

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: P566520

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-15)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-51SL-FDL-UNV-L840-CD
Description: 4FT 5100 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

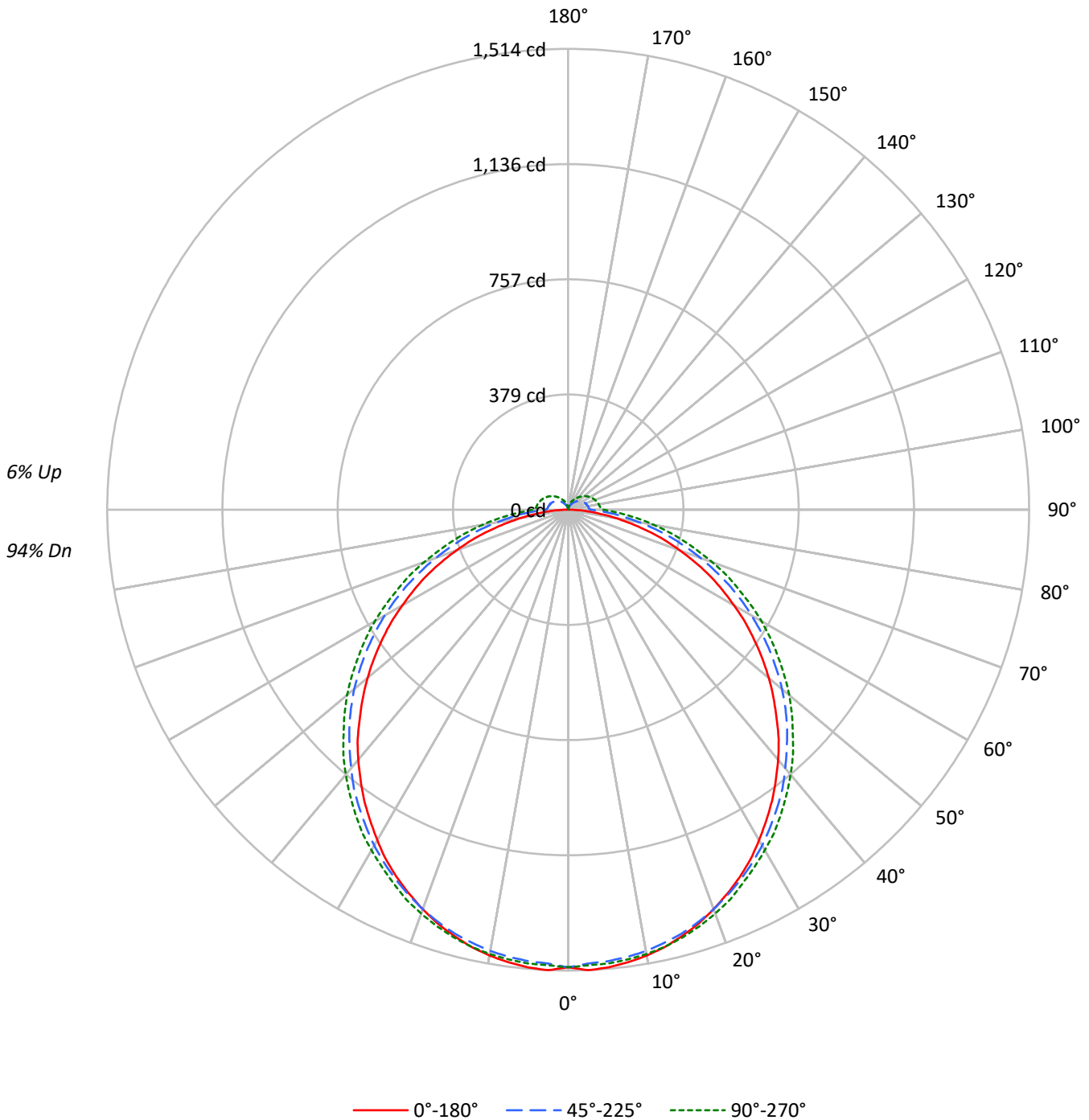
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4777.0 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.28 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Direct

Input Watts (W): 35
Input Voltage (V): NR
Input Current (A_{in}): 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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	97	93	103	99	95	91	93	90	87	88	86	83	84	82	80	77
2	97	88	81	75	93	86	79	74	81	76	71	77	73	69	73	69	66	64
3	88	77	69	62	85	75	67	61	71	65	59	68	62	57	64	60	56	53
4	80	68	59	52	78	66	58	52	63	56	50	60	54	49	57	52	48	45
5	74	61	52	45	71	59	51	44	56	49	43	54	47	42	51	46	41	39
6	68	55	46	39	66	53	45	39	51	43	38	49	42	37	47	41	36	34
7	63	49	41	34	61	48	40	34	46	39	33	44	38	33	43	37	32	30
8	59	45	36	31	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	27	53	40	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	33	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16180	16180	16180
5°	16292	15913	15937
10°	16225	15740	15737
15°	16103	15542	15512
20°	15937	15300	15248
25°	15748	15037	14935
30°	15489	14767	14645
35°	15229	14451	14344
40°	14941	14101	14005
45°	14580	13756	13609
50°	14230	13362	13248
55°	13796	12874	12747
60°	13309	12316	12252
65°	12793	11651	11571
70°	11905	10816	10865
75°	10837	9829	10020
80°	9259	8525	9085
85°	7284	7391	7984



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.6	3.0
10°-20°	409.1	8.6
20°-30°	620.0	13.0
30°-40°	748.4	15.7
40°-50°	781.5	16.4
50°-60°	718.0	15.0
60°-70°	567.8	11.9
70°-80°	359.3	7.5
80°-90°	154.4	3.2
90°-100°	68.0	1.4
100°-110°	60.8	1.3
110°-120°	51.4	1.1
120°-130°	40.1	0.8
130°-140°	27.7	0.6
140°-150°	16.6	0.3
150°-160°	8.1	0.2
160°-170°	2.8	0.1
170°-180°	0.4	0.0
0°-30°	1171.6	24.5
0°-40°	1920.0	40.2
0°-60°	3419.5	71.6
0°-90°	4501.0	94.2
90°-120°	180.2	3.8
90°-150°	264.6	5.5
90°-180°	276.0	5.8
0°-180°	4777.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1503	1503	1503	1503	1503	
5°	1509	1505	1489	1502	1496	143
15°	1449	1449	1442	1457	1454	409
25°	1332	1338	1340	1358	1355	614
35°	1167	1181	1196	1215	1219	730
45°	968	991	1017	1036	1043	747
55°	746	777	809	835	841	668
65°	514	542	580	607	617	506
75°	271	303	347	376	391	287
85°	66	102	146	177	188	73
90°	4	36	74	104	115	6
95°	1	31	68	95	105	1
105°	1	29	63	89	98	1
115°	1	24	58	80	89	1
125°	2	22	48	69	77	2
135°	2	17	39	55	62	1
145°	2	13	27	42	46	1
155°	2	8	18	26	31	1
165°	2	6	9	13	18	1
175°	2	3	4	4	2	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1503.2	1503.2	1503.2	1503.2	1503.2
2.5°	1514.2	1509.2	1492.2	1504.1	1498.2
5°	1509.2	1504.9	1488.9	1501.5	1496.5
7.5°	1499.8	1496.5	1482.1	1495.6	1490.5
10°	1487.2	1484.6	1471.9	1485.5	1482.1
12.5°	1471.1	1470.2	1457.6	1472.8	1470.2
15°	1449.1	1449.1	1441.5	1456.7	1454.2
17.5°	1425.4	1426.3	1420.3	1436.4	1434.7
20°	1396.6	1400.9	1396.6	1413.6	1411.9
22.5°	1365.3	1371.3	1369.6	1386.5	1387.3
25°	1332.4	1338.3	1340.0	1357.7	1355.2
27.5°	1296.0	1305.3	1308.7	1324.7	1323.9
30°	1253.7	1266.4	1274.0	1287.5	1291.7
32.5°	1210.5	1225.8	1235.1	1253.7	1258.8
35°	1167.4	1180.9	1196.2	1214.8	1219.0
37.5°	1120.0	1135.2	1155.6	1173.3	1178.4
40°	1072.6	1089.6	1109.0	1128.5	1136.1
42.5°	1023.6	1041.3	1062.5	1085.3	1093.0
45°	967.8	991.4	1016.8	1036.3	1043.0
47.5°	914.5	940.7	967.8	988.9	996.5
50°	860.3	888.2	917.0	936.5	948.3
52.5°	803.6	834.1	862.9	887.4	895.0
55°	746.1	776.6	808.7	834.9	840.9
57.5°	690.3	719.9	752.0	776.6	788.4
60°	629.4	661.5	696.2	720.7	733.4
62.5°	570.2	601.5	638.7	664.9	675.1
65°	513.5	542.2	580.3	607.4	616.7
67.5°	450.9	483.9	520.3	551.6	563.4
70°	389.1	420.4	461.9	491.5	503.3
72.5°	331.6	362.1	403.5	433.1	444.1
75°	270.7	302.8	346.8	376.4	390.8
77.5°	212.3	247.9	290.2	322.3	338.4
80°	158.2	189.5	235.2	270.7	285.1
82.5°	107.4	141.3	188.6	221.6	237.7
85°	66.0	101.5	145.5	176.8	187.8
87.5°	31.3	65.1	105.7	136.2	149.7
90°	4.2	36.4	74.4	104.1	115.0
92.5°	0.8	31.3	68.5	96.4	106.6
95°	0.8	31.3	67.7	94.7	104.9
97.5°	0.8	30.5	66.8	93.9	103.2
100°	0.8	29.6	66.0	92.2	102.4
102.5°	0.8	29.6	64.3	90.5	99.8
105°	0.8	28.8	63.4	88.8	98.1
107.5°	0.8	27.9	61.8	87.1	96.4
110°	0.8	26.2	60.9	84.6	93.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	25.4	59.2	82.9	91.4
115°	0.8	24.5	57.5	80.4	88.8
117.5°	0.8	23.7	55.0	77.8	86.3
120°	1.7	23.7	53.3	75.3	82.9
122.5°	1.7	22.8	50.8	71.9	79.5
125°	1.7	22.0	48.2	69.4	77.0
127.5°	1.7	21.1	45.7	66.0	72.8
130°	1.7	19.5	44.0	62.6	69.4
132.5°	1.7	18.6	41.5	58.4	65.1
135°	1.7	16.9	38.9	55.0	61.8
137.5°	1.7	16.1	36.4	51.6	57.5
140°	1.7	15.2	33.0	48.2	54.1
142.5°	1.7	13.5	30.5	44.8	49.9
145°	1.7	12.7	27.1	41.5	45.7
147.5°	1.7	11.0	24.5	38.1	42.3
150°	1.7	10.2	22.0	34.7	38.9
152.5°	1.7	9.3	19.5	30.5	34.7
155°	1.7	8.5	17.8	26.2	31.3
157.5°	1.7	7.6	15.2	22.8	27.9
160°	2.5	6.8	13.5	19.5	23.7
162.5°	2.5	5.9	11.0	16.1	21.1
165°	2.5	5.9	9.3	12.7	17.8
167.5°	2.5	5.1	7.6	10.2	14.4
170°	2.5	4.2	6.8	7.6	11.0
172.5°	2.5	3.4	5.1	5.1	5.9
175°	2.5	3.4	4.2	4.2	2.5
177.5°	2.5	2.5	2.5	2.5	1.7
180°	2.5	2.5	2.5	2.5	2.5

(END OF REPORT)