

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: P566249

Luminaire Tested: **4SNX-31SL-LN-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566249
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-L850-CD
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

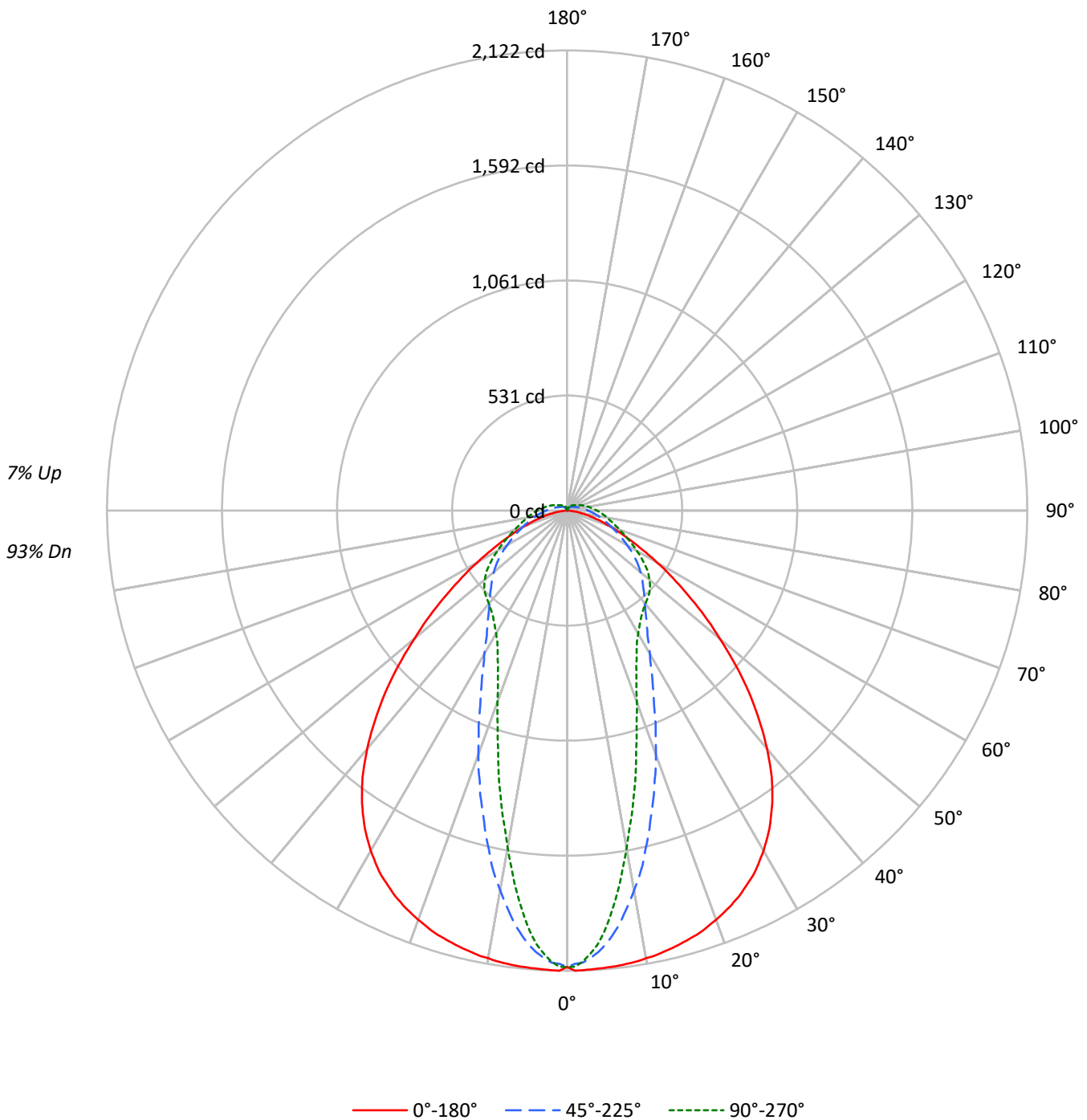
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3355.0 lumens
Efficiency: N/A
Efficacy: 172.1 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°	22655	22655	22655
5°	22772	20822	19926
10°	22741	17852	15460
15°	22730	14564	11587
20°	22657	11601	8671
25°	22451	9091	6882
30°	21982	7357	5870
35°	21058	6226	5340
40°	19480	5497	5054
45°	17319	5029	4898
50°	14671	4628	4627
55°	12053	4193	4226
60°	9638	3689	3707
65°	7482	3238	3225
70°	5809	2865	2853
75°	4492	2574	2599
80°	3174	2355	2417
85°	1765	2196	2318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.4	5.6
10°-20°	436.9	13.0
20°-30°	518.6	15.5
30°-40°	521.8	15.6
40°-50°	485.0	14.5
50°-60°	399.4	11.9
60°-70°	281.4	8.4
70°-80°	183.8	5.5
80°-90°	117.4	3.5
90°-100°	77.0	2.3
100°-110°	52.3	1.6
110°-120°	35.8	1.1
120°-130°	24.8	0.7
130°-140°	16.7	0.5
140°-150°	10.3	0.3
150°-160°	5.3	0.2
160°-170°	1.9	0.1
170°-180°	0.3	0.0
0°-30°	1141.9	34.0
0°-40°	1663.6	49.6
0°-60°	2548.0	75.9
0°-90°	3130.6	93.3
90°-120°	165.1	4.9
90°-150°	216.8	6.5
90°-180°	224.0	6.7
0°-180°	3355.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2105	2105	2105	2105	2105	
5°	2115	2087	2012	1973	1952	201
15°	2062	1843	1482	1296	1226	582
25°	1927	1424	944	793	760	887
35°	1649	964	640	600	596	1026
45°	1185	635	496	522	536	910
55°	680	417	383	426	440	615
65°	320	251	264	297	308	325
75°	125	130	178	209	218	135
85°	21	60	120	155	162	27
90°	0	40	97	132	137	1
95°	0	30	81	111	116	0
105°	0	21	54	77	84	0
115°	2	18	39	56	60	2
125°	2	14	32	40	44	2
135°	2	12	25	32	33	1
145°	2	9	18	25	26	1
155°	2	7	12	18	19	1
165°	2	4	7	9	10	1
175°	4	4	4	4	2	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2104.7	2104.7	2104.7	2104.7	2104.7
1°	2122.3	2113.5	2090.6	2106.5	2102.9
2°	2120.5	2111.7	2085.4	2092.4	2080.1
3°	2118.8	2106.5	2066.0	2064.3	2046.7
4°	2117.0	2097.7	2041.4	2020.3	2006.2
5°	2115.2	2087.1	2011.5	1972.8	1951.7
6°	2113.5	2074.8	1972.8	1914.8	1884.9
7°	2110.0	2055.5	1932.4	1853.3	1814.6
8°	2106.5	2037.9	1881.4	1786.4	1739.0
9°	2102.9	2015.0	1830.4	1714.3	1658.1
10°	2095.9	1992.2	1777.6	1640.5	1580.7
11°	2092.4	1965.8	1726.7	1570.2	1499.8
12°	2085.4	1937.7	1672.1	1496.3	1434.8
13°	2078.3	1907.8	1605.3	1433.0	1359.2
14°	2071.3	1876.1	1547.3	1362.7	1294.1
15°	2062.5	1842.7	1482.3	1295.9	1225.5
16°	2053.7	1804.0	1424.2	1227.3	1153.4
17°	2044.9	1767.1	1369.7	1164.0	1097.2
18°	2034.4	1730.2	1306.4	1102.5	1037.4
19°	2020.3	1688.0	1255.4	1046.2	986.4
20°	2008.0	1649.3	1197.4	993.4	940.7
21°	1993.9	1601.8	1139.4	944.2	891.5
22.5°	1972.8	1535.0	1065.5	882.7	833.4
23°	1962.3	1515.7	1035.6	859.8	817.6
24°	1948.2	1464.7	986.4	824.6	782.4
25°	1927.1	1424.2	944.2	793.0	759.6
26°	1907.8	1375.0	902.0	764.9	731.5
27°	1888.4	1327.5	865.1	735.0	706.8
28°	1863.8	1278.3	824.6	710.4	685.7
29°	1837.4	1232.6	791.2	689.3	669.9
30°	1811.1	1181.6	763.1	669.9	654.1
32.5°	1737.2	1069.0	691.0	633.0	622.4
35°	1649.3	963.6	640.0	599.6	596.1
37.5°	1550.8	866.8	594.3	573.2	576.7
40°	1434.8	778.9	555.6	553.9	560.9
42.5°	1311.7	703.3	525.7	538.0	548.6
45°	1185.1	634.7	495.8	522.2	536.3
47.5°	1053.2	575.0	469.5	502.9	518.7
50°	919.6	516.9	441.3	480.0	495.8
52.5°	800.0	466.0	413.2	453.6	471.2
55°	680.5	416.7	383.3	425.5	439.6
57.5°	576.7	371.0	351.7	393.9	404.4
60°	480.0	327.0	320.0	358.7	371.0
62.5°	392.1	288.4	290.1	327.0	339.4
65°	320.0	251.4	263.7	297.2	307.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	260.2	216.3	237.4	272.5	281.3
70°	205.7	184.6	216.3	247.9	256.7
72.5°	163.5	156.5	195.2	228.6	235.6
75°	124.8	130.1	177.6	209.2	218.0
77.5°	89.7	109.0	160.0	193.4	200.4
80°	63.3	89.7	145.9	179.3	186.4
82.5°	40.4	73.8	131.9	167.0	174.1
85°	21.1	59.8	119.6	154.7	161.8
87.5°	8.8	49.2	107.3	142.4	149.5
90°	0.0	40.4	96.7	131.9	137.1
92.5°	0.0	35.2	87.9	121.3	126.6
95°	0.0	29.9	80.9	110.8	116.0
97.5°	0.0	28.1	72.1	102.0	107.3
100°	0.0	24.6	65.1	93.2	100.2
102.5°	0.0	22.9	59.8	84.4	91.4
105°	0.0	21.1	54.5	77.4	84.4
107.5°	0.0	19.3	51.0	72.1	77.4
110°	0.0	19.3	45.7	66.8	72.1
112.5°	1.8	17.6	42.2	59.8	65.1
115°	1.8	17.6	38.7	56.3	59.8
117.5°	1.8	17.6	36.9	51.0	54.5
120°	1.8	15.8	35.2	47.5	51.0
122.5°	1.8	15.8	33.4	44.0	45.7
125°	1.8	14.1	31.6	40.4	44.0
127.5°	1.8	14.1	29.9	38.7	40.4
130°	1.8	14.1	28.1	35.2	38.7
132.5°	1.8	12.3	26.4	33.4	35.2
135°	1.8	12.3	24.6	31.6	33.4
137.5°	1.8	10.5	22.9	29.9	31.6
140°	1.8	10.5	21.1	28.1	29.9
142.5°	1.8	8.8	19.3	26.4	28.1
145°	1.8	8.8	17.6	24.6	26.4
147.5°	1.8	8.8	15.8	22.9	24.6
150°	1.8	7.0	14.1	21.1	22.9
152.5°	1.8	7.0	12.3	19.3	21.1
155°	1.8	7.0	12.3	17.6	19.3
157.5°	1.8	5.3	10.5	14.1	17.6
160°	1.8	5.3	8.8	12.3	15.8
162.5°	1.8	5.3	8.8	10.5	12.3
165°	1.8	3.5	7.0	8.8	10.5
167.5°	1.8	3.5	5.3	7.0	8.8
170°	1.8	3.5	5.3	5.3	7.0
172.5°	1.8	3.5	3.5	3.5	3.5
175°	3.5	3.5	3.5	3.5	1.8
177.5°	3.5	3.5	3.5	1.8	1.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	1.8	1.8	1.8	1.8	1.8

(END OF REPORT)