

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: P1503561

Luminaire Tested: PRLX-SM4-01-LS-FS-D2W-XXXX-DIFF-VF (5000K-650LM)

Issue Date: 7/28/2026

Test Information

Test Method: LM-79-2024
Report Number: P1503561
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 (5000K-650LM)
Description: PrentaLux Fluxyn SM4 SURFACE MOUNT, ROUND, DIFFUSE LENS
LIGHT LEVEL 1 - 650 NOMINAL LUMENS
Light Source: SELECTABLE CCT - 5000K CCT, 90 CRI - DIM TO WARM (1800K)
Ballast/Driver: ELECTRONIC DRIVER

Summary

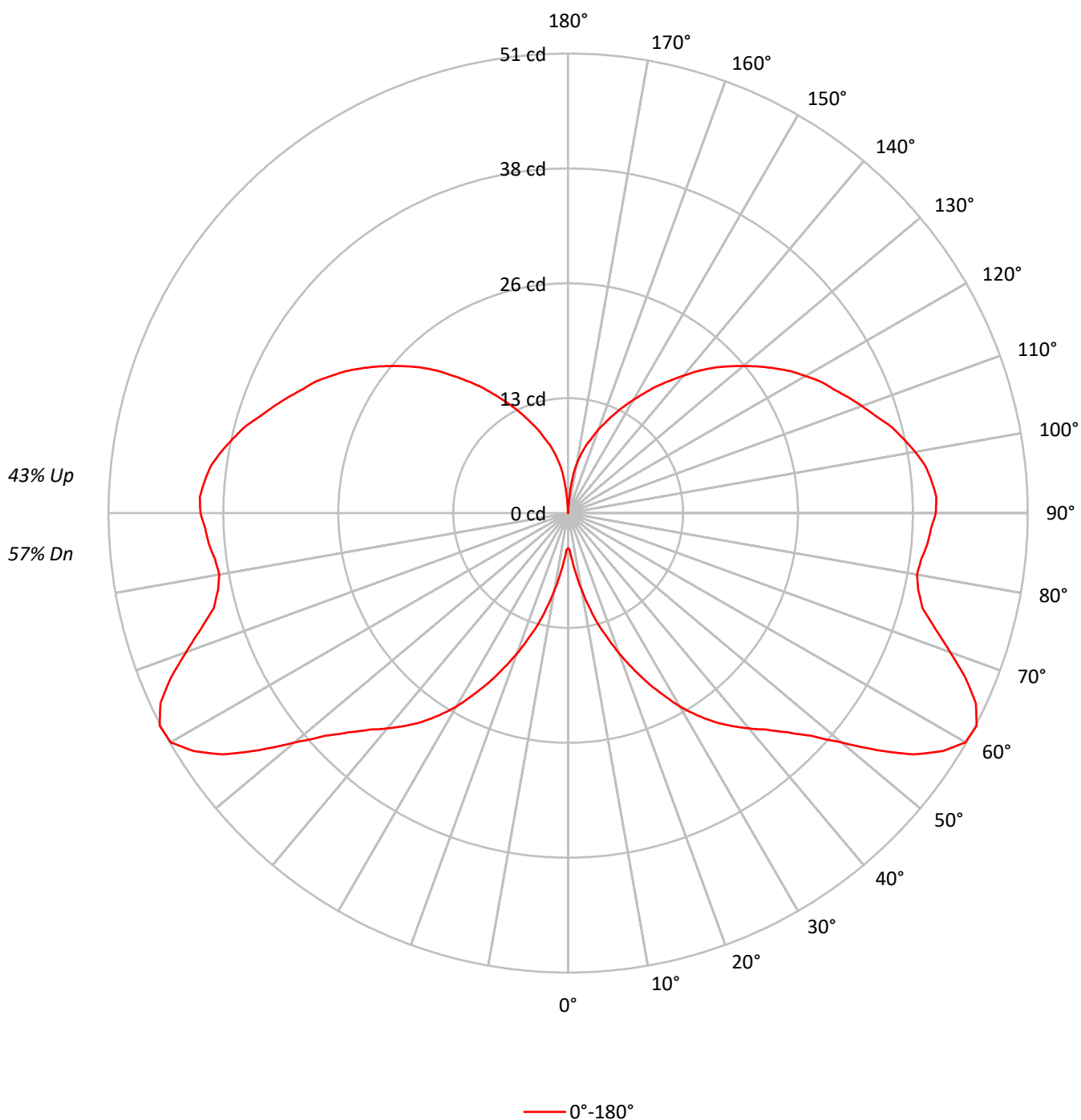
Lumens per Lamp: N/A
Luminaire Lumens: 413.7 lumens
Efficiency: N/A
Efficacy: 60.0 lumens/watt
Spacing Criteria (0/90/45): 5.36 / 5.36 / 4.75
Luminous Opening: Vertical Cylinder (Dia: 0.5' x H: 0.14')
CIE Type: General Diffuse

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°	286
10°	461
15°	666
20°	869
25°	1089
30°	1322
35°	1540
40°	1748
45°	2001
50°	2415
55°	3017
60°	3524
65°	3752
70°	3741
75°	3798
80°	4227
85°	5124

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 6520 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.6	0.1
10°-20°	3.7	0.9
20°-30°	9.7	2.3
30°-40°	17.8	4.3
40°-50°	27.0	6.5
50°-60°	41.4	10.0
60°-70°	48.8	11.8
70°-80°	43.7	10.6
80°-90°	43.6	10.5
90°-100°	44.0	10.6
100°-110°	39.1	9.5
110°-120°	32.3	7.8
120°-130°	25.1	6.1
130°-140°	17.7	4.3
140°-150°	10.9	2.6
150°-160°	5.7	1.4
160°-170°	2.3	0.5
170°-180°	0.3	0.1
0°-30°	14.0	3.4
0°-40°	31.8	7.7
0°-60°	100.2	24.2
0°-90°	236.3	57.1
90°-120°	115.5	27.9
90°-150°	169.2	40.9
90°-180°	177.0	42.8
0°-180°	413.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4	
5°	5	1
15°	13	4
25°	21	10
35°	28	18
45°	34	27
55°	47	41
65°	50	49
75°	41	44
85°	40	32
90°	41	22
95°	40	33
105°	37	39
115°	32	32
125°	28	25
135°	23	18
145°	17	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°	4.1
5°	5.3
7.5°	6.9
10°	8.7
12.5°	10.6
15°	12.7
17.5°	14.5
20°	16.6
22.5°	18.6
25°	20.7
27.5°	22.7
30°	24.8
32.5°	26.6
35°	28.3
37.5°	29.8
40°	31.2
42.5°	32.6
45°	34.4
47.5°	36.6
50°	39.6
52.5°	43.2
55°	46.7
57.5°	49.2
60°	50.9
62.5°	51.1
65°	49.9
67.5°	47.7
70°	45.1
72.5°	42.7
75°	40.7
77.5°	39.8
80°	39.3
82.5°	39.5
85°	40.0
87.5°	40.3
90°	40.8
92.5°	40.9
95°	40.5
97.5°	40.0
100°	39.1
102.5°	38.1
105°	37.1
107.5°	35.8
110°	34.7

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	33.6
115°	32.5
117.5°	31.6
120°	30.4
122.5°	29.3
125°	28.0
127.5°	26.7
130°	25.4
132.5°	24.1
135°	22.8
137.5°	21.4
140°	19.9
142.5°	18.5
145°	17.2
147.5°	15.8
150°	14.5
152.5°	13.3
155°	12.1
157.5°	10.9
160°	9.9
162.5°	8.7
165°	7.8
167.5°	6.7
170°	5.6
172.5°	4.2
175°	2.3
177.5°	0.1
180°	0.0

(END OF REPORT)