

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: P980423

Luminaire Tested: PRLX-243-935-43L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980423
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-243-935-43L-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

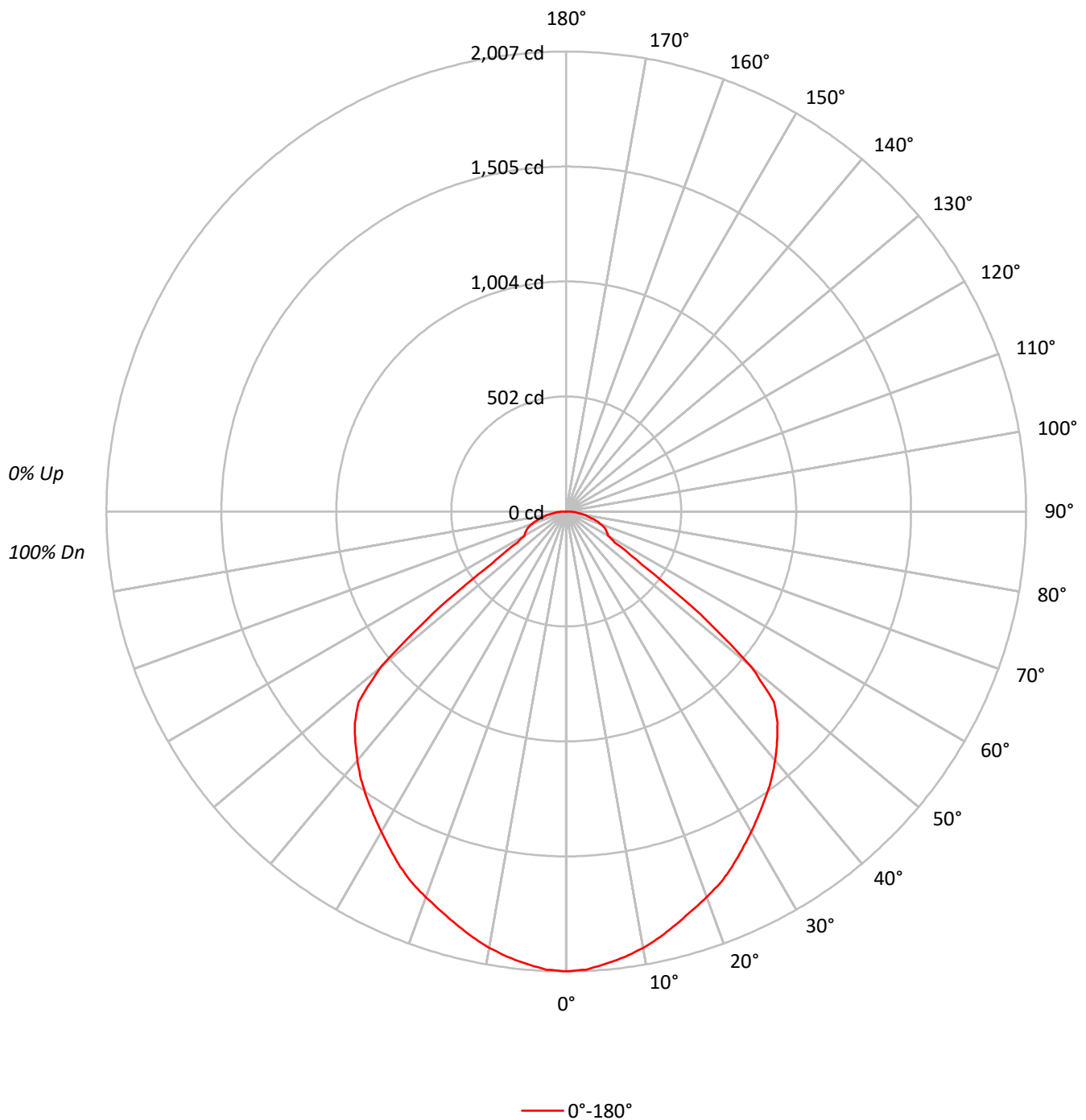
Lumens per Lamp: N/A
Luminaire Lumens: 4241.3 lumens
Efficiency: N/A
Efficacy: 143.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.36
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 29.5
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	105	101	99	100	98	95		97	95	93		93
2	103	96	90	85	100	94	89	84	90	86	82		87	84	80		84
3	95	86	79	73	92	84	78	73	81	76	71		79	74	70		76
4	88	77	70	64	86	76	69	63	74	67	63		71	66	62		69
5	81	70	62	56	79	69	61	56	67	60	55		65	59	55		63
6	76	64	56	50	74	63	55	50	61	54	49		59	53	49		58
7	70	58	50	44	69	57	50	44	56	49	44		54	48	44		53
8	66	53	45	40	64	53	45	40	51	45	40		50	44	39		49
9	61	49	41	36	60	48	41	36	47	41	36		46	40	36		45
10	58	45	38	33	56	45	38	33	44	37	33		43	37	33		42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	9901
5°	9817
10°	9690
15°	9515
20°	9406
25°	9319
30°	9198
35°	9154
40°	9135
45°	9102
50°	8076
55°	3457
60°	2084
65°	2226
70°	2295
75°	2223
80°	2142
85°	2174

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9102 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.7	4.4
10°-20°	526.0	12.4
20°-30°	788.3	18.6
30°-40°	951.6	22.4
40°-50°	989.9	23.3
50°-60°	445.3	10.5
60°-70°	186.9	4.4
70°-80°	123.5	2.9
80°-90°	42.0	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°	1502.0	35.4
0°-40°	2453.6	57.9
0°-60°	3888.9	91.7
0°-90°	4241.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4241.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2007	
5°	1982	188
15°	1863	526
25°	1712	788
35°	1520	952
45°	1304	990
55°	402	445
65°	191	187
75°	117	124
85°	38	42
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2006.8
2.5°	2001.3
5°	1982.1
7.5°	1960.2
10°	1934.1
12.5°	1901.2
15°	1862.8
17.5°	1825.7
20°	1791.4
22.5°	1755.8
25°	1711.9
27.5°	1662.5
30°	1614.5
32.5°	1566.5
35°	1519.8
37.5°	1471.8
40°	1418.3
42.5°	1362.1
45°	1304.5
47.5°	1229.0
50°	1052.1
52.5°	735.2
55°	401.9
57.5°	251.0
60°	211.2
62.5°	201.6
65°	190.7
67.5°	176.9
70°	159.1
72.5°	138.5
75°	116.6
77.5°	96.0
80°	75.4
82.5°	56.2
85°	38.4
87.5°	21.9
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	11.71	13.16	12.07	13.47	13.78	11.71	13.16	12.07	13.47	13.78
	3H	13.80	15.09	14.18	15.41	15.78	13.80	15.09	14.18	15.41	15.78
	4H	14.63	15.83	15.03	16.18	16.56	14.63	15.83	15.03	16.18	16.56
	6H	15.27	16.38	15.69	16.75	17.14	15.27	16.38	15.69	16.75	17.14
	8H	15.51	16.56	15.94	16.95	17.35	15.51	16.56	15.94	16.95	17.35
	12H	15.69	16.69	16.12	17.08	17.51	15.69	16.69	16.12	17.08	17.51
4H	2H	12.37	13.57	12.77	13.92	14.30	12.37	13.57	12.77	13.92	14.30
	3H	14.71	15.70	15.12	16.10	16.50	14.71	15.70	15.12	16.10	16.50
	4H	15.67	16.56	16.11	16.97	17.41	15.67	16.56	16.11	16.97	17.41
	6H	16.46	17.22	16.92	17.66	18.13	16.46	17.22	16.92	17.66	18.13
	8H	16.74	17.46	17.21	17.90	18.37	16.74	17.46	17.21	17.90	18.37
	12H	16.98	17.62	17.46	18.10	18.57	16.98	17.62	17.46	18.10	18.57
8H	4H	16.03	16.74	16.49	17.19	17.66	16.03	16.74	16.49	17.19	17.66
	6H	16.95	17.54	17.45	18.04	18.52	16.95	17.54	17.45	18.04	18.52
	8H	17.33	17.86	17.84	18.37	18.86	17.33	17.86	17.84	18.37	18.86
	12H	17.66	18.14	18.17	18.64	19.20	17.66	18.14	18.17	18.64	19.20
12H	4H	16.06	16.70	16.55	17.18	17.65	16.06	16.70	16.55	17.18	17.65
	6H	17.02	17.56	17.54	18.07	18.56	17.02	17.56	17.54	18.07	18.56
	8H	17.46	17.94	17.98	18.44	19.00	17.46	17.94	17.98	18.44	19.00