

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: P566537

Luminaire Tested: **4SNX-51SL-LN-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566537
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-51SL-LN-UNV-L850-CD
Description: 4FT 5100 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

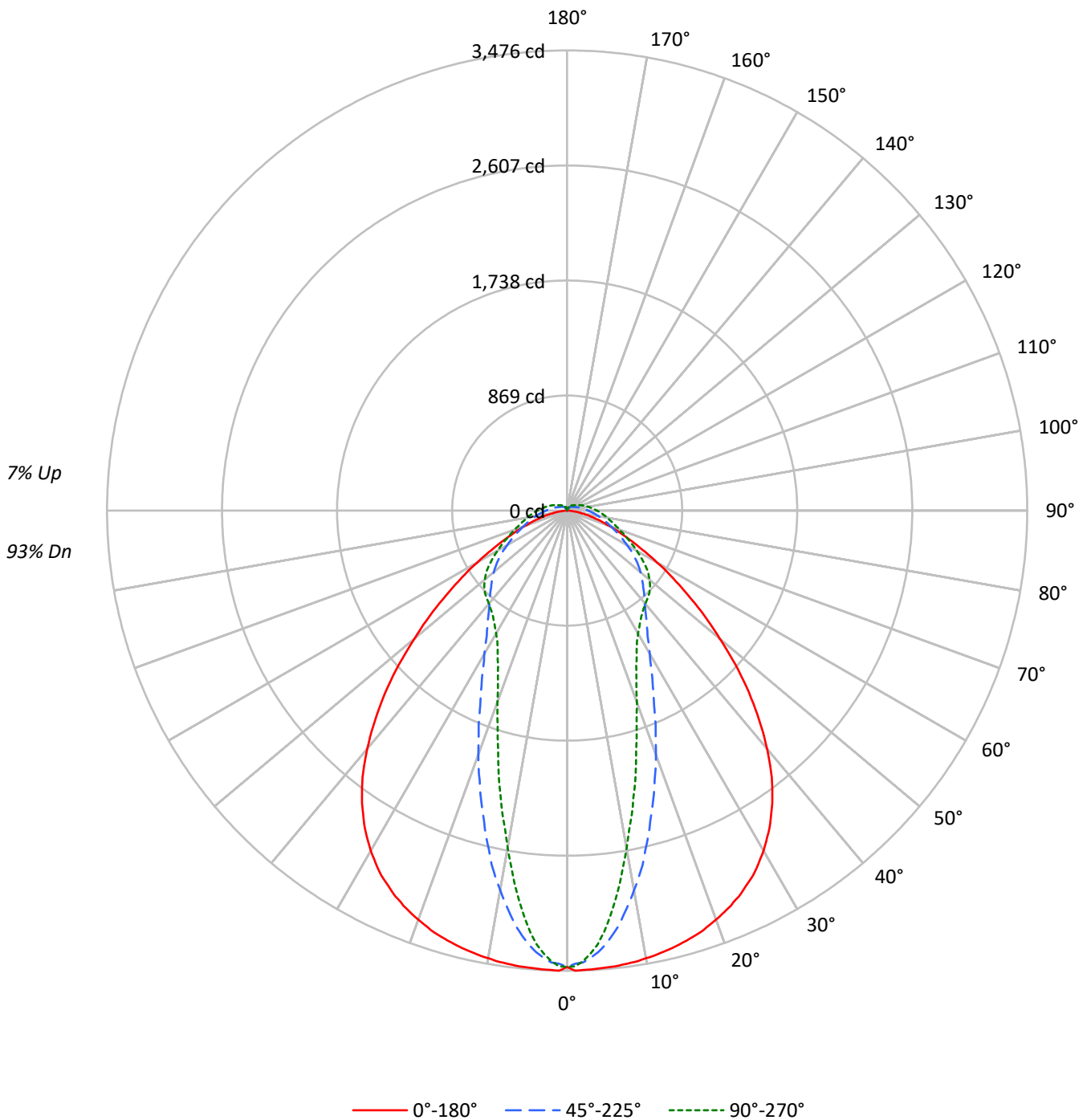
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5495.0 lumens
Efficiency: N/A
Efficacy: 157.0 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): 35
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°	37105	37105	37105
5°	37298	34103	32636
10°	37247	29240	25321
15°	37229	23852	18978
20°	37109	19001	14202
25°	36772	14890	11272
30°	36001	12050	9615
35°	34490	10198	8746
40°	31905	9003	8278
45°	28365	8237	8023
50°	24029	7579	7578
55°	19740	6868	6922
60°	15786	6041	6071
65°	12254	5305	5283
70°	9514	4691	4673
75°	7360	4216	4258
80°	5199	3857	3958
85°	2895	3596	3795



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.3	5.6
10°-20°	715.6	13.0
20°-30°	849.4	15.5
30°-40°	854.6	15.6
40°-50°	794.3	14.5
50°-60°	654.1	11.9
60°-70°	460.9	8.4
70°-80°	301.1	5.5
80°-90°	192.2	3.5
90°-100°	126.1	2.3
100°-110°	85.6	1.6
110°-120°	58.7	1.1
120°-130°	40.6	0.7
130°-140°	27.3	0.5
140°-150°	16.8	0.3
150°-160°	8.7	0.2
160°-170°	3.2	0.1
170°-180°	0.5	0.0
0°-30°	1870.2	34.0
0°-40°	2724.8	49.6
0°-60°	4173.2	75.9
0°-90°	5127.5	93.3
90°-120°	270.4	4.9
90°-150°	355.1	6.5
90°-180°	368.0	6.7
0°-180°	5495.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3447	3447	3447	3447	3447	
5°	3464	3418	3294	3231	3197	330
15°	3378	3018	2428	2122	2007	954
25°	3156	2333	1546	1299	1244	1452
35°	2701	1578	1048	982	976	1680
45°	1941	1040	812	855	878	1490
55°	1114	682	628	697	720	1007
65°	524	412	432	487	504	532
75°	204	213	291	343	357	221
85°	35	98	196	253	265	43
90°	0	66	158	216	225	2
95°	0	49	132	181	190	0
105°	0	35	89	127	138	0
115°	3	29	63	92	98	3
125°	3	23	52	66	72	3
135°	3	20	40	52	55	2
145°	3	14	29	40	43	2
155°	3	12	20	29	32	1
165°	3	6	12	14	17	1
175°	6	6	6	6	3	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3447.2	3447.2	3447.2	3447.2	3447.2
1°	3476.0	3461.6	3424.1	3450.1	3444.3
2°	3473.1	3458.7	3415.5	3427.0	3406.9
3°	3470.2	3450.1	3383.8	3380.9	3352.1
4°	3467.3	3435.7	3343.5	3308.9	3285.9
5°	3464.5	3418.4	3294.5	3231.2	3196.6
6°	3461.6	3398.2	3231.2	3136.2	3087.2
7°	3455.8	3366.5	3165.0	3035.4	2972.0
8°	3450.1	3337.7	3081.4	2925.9	2848.2
9°	3444.3	3300.3	2997.9	2807.9	2715.7
10°	3432.8	3262.9	2911.5	2686.9	2589.0
11°	3427.0	3219.7	2828.0	2571.7	2456.5
12°	3415.5	3173.6	2738.7	2450.8	2350.0
13°	3404.0	3124.6	2629.3	2347.1	2226.1
14°	3392.5	3072.8	2534.3	2231.9	2119.6
15°	3378.1	3018.1	2427.7	2122.4	2007.3
16°	3363.7	2954.7	2332.7	2010.1	1889.2
17°	3349.3	2894.2	2243.4	1906.5	1797.0
18°	3332.0	2833.8	2139.7	1805.7	1699.1
19°	3308.9	2764.7	2056.2	1713.5	1615.6
20°	3288.8	2701.3	1961.2	1627.1	1540.7
21°	3265.7	2623.5	1866.1	1546.5	1460.1
22.5°	3231.2	2514.1	1745.2	1445.7	1365.0
23°	3213.9	2482.4	1696.2	1408.2	1339.1
24°	3190.9	2398.9	1615.6	1350.6	1281.5
25°	3156.3	2332.7	1546.5	1298.8	1244.1
26°	3124.6	2252.0	1477.4	1252.7	1198.0
27°	3093.0	2174.3	1416.9	1203.8	1157.7
28°	3052.6	2093.6	1350.6	1163.5	1123.1
29°	3009.4	2018.8	1295.9	1128.9	1097.2
30°	2966.2	1935.3	1249.9	1097.2	1071.3
32.5°	2845.3	1750.9	1131.8	1036.7	1019.5
35°	2701.3	1578.2	1048.3	982.0	976.3
37.5°	2540.0	1419.8	973.4	938.8	944.6
40°	2350.0	1275.8	910.0	907.2	918.7
42.5°	2148.4	1151.9	861.1	881.2	898.5
45°	1941.0	1039.6	812.1	855.3	878.4
47.5°	1725.0	941.7	768.9	823.6	849.6
50°	1506.2	846.7	722.8	786.2	812.1
52.5°	1310.3	763.2	676.8	743.0	771.8
55°	1114.5	682.5	627.8	696.9	720.0
57.5°	944.6	607.6	576.0	645.1	662.4
60°	786.2	535.7	524.1	587.5	607.6
62.5°	642.2	472.3	475.2	535.7	555.8
65°	524.1	411.8	432.0	486.7	504.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	426.2	354.2	388.8	446.4	460.8
70°	336.9	302.4	354.2	406.1	420.5
72.5°	267.8	256.3	319.7	374.4	385.9
75°	204.5	213.1	290.9	342.7	357.1
77.5°	146.9	178.6	262.1	316.8	328.3
80°	103.7	146.9	239.0	293.7	305.3
82.5°	66.2	121.0	216.0	273.6	285.1
85°	34.6	97.9	195.8	253.4	264.9
87.5°	14.4	80.6	175.7	233.3	244.8
90°	0.0	66.2	158.4	216.0	224.6
92.5°	0.0	57.6	144.0	198.7	207.3
95°	0.0	49.0	132.5	181.4	190.1
97.5°	0.0	46.1	118.1	167.0	175.7
100°	0.0	40.3	106.6	152.6	164.2
102.5°	0.0	37.4	97.9	138.2	149.8
105°	0.0	34.6	89.3	126.7	138.2
107.5°	0.0	31.7	83.5	118.1	126.7
110°	0.0	31.7	74.9	109.4	118.1
112.5°	2.9	28.8	69.1	97.9	106.6
115°	2.9	28.8	63.4	92.2	97.9
117.5°	2.9	28.8	60.5	83.5	89.3
120°	2.9	25.9	57.6	77.8	83.5
122.5°	2.9	25.9	54.7	72.0	74.9
125°	2.9	23.0	51.8	66.2	72.0
127.5°	2.9	23.0	49.0	63.4	66.2
130°	2.9	23.0	46.1	57.6	63.4
132.5°	2.9	20.2	43.2	54.7	57.6
135°	2.9	20.2	40.3	51.8	54.7
137.5°	2.9	17.3	37.4	49.0	51.8
140°	2.9	17.3	34.6	46.1	49.0
142.5°	2.9	14.4	31.7	43.2	46.1
145°	2.9	14.4	28.8	40.3	43.2
147.5°	2.9	14.4	25.9	37.4	40.3
150°	2.9	11.5	23.0	34.6	37.4
152.5°	2.9	11.5	20.2	31.7	34.6
155°	2.9	11.5	20.2	28.8	31.7
157.5°	2.9	8.6	17.3	23.0	28.8
160°	2.9	8.6	14.4	20.2	25.9
162.5°	2.9	8.6	14.4	17.3	20.2
165°	2.9	5.8	11.5	14.4	17.3
167.5°	2.9	5.8	8.6	11.5	14.4
170°	2.9	5.8	8.6	8.6	11.5
172.5°	2.9	5.8	5.8	5.8	5.8
175°	5.8	5.8	5.8	5.8	2.9
177.5°	5.8	5.8	5.8	2.9	2.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	2.9	2.9	2.9	2.9	2.9

(END OF REPORT)