

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: P566524

Luminaire Tested: **4SNX-51SL-FDL-UNV-L940-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566524  
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-L940-CD  
Description: 4FT 5100 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

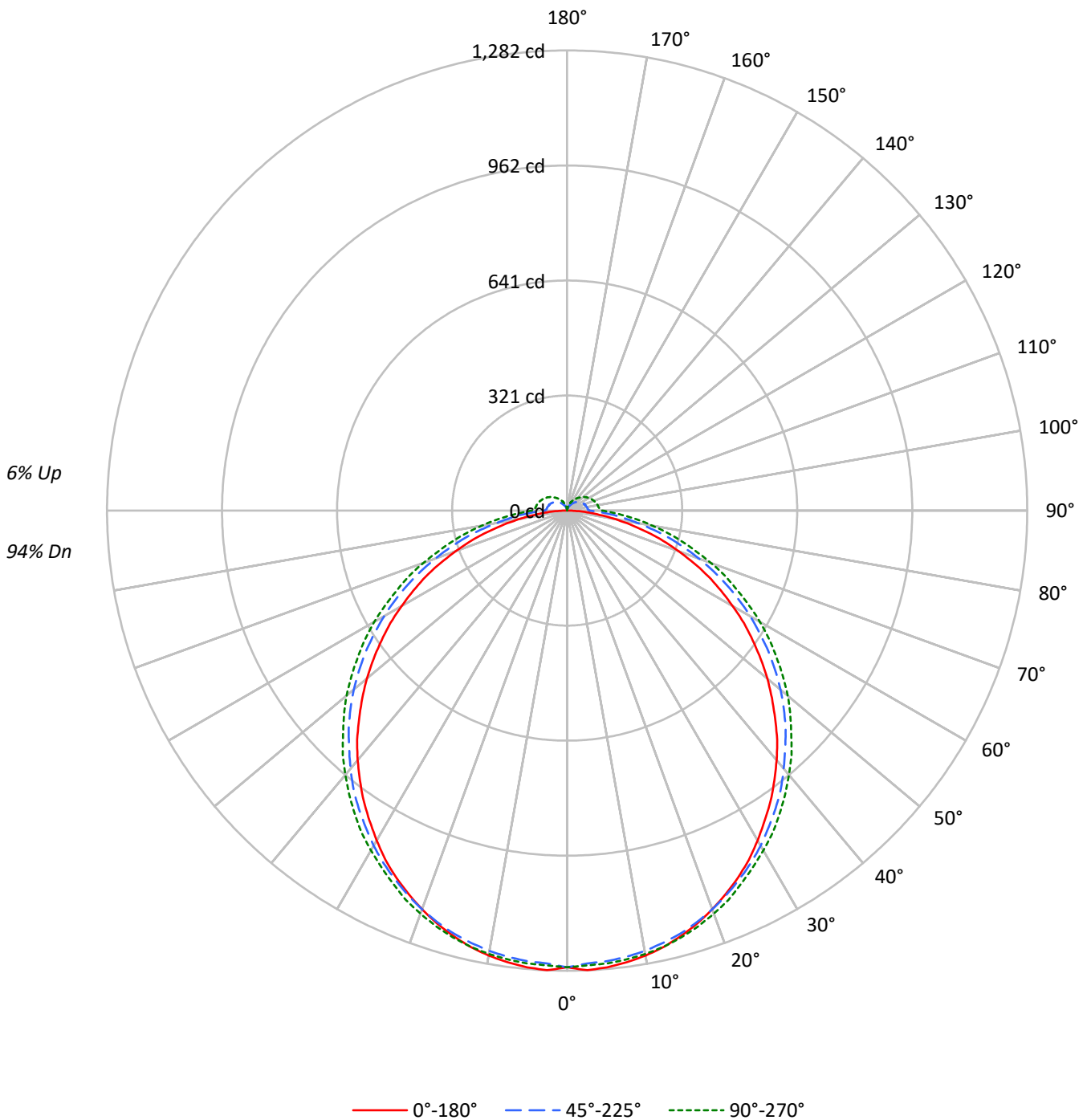
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4043.0 lumens  
Efficiency: N/A  
Efficacy: 115.5 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<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

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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	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°	13695	13695	13695
5°	13789	13468	13488
10°	13732	13322	13319
15°	13629	13154	13128
20°	13488	12949	12904
25°	13327	12726	12640
30°	13108	12498	12396
35°	12889	12231	12140
40°	12645	11935	11853
45°	12340	11643	11519
50°	12043	11309	11213
55°	11677	10897	10788
60°	11265	10424	10369
65°	10827	9860	9793
70°	10075	9153	9196
75°	9171	8319	8482
80°	7837	7213	7689
85°	6158	6253	6755



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.7	3.0
10°-20°	346.2	8.6
20°-30°	524.7	13.0
30°-40°	633.4	15.7
40°-50°	661.4	16.4
50°-60°	607.6	15.0
60°-70°	480.5	11.9
70°-80°	304.1	7.5
80°-90°	130.7	3.2
90°-100°	57.5	1.4
100°-110°	51.5	1.3
110°-120°	43.5	1.1
120°-130°	33.9	0.8
130°-140°	23.5	0.6
140°-150°	14.1	0.3
150°-160°	6.9	0.2
160°-170°	2.4	0.1
170°-180°	0.3	0.0
0°-30°	991.6	24.5
0°-40°	1625.0	40.2
0°-60°	2894.0	71.6
0°-90°	3809.4	94.2
90°-120°	152.5	3.8
90°-150°	224.0	5.5
90°-180°	234.0	5.8
0°-180°	4043.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1272	1272	1272	1272	1272	
5°	1277	1274	1260	1271	1266	121
15°	1226	1226	1220	1233	1231	346
25°	1128	1133	1134	1149	1147	519
35°	988	1000	1012	1028	1032	618
45°	819	839	861	877	883	633
55°	632	657	684	707	712	565
65°	435	459	491	514	522	428
75°	229	256	294	319	331	243
85°	56	86	123	150	159	62
90°	4	31	63	88	97	5
95°	1	26	57	80	89	1
105°	1	24	54	75	83	1
115°	1	21	49	68	75	1
125°	1	19	41	59	65	1
135°	1	14	33	46	52	1
145°	1	11	23	35	39	1
155°	1	7	15	22	26	1
165°	2	5	8	11	15	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°	1272.3	1272.3	1272.3	1272.3	1272.3
2.5°	1281.6	1277.3	1262.9	1273.0	1268.0
5°	1277.3	1273.7	1260.1	1270.8	1266.5
7.5°	1269.4	1266.5	1254.4	1265.8	1261.5
10°	1258.7	1256.5	1245.8	1257.2	1254.4
12.5°	1245.0	1244.3	1233.6	1246.5	1244.3
15°	1226.4	1226.4	1220.0	1232.9	1230.7
17.5°	1206.4	1207.1	1202.1	1215.7	1214.3
20°	1182.0	1185.6	1182.0	1196.4	1194.9
22.5°	1155.6	1160.6	1159.1	1173.5	1174.2
25°	1127.6	1132.6	1134.1	1149.1	1147.0
27.5°	1096.8	1104.7	1107.6	1121.2	1120.5
30°	1061.0	1071.8	1078.2	1089.7	1093.3
32.5°	1024.5	1037.4	1045.3	1061.0	1065.3
35°	988.0	999.5	1012.4	1028.1	1031.7
37.5°	947.9	960.8	978.0	993.0	997.3
40°	907.8	922.2	938.6	955.1	961.5
42.5°	866.3	881.3	899.2	918.6	925.0
45°	819.1	839.1	860.6	877.0	882.8
47.5°	773.9	796.1	819.1	837.0	843.4
50°	728.1	751.8	776.1	792.6	802.6
52.5°	680.2	705.9	730.3	751.0	757.5
55°	631.5	657.2	684.5	706.6	711.7
57.5°	584.2	609.3	636.5	657.2	667.3
60°	532.7	559.9	589.2	610.0	620.7
62.5°	482.6	509.0	540.5	562.7	571.3
65°	434.6	458.9	491.1	514.1	521.9
67.5°	381.6	409.5	440.3	466.8	476.8
70°	329.3	355.8	390.9	416.0	426.0
72.5°	280.7	306.4	341.5	366.6	375.9
75°	229.1	256.3	293.5	318.6	330.8
77.5°	179.7	209.8	245.6	272.8	286.4
80°	133.9	160.4	199.0	229.1	241.3
82.5°	90.9	119.6	159.7	187.6	201.2
85°	55.8	85.9	123.1	149.6	158.9
87.5°	26.5	55.1	89.5	115.3	126.7
90°	3.6	30.8	63.0	88.1	97.4
92.5°	0.7	26.5	58.0	81.6	90.2
95°	0.7	26.5	57.3	80.2	88.8
97.5°	0.7	25.8	56.6	79.5	87.3
100°	0.7	25.1	55.8	78.0	86.6
102.5°	0.7	25.1	54.4	76.6	84.5
105°	0.7	24.3	53.7	75.2	83.1
107.5°	0.7	23.6	52.3	73.7	81.6
110°	0.7	22.2	51.5	71.6	79.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	21.5	50.1	70.2	77.3
115°	0.7	20.8	48.7	68.0	75.2
117.5°	0.7	20.0	46.5	65.9	73.0
120°	1.4	20.0	45.1	63.7	70.2
122.5°	1.4	19.3	43.0	60.9	67.3
125°	1.4	18.6	40.8	58.7	65.2
127.5°	1.4	17.9	38.7	55.8	61.6
130°	1.4	16.5	37.2	53.0	58.7
132.5°	1.4	15.8	35.1	49.4	55.1
135°	1.4	14.3	32.9	46.5	52.3
137.5°	1.4	13.6	30.8	43.7	48.7
140°	1.4	12.9	27.9	40.8	45.8
142.5°	1.4	11.5	25.8	37.9	42.2
145°	1.4	10.7	22.9	35.1	38.7
147.5°	1.4	9.3	20.8	32.2	35.8
150°	1.4	8.6	18.6	29.4	32.9
152.5°	1.4	7.9	16.5	25.8	29.4
155°	1.4	7.2	15.0	22.2	26.5
157.5°	1.4	6.4	12.9	19.3	23.6
160°	2.1	5.7	11.5	16.5	20.0
162.5°	2.1	5.0	9.3	13.6	17.9
165°	2.1	5.0	7.9	10.7	15.0
167.5°	2.1	4.3	6.4	8.6	12.2
170°	2.1	3.6	5.7	6.4	9.3
172.5°	2.1	2.9	4.3	4.3	5.0
175°	2.1	2.9	3.6	3.6	2.1
177.5°	2.1	2.1	2.1	2.1	1.4
180°	2.1	2.1	2.1	2.1	2.1

(END OF REPORT)