

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: P1503562

Luminaire Tested: PRLX-SM4-01-LS-FS-D2W-XXXX-DIFF-VF (5000K-800LM)

Issue Date: 7/28/2026

Test Information

Test Method: LM-79-2024
Report Number: P1503562
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-800LM)
Description: PrentaLux Fluxyn SM4 SURFACE MOUNT, ROUND, DIFFUSE LENS
LIGHT LEVEL 2 - 800 NOMINAL LUMENS
Light Source: SELECTABLE CCT - 5000K CCT, 90 CRI - DIM TO WARM (1800K)
Ballast/Driver: ELECTRONIC DRIVER

Summary

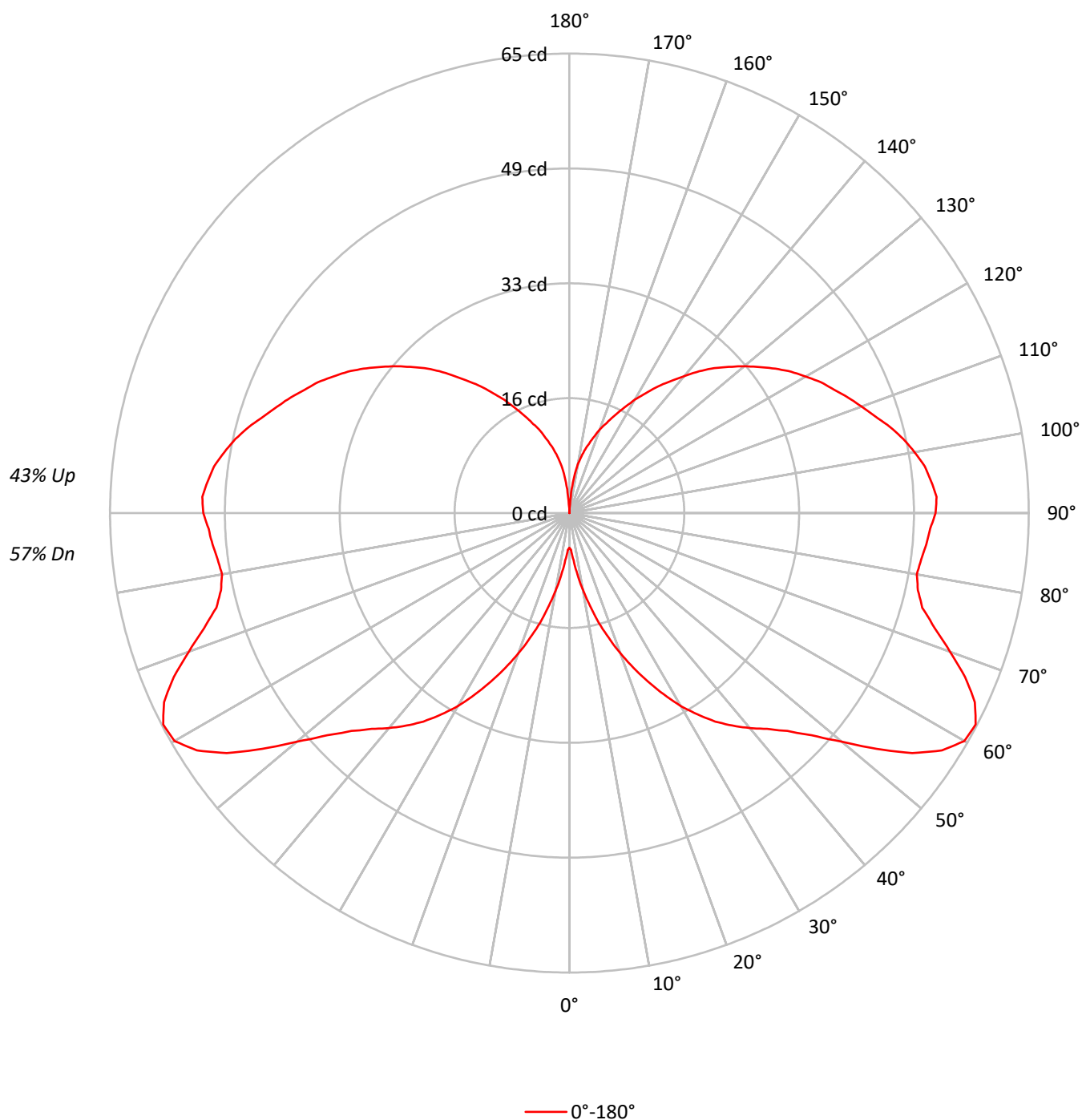
Lumens per Lamp: N/A
Luminaire Lumens: 525.2 lumens
Efficiency: N/A
Efficacy: 59.7 lumens/watt
Spacing Criteria (0/90/45): 5.38 / 5.38 / 4.76
Luminous Opening: Vertical Cylinder (Dia: 0.5' x H: 0.14')
CIE Type: General Diffuse

Input Watts (W): 8.8
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	41	27	19	13	37	25	17	12	21	15	10	17	12	8	14	9	6	4		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	271
5°	362
10°	588
15°	845
20°	1105
25°	1384
30°	1679
35°	1959
40°	2224
45°	2536
50°	3068
55°	3824
60°	4465
65°	4759
70°	4753
75°	4824
80°	5367
85°	6494

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 8278 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.8	0.1
10°-20°	4.7	0.9
20°-30°	12.3	2.3
30°-40°	22.6	4.3
40°-50°	34.3	6.5
50°-60°	52.6	10.0
60°-70°	61.9	11.8
70°-80°	55.5	10.6
80°-90°	55.3	10.5
90°-100°	55.9	10.6
100°-110°	49.6	9.5
110°-120°	41.1	7.8
120°-130°	31.9	6.1
130°-140°	22.5	4.3
140°-150°	13.8	2.6
150°-160°	7.2	1.4
160°-170°	2.9	0.5
170°-180°	0.4	0.1
0°-30°	17.8	3.4
0°-40°	40.4	7.7
0°-60°	127.3	24.2
0°-90°	300.0	57.1
90°-120°	146.6	27.9
90°-150°	214.8	40.9
90°-180°	225.0	42.8
0°-180°	525.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5	
5°	7	1
15°	16	5
25°	26	12
35°	36	23
45°	44	34
55°	59	53
65°	63	62
75°	52	56
85°	51	41
90°	52	28
95°	51	42
105°	47	50
115°	41	41
125°	36	32
135°	29	22
145°	22	14
155°	15	7
165°	10	3
175°	3	0
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	4.9
2.5°	5.2
5°	6.7
7.5°	8.8
10°	11.1
12.5°	13.4
15°	16.1
17.5°	18.5
20°	21.1
22.5°	23.7
25°	26.3
27.5°	28.9
30°	31.5
32.5°	33.8
35°	36.0
37.5°	37.9
40°	39.7
42.5°	41.4
45°	43.6
47.5°	46.5
50°	50.3
52.5°	54.8
55°	59.2
57.5°	62.5
60°	64.5
62.5°	64.8
65°	63.3
67.5°	60.6
70°	57.3
72.5°	54.2
75°	51.7
77.5°	50.5
80°	49.9
82.5°	50.2
85°	50.7
87.5°	51.1
90°	51.8
92.5°	52.0
95°	51.4
97.5°	50.7
100°	49.6
102.5°	48.4
105°	47.0
107.5°	45.4
110°	44.0

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	42.7
115°	41.3
117.5°	40.1
120°	38.6
122.5°	37.2
125°	35.6
127.5°	33.9
130°	32.3
132.5°	30.6
135°	29.0
137.5°	27.2
140°	25.3
142.5°	23.5
145°	21.9
147.5°	20.1
150°	18.5
152.5°	16.8
155°	15.3
157.5°	13.8
160°	12.6
162.5°	11.1
165°	9.8
167.5°	8.5
170°	7.1
172.5°	5.3
175°	2.9
177.5°	0.1
180°	0.0

(END OF REPORT)