

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: P566244

Luminaire Tested: **4SNX-31SL-LC-UNV-L940-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566244  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-31SL-LC-UNV-L940-CD  
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

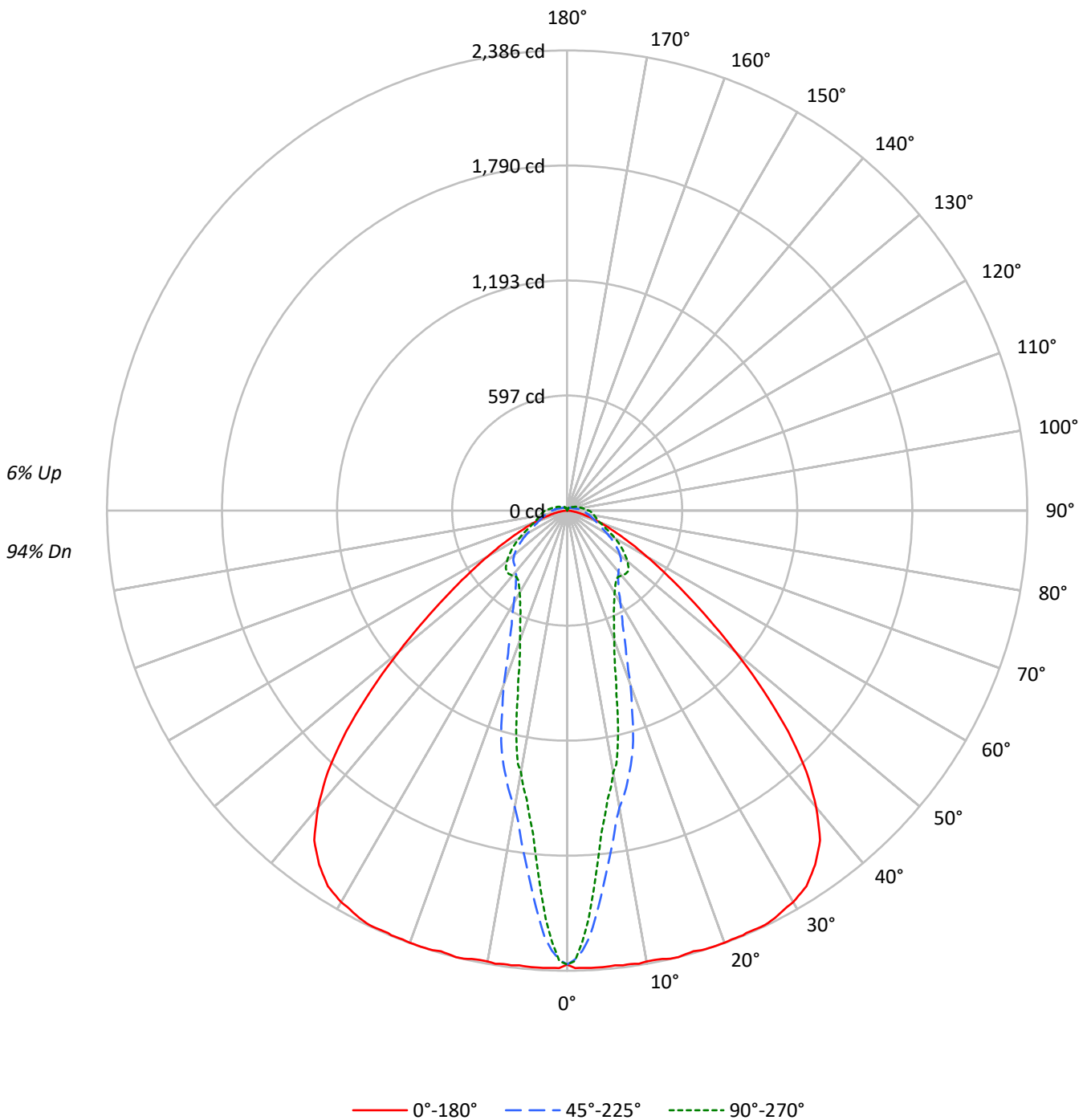
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2901.0 lumens  
Efficiency: N/A  
Efficacy: 148.8 lumens/watt  
Spacing Criteria (0/90/45): 1.45 / 0.43 / 0.61  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 19.5  
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	50	30	10	0		
RCR																										
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94								
1	108	103	99	96	105	101	97	94	95	92	90	90	88	86	86	84	82	80								
2	99	92	86	80	96	89	84	79	85	80	76	81	77	74	77	74	71	69								
3	92	82	75	69	89	80	73	68	76	71	66	73	68	64	70	66	62	60								
4	85	74	66	60	82	72	65	59	69	63	58	66	61	56	63	59	55	53								
5	79	67	59	53	76	66	58	52	63	56	51	60	55	50	58	53	49	47								
6	73	61	53	47	71	60	52	47	58	51	46	56	50	45	53	48	44	42								
7	69	56	48	43	67	55	48	42	53	46	42	51	45	41	50	44	40	38								
8	64	52	44	39	63	51	44	39	49	43	38	48	42	37	46	41	37	35								
9	61	48	41	36	59	47	40	35	46	39	35	44	39	34	43	38	34	32								
10	57	45	38	33	56	44	37	33	43	37	32	42	36	32	40	35	31	30								

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

	0°	45°	90°
0°	25332	25332	25332
5°	25560	20806	18624
10°	25761	15707	13479
15°	26231	12839	9334
20°	26908	9290	6592
25°	27748	6656	5186
30°	28455	5318	4416
35°	28624	4498	3955
40°	27289	4089	3966
45°	23681	3950	4074
50°	18168	3757	3802
55°	13166	3285	3373
60°	9551	2742	2851
65°	6951	2318	2338
70°	5123	2048	2016
75°	3639	1896	1879
80°	2387	1775	1850
85°	1121	1693	1852



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.1	6.4
10°-20°	401.9	13.9
20°-30°	460.0	15.9
30°-40°	460.9	15.9
40°-50°	436.3	15.0
50°-60°	334.6	11.5
60°-70°	215.7	7.4
70°-80°	137.5	4.7
80°-90°	91.3	3.1
90°-100°	61.4	2.1
100°-110°	40.5	1.4
110°-120°	28.1	1.0
120°-130°	19.6	0.7
130°-140°	13.6	0.5
140°-150°	8.3	0.3
150°-160°	4.2	0.1
160°-170°	1.6	0.1
170°-180°	0.3	0.0
0°-30°	1047.0	36.1
0°-40°	1507.9	52.0
0°-60°	2278.7	78.5
0°-90°	2723.3	93.9
90°-120°	130.0	4.5
90°-150°	171.6	5.9
90°-180°	178.0	6.1
0°-180°	2901.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2353	2353	2353	2353	2353	
5°	2374	2243	2010	1875	1824	227
15°	2380	1714	1307	1073	987	675
25°	2382	1213	691	601	572	1098
35°	2242	675	462	448	442	1391
45°	1620	427	390	431	446	1232
55°	743	305	300	338	351	684
65°	297	192	189	216	223	306
75°	101	104	131	150	158	111
85°	13	48	92	120	129	18
90°	0	33	77	107	112	1
95°	0	24	64	88	92	0
105°	0	18	42	60	64	1
115°	2	15	31	43	46	1
125°	2	13	27	31	33	1
135°	2	10	21	25	27	1
145°	2	7	15	19	21	1
155°	2	4	9	13	15	1
165°	3	3	6	7	9	1
175°	3	3	3	3	2	0
180°	3	3	3	3	3	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2353.4	2353.4	2353.4	2353.4	2353.4
1°	2372.8	2359.4	2328.2	2337.1	2335.6
2°	2372.8	2344.5	2283.6	2265.7	2239.0
3°	2374.2	2319.2	2215.2	2157.2	2120.0
4°	2374.2	2282.1	2114.1	2017.4	1969.9
5°	2374.2	2243.4	2010.0	1874.7	1824.2
6°	2371.3	2197.3	1904.5	1761.7	1685.9
7°	2375.7	2146.8	1809.3	1656.2	1596.7
8°	2374.2	2087.3	1721.6	1575.9	1510.5
9°	2378.7	2029.3	1626.4	1500.1	1451.0
10°	2374.2	1975.8	1564.0	1428.7	1378.2
11°	2374.2	1923.8	1519.4	1382.6	1339.5
12°	2377.2	1864.3	1470.3	1317.2	1257.7
13°	2384.7	1803.4	1413.8	1245.8	1176.0
14°	2386.1	1757.3	1361.8	1155.2	1082.3
15°	2380.2	1714.2	1306.8	1073.4	987.2
16°	2377.2	1669.6	1241.4	996.1	918.8
17°	2383.2	1617.5	1167.1	917.3	845.9
18°	2384.7	1569.9	1088.3	857.8	795.4
19°	2384.7	1532.8	1024.3	802.8	749.3
20°	2384.7	1497.1	958.9	761.2	715.1
21°	2381.7	1452.5	884.6	718.1	679.4
22.5°	2383.2	1369.2	799.8	667.5	636.3
23°	2378.7	1348.4	779.0	654.1	621.4
24°	2380.2	1289.0	734.4	627.4	596.2
25°	2381.7	1213.1	691.3	600.6	572.4
26°	2378.7	1152.2	655.6	575.3	556.0
27°	2371.3	1103.1	630.4	554.5	536.7
28°	2360.9	1037.7	603.6	536.7	520.3
29°	2350.5	963.4	576.8	517.4	505.5
30°	2344.5	903.9	551.6	502.5	492.1
32.5°	2308.8	786.5	499.5	472.8	463.8
35°	2241.9	675.0	462.4	447.5	441.5
37.5°	2154.2	588.7	434.1	431.1	432.6
40°	2010.0	520.3	413.3	426.7	440.1
42.5°	1837.6	466.8	398.4	431.1	446.0
45°	1620.5	426.7	389.5	431.1	446.0
47.5°	1379.6	394.0	379.1	416.3	431.1
50°	1138.8	364.2	358.3	394.0	407.4
52.5°	926.2	336.0	331.5	365.7	379.1
55°	743.3	304.8	300.3	337.5	350.9
57.5°	596.2	275.0	270.6	304.8	318.2
60°	475.7	245.3	237.9	272.1	285.4
62.5°	379.1	217.1	212.6	242.3	254.2
65°	297.3	191.8	188.8	215.6	223.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	234.9	168.0	169.5	191.8	200.7
70°	181.4	145.7	154.6	175.4	181.4
72.5°	136.8	123.4	142.7	160.6	168.0
75°	101.1	104.1	130.8	150.2	157.6
77.5°	69.9	86.2	120.4	141.2	148.7
80°	47.6	69.9	110.0	133.8	142.7
82.5°	28.2	58.0	101.1	126.4	136.8
85°	13.4	47.6	92.2	120.4	129.3
87.5°	4.5	38.7	83.3	114.5	121.9
90°	0.0	32.7	77.3	107.0	111.5
92.5°	0.0	28.2	69.9	98.1	101.1
95°	0.0	23.8	63.9	87.7	92.2
97.5°	0.0	22.3	59.5	78.8	84.7
100°	0.0	20.8	53.5	71.4	77.3
102.5°	0.0	17.8	47.6	63.9	69.9
105°	0.0	17.8	41.6	59.5	63.9
107.5°	1.5	16.4	38.7	53.5	59.5
110°	1.5	16.4	34.2	50.5	55.0
112.5°	1.5	16.4	32.7	46.1	52.0
115°	1.5	14.9	31.2	43.1	46.1
117.5°	1.5	14.9	29.7	38.7	41.6
120°	1.5	13.4	28.2	35.7	37.2
122.5°	1.5	13.4	26.8	32.7	34.2
125°	1.5	13.4	26.8	31.2	32.7
127.5°	1.5	11.9	25.3	29.7	29.7
130°	1.5	11.9	23.8	28.2	28.2
132.5°	1.5	10.4	22.3	26.8	28.2
135°	1.5	10.4	20.8	25.3	26.8
137.5°	1.5	8.9	19.3	23.8	25.3
140°	1.5	8.9	17.8	22.3	23.8
142.5°	1.5	7.4	16.4	20.8	22.3
145°	1.5	7.4	14.9	19.3	20.8
147.5°	1.5	7.4	13.4	17.8	19.3
150°	1.5	5.9	11.9	16.4	17.8
152.5°	1.5	5.9	10.4	14.9	16.4
155°	1.5	4.5	8.9	13.4	14.9
157.5°	1.5	4.5	8.9	11.9	13.4
160°	3.0	4.5	7.4	10.4	11.9
162.5°	1.5	3.0	7.4	8.9	10.4
165°	3.0	3.0	5.9	7.4	8.9
167.5°	3.0	3.0	4.5	5.9	7.4
170°	3.0	3.0	4.5	4.5	5.9
172.5°	3.0	3.0	3.0	4.5	3.0
175°	3.0	3.0	3.0	3.0	1.5
177.5°	3.0	3.0	3.0	3.0	1.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	3.0	3.0	3.0	3.0	3.0

(END OF REPORT)