

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: METALUX

Report Number: P566544

Luminaire Tested: **4SNX-51SL-LW-UNV-L840-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566544  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-51SL-LW-UNV-L840-CD  
Description: 4FT 5100 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

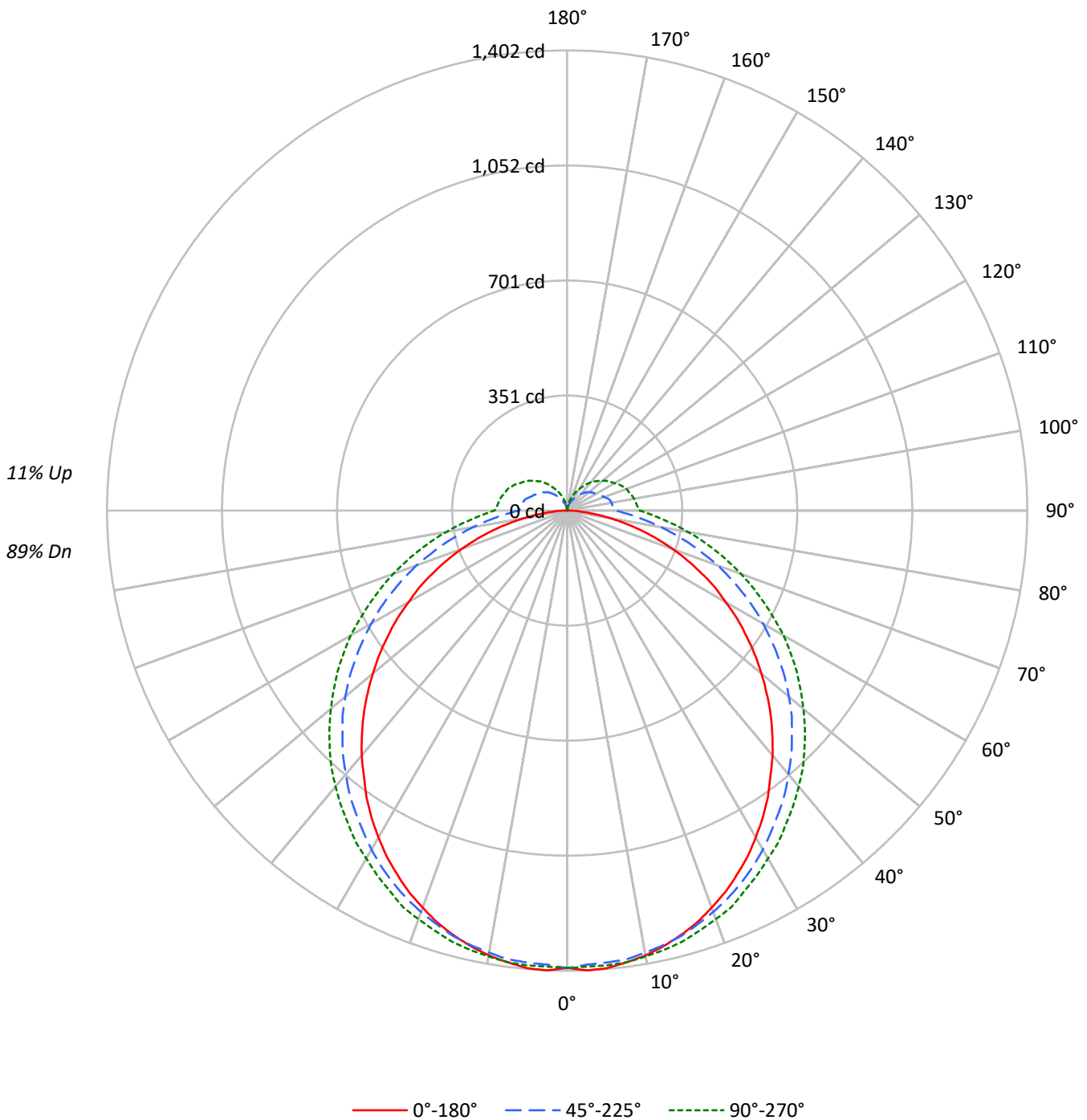
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4961.0 lumens  
Efficiency: N/A  
Efficacy: 141.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 35  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 25 FT

TEST NUMBER: P566544  
CATALOG NUMBER: 4SNX-51SL-LW-UNV-L840-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P566544

CATALOG NUMBER: 4SNX-51SL-LW-UNV-L840-CD

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	105	100	95	90	101	96	92	88	90	86	83	84	81	79	79	76	74	71
2	95	86	79	73	91	83	77	71	78	72	68	73	68	64	68	65	61	58
3	86	75	67	60	83	73	65	59	68	61	56	64	58	54	60	55	51	49
4	79	66	57	50	75	64	56	49	60	53	47	57	50	46	53	48	44	41
5	72	59	50	43	69	57	49	42	54	46	41	51	44	39	48	42	38	35
6	67	53	44	37	64	51	43	37	48	41	35	46	39	34	43	38	33	31
7	62	48	39	33	59	47	38	32	44	37	31	42	35	30	39	34	29	27
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22
10	50	37	29	24	48	36	28	23	34	27	23	32	26	22	31	25	21	20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	15001	15001	15001
5°	15065	14307	14198
10°	14933	13736	13489
15°	14757	13183	12850
20°	14524	12611	12210
25°	14260	12062	11584
30°	13949	11496	10985
35°	13610	10930	10425
40°	13225	10376	9890
45°	12807	9821	9343
50°	12330	9250	8768
55°	11807	8613	8204
60°	11192	7949	7607
65°	10547	7233	6928
70°	9655	6470	6259
75°	8480	5580	5550
80°	6628	4684	4843
85°	4325	3853	4116



TEST NUMBER: P566544

CATALOG NUMBER: 4SNX-51SL-LW-UNV-L840-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.4	2.7
10°-20°	380.5	7.7
20°-30°	578.5	11.7
30°-40°	702.2	14.2
40°-50°	742.1	15.0
50°-60°	694.4	14.0
60°-70°	569.7	11.5
70°-80°	391.9	7.9
80°-90°	214.6	4.3
90°-100°	138.2	2.8
100°-110°	124.0	2.5
110°-120°	102.6	2.1
120°-130°	79.0	1.6
130°-140°	55.5	1.1
140°-150°	33.5	0.7
150°-160°	16.0	0.3
160°-170°	5.3	0.1
170°-180°	0.6	0.0
0°-30°	1091.3	22.0
0°-40°	1793.6	36.2
0°-60°	3230.0	65.1
0°-90°	4406.2	88.8
90°-120°	364.8	7.4
90°-150°	532.9	10.7
90°-180°	555.0	11.2
0°-180°	4961.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1394	1394	1394	1394	1394	
5°	1399	1396	1382	1394	1391	133
15°	1339	1345	1342	1359	1359	378
25°	1224	1238	1253	1279	1279	564
35°	1066	1092	1124	1155	1164	666
45°	876	917	968	1011	1023	675
55°	667	721	787	836	853	597
65°	451	511	589	644	661	447
75°	236	299	385	445	466	248
85°	52	124	210	267	287	60
90°	0	69	146	201	221	4
95°	0	66	141	192	213	0
105°	0	55	132	181	198	2
115°	3	49	112	161	181	3
125°	3	40	95	138	155	3
135°	3	32	78	112	126	2
145°	3	23	55	86	95	2
155°	3	14	34	55	63	1
165°	3	9	17	26	32	1
175°	3	3	6	6	3	0
180°	3	3	3	3	3	



TEST NUMBER: P566544

CATALOG NUMBER: 4SNX-51SL-LW-UNV-L840-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1393.6	1393.6	1393.6	1393.6	1393.6
2.5°	1402.2	1399.3	1384.9	1396.4	1390.7
5°	1399.3	1396.4	1382.1	1393.6	1390.7
7.5°	1387.8	1387.8	1379.2	1390.7	1387.8
10°	1376.3	1376.3	1367.7	1382.1	1379.2
12.5°	1359.1	1362.0	1356.2	1373.4	1370.6
15°	1339.0	1344.7	1341.8	1359.1	1359.1
17.5°	1316.0	1321.7	1321.7	1341.8	1341.8
20°	1287.2	1295.9	1301.6	1324.6	1324.6
22.5°	1258.5	1270.0	1278.6	1298.7	1307.4
25°	1224.0	1238.4	1252.8	1278.6	1278.6
27.5°	1189.6	1206.8	1224.0	1249.9	1252.8
30°	1149.3	1169.4	1192.4	1218.3	1224.0
32.5°	1109.1	1135.0	1157.9	1189.6	1198.2
35°	1066.0	1091.9	1123.5	1155.1	1163.7
37.5°	1017.2	1048.8	1089.0	1123.5	1132.1
40°	974.1	1008.5	1048.8	1089.0	1097.6
42.5°	925.2	962.6	1011.4	1048.8	1063.1
45°	876.4	916.6	968.3	1011.4	1022.9
47.5°	824.6	870.6	928.1	968.3	982.7
50°	772.9	821.8	882.1	928.1	939.6
52.5°	721.2	772.9	836.1	882.1	896.5
55°	666.6	721.2	787.3	836.1	853.4
57.5°	614.9	669.5	738.4	790.2	807.4
60°	557.4	620.6	689.6	741.3	761.4
62.5°	508.6	566.0	640.7	692.5	709.7
65°	451.1	511.4	589.0	643.6	660.9
67.5°	396.5	459.7	537.3	594.8	612.0
70°	341.9	405.1	488.5	543.1	563.2
72.5°	287.3	353.4	433.9	494.2	514.3
75°	235.6	298.8	385.0	445.4	465.5
77.5°	181.0	250.0	336.2	396.5	419.5
80°	132.2	204.0	290.2	350.5	373.5
82.5°	89.1	160.9	247.1	307.4	330.4
85°	51.7	123.6	209.8	267.2	287.3
87.5°	25.9	94.8	175.3	232.7	252.9
90°	0.0	69.0	146.5	201.1	221.2
92.5°	0.0	66.1	143.7	195.4	215.5
95°	0.0	66.1	140.8	192.5	212.6
97.5°	0.0	63.2	137.9	192.5	209.8
100°	0.0	60.3	137.9	189.6	206.9
102.5°	0.0	57.5	135.0	186.8	204.0
105°	0.0	54.6	132.2	181.0	198.3
107.5°	2.9	54.6	126.4	178.1	195.4
110°	2.9	51.7	120.7	175.3	192.5



TEST NUMBER: P566544

CATALOG NUMBER: 4SNX-51SL-LW-UNV-L840-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.9	48.8	114.9	169.5	186.8
115°	2.9	48.8	112.1	160.9	181.0
117.5°	2.9	46.0	106.3	155.2	175.3
120°	2.9	46.0	103.4	149.4	166.7
122.5°	2.9	43.1	97.7	143.7	160.9
125°	2.9	40.2	94.8	137.9	155.2
127.5°	2.9	37.4	91.9	132.2	149.4
130°	2.9	34.5	86.2	126.4	140.8
132.5°	2.9	34.5	83.3	117.8	135.0
135°	2.9	31.6	77.6	112.1	126.4
137.5°	2.9	28.7	71.8	106.3	120.7
140°	2.9	25.9	66.1	100.6	112.1
142.5°	2.9	25.9	60.3	91.9	103.4
145°	2.9	23.0	54.6	86.2	94.8
147.5°	2.9	20.1	48.8	77.6	86.2
150°	2.9	20.1	43.1	69.0	77.6
152.5°	2.9	17.2	37.4	63.2	71.8
155°	2.9	14.4	34.5	54.6	63.2
157.5°	2.9	14.4	28.7	46.0	54.6
160°	2.9	11.5	25.9	37.4	46.0
162.5°	2.9	11.5	23.0	31.6	40.2
165°	2.9	8.6	17.2	25.9	31.6
167.5°	2.9	8.6	14.4	20.1	25.9
170°	2.9	5.7	11.5	14.4	20.1
172.5°	2.9	5.7	8.6	8.6	8.6
175°	2.9	2.9	5.7	5.7	2.9
177.5°	2.9	2.9	2.9	2.9	2.9
180°	2.9	2.9	2.9	2.9	2.9

(END OF REPORT)