

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: P979523

Luminaire Tested: PRLX-240-940-23L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979523
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-240-940-23L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH FROSTED LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

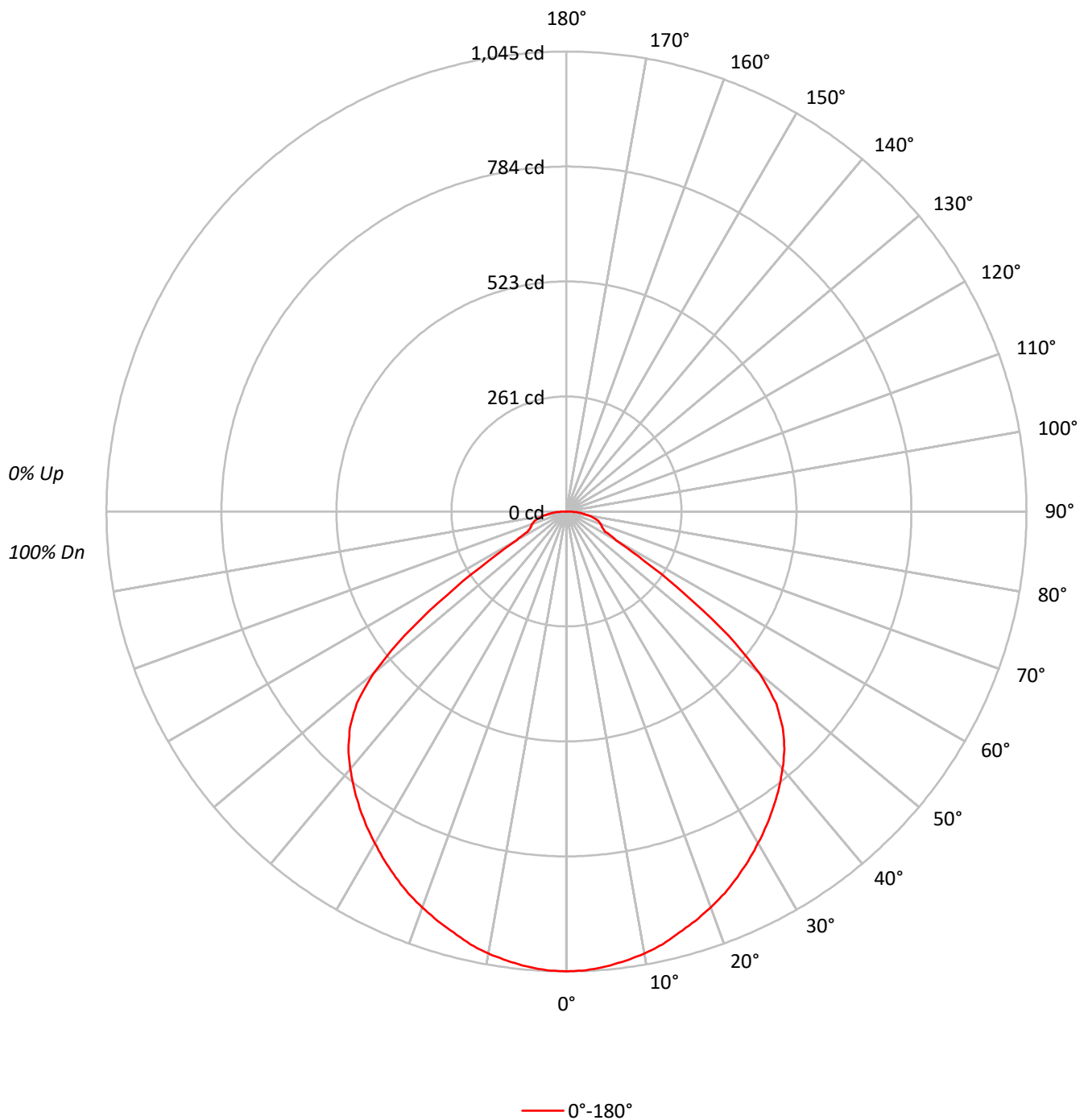
Lumens per Lamp: N/A
Luminaire Lumens: 2338.5 lumens
Efficiency: N/A
Efficacy: 155.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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°	10522
5°	10493
10°	10433
15°	10325
20°	10259
25°	10193
30°	10122
35°	10078
40°	10040
45°	9902
50°	8966
55°	5826
60°	2630
65°	2161
70°	2444
75°	2719
80°	2853
85°	2934

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9902 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.5	4.2
10°-20°	279.8	12.0
20°-30°	422.9	18.1
30°-40°	513.2	21.9
40°-50°	529.1	22.6
50°-60°	300.0	12.8
60°-70°	94.9	4.1
70°-80°	72.4	3.1
80°-90°	27.6	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°	801.3	34.3
0°-40°	1314.5	56.2
0°-60°	2143.6	91.7
0°-90°	2338.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2338.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1045	
5°	1038	99
15°	990	280
25°	918	423
35°	820	513
45°	695	529
55°	332	300
65°	91	95
75°	70	72
85°	25	28
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1045.0
2.5°	1043.5
5°	1038.1
7.5°	1029.6
10°	1020.4
12.5°	1007.4
15°	990.5
17.5°	975.1
20°	957.4
22.5°	939.0
25°	917.5
27.5°	894.4
30°	870.6
32.5°	846.0
35°	819.9
37.5°	793.0
40°	763.8
42.5°	733.0
45°	695.4
47.5°	646.2
50°	572.4
52.5°	464.1
55°	331.9
57.5°	208.2
60°	130.6
62.5°	99.1
65°	90.7
67.5°	86.8
70°	83.0
72.5°	77.6
75°	69.9
77.5°	60.7
80°	49.2
82.5°	37.7
85°	25.4
87.5°	13.8
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	14.81	16.28	15.18	16.60	16.91	14.81	16.28	15.18	16.60	16.91
	3H	15.70	17.01	16.08	17.34	17.70	15.70	17.01	16.08	17.34	17.70
	4H	16.31	17.53	16.71	17.88	18.26	16.31	17.53	16.71	17.88	18.26
	6H	16.91	18.04	17.32	18.40	18.80	16.91	18.04	17.32	18.40	18.80
	8H	17.15	18.22	17.58	18.61	19.01	17.15	18.22	17.58	18.61	19.01
	12H	17.34	18.36	17.77	18.74	19.17	17.34	18.36	17.77	18.74	19.17
4H	2H	14.94	16.16	15.34	16.51	16.89	14.94	16.16	15.34	16.51	16.89
	3H	16.18	17.18	16.59	17.58	17.98	16.18	17.18	16.59	17.58	17.98
	4H	17.00	17.90	17.44	18.31	18.75	17.00	17.90	17.44	18.31	18.75
	6H	17.81	18.59	18.27	19.03	19.49	17.81	18.59	18.27	19.03	19.49
	8H	18.13	18.86	18.59	19.30	19.77	18.13	18.86	18.59	19.30	19.77
	12H	18.39	19.04	18.87	19.52	19.99	18.39	19.04	18.87	19.52	19.99
8H	4H	17.32	18.05	17.78	18.49	18.96	17.32	18.05	17.78	18.49	18.96
	6H	18.29	18.89	18.78	19.39	19.86	18.29	18.89	18.78	19.39	19.86
	8H	18.71	19.26	19.22	19.77	20.26	18.71	19.26	19.22	19.77	20.26
	12H	19.08	19.57	19.59	20.06	20.63	19.08	19.57	19.59	20.06	20.63
12H	4H	17.36	18.01	17.84	18.49	18.96	17.36	18.01	17.84	18.49	18.96
	6H	18.37	18.92	18.88	19.43	19.92	18.37	18.92	18.88	19.43	19.92
	8H	18.86	19.36	19.37	19.85	20.41	18.86	19.36	19.37	19.85	20.41