

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: P979683

Luminaire Tested: PRLX-241-930-23L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-241-930-23L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH FROSTED LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

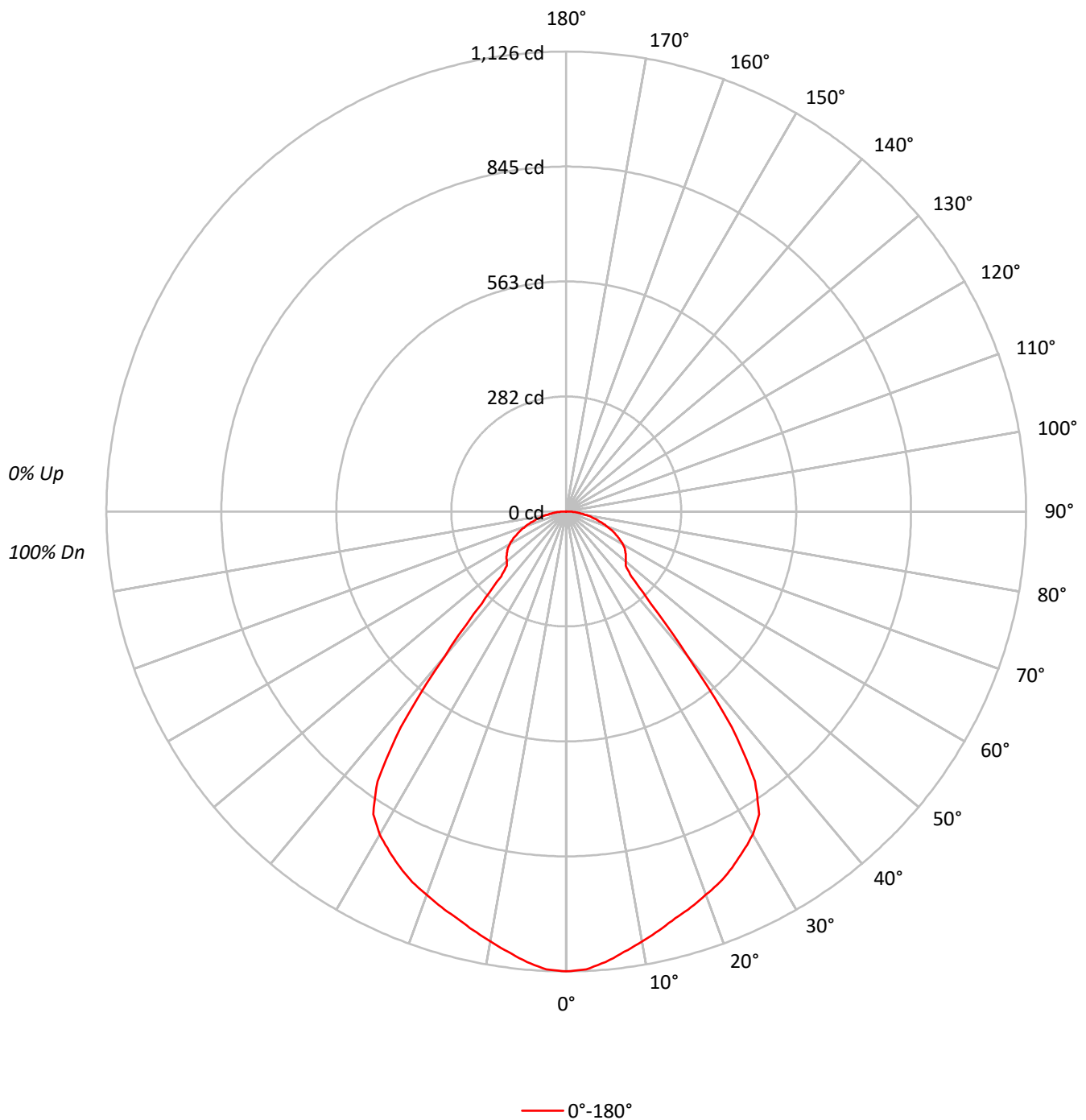
Lumens per Lamp: N/A
Luminaire Lumens: 1909.5 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.12
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	103	100	108	104	101	98	100	98	95		96	94	92		93
2	103	96	90	85	100	94	89	84	90	86	82		87	84	81		84
3	95	86	80	74	93	85	79	73	82	77	72		79	75	71		77
4	89	78	71	65	87	77	70	65	75	69	64		73	67	63		71
5	83	72	64	58	81	71	63	58	69	62	57		67	61	57		65
6	77	66	58	52	76	65	58	52	63	57	52		62	56	51		60
7	72	61	53	48	71	60	53	47	58	52	47		57	51	47		56
8	68	56	49	43	67	55	48	43	54	48	43		53	47	43		52
9	64	52	45	40	63	52	45	40	51	44	40		50	44	39		49
10	60	49	42	37	59	48	41	37	47	41	37		46	41	36		46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	8679
5°	8568
10°	8370
15°	8230
20°	8195
25°	8179
30°	8133
35°	7585
40°	4669
45°	2455
50°	2279
55°	2380
60°	2465
65°	2446
70°	2376
75°	2264
80°	2131
85°	1964

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 62.5°

Luminance: 2466 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	5.5
10°-20°	291.8	15.3
20°-30°	443.0	23.2
30°-40°	472.1	24.7
40°-50°	201.7	10.6
50°-60°	158.2	8.3
60°-70°	132.2	6.9
70°-80°	80.6	4.2
80°-90°	25.4	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°	839.3	44.0
0°-40°	1311.4	68.7
0°-60°	1671.3	87.5
0°-90°	1909.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1909.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1126	
5°	1107	104
15°	1031	292
25°	962	443
35°	806	472
45°	225	202
55°	177	158
65°	134	132
75°	76	81
85°	22	25
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1125.8
2.5°	1122.3
5°	1107.2
7.5°	1087.8
10°	1069.2
12.5°	1050.5
15°	1031.2
17.5°	1016.1
20°	998.9
22.5°	983.1
25°	961.6
27.5°	938.0
30°	913.6
32.5°	879.2
35°	806.0
37.5°	666.2
40°	464.0
42.5°	306.2
45°	225.2
47.5°	197.2
50°	190.0
52.5°	184.3
55°	177.1
57.5°	170.0
60°	159.9
62.5°	147.7
65°	134.1
67.5°	119.8
70°	105.4
72.5°	90.4
75°	76.0
77.5°	62.4
80°	48.0
82.5°	35.1
85°	22.2
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	13.51	14.85	13.88	15.17	15.48	13.51	14.85	13.88	15.17	15.48
	3H	15.52	16.72	15.90	17.05	17.41	15.52	16.72	15.90	17.05	17.41
	4H	16.27	17.40	16.68	17.75	18.13	16.27	17.40	16.68	17.75	18.13
	6H	16.86	17.90	17.27	18.27	18.66	16.86	17.90	17.27	18.27	18.66
	8H	17.06	18.05	17.49	18.44	18.84	17.06	18.05	17.49	18.44	18.84
	12H	17.20	18.14	17.63	18.52	18.95	17.20	18.14	17.63	18.52	18.95
4H	2H	14.18	15.31	14.59	15.66	16.04	14.18	15.31	14.59	15.66	16.04
	3H	16.38	17.32	16.80	17.72	18.13	16.38	17.32	16.80	17.72	18.13
	4H	17.27	18.11	17.70	18.53	18.97	17.27	18.11	17.70	18.53	18.97
	6H	17.98	18.72	18.44	19.16	19.63	17.98	18.72	18.44	19.16	19.63
	8H	18.23	18.92	18.70	19.36	19.83	18.23	18.92	18.70	19.36	19.83
	12H	18.42	19.03	18.90	19.51	19.98	18.42	19.03	18.90	19.51	19.98
8H	4H	17.59	18.27	18.05	18.72	19.19	17.59	18.27	18.05	18.72	19.19
	6H	18.44	19.00	18.94	19.50	19.98	18.44	19.00	18.94	19.50	19.98
	8H	18.78	19.28	19.30	19.80	20.29	18.78	19.28	19.30	19.80	20.29
	12H	19.06	19.50	19.57	19.99	20.56	19.06	19.50	19.57	19.99	20.56
12H	4H	17.62	18.22	18.10	18.70	19.18	17.62	18.22	18.10	18.70	19.18
	6H	18.51	19.01	19.03	19.52	20.01	18.51	19.01	19.03	19.52	20.01
	8H	18.91	19.35	19.42	19.84	20.41	18.91	19.35	19.42	19.84	20.41