

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P1503549

Luminaire Tested: PRLX-SM4-01-LS-FS-D2W-XXXX-DIFF-VF (2700K-650LM)

Issue Date: 7/28/2026

Test Information

Test Method: LM-79-2024
Report Number: P1503549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2606-836-2)
Test Lab: INNOVATION CENTER
Issue Date: 7/28/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-SM4-01-LS-FS-D2W-XXXX-DIFF-VF (2700K-650LM)
Description: PrentaLux Fluxyn SM4 SURFACE MOUNT, ROUND, DIFFUSE LENS
LIGHT LEVEL 1 - 650 NOMINAL LUMENS
Light Source: SELECTABLE CCT - 2700K CCT, 90 CRI - DIM TO WARM (1800K)
Ballast/Driver: ELECTRONIC DRIVER

Summary

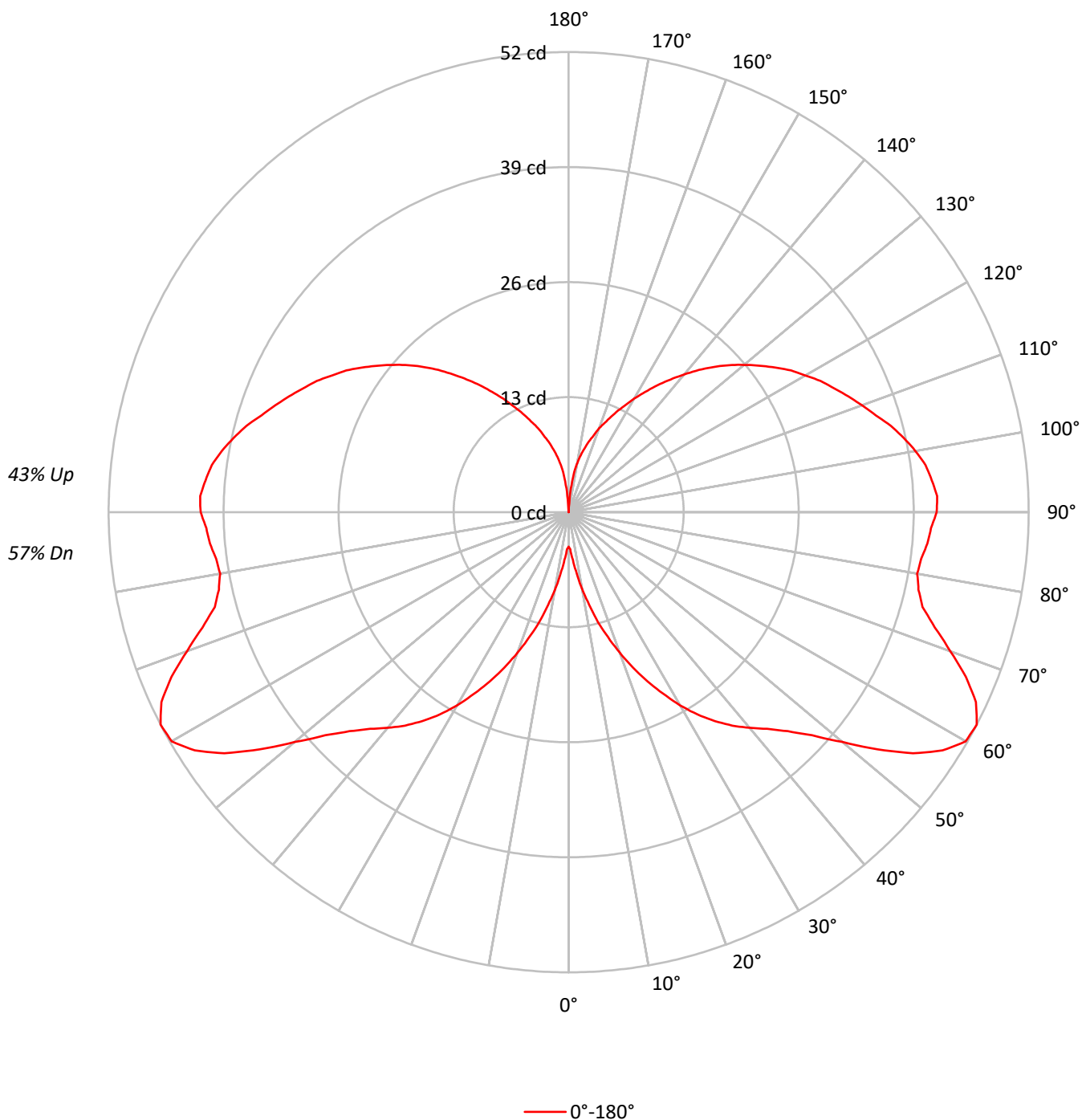
Lumens per Lamp: N/A
Luminaire Lumens: 421.2 lumens
Efficiency: N/A
Efficacy: 61.0 lumens/watt
Spacing Criteria (0/90/45): 5.39 / 5.39 / 4.78
Luminous Opening: Vertical Cylinder (Dia: 0.5' x H: 0.14')
CIE Type: General Diffuse

Input Watts (W): 6.9
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	0		
RCR																				
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	63	63	63	57		
1	94	87	81	75	86	80	75	70	68	64	60	57	54	51	47	44	42	37		
2	83	73	64	57	76	67	59	53	56	50	45	46	42	38	37	34	31	26		
3	74	62	52	44	68	57	48	41	47	41	35	39	34	29	31	27	23	19		
4	67	53	43	36	61	49	40	33	41	34	28	33	28	23	26	22	18	14		
5	61	46	36	29	55	43	34	27	36	28	23	29	23	19	23	18	15	11		
6	55	41	31	24	51	38	29	22	31	24	19	26	20	15	20	16	12	9		
7	51	36	27	21	46	34	25	19	28	21	16	23	17	13	18	14	10	7		
8	47	33	24	18	43	30	22	16	25	19	14	21	15	11	16	12	9	6		
9	44	30	21	15	40	27	19	14	23	16	12	19	13	10	15	11	7	5		
10	40	27	19	13	37	25	17	12	21	15	10	17	12	8	14	9	6	4		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	216
5°	291
10°	472
15°	677
20°	885
25°	1110
30°	1343
35°	1567
40°	1781
45°	2036
50°	2464
55°	3068
60°	3586
65°	3819
70°	3808
75°	3863
80°	4302
85°	5213

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 6648 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.6	0.1
10°-20°	3.8	0.9
20°-30°	9.9	2.3
30°-40°	18.1	4.3
40°-50°	27.5	6.5
50°-60°	42.2	10.0
60°-70°	49.7	11.8
70°-80°	44.5	10.6
80°-90°	44.4	10.5
90°-100°	44.8	10.6
100°-110°	39.8	9.5
110°-120°	32.9	7.8
120°-130°	25.6	6.1
130°-140°	18.0	4.3
140°-150°	11.1	2.6
150°-160°	5.8	1.4
160°-170°	2.3	0.5
170°-180°	0.3	0.1
0°-30°	14.2	3.4
0°-40°	32.4	7.7
0°-60°	102.1	24.2
0°-90°	240.6	57.1
90°-120°	117.5	27.9
90°-150°	172.2	40.9
90°-180°	181.0	43.0
0°-180°	421.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4	
5°	5	1
15°	13	4
25°	21	10
35°	29	18
45°	35	28
55°	48	42
65°	51	50
75°	41	44
85°	41	33
90°	42	23
95°	41	33
105°	38	40
115°	33	33
125°	28	26
135°	23	18
145°	18	11
155°	12	6
165°	8	2
175°	2	0
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3.9
2.5°	4.2
5°	5.4
7.5°	7.0
10°	8.9
12.5°	10.7
15°	12.9
17.5°	14.8
20°	16.9
22.5°	19.0
25°	21.1
27.5°	23.1
30°	25.2
32.5°	27.1
35°	28.8
37.5°	30.4
40°	31.8
42.5°	33.2
45°	35.0
47.5°	37.3
50°	40.4
52.5°	44.0
55°	47.5
57.5°	50.1
60°	51.8
62.5°	52.0
65°	50.8
67.5°	48.6
70°	45.9
72.5°	43.4
75°	41.4
77.5°	40.5
80°	40.0
82.5°	40.2
85°	40.7
87.5°	41.0
90°	41.6
92.5°	41.7
95°	41.2
97.5°	40.7
100°	39.8
102.5°	38.8
105°	37.7
107.5°	36.4
110°	35.3

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	34.2
115°	33.1
117.5°	32.1
120°	30.9
122.5°	29.8
125°	28.5
127.5°	27.2
130°	25.9
132.5°	24.6
135°	23.2
137.5°	21.8
140°	20.3
142.5°	18.9
145°	17.5
147.5°	16.1
150°	14.8
152.5°	13.5
155°	12.3
157.5°	11.1
160°	10.1
162.5°	8.9
165°	7.9
167.5°	6.8
170°	5.7
172.5°	4.3
175°	2.3
177.5°	0.1
180°	0.0

(END OF REPORT)