

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: P980411

Luminaire Tested: PRLX-243-935-31L-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980411
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-243-935-31L-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 243 SHADE WITH CLEAR LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

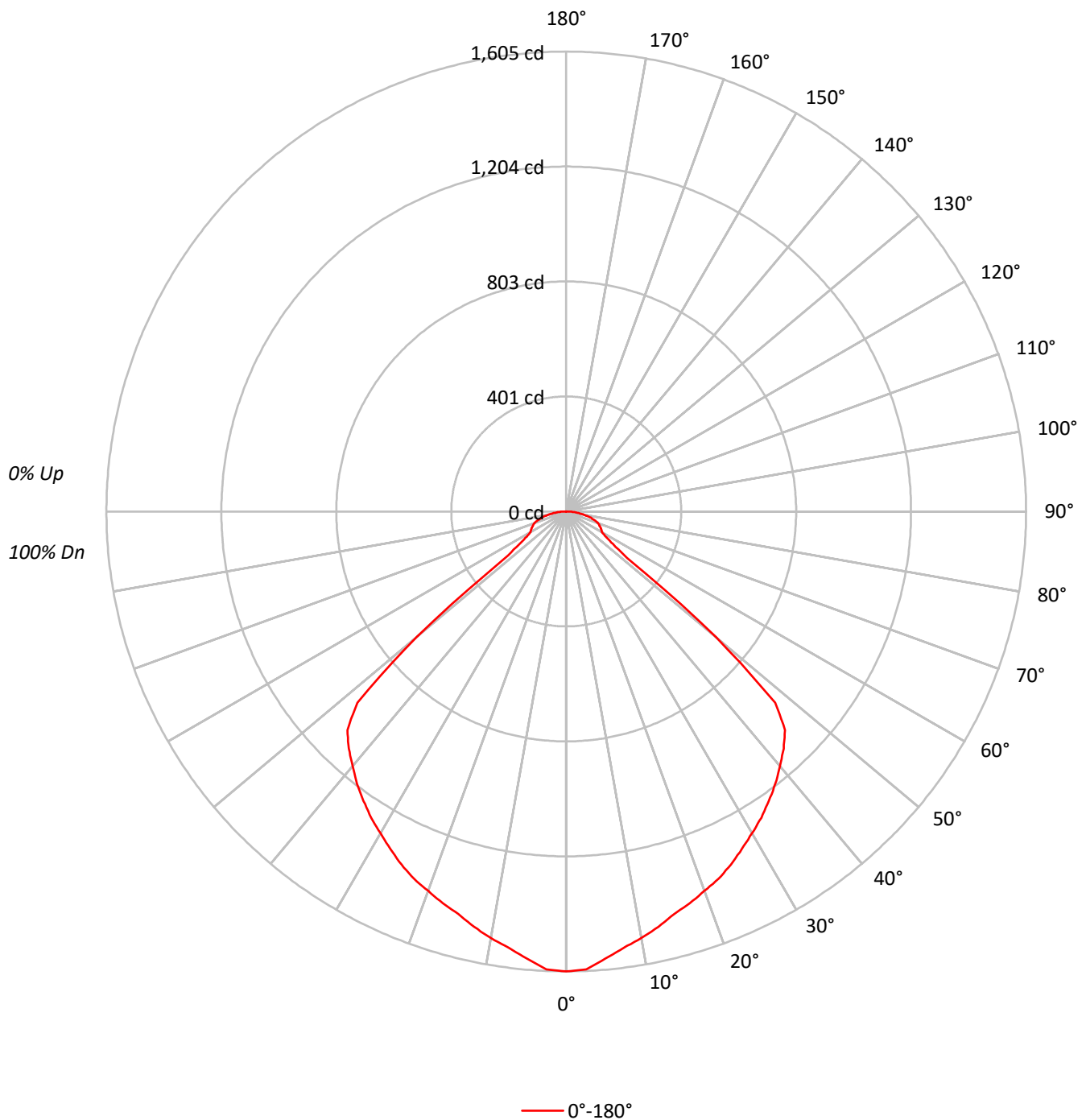
Lumens per Lamp: N/A
Luminaire Lumens: 3239.3 lumens
Efficiency: N/A
Efficacy: 157.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.38
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 20.6
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	104	100		108	105	102	99		101	98	96		97	95	93		93	92	90
2	103	96	91	86		100	94	89	85		91	87	83		88	84	81		85	82	79
3	95	87	80	74		93	85	79	74		82	77	72		80	75	71		77	73	70
4	88	78	71	65		86	77	70	65		75	68	64		72	67	63		70	66	62
5	82	71	63	57		80	70	63	57		68	61	56		66	60	56		64	59	55
6	76	65	57	51		75	64	56	51		62	55	50		60	55	50		59	54	50
7	71	59	51	46		70	58	51	46		57	50	45		56	49	45		54	49	45
8	67	54	47	41		65	54	46	41		52	46	41		51	45	41		50	45	40
9	62	50	43	37		61	49	42	37		48	42	37		47	41	37		46	41	37
10	59	46	39	34		57	46	39	34		45	38	34		44	38	34		43	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7919
5°	7761
10°	7575
15°	7432
20°	7398
25°	7404
30°	7389
35°	7426
40°	7471
45°	7536
50°	5235
55°	1703
60°	1421
65°	1541
70°	1688
75°	1754
80°	1676
85°	1698

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 7536 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.8	4.6
10°-20°	412.0	12.7
20°-30°	626.7	19.3
30°-40°	772.2	23.8
40°-50°	792.2	24.5
50°-60°	230.2	7.1
60°-70°	130.2	4.0
70°-80°	95.2	2.9
80°-90°	32.8	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°	1186.5	36.6
0°-40°	1958.7	60.5
0°-60°	2981.0	92.0
0°-90°	3239.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3239.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1605	
5°	1567	148
15°	1455	412
25°	1360	627
35°	1233	772
45°	1080	792
55°	198	230
65°	132	130
75°	92	95
85°	30	33
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1605
2.5°	1600
5°	1567
7.5°	1536
10°	1512
12.5°	1485
15°	1455
17.5°	1434
20°	1409
22.5°	1388
25°	1360
27.5°	1328
30°	1297
32.5°	1267
35°	1233
37.5°	1199
40°	1160
42.5°	1123
45°	1080
47.5°	989
50°	682
52.5°	268
55°	198
57.5°	163
60°	144
62.5°	138
65°	132
67.5°	125
70°	117
72.5°	106
75°	92
77.5°	75
80°	59
82.5°	44
85°	30
87.5°	17
90°	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	9.71	11.13	10.08	11.44	11.75	9.71	11.13	10.08	11.44	11.75
	3H	12.13	13.39	12.51	13.72	14.08	12.13	13.39	12.51	13.72	14.08
	4H	13.19	14.36	13.59	14.71	15.09	13.19	14.36	13.59	14.71	15.09
	6H	13.98	15.05	14.39	15.42	15.82	13.98	15.05	14.39	15.42	15.82
	8H	14.25	15.28	14.68	15.67	16.07	14.25	15.28	14.68	15.67	16.07
	12H	14.47	15.45	14.90	15.83	16.26	14.47	15.45	14.90	15.83	16.26
4H	2H	10.46	11.63	10.86	11.98	12.36	10.46	11.63	10.86	11.98	12.36
	3H	13.16	14.11	13.57	14.52	14.92	13.16	14.11	13.57	14.52	14.92
	4H	14.35	15.21	14.78	15.63	16.07	14.35	15.21	14.78	15.63	16.07
	6H	15.26	16.01	15.72	16.45	16.92	15.26	16.01	15.72	16.45	16.92
	8H	15.59	16.29	16.06	16.73	17.20	15.59	16.29	16.06	16.73	17.20
	12H	15.86	16.48	16.34	16.96	17.43	15.86	16.48	16.34	16.96	17.43
8H	4H	14.77	15.47	15.24	15.91	16.38	14.77	15.47	15.24	15.91	16.38
	6H	15.83	16.40	16.33	16.90	17.38	15.83	16.40	16.33	16.90	17.38
	8H	16.25	16.77	16.77	17.28	17.77	16.25	16.77	16.77	17.28	17.77
	12H	16.62	17.08	17.13	17.58	18.15	16.62	17.08	17.13	17.58	18.15
12H	4H	14.82	15.44	15.30	15.92	16.39	14.82	15.44	15.30	15.92	16.39
	6H	15.91	16.43	16.43	16.95	17.44	15.91	16.43	16.43	16.95	17.44
	8H	16.40	16.87	16.91	17.36	17.93	16.40	16.87	16.91	17.36	17.93