

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: P566105

Luminaire Tested: **4SNX-20SL-LN-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566105
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-20SL-LN-UNV-L850-CD
Description: 4FT 2000 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

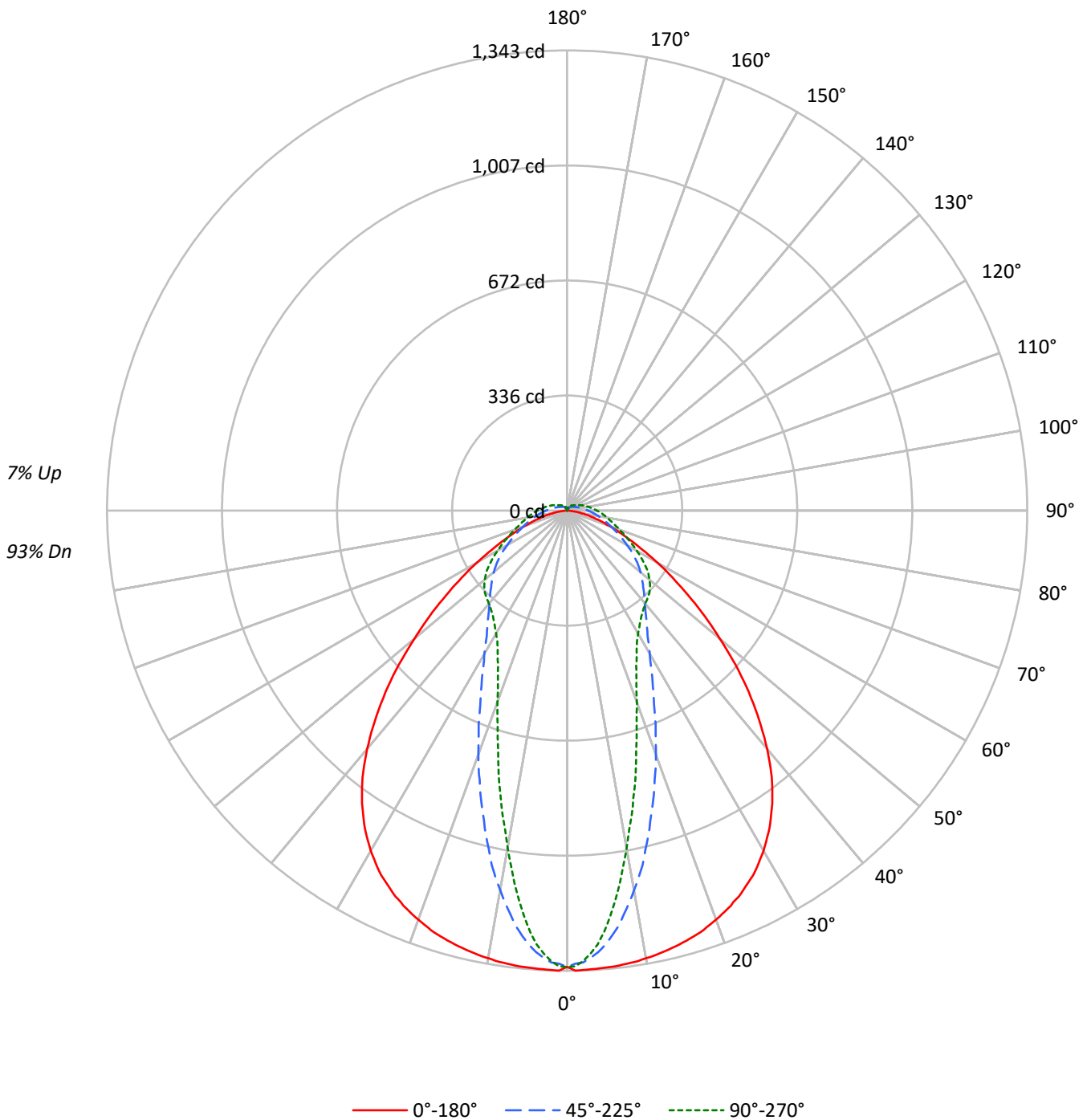
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2123.0 lumens
Efficiency: N/A
Efficacy: 175.5 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): 12.1
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°	14335	14335	14335
5°	14410	13176	12609
10°	14391	11297	9783
15°	14383	9215	7332
20°	14337	7341	5487
25°	14206	5753	4355
30°	13909	4656	3715
35°	13324	3940	3379
40°	12326	3478	3198
45°	10959	3183	3100
50°	9283	2929	2928
55°	7627	2654	2674
60°	6098	2334	2346
65°	4735	2049	2041
70°	3677	1813	1805
75°	2843	1629	1645
80°	2011	1490	1529
85°	1121	1390	1467



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.9	5.6
10°-20°	276.5	13.0
20°-30°	328.2	15.5
30°-40°	330.2	15.6
40°-50°	306.9	14.5
50°-60°	252.7	11.9
60°-70°	178.1	8.4
70°-80°	116.3	5.5
80°-90°	74.3	3.5
90°-100°	48.7	2.3
100°-110°	33.1	1.6
110°-120°	22.7	1.1
120°-130°	15.7	0.7
130°-140°	10.6	0.5
140°-150°	6.5	0.3
150°-160°	3.4	0.2
160°-170°	1.2	0.1
170°-180°	0.2	0.0
0°-30°	722.6	34.0
0°-40°	1052.7	49.6
0°-60°	1612.3	75.9
0°-90°	1981.0	93.3
90°-120°	104.5	4.9
90°-150°	137.2	6.5
90°-180°	142.0	6.7
0°-180°	2123.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1332	1332	1332	1332	1332	
5°	1338	1321	1273	1248	1235	127
15°	1305	1166	938	820	776	369
25°	1219	901	598	502	481	561
35°	1044	610	405	379	377	649
45°	750	402	314	330	339	576
55°	431	264	243	269	278	389
65°	202	159	167	188	195	205
75°	79	82	112	132	138	85
85°	13	38	76	98	102	17
90°	0	26	61	83	87	1
95°	0	19	51	70	73	0
105°	0	13	34	49	53	0
115°	1	11	24	36	38	1
125°	1	9	20	26	28	1
135°	1	8	16	20	21	1
145°	1	6	11	16	17	1
155°	1	4	8	11	12	1
165°	1	2	4	6	7	0
175°	2	2	2	2	1	0
180°	1	1	1	1	1	



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CATALOG NUMBER: 4SNX-20SL-LN-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1331.8	1331.8	1331.8	1331.8	1331.8
1°	1342.9	1337.4	1322.9	1332.9	1330.7
2°	1341.8	1336.3	1319.6	1324.0	1316.2
3°	1340.7	1332.9	1307.3	1306.2	1295.1
4°	1339.6	1327.4	1291.8	1278.4	1269.5
5°	1338.5	1320.7	1272.9	1248.4	1235.0
6°	1337.4	1312.9	1248.4	1211.7	1192.7
7°	1335.2	1300.7	1222.8	1172.7	1148.2
8°	1332.9	1289.5	1190.5	1130.4	1100.4
9°	1330.7	1275.1	1158.3	1084.8	1049.2
10°	1326.3	1260.6	1124.9	1038.1	1000.3
11°	1324.0	1243.9	1092.6	993.6	949.1
12°	1319.6	1226.1	1058.1	946.9	907.9
13°	1315.1	1207.2	1015.8	906.8	860.1
14°	1310.7	1187.2	979.1	862.3	818.9
15°	1305.1	1166.0	937.9	820.0	775.5
16°	1299.6	1141.6	901.2	776.6	729.9
17°	1294.0	1118.2	866.7	736.6	694.3
18°	1287.3	1094.8	826.7	697.6	656.5
19°	1278.4	1068.1	794.4	662.0	624.2
20°	1270.6	1043.6	757.7	628.6	595.3
21°	1261.7	1013.6	721.0	597.5	564.1
22.5°	1248.4	971.3	674.3	558.5	527.4
23°	1241.7	959.1	655.3	544.1	517.4
24°	1232.8	926.8	624.2	521.8	495.1
25°	1219.4	901.2	597.5	501.8	480.7
26°	1207.2	870.1	570.8	484.0	462.9
27°	1195.0	840.0	547.4	465.1	447.3
28°	1179.4	808.9	521.8	449.5	433.9
29°	1162.7	780.0	500.7	436.2	423.9
30°	1146.0	747.7	482.9	423.9	413.9
32.5°	1099.3	676.5	437.3	400.5	393.9
35°	1043.6	609.7	405.0	379.4	377.2
37.5°	981.3	548.5	376.1	362.7	364.9
40°	907.9	492.9	351.6	350.5	354.9
42.5°	830.0	445.1	332.7	340.5	347.1
45°	749.9	401.7	313.8	330.5	339.4
47.5°	666.5	363.8	297.1	318.2	328.2
50°	581.9	327.1	279.3	303.7	313.8
52.5°	506.2	294.8	261.5	287.1	298.2
55°	430.6	263.7	242.6	269.3	278.2
57.5°	364.9	234.8	222.5	249.2	255.9
60°	303.7	206.9	202.5	227.0	234.8
62.5°	248.1	182.5	183.6	206.9	214.7
65°	202.5	159.1	166.9	188.0	194.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	164.7	136.9	150.2	172.5	178.0
70°	130.2	116.8	136.9	156.9	162.4
72.5°	103.5	99.0	123.5	144.6	149.1
75°	79.0	82.3	112.4	132.4	138.0
77.5°	56.7	69.0	101.2	122.4	126.8
80°	40.1	56.7	92.3	113.5	117.9
82.5°	25.6	46.7	83.4	105.7	110.2
85°	13.4	37.8	75.7	97.9	102.4
87.5°	5.6	31.2	67.9	90.1	94.6
90°	0.0	25.6	61.2	83.4	86.8
92.5°	0.0	22.3	55.6	76.8	80.1
95°	0.0	18.9	51.2	70.1	73.4
97.5°	0.0	17.8	45.6	64.5	67.9
100°	0.0	15.6	41.2	59.0	63.4
102.5°	0.0	14.5	37.8	53.4	57.9
105°	0.0	13.4	34.5	49.0	53.4
107.5°	0.0	12.2	32.3	45.6	49.0
110°	0.0	12.2	28.9	42.3	45.6
112.5°	1.1	11.1	26.7	37.8	41.2
115°	1.1	11.1	24.5	35.6	37.8
117.5°	1.1	11.1	23.4	32.3	34.5
120°	1.1	10.0	22.3	30.0	32.3
122.5°	1.1	10.0	21.1	27.8	28.9
125°	1.1	8.9	20.0	25.6	27.8
127.5°	1.1	8.9	18.9	24.5	25.6
130°	1.1	8.9	17.8	22.3	24.5
132.5°	1.1	7.8	16.7	21.1	22.3
135°	1.1	7.8	15.6	20.0	21.1
137.5°	1.1	6.7	14.5	18.9	20.0
140°	1.1	6.7	13.4	17.8	18.9
142.5°	1.1	5.6	12.2	16.7	17.8
145°	1.1	5.6	11.1	15.6	16.7
147.5°	1.1	5.6	10.0	14.5	15.6
150°	1.1	4.5	8.9	13.4	14.5
152.5°	1.1	4.5	7.8	12.2	13.4
155°	1.1	4.5	7.8	11.1	12.2
157.5°	1.1	3.3	6.7	8.9	11.1
160°	1.1	3.3	5.6	7.8	10.0
162.5°	1.1	3.3	5.6	6.7	7.8
165°	1.1	2.2	4.5	5.6	6.7
167.5°	1.1	2.2	3.3	4.5	5.6
170°	1.1	2.2	3.3	3.3	4.5
172.5°	1.1	2.2	2.2	2.2	2.2
175°	2.2	2.2	2.2	2.2	1.1
177.5°	2.2	2.2	2.2	1.1	1.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	1.1	1.1	1.1	1.1	1.1

(END OF REPORT)