

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: P980403

Luminaire Tested: PRLX-243-935-23L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-243-935-23L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 243 SHADE WITH FROSTED LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

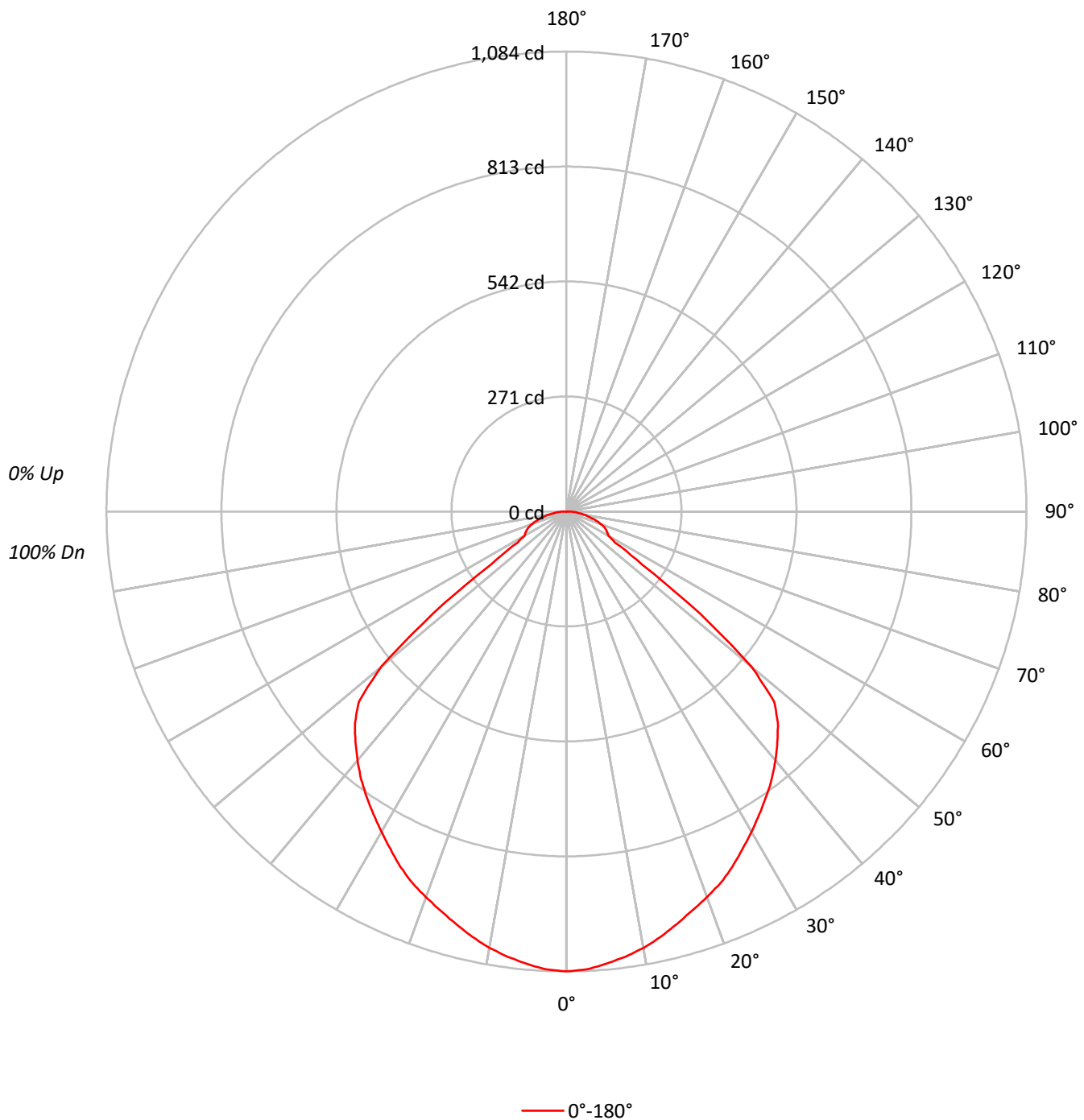
Lumens per Lamp: N/A
Luminaire Lumens: 2290.8 lumens
Efficiency: N/A
Efficacy: 152.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.36
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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	99		100	98	95		97	95	93		93	91	90
2	103	96	90	85		100	94	89	84		90	86	82		87	84	80		84	81	79
3	95	86	79	73		92	84	78	73		81	76	71		79	74	70		76	72	69
4	88	77	70	64		86	76	69	63		74	67	63		71	66	62		69	65	61
5	81	70	62	56		79	69	61	56		67	60	55		65	59	55		63	58	54
6	76	64	56	50		74	63	55	50		61	54	49		59	53	49		58	53	48
7	70	58	50	44		69	57	50	44		56	49	44		54	48	44		53	48	43
8	66	53	45	40		64	53	45	40		51	45	40		50	44	39		49	43	39
9	61	49	41	36		60	48	41	36		47	41	36		46	40	36		45	40	36
10	58	45	38	33		56	45	38	33		44	37	33		43	37	33		42	37	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5348
5°	5302
10°	5233
15°	5139
20°	5080
25°	5033
30°	4968
35°	4944
40°	4934
45°	4916
50°	4361
55°	1867
60°	1126
65°	1202
70°	1239
75°	1201
80°	1156
85°	1172

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4916 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.4	4.4
10°-20°	284.1	12.4
20°-30°	425.7	18.6
30°-40°	514.0	22.4
40°-50°	534.7	23.3
50°-60°	240.5	10.5
60°-70°	100.9	4.4
70°-80°	66.7	2.9
80°-90°	22.7	1.0
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°	811.2	35.4
0°-40°	1325.2	57.8
0°-60°	2100.4	91.7
0°-90°	2290.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2290.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1084	
5°	1070	101
15°	1006	284
25°	925	426
35°	821	514
45°	705	535
55°	217	241
65°	103	101
75°	63	67
85°	21	23
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1083.9
2.5°	1080.9
5°	1070.5
7.5°	1058.7
10°	1044.6
12.5°	1026.8
15°	1006.1
17.5°	986.1
20°	967.6
22.5°	948.3
25°	924.6
27.5°	897.9
30°	872.0
32.5°	846.1
35°	820.9
37.5°	794.9
40°	766.0
42.5°	735.7
45°	704.6
47.5°	663.8
50°	568.2
52.5°	397.1
55°	217.1
57.5°	135.6
60°	114.1
62.5°	108.9
65°	103.0
67.5°	95.6
70°	85.9
72.5°	74.8
75°	63.0
77.5°	51.9
80°	40.7
82.5°	30.4
85°	20.7
87.5°	11.9
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	9.57	11.02	9.93	11.33	11.65	9.57	11.02	9.93	11.33	11.65
	3H	11.66	12.95	12.04	13.28	13.64	11.66	12.95	12.04	13.28	13.64
	4H	12.49	13.69	12.89	14.04	14.42	12.49	13.69	12.89	14.04	14.42
	6H	13.14	14.24	13.55	14.61	15.00	13.14	14.24	13.55	14.61	15.00
	8H	13.37	14.42	13.80	14.81	15.21	13.37	14.42	13.80	14.81	15.21
	12H	13.55	14.56	13.98	14.94	15.37	13.55	14.56	13.98	14.94	15.37
4H	2H	10.23	11.43	10.63	11.78	12.16	10.23	11.43	10.63	11.78	12.16
	3H	12.57	13.56	12.99	13.96	14.36	12.57	13.56	12.99	13.96	14.36
	4H	13.54	14.42	13.97	14.83	15.27	13.54	14.42	13.97	14.83	15.27
	6H	14.32	15.08	14.78	15.53	15.99	14.32	15.08	14.78	15.53	15.99
	8H	14.60	15.32	15.07	15.76	16.23	14.60	15.32	15.07	15.76	16.23
	12H	14.84	15.48	15.32	15.96	16.43	14.84	15.48	15.32	15.96	16.43
8H	4H	13.89	14.60	14.35	15.05	15.52	13.89	14.60	14.35	15.05	15.52
	6H	14.81	15.40	15.31	15.90	16.38	14.81	15.40	15.31	15.90	16.38
	8H	15.19	15.72	15.70	16.24	16.73	15.19	15.72	15.70	16.24	16.73
	12H	15.52	16.00	16.03	16.50	17.06	15.52	16.00	16.03	16.50	17.06
12H	4H	13.93	14.56	14.41	15.04	15.52	13.93	14.56	14.41	15.04	15.52
	6H	14.88	15.42	15.40	15.93	16.42	14.88	15.42	15.40	15.93	16.42
	8H	15.33	15.81	15.84	16.30	16.87	15.33	15.81	15.84	16.30	16.87