

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: P566243

Luminaire Tested: **4SNX-31SL-LC-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566243
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-L935-CD
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

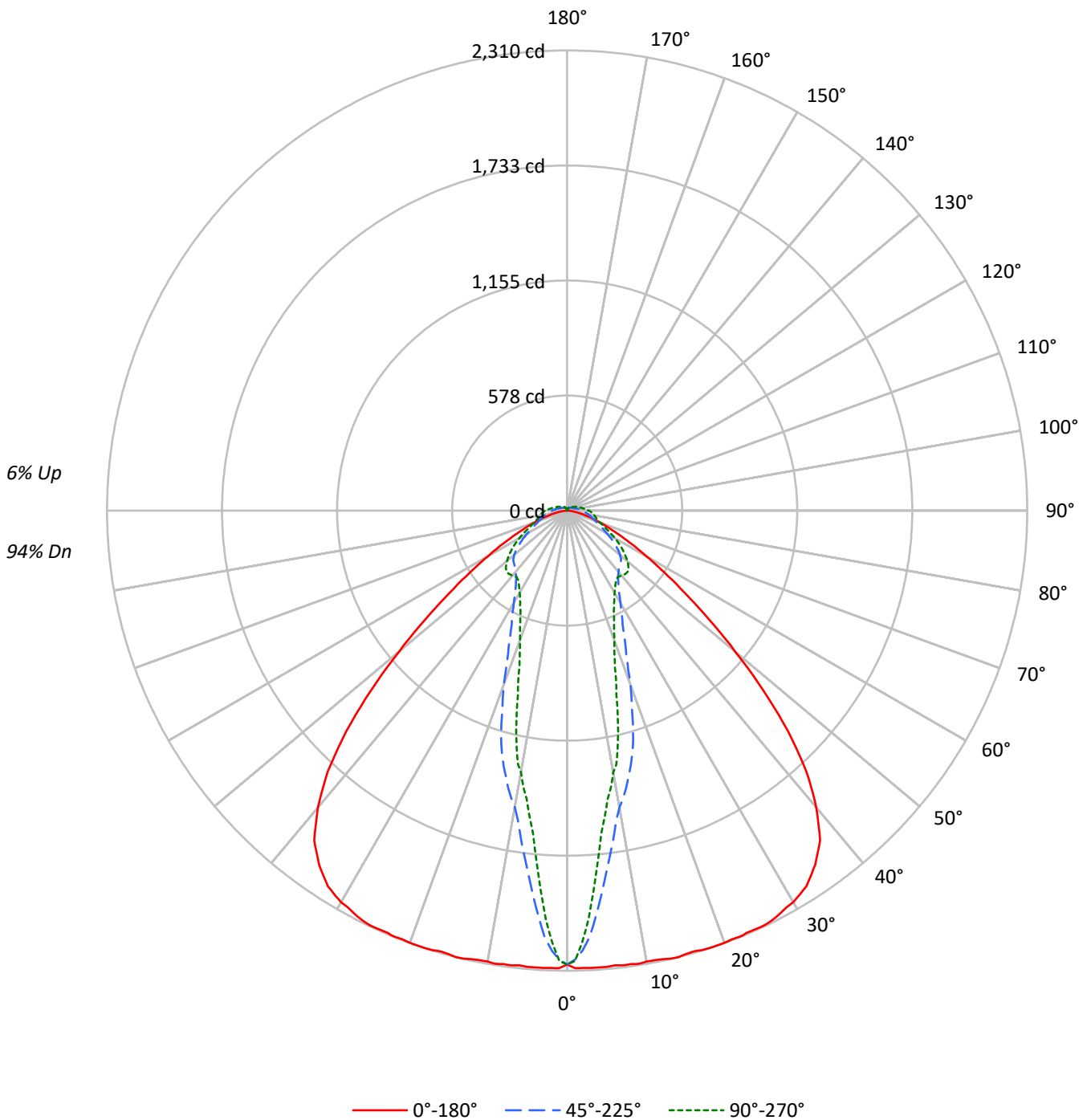
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2809.0 lumens
Efficiency: N/A
Efficacy: 144.1 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 (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	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°	24529	24529	24529
5°	24751	20147	18033
10°	24945	15209	13052
15°	25399	12433	9038
20°	26054	8996	6383
25°	26867	6445	5021
30°	27554	5149	4276
35°	27716	4355	3830
40°	26424	3959	3839
45°	22930	3826	3945
50°	17592	3638	3680
55°	12749	3181	3266
60°	9250	2655	2762
65°	6731	2245	2263
70°	4959	1983	1952
75°	3524	1836	1819
80°	2311	1719	1792
85°	1088	1640	1794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.2	6.4
10°-20°	389.2	13.9
20°-30°	445.5	15.9
30°-40°	446.2	15.9
40°-50°	422.4	15.0
50°-60°	324.0	11.5
60°-70°	208.8	7.4
70°-80°	133.2	4.7
80°-90°	88.4	3.1
90°-100°	59.5	2.1
100°-110°	39.2	1.4
110°-120°	27.2	1.0
120°-130°	19.0	0.7
130°-140°	13.2	0.5
140°-150°	8.1	0.3
150°-160°	4.1	0.1
160°-170°	1.6	0.1
170°-180°	0.3	0.0
0°-30°	1013.8	36.1
0°-40°	1460.1	52.0
0°-60°	2206.5	78.5
0°-90°	2636.9	93.9
90°-120°	125.9	4.5
90°-150°	166.1	5.9
90°-180°	172.0	6.1
0°-180°	2809.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2279	2279	2279	2279	2279	
5°	2299	2172	1946	1815	1766	219
15°	2305	1660	1265	1039	956	654
25°	2306	1175	669	582	554	1063
35°	2171	654	448	433	428	1347
45°	1569	413	377	418	432	1193
55°	720	295	291	327	340	662
65°	288	186	183	209	216	296
75°	98	101	127	145	153	108
85°	13	46	89	117	125	18
90°	0	32	75	104	108	1
95°	0	23	62	85	89	0
105°	0	17	40	58	62	1
115°	1	14	30	42	45	1
125°	1	13	26	30	32	1
135°	1	10	20	24	26	1
145°	1	7	14	19	20	1
155°	1	4	9	13	14	1
165°	3	3	6	7	9	1
175°	3	3	3	3	1	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2278.8	2278.8	2278.8	2278.8	2278.8
1°	2297.5	2284.6	2254.3	2263.0	2261.5
2°	2297.5	2270.2	2211.1	2193.9	2168.0
3°	2299.0	2245.7	2144.9	2088.8	2052.8
4°	2299.0	2209.7	2047.0	1953.5	1907.4
5°	2299.0	2172.3	1946.3	1815.3	1766.3
6°	2296.1	2127.6	1844.1	1705.9	1632.4
7°	2300.4	2078.7	1751.9	1603.7	1546.1
8°	2299.0	2021.1	1667.0	1525.9	1462.6
9°	2303.3	1965.0	1574.9	1452.5	1405.0
10°	2299.0	1913.2	1514.4	1383.4	1334.5
11°	2299.0	1862.8	1471.2	1338.8	1297.0
12°	2301.8	1805.2	1423.7	1275.4	1217.9
13°	2309.0	1746.2	1369.0	1206.3	1138.7
14°	2310.5	1701.5	1318.6	1118.5	1048.0
15°	2304.7	1659.8	1265.4	1039.4	955.9
16°	2301.8	1616.6	1202.0	964.5	889.6
17°	2307.6	1566.2	1130.0	888.2	819.1
18°	2309.0	1520.2	1053.7	830.6	770.2
19°	2309.0	1484.2	991.8	777.4	725.5
20°	2309.0	1449.6	928.5	737.0	692.4
21°	2306.1	1406.4	856.5	695.3	657.9
22.5°	2307.6	1325.8	774.5	646.4	616.1
23°	2303.3	1305.7	754.3	633.4	601.7
24°	2304.7	1248.1	711.1	607.5	577.3
25°	2306.1	1174.7	669.4	581.6	554.2
26°	2303.3	1115.6	634.8	557.1	538.4
27°	2296.1	1068.1	610.4	536.9	519.7
28°	2286.0	1004.8	584.5	519.7	503.8
29°	2275.9	932.8	558.5	501.0	489.4
30°	2270.2	875.2	534.1	486.6	476.5
32.5°	2235.6	761.5	483.7	457.8	449.1
35°	2170.8	653.6	447.7	433.3	427.5
37.5°	2085.9	570.1	420.3	417.5	418.9
40°	1946.3	503.8	400.2	413.1	426.1
42.5°	1779.3	452.0	385.8	417.5	431.9
45°	1569.1	413.1	377.2	417.5	431.9
47.5°	1335.9	381.5	367.1	403.1	417.5
50°	1102.7	352.7	346.9	381.5	394.4
52.5°	896.8	325.3	321.0	354.1	367.1
55°	719.8	295.1	290.8	326.8	339.7
57.5°	577.3	266.3	262.0	295.1	308.1
60°	460.7	237.5	230.3	263.4	276.4
62.5°	367.1	210.2	205.9	234.6	246.2
65°	287.9	185.7	182.8	208.7	215.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	227.4	162.7	164.1	185.7	194.3
70°	175.6	141.1	149.7	169.9	175.6
72.5°	132.4	119.5	138.2	155.5	162.7
75°	97.9	100.8	126.7	145.4	152.6
77.5°	67.7	83.5	116.6	136.8	144.0
80°	46.1	67.7	106.5	129.6	138.2
82.5°	27.4	56.1	97.9	122.4	132.4
85°	13.0	46.1	89.3	116.6	125.2
87.5°	4.3	37.4	80.6	110.8	118.0
90°	0.0	31.7	74.9	103.6	108.0
92.5°	0.0	27.4	67.7	95.0	97.9
95°	0.0	23.0	61.9	84.9	89.3
97.5°	0.0	21.6	57.6	76.3	82.1
100°	0.0	20.2	51.8	69.1	74.9
102.5°	0.0	17.3	46.1	61.9	67.7
105°	0.0	17.3	40.3	57.6	61.9
107.5°	1.4	15.8	37.4	51.8	57.6
110°	1.4	15.8	33.1	48.9	53.3
112.5°	1.4	15.8	31.7	44.6	50.4
115°	1.4	14.4	30.2	41.7	44.6
117.5°	1.4	14.4	28.8	37.4	40.3
120°	1.4	13.0	27.4	34.5	36.0
122.5°	1.4	13.0	25.9	31.7	33.1
125°	1.4	13.0	25.9	30.2	31.7
127.5°	1.4	11.5	24.5	28.8	28.8
130°	1.4	11.5	23.0	27.4	27.4
132.5°	1.4	10.1	21.6	25.9	27.4
135°	1.4	10.1	20.2	24.5	25.9
137.5°	1.4	8.6	18.7	23.0	24.5
140°	1.4	8.6	17.3	21.6	23.0
142.5°	1.4	7.2	15.8	20.2	21.6
145°	1.4	7.2	14.4	18.7	20.2
147.5°	1.4	7.2	13.0	17.3	18.7
150°	1.4	5.8	11.5	15.8	17.3
152.5°	1.4	5.8	10.1	14.4	15.8
155°	1.4	4.3	8.6	13.0	14.4
157.5°	1.4	4.3	8.6	11.5	13.0
160°	2.9	4.3	7.2	10.1	11.5
162.5°	1.4	2.9	7.2	8.6	10.1
165°	2.9	2.9	5.8	7.2	8.6
167.5°	2.9	2.9	4.3	5.8	7.2
170°	2.9	2.9	4.3	4.3	5.8
172.5°	2.9	2.9	2.9	4.3	2.9
175°	2.9	2.9	2.9	2.9	1.4
177.5°	2.9	2.9	2.9	2.9	1.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	2.9	2.9	2.9	2.9	2.9

(END OF REPORT)