0
10°	1063.9
12.5°	1049.8
15°	1033.5
17.5°	1020.9
20°	1006.8
22.5°	992.7
25°	975.7
27.5°	955.7
30°	936.4
32.5°	916.4
35°	894.2
37.5°	871.2
40°	845.3
42.5°	820.1
45°	789.7
47.5°	746.8
50°	536.4
52.5°	230.4
55°	148.9
57.5°	123.7
60°	103.7
62.5°	90.4
65°	84.5
67.5°	81.5
70°	78.5
72.5°	74.8
75°	70.4
77.5°	63.7
80°	54.1
82.5°	40.7
85°	26.7
87.5°	14.8
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	11.33	12.76	11.70	13.07	13.38	11.33	12.76	11.70	13.07	13.38
	3H	13.29	14.56	13.67	14.89	15.25	13.29	14.56	13.67	14.89	15.25
	4H	14.45	15.63	14.85	15.98	16.37	14.45	15.63	14.85	15.98	16.37
	6H	15.58	16.67	16.00	17.04	17.43	15.58	16.67	16.00	17.04	17.43
	8H	16.01	17.04	16.44	17.43	17.84	16.01	17.04	16.44	17.43	17.84
	12H	16.32	17.30	16.75	17.69	18.12	16.32	17.30	16.75	17.69	18.12
4H	2H	11.84	13.02	12.24	13.37	13.75	11.84	13.02	12.24	13.37	13.75
	3H	14.21	15.17	14.62	15.58	15.98	14.21	15.17	14.62	15.58	15.98
	4H	15.59	16.45	16.02	16.87	17.31	15.59	16.45	16.02	16.87	17.31
	6H	16.91	17.66	17.37	18.11	18.57	16.91	17.66	17.37	18.11	18.57
	8H	17.41	18.11	17.87	18.56	19.03	17.41	18.11	17.87	18.56	19.03
	12H	17.78	18.41	18.26	18.89	19.36	17.78	18.41	18.26	18.89	19.36
8H	4H	16.12	16.82	16.58	17.27	17.74	16.12	16.82	16.58	17.27	17.74
	6H	17.62	18.21	18.12	18.70	19.18	17.62	18.21	18.12	18.70	19.18
	8H	18.23	18.76	18.74	19.27	19.76	18.23	18.76	18.74	19.27	19.76
	12H	18.71	19.18	19.22	19.68	20.24	18.71	19.18	19.22	19.68	20.24
12H	4H	16.21	16.84	16.70	17.32	17.80	16.21	16.84	16.70	17.32	17.80
	6H	17.76	18.29	18.28	18.81	19.30	17.76	18.29	18.28	18.81	19.30
	8H	18.44	18.92	18.95	19.41	19.98	18.44	18.92	18.95	19.41	19.98

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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