

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: P566247

Luminaire Tested: **4SNX-31SL-LN-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-31SL-LN-UNV-L835-CD
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

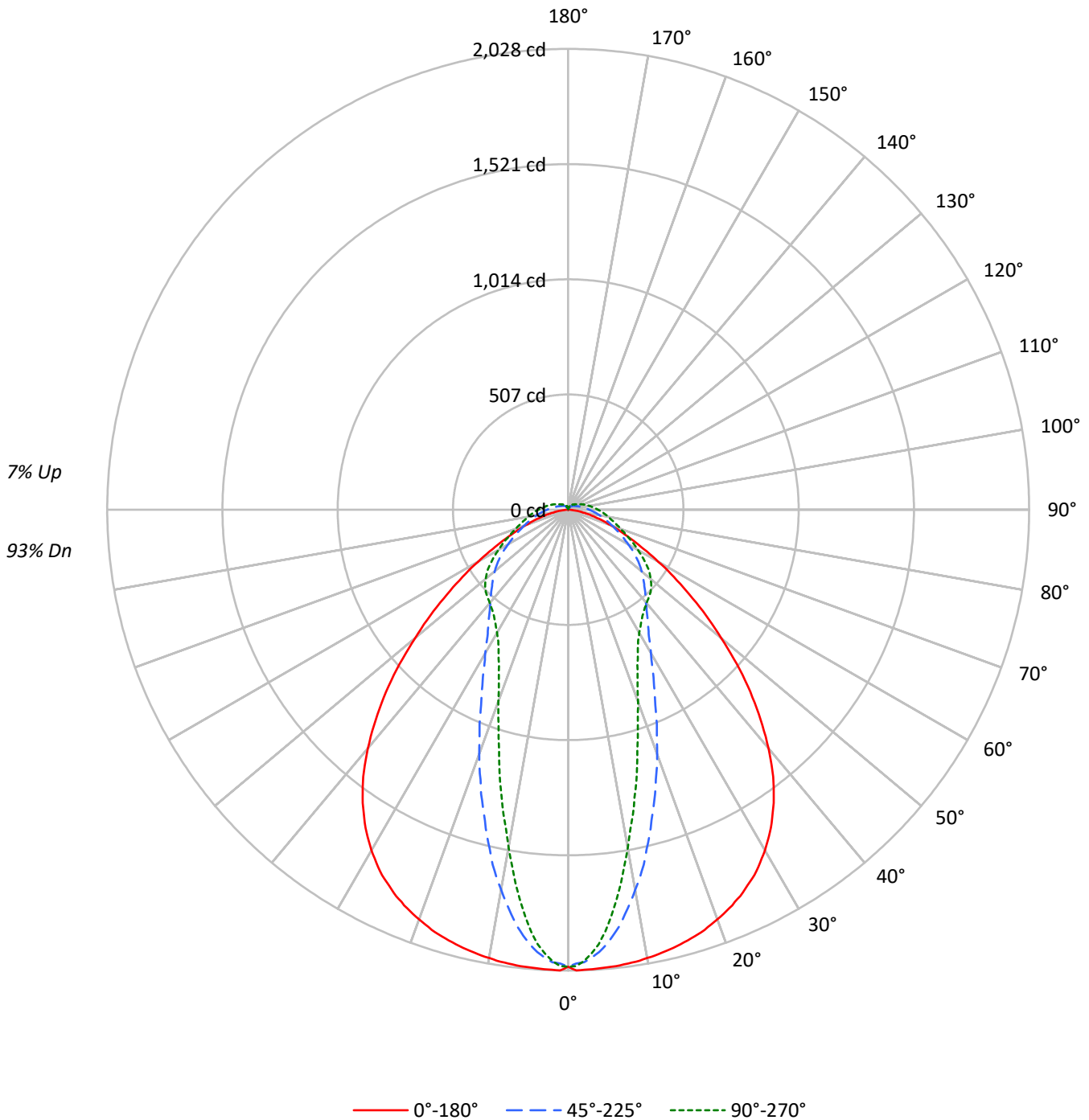
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3206.0 lumens
Efficiency: N/A
Efficacy: 164.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 0.56 / 0.78
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	0
RCR																		
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	107	103	99	95	104	100	96	93	94	91	88	89	87	85	85	83	81	78
2	99	91	84	79	95	88	82	77	84	79	75	79	75	72	76	72	69	67
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58
4	84	73	64	58	81	71	63	57	67	61	56	64	59	54	62	57	53	51
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45
6	72	60	51	45	70	59	51	45	56	49	44	54	48	43	52	46	42	40
7	67	55	47	41	65	54	46	41	52	45	40	50	44	39	48	42	38	36
8	63	51	43	37	61	50	42	37	48	41	36	46	40	36	44	39	35	33
9	59	47	39	34	58	46	39	34	44	38	33	43	37	33	41	36	32	30
10	56	44	36	31	54	43	36	31	41	35	31	40	34	30	39	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21648	21648	21648
5°	21761	19898	19041
10°	21731	17060	14773
15°	21720	13916	11072
20°	21651	11086	8286
25°	21454	8687	6577
30°	21004	7030	5609
35°	20122	5950	5103
40°	18615	5252	4830
45°	16550	4805	4681
50°	14020	4422	4421
55°	11517	4007	4039
60°	9210	3525	3542
65°	7150	3094	3082
70°	5552	2738	2726
75°	4294	2460	2484
80°	3033	2252	2309
85°	1690	2099	2215



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.1	5.6
10°-20°	417.5	13.0
20°-30°	495.6	15.5
30°-40°	498.6	15.6
40°-50°	463.5	14.5
50°-60°	381.6	11.9
60°-70°	268.9	8.4
70°-80°	175.7	5.5
80°-90°	112.2	3.5
90°-100°	73.6	2.3
100°-110°	49.9	1.6
110°-120°	34.2	1.1
120°-130°	23.7	0.7
130°-140°	15.9	0.5
140°-150°	9.8	0.3
150°-160°	5.1	0.2
160°-170°	1.8	0.1
170°-180°	0.3	0.0
0°-30°	1091.1	34.0
0°-40°	1589.7	49.6
0°-60°	2434.8	75.9
0°-90°	2991.6	93.3
90°-120°	157.7	4.9
90°-150°	207.2	6.5
90°-180°	214.0	6.7
0°-180°	3206.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2011	2011	2011	2011	2011	
5°	2021	1994	1922	1885	1865	192
15°	1971	1761	1416	1238	1171	557
25°	1842	1361	902	758	726	847
35°	1576	921	612	573	570	980
45°	1132	607	474	499	512	869
55°	650	398	366	407	420	587
65°	306	240	252	284	294	310
75°	119	124	170	200	208	129
85°	20	57	114	148	155	25
90°	0	39	92	126	131	1
95°	0	29	77	106	111	0
105°	0	20	52	74	81	0
115°	2	17	37	54	57	1
125°	2	13	30	39	42	2
135°	2	12	24	30	32	1
145°	2	8	17	24	25	1
155°	2	7	12	17	18	1
165°	2	3	7	8	10	0
175°	3	3	3	3	2	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2011.2	2011.2	2011.2	2011.2	2011.2
1°	2028.0	2019.6	1997.8	2012.9	2009.5
2°	2026.3	2017.9	1992.7	1999.5	1987.7
3°	2024.7	2012.9	1974.3	1972.6	1955.8
4°	2023.0	2004.5	1950.7	1930.6	1917.1
5°	2021.3	1994.4	1922.2	1885.2	1865.0
6°	2019.6	1982.7	1885.2	1829.8	1801.2
7°	2016.3	1964.2	1846.6	1770.9	1734.0
8°	2012.9	1947.4	1797.8	1707.1	1661.7
9°	2009.5	1925.5	1749.1	1638.2	1584.4
10°	2002.8	1903.7	1698.7	1567.6	1510.5
11°	1999.5	1878.5	1650.0	1500.4	1433.2
12°	1992.7	1851.6	1597.9	1429.9	1371.1
13°	1986.0	1823.0	1534.0	1369.4	1298.8
14°	1979.3	1792.8	1478.6	1302.2	1236.6
15°	1970.9	1760.9	1416.4	1238.3	1171.1
16°	1962.5	1723.9	1361.0	1172.8	1102.2
17°	1954.1	1688.6	1308.9	1112.3	1048.5
18°	1944.0	1653.3	1248.4	1053.5	991.3
19°	1930.6	1613.0	1199.7	999.7	942.6
20°	1918.8	1576.0	1144.2	949.3	898.9
21°	1905.4	1530.7	1088.8	902.3	851.9
22.5°	1885.2	1466.8	1018.2	843.5	796.4
23°	1875.1	1448.3	989.6	821.6	781.3
24°	1861.7	1399.6	942.6	788.0	747.7
25°	1841.5	1361.0	902.3	757.8	725.9
26°	1823.0	1313.9	862.0	730.9	699.0
27°	1804.6	1268.6	826.7	702.3	675.4
28°	1781.0	1221.5	788.0	678.8	655.3
29°	1755.8	1177.8	756.1	658.6	640.2
30°	1730.6	1129.1	729.2	640.2	625.0
32.5°	1660.1	1021.6	660.3	604.9	594.8
35°	1576.0	920.8	611.6	573.0	569.6
37.5°	1482.0	828.3	567.9	547.8	551.1
40°	1371.1	744.3	530.9	529.3	536.0
42.5°	1253.4	672.1	502.4	514.1	524.2
45°	1132.5	606.6	473.8	499.0	512.5
47.5°	1006.5	549.4	448.6	480.5	495.7
50°	878.8	494.0	421.7	458.7	473.8
52.5°	764.5	445.3	394.9	433.5	450.3
55°	650.2	398.2	366.3	406.6	420.1
57.5°	551.1	354.5	336.0	376.4	386.4
60°	458.7	312.5	305.8	342.8	354.5
62.5°	374.7	275.6	277.2	312.5	324.3
65°	305.8	240.3	252.0	284.0	294.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	248.7	206.7	226.8	260.4	268.8
70°	196.6	176.4	206.7	236.9	245.3
72.5°	156.3	149.5	186.5	218.4	225.1
75°	119.3	124.3	169.7	199.9	208.3
77.5°	85.7	104.2	152.9	184.8	191.5
80°	60.5	85.7	139.5	171.4	178.1
82.5°	38.6	70.6	126.0	159.6	166.3
85°	20.2	57.1	114.3	147.9	154.6
87.5°	8.4	47.0	102.5	136.1	142.8
90°	0.0	38.6	92.4	126.0	131.1
92.5°	0.0	33.6	84.0	115.9	121.0
95°	0.0	28.6	77.3	105.9	110.9
97.5°	0.0	26.9	68.9	97.5	102.5
100°	0.0	23.5	62.2	89.1	95.8
102.5°	0.0	21.8	57.1	80.7	87.4
105°	0.0	20.2	52.1	73.9	80.7
107.5°	0.0	18.5	48.7	68.9	73.9
110°	0.0	18.5	43.7	63.8	68.9
112.5°	1.7	16.8	40.3	57.1	62.2
115°	1.7	16.8	37.0	53.8	57.1
117.5°	1.7	16.8	35.3	48.7	52.1
120°	1.7	15.1	33.6	45.4	48.7
122.5°	1.7	15.1	31.9	42.0	43.7
125°	1.7	13.4	30.2	38.6	42.0
127.5°	1.7	13.4	28.6	37.0	38.6
130°	1.7	13.4	26.9	33.6	37.0
132.5°	1.7	11.8	25.2	31.9	33.6
135°	1.7	11.8	23.5	30.2	31.9
137.5°	1.7	10.1	21.8	28.6	30.2
140°	1.7	10.1	20.2	26.9	28.6
142.5°	1.7	8.4	18.5	25.2	26.9
145°	1.7	8.4	16.8	23.5	25.2
147.5°	1.7	8.4	15.1	21.8	23.5
150°	1.7	6.7	13.4	20.2	21.8
152.5°	1.7	6.7	11.8	18.5	20.2
155°	1.7	6.7	11.8	16.8	18.5
157.5°	1.7	5.0	10.1	13.4	16.8
160°	1.7	5.0	8.4	11.8	15.1
162.5°	1.7	5.0	8.4	10.1	11.8
165°	1.7	3.4	6.7	8.4	10.1
167.5°	1.7	3.4	5.0	6.7	8.4
170°	1.7	3.4	5.0	5.0	6.7
172.5°	1.7	3.4	3.4	3.4	3.4
175°	3.4	3.4	3.4	3.4	1.7
177.5°	3.4	3.4	3.4	1.7	1.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	1.7	1.7	1.7	1.7	1.7

(END OF REPORT)