

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: P566246

Luminaire Tested: **4SNX-31SL-LN-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566246
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-L830-CD
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

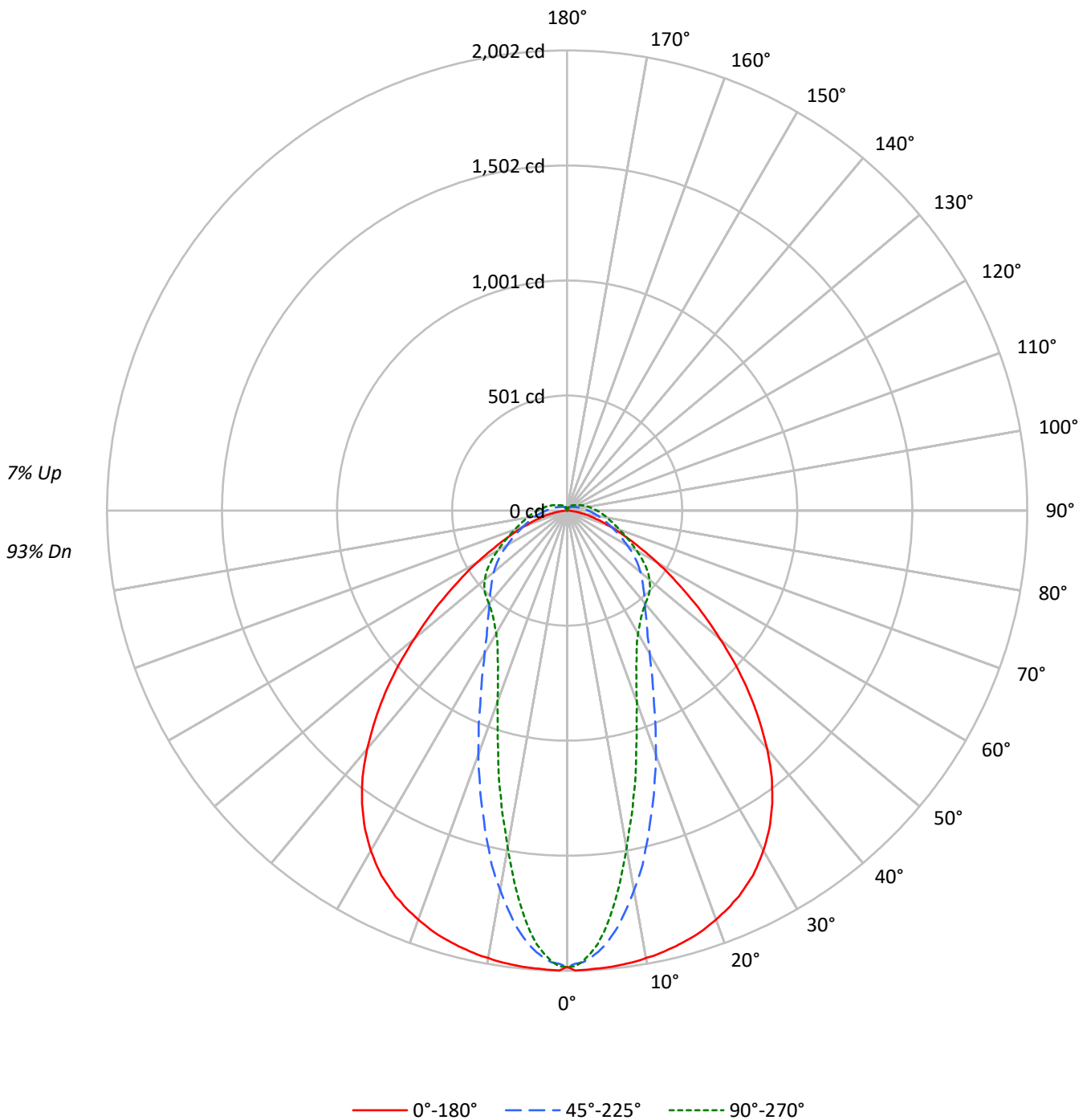
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3164.0 lumens
Efficiency: N/A
Efficacy: 162.3 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 (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	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°	21365	21365	21365
5°	21476	19637	18792
10°	21447	16836	14579
15°	21436	13734	10928
20°	21368	10940	8177
25°	21173	8574	6490
30°	20730	6939	5536
35°	19859	5872	5036
40°	18371	5184	4767
45°	16332	4743	4620
50°	13835	4364	4363
55°	11366	3955	3986
60°	9090	3479	3496
65°	7056	3054	3042
70°	5478	2702	2691
75°	4236	2428	2451
80°	2993	2221	2279
85°	1665	2072	2186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.8	5.6
10°-20°	412.0	13.0
20°-30°	489.1	15.5
30°-40°	492.1	15.6
40°-50°	457.4	14.5
50°-60°	376.6	11.9
60°-70°	265.4	8.4
70°-80°	173.4	5.5
80°-90°	110.7	3.5
90°-100°	72.6	2.3
100°-110°	49.3	1.6
110°-120°	33.8	1.1
120°-130°	23.4	0.7
130°-140°	15.7	0.5
140°-150°	9.7	0.3
150°-160°	5.0	0.2
160°-170°	1.8	0.1
170°-180°	0.3	0.0
0°-30°	1076.9	34.0
0°-40°	1568.9	49.6
0°-60°	2402.9	75.9
0°-90°	2952.4	93.3
90°-120°	155.7	4.9
90°-150°	204.5	6.5
90°-180°	212.0	6.7
0°-180°	3164.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1985	1985	1985	1985	1985	
5°	1995	1968	1897	1860	1841	190
15°	1945	1738	1398	1222	1156	549
25°	1817	1343	890	748	716	836
35°	1555	909	604	565	562	967
45°	1118	599	468	492	506	858
55°	642	393	362	401	415	580
65°	302	237	249	280	290	306
75°	118	123	168	197	206	127
85°	20	56	113	146	153	25
90°	0	38	91	124	129	1
95°	0	28	76	104	109	0
105°	0	20	51	73	80	0
115°	2	17	36	53	56	1
125°	2	13	30	38	42	2
135°	2	12	23	30	32	1
145°	2	8	17	23	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°	1984.9	1984.9	1984.9	1984.9	1984.9
1°	2001.5	1993.2	1971.6	1986.5	1983.2
2°	1999.8	1991.5	1966.6	1973.3	1961.7
3°	1998.1	1986.5	1948.4	1946.7	1930.2
4°	1996.5	1978.2	1925.2	1905.3	1892.0
5°	1994.8	1968.3	1897.0	1860.5	1840.6
6°	1993.2	1956.7	1860.5	1805.8	1777.6
7°	1989.8	1938.4	1822.4	1747.7	1711.3
8°	1986.5	1921.9	1774.3	1684.7	1640.0
9°	1983.2	1900.3	1726.2	1616.8	1563.7
10°	1976.6	1878.7	1676.4	1547.1	1490.7
11°	1973.3	1853.9	1628.4	1480.8	1414.4
12°	1966.6	1827.3	1577.0	1411.1	1353.1
13°	1960.0	1799.2	1513.9	1351.4	1281.8
14°	1953.4	1769.3	1459.2	1285.1	1220.4
15°	1945.1	1737.8	1397.9	1222.1	1155.8
16°	1936.8	1701.3	1343.1	1157.4	1087.8
17°	1928.5	1666.5	1291.7	1097.7	1034.7
18°	1918.5	1631.7	1232.0	1039.7	978.3
19°	1905.3	1591.9	1184.0	986.6	930.3
20°	1893.7	1555.4	1129.2	936.9	887.1
21°	1880.4	1510.6	1074.5	890.5	840.7
22.5°	1860.5	1447.6	1004.9	832.4	786.0
23°	1850.6	1429.4	976.7	810.9	771.1
24°	1837.3	1381.3	930.3	777.7	737.9
25°	1817.4	1343.1	890.5	747.9	716.3
26°	1799.2	1296.7	850.7	721.3	689.8
27°	1780.9	1251.9	815.8	693.1	666.6
28°	1757.7	1205.5	777.7	669.9	646.7
29°	1732.8	1162.4	746.2	650.0	631.8
30°	1708.0	1114.3	719.7	631.8	616.9
32.5°	1638.3	1008.2	651.7	597.0	587.0
35°	1555.4	908.7	603.6	565.4	562.1
37.5°	1462.5	817.5	560.5	540.6	543.9
40°	1353.1	734.6	524.0	522.3	529.0
42.5°	1237.0	663.3	495.8	507.4	517.4
45°	1117.6	598.6	467.6	492.5	505.8
47.5°	993.3	542.2	442.7	474.2	489.2
50°	867.2	487.5	416.2	452.7	467.6
52.5°	754.5	439.4	389.7	427.8	444.4
55°	641.7	393.0	361.5	401.3	414.6
57.5°	543.9	349.9	331.6	371.4	381.4
60°	452.7	308.4	301.8	338.3	349.9
62.5°	369.8	271.9	273.6	308.4	320.0
65°	301.8	237.1	248.7	280.2	290.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	245.4	204.0	223.9	257.0	265.3
70°	194.0	174.1	204.0	233.8	242.1
72.5°	154.2	147.6	184.1	215.6	222.2
75°	117.7	122.7	167.5	197.3	205.6
77.5°	84.6	102.8	150.9	182.4	189.0
80°	59.7	84.6	137.6	169.1	175.8
82.5°	38.1	69.6	124.4	157.5	164.2
85°	19.9	56.4	112.8	145.9	152.6
87.5°	8.3	46.4	101.2	134.3	140.9
90°	0.0	38.1	91.2	124.4	129.3
92.5°	0.0	33.2	82.9	114.4	119.4
95°	0.0	28.2	76.3	104.5	109.4
97.5°	0.0	26.5	68.0	96.2	101.2
100°	0.0	23.2	61.4	87.9	94.5
102.5°	0.0	21.6	56.4	79.6	86.2
105°	0.0	19.9	51.4	73.0	79.6
107.5°	0.0	18.2	48.1	68.0	73.0
110°	0.0	18.2	43.1	63.0	68.0
112.5°	1.7	16.6	39.8	56.4	61.4
115°	1.7	16.6	36.5	53.1	56.4
117.5°	1.7	16.6	34.8	48.1	51.4
120°	1.7	14.9	33.2	44.8	48.1
122.5°	1.7	14.9	31.5	41.5	43.1
125°	1.7	13.3	29.8	38.1	41.5
127.5°	1.7	13.3	28.2	36.5	38.1
130°	1.7	13.3	26.5	33.2	36.5
132.5°	1.7	11.6	24.9	31.5	33.2
135°	1.7	11.6	23.2	29.8	31.5
137.5°	1.7	9.9	21.6	28.2	29.8
140°	1.7	9.9	19.9	26.5	28.2
142.5°	1.7	8.3	18.2	24.9	26.5
145°	1.7	8.3	16.6	23.2	24.9
147.5°	1.7	8.3	14.9	21.6	23.2
150°	1.7	6.6	13.3	19.9	21.6
152.5°	1.7	6.6	11.6	18.2	19.9
155°	1.7	6.6	11.6	16.6	18.2
157.5°	1.7	5.0	9.9	13.3	16.6
160°	1.7	5.0	8.3	11.6	14.9
162.5°	1.7	5.0	8.3	9.9	11.6
165°	1.7	3.3	6.6	8.3	9.9
167.5°	1.7	3.3	5.0	6.6	8.3
170°	1.7	3.3	5.0	5.0	6.6
172.5°	1.7	3.3	3.3	3.3	3.3
175°	3.3	3.3	3.3	3.3	1.7
177.5°	3.3	3.3	3.3	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)