

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: P566521

Luminaire Tested: **4SNX-51SL-FDL-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566521
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-L850-CD
Description: 4FT 5100 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

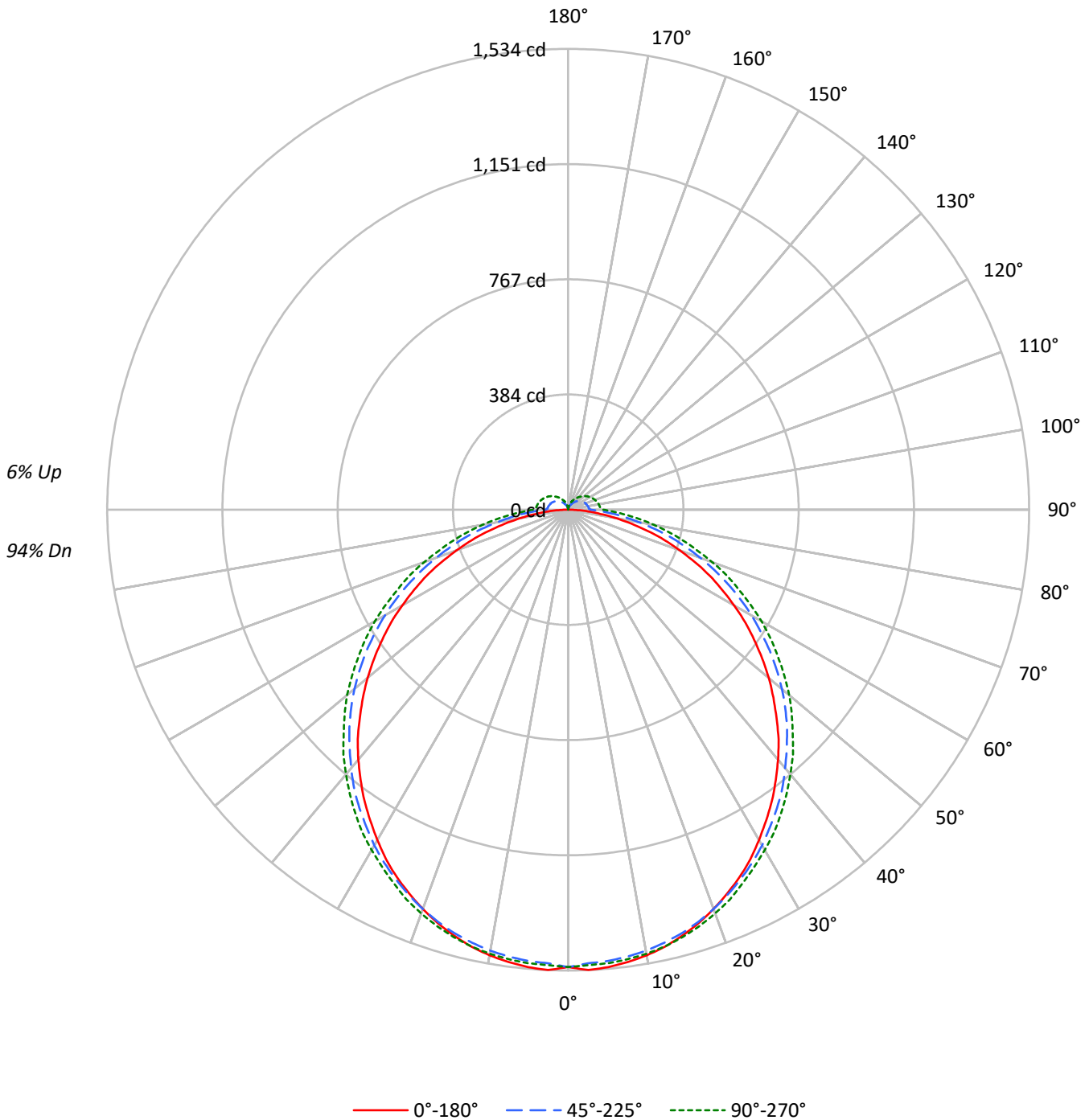
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4838.0 lumens
Efficiency: N/A
Efficacy: 138.2 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°	16387	16387	16387
5°	16499	16116	16141
10°	16431	15941	15938
15°	16309	15740	15710
20°	16142	15496	15442
25°	15949	15229	15125
30°	15687	14956	14832
35°	15423	14635	14528
40°	15132	14282	14184
45°	14766	13932	13784
50°	14412	13532	13417
55°	13972	13038	12909
60°	13479	12474	12409
65°	12955	11800	11720
70°	12058	10954	11005
75°	10977	9957	10148
80°	9376	8634	9200
85°	7372	7488	8086



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.4	3.0
10°-20°	414.3	8.6
20°-30°	627.9	13.0
30°-40°	757.9	15.7
40°-50°	791.5	16.4
50°-60°	727.1	15.0
60°-70°	575.0	11.9
70°-80°	363.9	7.5
80°-90°	156.4	3.2
90°-100°	68.8	1.4
100°-110°	61.6	1.3
110°-120°	52.1	1.1
120°-130°	40.6	0.8
130°-140°	28.1	0.6
140°-150°	16.8	0.3
150°-160°	8.2	0.2
160°-170°	2.9	0.1
170°-180°	0.4	0.0
0°-30°	1186.6	24.5
0°-40°	1944.5	40.2
0°-60°	3463.1	71.6
0°-90°	4558.5	94.2
90°-120°	182.5	3.8
90°-150°	268.0	5.5
90°-180°	280.0	5.8
0°-180°	4838.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1522	1522	1522	1522	1522	
5°	1528	1524	1508	1521	1516	145
15°	1468	1468	1460	1475	1473	414
25°	1349	1355	1357	1375	1372	621
35°	1182	1196	1211	1230	1235	739
45°	980	1004	1030	1050	1056	757
55°	756	786	819	846	852	676
65°	520	549	588	615	625	512
75°	274	307	351	381	396	291
85°	67	103	147	179	190	74
90°	4	37	75	105	116	6
95°	1	32	68	96	106	1
105°	1	29	64	90	99	1
115°	1	25	58	81	90	1
125°	2	22	49	70	78	2
135°	2	17	39	56	62	1
145°	2	13	27	42	46	1
155°	2	9	18	27	32	1
165°	3	6	9	13	18	1
175°	3	3	4	4	3	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1522.4	1522.4	1522.4	1522.4	1522.4
2.5°	1533.6	1528.4	1511.3	1523.3	1517.3
5°	1528.4	1524.1	1507.9	1520.7	1515.6
7.5°	1519.0	1515.6	1501.0	1514.7	1509.6
10°	1506.1	1503.6	1490.7	1504.4	1501.0
12.5°	1489.9	1489.0	1476.2	1491.6	1489.0
15°	1467.6	1467.6	1459.9	1475.3	1472.7
17.5°	1443.6	1444.5	1438.5	1454.7	1453.0
20°	1414.5	1418.8	1414.5	1431.6	1429.9
22.5°	1382.8	1388.8	1387.1	1404.2	1405.1
25°	1349.4	1355.4	1357.1	1375.1	1372.5
27.5°	1312.5	1322.0	1325.4	1341.7	1340.8
30°	1269.7	1282.5	1290.3	1304.0	1308.2
32.5°	1226.0	1241.4	1250.8	1269.7	1274.8
35°	1182.3	1196.0	1211.4	1230.3	1234.6
37.5°	1134.3	1149.7	1170.3	1188.3	1193.4
40°	1086.3	1103.5	1123.2	1142.9	1150.6
42.5°	1036.7	1054.6	1076.1	1099.2	1106.9
45°	980.1	1004.1	1029.8	1049.5	1056.4
47.5°	926.1	952.7	980.1	1001.5	1009.2
50°	871.3	899.6	928.7	948.4	960.4
52.5°	813.9	844.7	873.9	898.7	906.4
55°	755.6	786.5	819.0	845.6	851.6
57.5°	699.1	729.1	761.6	786.5	798.5
60°	637.4	670.0	705.1	729.9	742.8
62.5°	577.4	609.1	646.8	673.4	683.7
65°	520.0	549.2	587.7	615.1	624.6
67.5°	456.6	490.1	526.9	558.6	570.6
70°	394.1	425.8	467.8	497.8	509.8
72.5°	335.8	366.7	408.7	438.7	449.8
75°	274.2	306.7	351.3	381.2	395.8
77.5°	215.0	251.0	293.9	326.4	342.7
80°	160.2	191.9	238.2	274.2	288.7
82.5°	108.8	143.1	191.1	224.5	240.7
85°	66.8	102.8	147.4	179.1	190.2
87.5°	31.7	66.0	107.1	137.9	151.6
90°	4.3	36.8	75.4	105.4	116.5
92.5°	0.9	31.7	69.4	97.7	107.9
95°	0.9	31.7	68.5	96.0	106.2
97.5°	0.9	30.8	67.7	95.1	104.5
100°	0.9	30.0	66.8	93.4	103.7
102.5°	0.9	30.0	65.1	91.7	101.1
105°	0.9	29.1	64.3	90.0	99.4
107.5°	0.9	28.3	62.5	88.2	97.7
110°	0.9	26.6	61.7	85.7	95.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	25.7	60.0	84.0	92.5
115°	0.9	24.8	58.3	81.4	90.0
117.5°	0.9	24.0	55.7	78.8	87.4
120°	1.7	24.0	54.0	76.2	84.0
122.5°	1.7	23.1	51.4	72.8	80.5
125°	1.7	22.3	48.8	70.3	78.0
127.5°	1.7	21.4	46.3	66.8	73.7
130°	1.7	19.7	44.6	63.4	70.3
132.5°	1.7	18.8	42.0	59.1	66.0
135°	1.7	17.1	39.4	55.7	62.5
137.5°	1.7	16.3	36.8	52.3	58.3
140°	1.7	15.4	33.4	48.8	54.8
142.5°	1.7	13.7	30.8	45.4	50.5
145°	1.7	12.9	27.4	42.0	46.3
147.5°	1.7	11.1	24.8	38.6	42.8
150°	1.7	10.3	22.3	35.1	39.4
152.5°	1.7	9.4	19.7	30.8	35.1
155°	1.7	8.6	18.0	26.6	31.7
157.5°	1.7	7.7	15.4	23.1	28.3
160°	2.6	6.9	13.7	19.7	24.0
162.5°	2.6	6.0	11.1	16.3	21.4
165°	2.6	6.0	9.4	12.9	18.0
167.5°	2.6	5.1	7.7	10.3	14.6
170°	2.6	4.3	6.9	7.7	11.1
172.5°	2.6	3.4	5.1	5.1	6.0
175°	2.6	3.4	4.3	4.3	2.6
177.5°	2.6	2.6	2.6	2.6	1.7
180°	2.6	2.6	2.6	2.6	2.6

(END OF REPORT)