

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: P566252

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566252
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-L940-CD
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

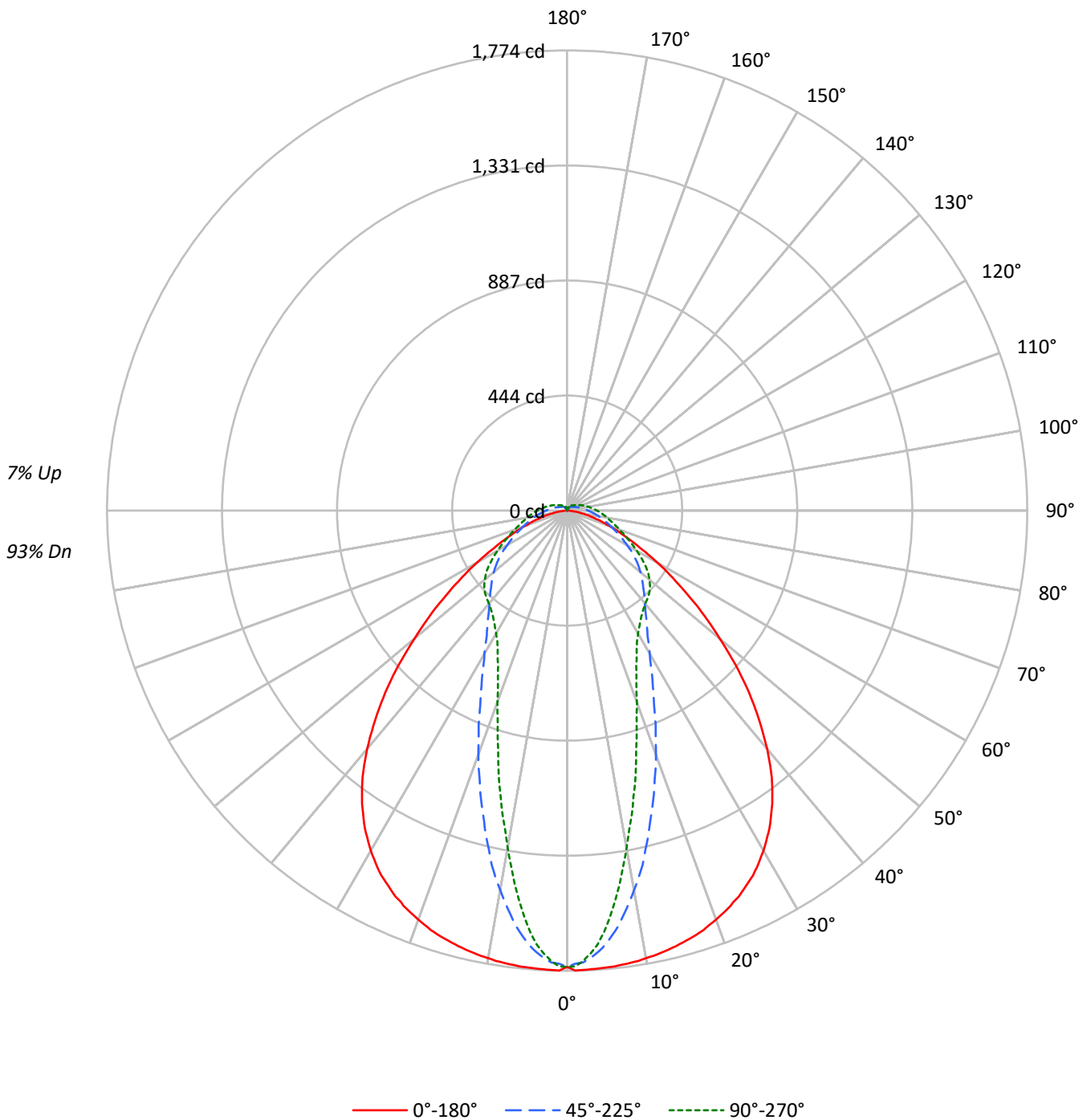
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2804.0 lumens
Efficiency: N/A
Efficacy: 143.8 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°	18934	18934	18934
5°	19033	17402	16654
10°	19006	14921	12921
15°	18997	12171	9684
20°	18936	9696	7247
25°	18764	7597	5751
30°	18371	6149	4906
35°	17599	5204	4463
40°	16280	4594	4224
45°	14475	4203	4094
50°	12262	3868	3867
55°	10073	3505	3532
60°	8056	3084	3098
65°	6254	2706	2696
70°	4854	2395	2385
75°	3754	2151	2172
80°	2652	1969	2020
85°	1472	1835	1937



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.8	5.6
10°-20°	365.1	13.0
20°-30°	433.4	15.5
30°-40°	436.1	15.6
40°-50°	405.4	14.5
50°-60°	333.8	11.9
60°-70°	235.2	8.4
70°-80°	153.6	5.5
80°-90°	98.1	3.5
90°-100°	64.3	2.3
100°-110°	43.7	1.6
110°-120°	29.9	1.1
120°-130°	20.7	0.7
130°-140°	13.9	0.5
140°-150°	8.6	0.3
150°-160°	4.5	0.2
160°-170°	1.6	0.1
170°-180°	0.3	0.0
0°-30°	954.3	34.0
0°-40°	1390.4	49.6
0°-60°	2129.5	75.9
0°-90°	2616.4	93.3
90°-120°	138.0	4.9
90°-150°	181.2	6.5
90°-180°	188.0	6.7
0°-180°	2804.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1759	1759	1759	1759	1759	
5°	1768	1744	1681	1649	1631	168
15°	1724	1540	1239	1083	1024	487
25°	1611	1190	789	663	635	741
35°	1378	805	535	501	498	857
45°	990	530	414	436	448	760
55°	569	348	320	356	367	514
65°	268	210	220	248	257	271
75°	104	109	148	175	182	113
85°	18	50	100	129	135	22
90°	0	34	81	110	115	1
95°	0	25	68	93	97	0
105°	0	18	46	65	70	0
115°	2	15	32	47	50	1
125°	2	12	26	34	37	1
135°	2	10	21	26	28	1
145°	2	7	15	21	22	1
155°	2	6	10	15	16	1
165°	2	3	6	7	9	0
175°	3	3	3	3	2	0
180°	2	2	2	2	2	



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CATALOG NUMBER: 4SNX-31SL-LN-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1759.0	1759.0	1759.0	1759.0	1759.0
1°	1773.7	1766.4	1747.3	1760.5	1757.6
2°	1772.3	1764.9	1742.9	1748.7	1738.5
3°	1770.8	1760.5	1726.7	1725.2	1710.5
4°	1769.3	1753.2	1706.1	1688.5	1676.7
5°	1767.9	1744.3	1681.1	1648.8	1631.2
6°	1766.4	1734.1	1648.8	1600.3	1575.3
7°	1763.4	1717.9	1615.0	1548.9	1516.6
8°	1760.5	1703.2	1572.4	1493.0	1453.4
9°	1757.6	1684.1	1529.8	1432.8	1385.8
10°	1751.7	1665.0	1485.7	1371.1	1321.1
11°	1748.7	1642.9	1443.1	1312.3	1253.5
12°	1742.9	1619.4	1397.5	1250.6	1199.1
13°	1737.0	1594.4	1341.7	1197.7	1136.0
14°	1731.1	1568.0	1293.2	1138.9	1081.6
15°	1723.8	1540.1	1238.8	1083.0	1024.3
16°	1716.4	1507.7	1190.3	1025.7	964.0
17°	1709.1	1476.9	1144.8	972.8	917.0
18°	1700.3	1446.0	1091.9	921.4	867.0
19°	1688.5	1410.8	1049.2	874.4	824.4
20°	1678.2	1378.4	1000.8	830.3	786.2
21°	1666.5	1338.7	952.3	789.1	745.1
22.5°	1648.8	1282.9	890.5	737.7	696.6
23°	1640.0	1266.7	865.6	718.6	683.3
24°	1628.2	1224.1	824.4	689.2	653.9
25°	1610.6	1190.3	789.1	662.8	634.8
26°	1594.4	1149.2	753.9	639.2	611.3
27°	1578.3	1109.5	723.0	614.3	590.8
28°	1557.7	1068.4	689.2	593.7	573.1
29°	1535.7	1030.1	661.3	576.1	559.9
30°	1513.6	987.5	637.8	559.9	546.7
32.5°	1451.9	893.5	577.5	529.0	520.2
35°	1378.4	805.3	534.9	501.1	498.2
37.5°	1296.1	724.5	496.7	479.1	482.0
40°	1199.1	651.0	464.4	462.9	468.8
42.5°	1096.3	587.8	439.4	449.7	458.5
45°	990.5	530.5	414.4	436.5	448.2
47.5°	880.3	480.5	392.4	420.3	433.5
50°	768.6	432.0	368.9	401.2	414.4
52.5°	668.6	389.4	345.3	379.1	393.8
55°	568.7	348.3	320.4	355.6	367.4
57.5°	482.0	310.1	293.9	329.2	338.0
60°	401.2	273.3	267.5	299.8	310.1
62.5°	327.7	241.0	242.5	273.3	283.6
65°	267.5	210.1	220.4	248.4	257.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	217.5	180.8	198.4	227.8	235.1
70°	171.9	154.3	180.8	207.2	214.6
72.5°	136.7	130.8	163.1	191.0	196.9
75°	104.3	108.7	148.4	174.9	182.2
77.5°	74.9	91.1	133.7	161.6	167.5
80°	52.9	74.9	122.0	149.9	155.8
82.5°	33.8	61.7	110.2	139.6	145.5
85°	17.6	50.0	99.9	129.3	135.2
87.5°	7.3	41.1	89.6	119.0	124.9
90°	0.0	33.8	80.8	110.2	114.6
92.5°	0.0	29.4	73.5	101.4	105.8
95°	0.0	25.0	67.6	92.6	97.0
97.5°	0.0	23.5	60.3	85.2	89.6
100°	0.0	20.6	54.4	77.9	83.8
102.5°	0.0	19.1	50.0	70.5	76.4
105°	0.0	17.6	45.6	64.7	70.5
107.5°	0.0	16.2	42.6	60.3	64.7
110°	0.0	16.2	38.2	55.8	60.3
112.5°	1.5	14.7	35.3	50.0	54.4
115°	1.5	14.7	32.3	47.0	50.0
117.5°	1.5	14.7	30.9	42.6	45.6
120°	1.5	13.2	29.4	39.7	42.6
122.5°	1.5	13.2	27.9	36.7	38.2
125°	1.5	11.8	26.5	33.8	36.7
127.5°	1.5	11.8	25.0	32.3	33.8
130°	1.5	11.8	23.5	29.4	32.3
132.5°	1.5	10.3	22.0	27.9	29.4
135°	1.5	10.3	20.6	26.5	27.9
137.5°	1.5	8.8	19.1	25.0	26.5
140°	1.5	8.8	17.6	23.5	25.0
142.5°	1.5	7.3	16.2	22.0	23.5
145°	1.5	7.3	14.7	20.6	22.0
147.5°	1.5	7.3	13.2	19.1	20.6
150°	1.5	5.9	11.8	17.6	19.1
152.5°	1.5	5.9	10.3	16.2	17.6
155°	1.5	5.9	10.3	14.7	16.2
157.5°	1.5	4.4	8.8	11.8	14.7
160°	1.5	4.4	7.3	10.3	13.2
162.5°	1.5	4.4	7.3	8.8	10.3
165°	1.5	2.9	5.9	7.3	8.8
167.5°	1.5	2.9	4.4	5.9	7.3
170°	1.5	2.9	4.4	4.4	5.9
172.5°	1.5	2.9	2.9	2.9	2.9
175°	2.9	2.9	2.9	2.9	1.5
177.5°	2.9	2.9	2.9	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)