

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: P566536

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566536
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-51SL-LN-UNV-L840-CD
Description: 4FT 5100 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

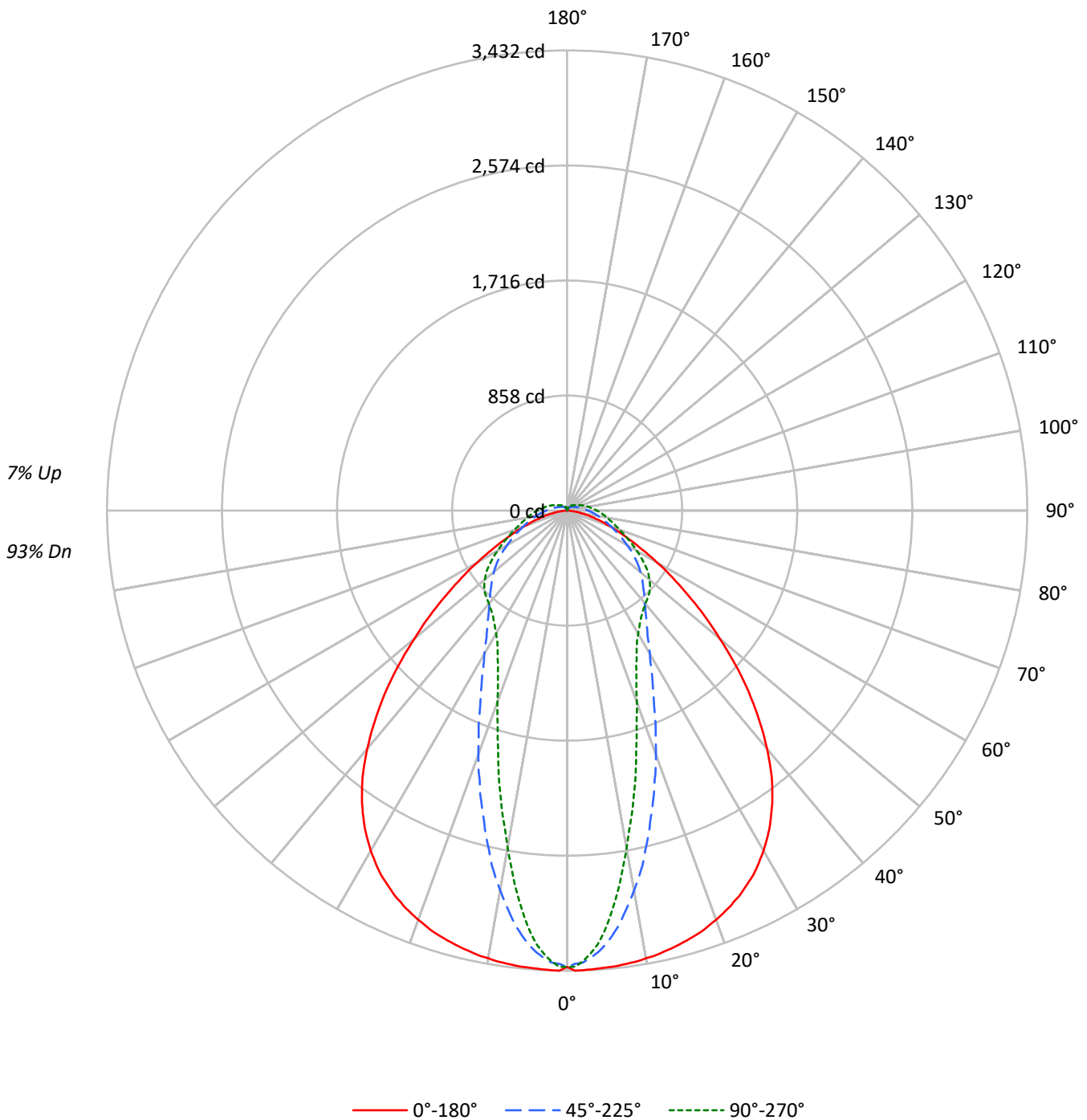
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5426.0 lumens
Efficiency: N/A
Efficacy: 155.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 0.56 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 35
Input Voltage (V): NR
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: 25 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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	107	103	99	95	104	100	96	93	94	91	88	89	87	85	85	83	81	78
2	99	91	84	79	95	88	82	77	84	79	75	79	75	72	76	72	69	67
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58
4	84	73	64	58	81	71	63	57	67	61	56	64	59	54	62	57	53	51
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45
6	72	60	51	45	70	59	51	45	56	49	44	54	48	43	52	46	42	40
7	67	55	47	41	65	54	46	41	52	45	40	50	44	39	48	42	38	36
8	63	51	43	37	61	50	42	37	48	41	36	46	40	36	44	39	35	33
9	59	47	39	34	58	46	39	34	44	38	33	43	37	33	41	36	32	30
10	56	44	36	31	54	43	36	31	41	35	31	40	34	30	39	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	36639	36639	36639
5°	36830	33675	32226
10°	36779	28874	25003
15°	36760	23553	18739
20°	36643	18763	14024
25°	36310	14703	11130
30°	35550	11899	9494
35°	34057	10070	8636
40°	31503	8890	8174
45°	28008	8133	7921
50°	23726	7485	7483
55°	19492	6782	6834
60°	15587	5967	5995
65°	12102	5238	5216
70°	9395	4633	4615
75°	7267	4163	4204
80°	5134	3809	3908
85°	2853	3552	3748



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.4	5.6
10°-20°	706.6	13.0
20°-30°	838.7	15.5
30°-40°	843.8	15.6
40°-50°	784.4	14.5
50°-60°	645.9	11.9
60°-70°	455.1	8.4
70°-80°	297.3	5.5
80°-90°	189.8	3.5
90°-100°	124.5	2.3
100°-110°	84.5	1.6
110°-120°	57.9	1.1
120°-130°	40.1	0.7
130°-140°	27.0	0.5
140°-150°	16.6	0.3
150°-160°	8.6	0.2
160°-170°	3.1	0.1
170°-180°	0.5	0.0
0°-30°	1846.7	34.0
0°-40°	2690.6	49.6
0°-60°	4120.8	75.9
0°-90°	5063.1	93.3
90°-120°	266.9	4.9
90°-150°	350.6	6.5
90°-180°	363.0	6.7
0°-180°	5426.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3404	3404	3404	3404	3404	
5°	3421	3376	3253	3191	3156	326
15°	3336	2980	2397	2096	1982	942
25°	3117	2303	1527	1282	1228	1434
35°	2667	1558	1035	970	964	1659
45°	1917	1027	802	845	867	1471
55°	1100	674	620	688	711	994
65°	518	407	427	481	498	525
75°	202	210	287	338	353	218
85°	34	97	193	250	262	43
90°	0	65	156	213	222	2
95°	0	48	131	179	188	0
105°	0	34	88	125	136	0
115°	3	28	63	91	97	2
125°	3	23	51	65	71	3
135°	3	20	40	51	54	2
145°	3	14	28	40	43	2
155°	3	11	20	28	31	1
165°	3	6	11	14	17	1
175°	6	6	6	6	3	0
180°	3	3	3	3	3	



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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3403.9	3403.9	3403.9	3403.9	3403.9
1°	3432.3	3418.1	3381.1	3406.7	3401.0
2°	3429.5	3415.3	3372.6	3384.0	3364.1
3°	3426.6	3406.7	3341.3	3338.5	3310.1
4°	3423.8	3392.5	3301.5	3267.4	3244.6
5°	3421.0	3375.5	3253.2	3190.6	3156.5
6°	3418.1	3355.5	3190.6	3096.8	3048.4
7°	3412.4	3324.3	3125.2	2997.2	2934.7
8°	3406.7	3295.8	3042.7	2889.2	2812.4
9°	3401.0	3258.9	2960.3	2772.6	2681.6
10°	3389.7	3221.9	2875.0	2653.2	2556.5
11°	3384.0	3179.2	2792.5	2539.4	2425.7
12°	3372.6	3133.7	2704.3	2420.0	2320.4
13°	3361.2	3085.4	2596.3	2317.6	2198.2
14°	3349.9	3034.2	2502.4	2203.9	2093.0
15°	3335.6	2980.2	2397.2	2095.8	1982.0
16°	3321.4	2917.6	2303.4	1984.9	1865.5
17°	3307.2	2857.9	2215.2	1882.5	1774.5
18°	3290.1	2798.2	2112.9	1783.0	1677.8
19°	3267.4	2729.9	2030.4	1692.0	1595.3
20°	3247.5	2667.4	1936.6	1606.7	1521.4
21°	3224.7	2590.6	1842.7	1527.1	1441.7
22.5°	3190.6	2482.5	1723.3	1427.5	1347.9
23°	3173.6	2451.3	1674.9	1390.6	1322.3
24°	3150.8	2368.8	1595.3	1333.7	1265.4
25°	3116.7	2303.4	1527.1	1282.5	1228.5
26°	3085.4	2223.8	1458.8	1237.0	1183.0
27°	3054.1	2147.0	1399.1	1188.7	1143.2
28°	3014.3	2067.4	1333.7	1148.8	1109.0
29°	2971.7	1993.4	1279.7	1114.7	1083.4
30°	2929.0	1911.0	1234.2	1083.4	1057.9
32.5°	2809.6	1729.0	1117.6	1023.7	1006.7
35°	2667.4	1558.3	1035.1	969.7	964.0
37.5°	2508.1	1401.9	961.2	927.0	932.7
40°	2320.4	1259.8	898.6	895.8	907.1
42.5°	2121.4	1137.5	850.3	870.2	887.2
45°	1916.6	1026.6	801.9	844.6	867.3
47.5°	1703.4	929.9	759.3	813.3	838.9
50°	1487.2	836.0	713.8	776.3	801.9
52.5°	1293.9	753.6	668.3	733.7	762.1
55°	1100.5	674.0	619.9	688.2	710.9
57.5°	932.7	600.0	568.7	637.0	654.0
60°	776.3	528.9	517.6	580.1	600.0
62.5°	634.1	466.4	469.2	528.9	548.8
65°	517.6	406.6	426.6	480.6	497.6



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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	420.9	349.8	383.9	440.8	455.0
70°	332.7	298.6	349.8	401.0	415.2
72.5°	264.5	253.1	315.6	369.7	381.1
75°	201.9	210.4	287.2	338.4	352.6
77.5°	145.0	176.3	258.8	312.8	324.2
80°	102.4	145.0	236.0	290.1	301.4
82.5°	65.4	119.4	213.3	270.2	281.5
85°	34.1	96.7	193.4	250.2	261.6
87.5°	14.2	79.6	173.5	230.3	241.7
90°	0.0	65.4	156.4	213.3	221.8
92.5°	0.0	56.9	142.2	196.2	204.7
95°	0.0	48.3	130.8	179.2	187.7
97.5°	0.0	45.5	116.6	164.9	173.5
100°	0.0	39.8	105.2	150.7	162.1
102.5°	0.0	37.0	96.7	136.5	147.9
105°	0.0	34.1	88.2	125.1	136.5
107.5°	0.0	31.3	82.5	116.6	125.1
110°	0.0	31.3	73.9	108.1	116.6
112.5°	2.8	28.4	68.2	96.7	105.2
115°	2.8	28.4	62.6	91.0	96.7
117.5°	2.8	28.4	59.7	82.5	88.2
120°	2.8	25.6	56.9	76.8	82.5
122.5°	2.8	25.6	54.0	71.1	73.9
125°	2.8	22.7	51.2	65.4	71.1
127.5°	2.8	22.7	48.3	62.6	65.4
130°	2.8	22.7	45.5	56.9	62.6
132.5°	2.8	19.9	42.7	54.0	56.9
135°	2.8	19.9	39.8	51.2	54.0
137.5°	2.8	17.1	37.0	48.3	51.2
140°	2.8	17.1	34.1	45.5	48.3
142.5°	2.8	14.2	31.3	42.7	45.5
145°	2.8	14.2	28.4	39.8	42.7
147.5°	2.8	14.2	25.6	37.0	39.8
150°	2.8	11.4	22.7	34.1	37.0
152.5°	2.8	11.4	19.9	31.3	34.1
155°	2.8	11.4	19.9	28.4	31.3
157.5°	2.8	8.5	17.1	22.7	28.4
160°	2.8	8.5	14.2	19.9	25.6
162.5°	2.8	8.5	14.2	17.1	19.9
165°	2.8	5.7	11.4	14.2	17.1
167.5°	2.8	5.7	8.5	11.4	14.2
170°	2.8	5.7	8.5	8.5	11.4
172.5°	2.8	5.7	5.7	5.7	5.7
175°	5.7	5.7	5.7	5.7	2.8
177.5°	5.7	5.7	5.7	2.8	2.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	2.8	2.8	2.8	2.8	2.8

(END OF REPORT)