

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: P566253

Luminaire Tested: **4SNX-31SL-LN-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566253
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-L950-CD
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

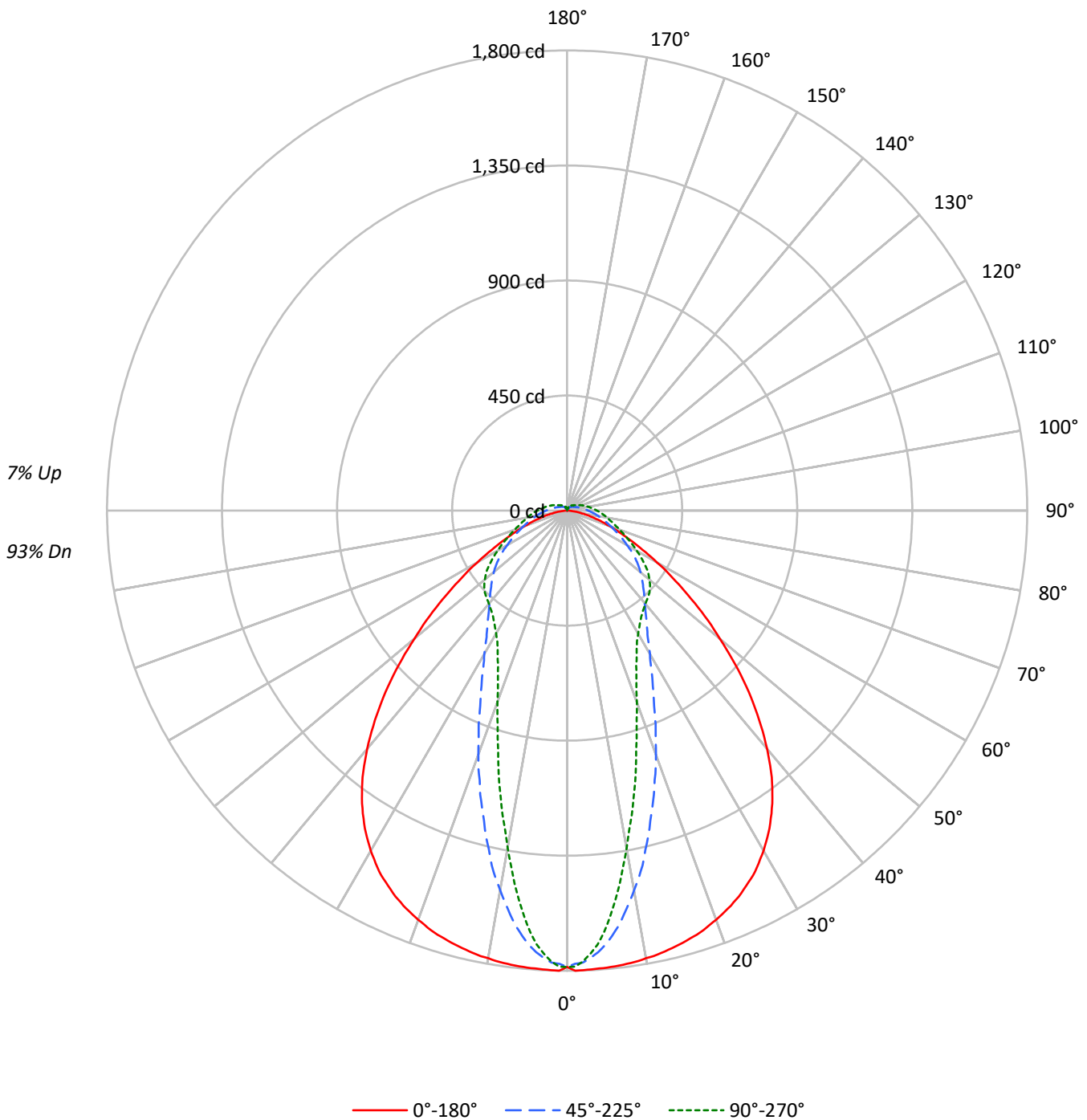
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2846.0 lumens
Efficiency: N/A
Efficacy: 145.9 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	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°	19218	19218	19218
5°	19317	17663	16903
10°	19291	15145	13114
15°	19282	12354	9829
20°	19219	9841	7356
25°	19045	7712	5837
30°	18646	6241	4980
35°	17863	5282	4529
40°	16524	4663	4287
45°	14691	4266	4155
50°	12445	3926	3925
55°	10224	3558	3585
60°	8176	3130	3144
65°	6348	2747	2736
70°	4928	2430	2421
75°	3812	2183	2206
80°	2692	1998	2050
85°	1497	1862	1966



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.1	5.6
10°-20°	370.6	13.0
20°-30°	439.9	15.5
30°-40°	442.6	15.6
40°-50°	411.4	14.5
50°-60°	338.8	11.9
60°-70°	238.7	8.4
70°-80°	156.0	5.5
80°-90°	99.6	3.5
90°-100°	65.3	2.3
100°-110°	44.3	1.6
110°-120°	30.4	1.1
120°-130°	21.0	0.7
130°-140°	14.1	0.5
140°-150°	8.7	0.3
150°-160°	4.5	0.2
160°-170°	1.6	0.1
170°-180°	0.3	0.0
0°-30°	968.6	34.0
0°-40°	1411.2	49.6
0°-60°	2161.4	75.9
0°-90°	2655.7	93.3
90°-120°	140.0	4.9
90°-150°	183.9	6.5
90°-180°	190.0	6.7
0°-180°	2846.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1785	1785	1785	1785	1785	
5°	1794	1770	1706	1674	1656	171
15°	1750	1563	1257	1099	1040	494
25°	1635	1208	801	673	644	752
35°	1399	817	543	509	506	870
45°	1005	538	421	443	455	772
55°	577	354	325	361	373	521
65°	272	213	224	252	261	275
75°	106	110	151	178	185	115
85°	18	51	101	131	137	23
90°	0	34	82	112	116	1
95°	0	25	69	94	98	0
105°	0	18	46	66	72	0
115°	2	15	33	48	51	1
125°	2	12	27	34	37	1
135°	2	10	21	27	28	1
145°	2	8	15	21	22	1
155°	2	6	10	15	16	1
165°	2	3	6	8	9	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°	1785.4	1785.4	1785.4	1785.4	1785.4
1°	1800.3	1792.8	1773.4	1786.9	1783.9
2°	1798.8	1791.3	1769.0	1774.9	1764.5
3°	1797.3	1786.9	1752.6	1751.1	1736.2
4°	1795.8	1779.4	1731.7	1713.8	1701.9
5°	1794.3	1770.5	1706.3	1673.5	1655.6
6°	1792.8	1760.0	1673.5	1624.3	1598.9
7°	1789.9	1743.6	1639.2	1572.1	1539.3
8°	1786.9	1728.7	1596.0	1515.4	1475.1
9°	1783.9	1709.3	1552.7	1454.3	1406.5
10°	1777.9	1689.9	1508.0	1391.6	1340.9
11°	1774.9	1667.5	1464.7	1332.0	1272.3
12°	1769.0	1643.7	1418.5	1269.3	1217.1
13°	1763.0	1618.3	1361.8	1215.6	1153.0
14°	1757.0	1591.5	1312.6	1155.9	1097.8
15°	1749.6	1563.1	1257.4	1099.3	1039.6
16°	1742.1	1530.3	1208.2	1041.1	978.5
17°	1734.7	1499.0	1161.9	987.4	930.7
18°	1725.7	1467.7	1108.2	935.2	880.0
19°	1713.8	1431.9	1065.0	887.5	836.8
20°	1703.3	1399.1	1015.7	842.7	798.0
21°	1691.4	1358.8	966.5	801.0	756.2
22.5°	1673.5	1302.1	903.9	748.8	707.0
23°	1664.6	1285.7	878.5	729.4	693.6
24°	1652.6	1242.5	836.8	699.5	663.7
25°	1634.7	1208.2	801.0	672.7	644.3
26°	1618.3	1166.4	765.2	648.8	620.5
27°	1601.9	1126.1	733.8	623.5	599.6
28°	1581.0	1084.4	699.5	602.6	581.7
29°	1558.7	1045.6	671.2	584.7	568.3
30°	1536.3	1002.3	647.3	568.3	554.9
32.5°	1473.6	906.9	586.2	537.0	528.0
35°	1399.1	817.4	542.9	508.6	505.6
37.5°	1315.5	735.3	504.1	486.2	489.2
40°	1217.1	660.8	471.3	469.8	475.8
42.5°	1112.7	596.6	446.0	456.4	465.4
45°	1005.3	538.4	420.6	443.0	454.9
47.5°	893.4	487.7	398.2	426.6	440.0
50°	780.1	438.5	374.4	407.2	420.6
52.5°	678.7	395.3	350.5	384.8	399.7
55°	577.2	353.5	325.2	361.0	372.9
57.5°	489.2	314.7	298.3	334.1	343.1
60°	407.2	277.4	271.5	304.3	314.7
62.5°	332.6	244.6	246.1	277.4	287.9
65°	271.5	213.3	223.7	252.1	261.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	220.7	183.5	201.4	231.2	238.6
70°	174.5	156.6	183.5	210.3	217.8
72.5°	138.7	132.7	165.6	193.9	199.9
75°	105.9	110.4	150.6	177.5	185.0
77.5°	76.1	92.5	135.7	164.1	170.0
80°	53.7	76.1	123.8	152.1	158.1
82.5°	34.3	62.6	111.9	141.7	147.7
85°	17.9	50.7	101.4	131.3	137.2
87.5°	7.5	41.8	91.0	120.8	126.8
90°	0.0	34.3	82.0	111.9	116.3
92.5°	0.0	29.8	74.6	102.9	107.4
95°	0.0	25.4	68.6	94.0	98.4
97.5°	0.0	23.9	61.2	86.5	91.0
100°	0.0	20.9	55.2	79.1	85.0
102.5°	0.0	19.4	50.7	71.6	77.6
105°	0.0	17.9	46.2	65.6	71.6
107.5°	0.0	16.4	43.3	61.2	65.6
110°	0.0	16.4	38.8	56.7	61.2
112.5°	1.5	14.9	35.8	50.7	55.2
115°	1.5	14.9	32.8	47.7	50.7
117.5°	1.5	14.9	31.3	43.3	46.2
120°	1.5	13.4	29.8	40.3	43.3
122.5°	1.5	13.4	28.3	37.3	38.8
125°	1.5	11.9	26.8	34.3	37.3
127.5°	1.5	11.9	25.4	32.8	34.3
130°	1.5	11.9	23.9	29.8	32.8
132.5°	1.5	10.4	22.4	28.3	29.8
135°	1.5	10.4	20.9	26.8	28.3
137.5°	1.5	8.9	19.4	25.4	26.8
140°	1.5	8.9	17.9	23.9	25.4
142.5°	1.5	7.5	16.4	22.4	23.9
145°	1.5	7.5	14.9	20.9	22.4
147.5°	1.5	7.5	13.4	19.4	20.9
150°	1.5	6.0	11.9	17.9	19.4
152.5°	1.5	6.0	10.4	16.4	17.9
155°	1.5	6.0	10.4	14.9	16.4
157.5°	1.5	4.5	8.9	11.9	14.9
160°	1.5	4.5	7.5	10.4	13.4
162.5°	1.5	4.5	7.5	8.9	10.4
165°	1.5	3.0	6.0	7.5	8.9
167.5°	1.5	3.0	4.5	6.0	7.5
170°	1.5	3.0	4.5	4.5	6.0
172.5°	1.5	3.0	3.0	3.0	3.0
175°	3.0	3.0	3.0	3.0	1.5
177.5°	3.0	3.0	3.0	1.5	1.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	1.5	1.5	1.5	1.5	1.5

(END OF REPORT)