

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: P979681

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

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979681
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-241-930-23L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 241 SHADE WITH CLEAR LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

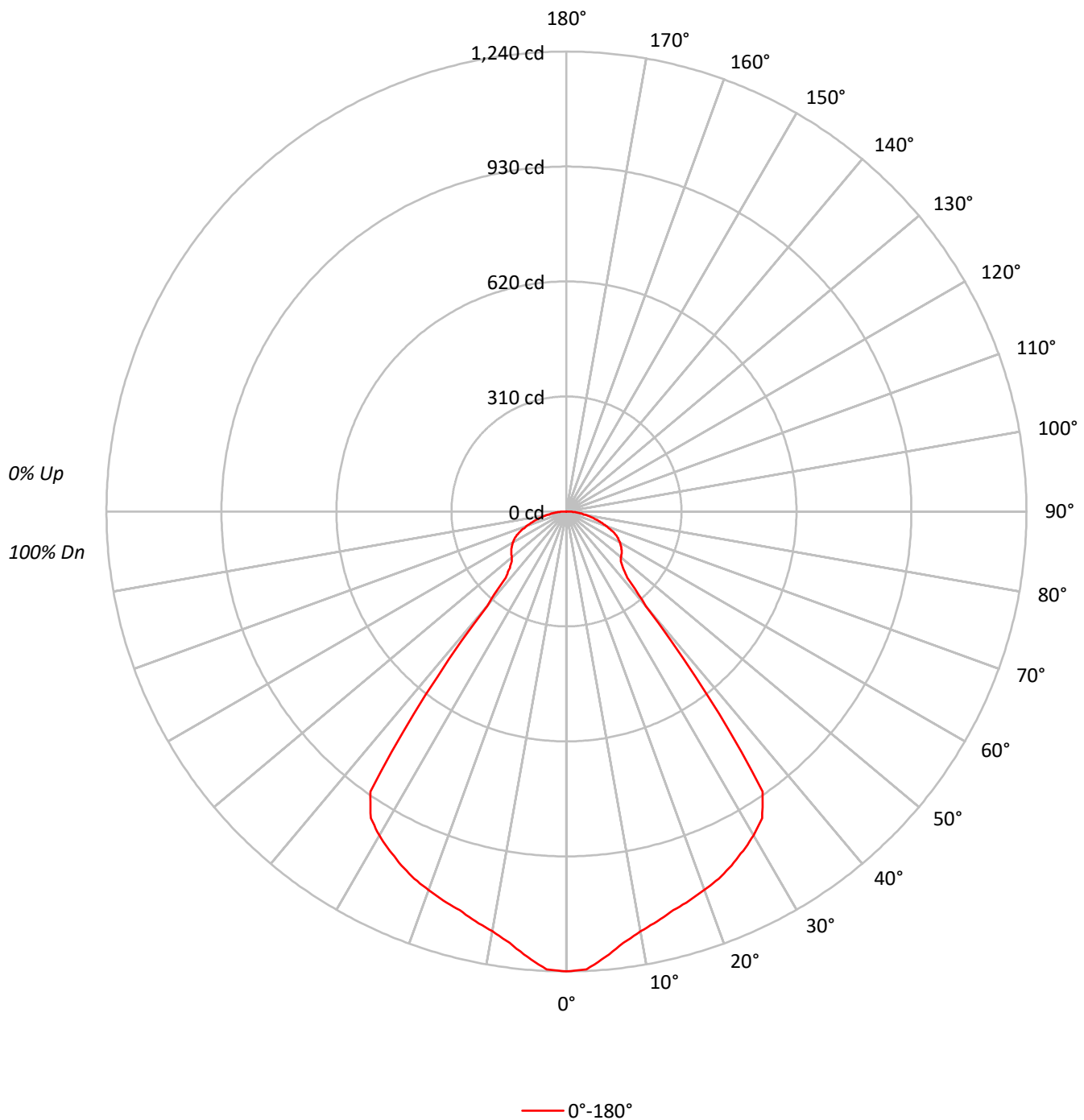
Lumens per Lamp: N/A
Luminaire Lumens: 2000.6 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.09
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

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	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	105	101	98		100	98	95		97	94	92		93	91	90
2	103	96	90	85		100	94	89	84		91	86	83		87	84	81		85	82	79
3	95	87	80	74		93	85	79	74		82	77	73		80	75	71		77	73	70
4	89	79	71	66		87	78	71	65		75	69	65		73	68	64		71	67	63
5	83	72	64	59		81	71	64	59		69	63	58		67	62	57		65	61	57
6	78	66	59	53		76	65	58	53		64	57	52		62	56	52		61	56	52
7	73	61	54	48		71	60	53	48		59	53	48		58	52	48		56	51	47
8	69	57	49	44		67	56	49	44		55	48	44		54	48	44		53	47	43
9	65	53	46	41		63	52	45	41		51	45	40		50	44	40		49	44	40
10	61	49	42	38		60	49	42	37		48	42	37		47	41	37		46	41	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	9559
5°	9334
10°	8998
15°	8882
20°	8913
25°	8954
30°	8982
35°	8672
40°	3348
45°	2353
50°	2305
55°	2438
60°	2566
65°	2643
70°	2554
75°	2413
80°	2260
85°	2096

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 65°
Luminance: 2643 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	5.7
10°-20°	315.4	15.8
20°-30°	485.4	24.3
30°-40°	493.7	24.7
40°-50°	176.9	8.8
50°-60°	161.8	8.1
60°-70°	141.3	7.1
70°-80°	86.0	4.3
80°-90°	27.0	1.4
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°	914.0	45.7
0°-40°	1407.7	70.4
0°-60°	1746.3	87.3
0°-90°	2000.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2000.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1240	
5°	1206	113
15°	1113	315
25°	1053	485
35°	922	494
45°	216	177
55°	181	162
65°	145	141
75°	81	86
85°	24	27
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1239.9
2.5°	1235.6
5°	1206.2
7.5°	1173.2
10°	1149.5
12.5°	1131.6
15°	1112.9
17.5°	1100.7
20°	1086.4
22.5°	1072.1
25°	1052.7
27.5°	1031.2
30°	1009.0
32.5°	981.0
35°	921.5
37.5°	623.9
40°	332.7
42.5°	242.4
45°	215.8
47.5°	199.4
50°	192.2
52.5°	187.2
55°	181.4
57.5°	174.3
60°	166.4
62.5°	157.0
65°	144.9
67.5°	129.1
70°	113.3
72.5°	96.8
75°	81.0
77.5°	66.0
80°	50.9
82.5°	37.3
85°	23.7
87.5°	12.9
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	13.56	14.88	13.92	15.19	15.51	13.56	14.88	13.92	15.19	15.51
	3H	15.71	16.90	16.09	17.23	17.59	15.71	16.90	16.09	17.23	17.59
	4H	16.49	17.61	16.90	17.96	18.34	16.49	17.61	16.90	17.96	18.34
	6H	17.08	18.11	17.50	18.48	18.87	17.08	18.11	17.50	18.48	18.87
	8H	17.29	18.26	17.72	18.65	19.05	17.29	18.26	17.72	18.65	19.05
	12H	17.43	18.36	17.86	18.74	19.17	17.43	18.36	17.86	18.74	19.17
4H	2H	14.30	15.41	14.71	15.77	16.15	14.30	15.41	14.71	15.77	16.15
	3H	16.62	17.55	17.03	17.95	18.35	16.62	17.55	17.03	17.95	18.35
	4H	17.52	18.35	17.95	18.77	19.21	17.52	18.35	17.95	18.77	19.21
	6H	18.23	18.96	18.69	19.40	19.87	18.23	18.96	18.69	19.40	19.87
	8H	18.48	19.16	18.95	19.60	20.07	18.48	19.16	18.95	19.60	20.07
	12H	18.67	19.27	19.15	19.75	20.22	18.67	19.27	19.15	19.75	20.22
8H	4H	17.84	18.52	18.31	18.96	19.43	17.84	18.52	18.31	18.96	19.43
	6H	18.69	19.25	19.19	19.74	20.22	18.69	19.25	19.19	19.74	20.22
	8H	19.03	19.53	19.55	20.04	20.53	19.03	19.53	19.55	20.04	20.53
	12H	19.32	19.75	19.83	20.24	20.81	19.32	19.75	19.83	20.24	20.81
12H	4H	17.87	18.47	18.35	18.95	19.42	17.87	18.47	18.35	18.95	19.42
	6H	18.76	19.25	19.28	19.77	20.26	18.76	19.25	19.28	19.77	20.26
	8H	19.16	19.59	19.68	20.09	20.66	19.16	19.59	19.68	20.09	20.66