

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: P566104

Luminaire Tested: **4SNX-20SL-LN-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566104
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-L840-CD
Description: 4FT 2000 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

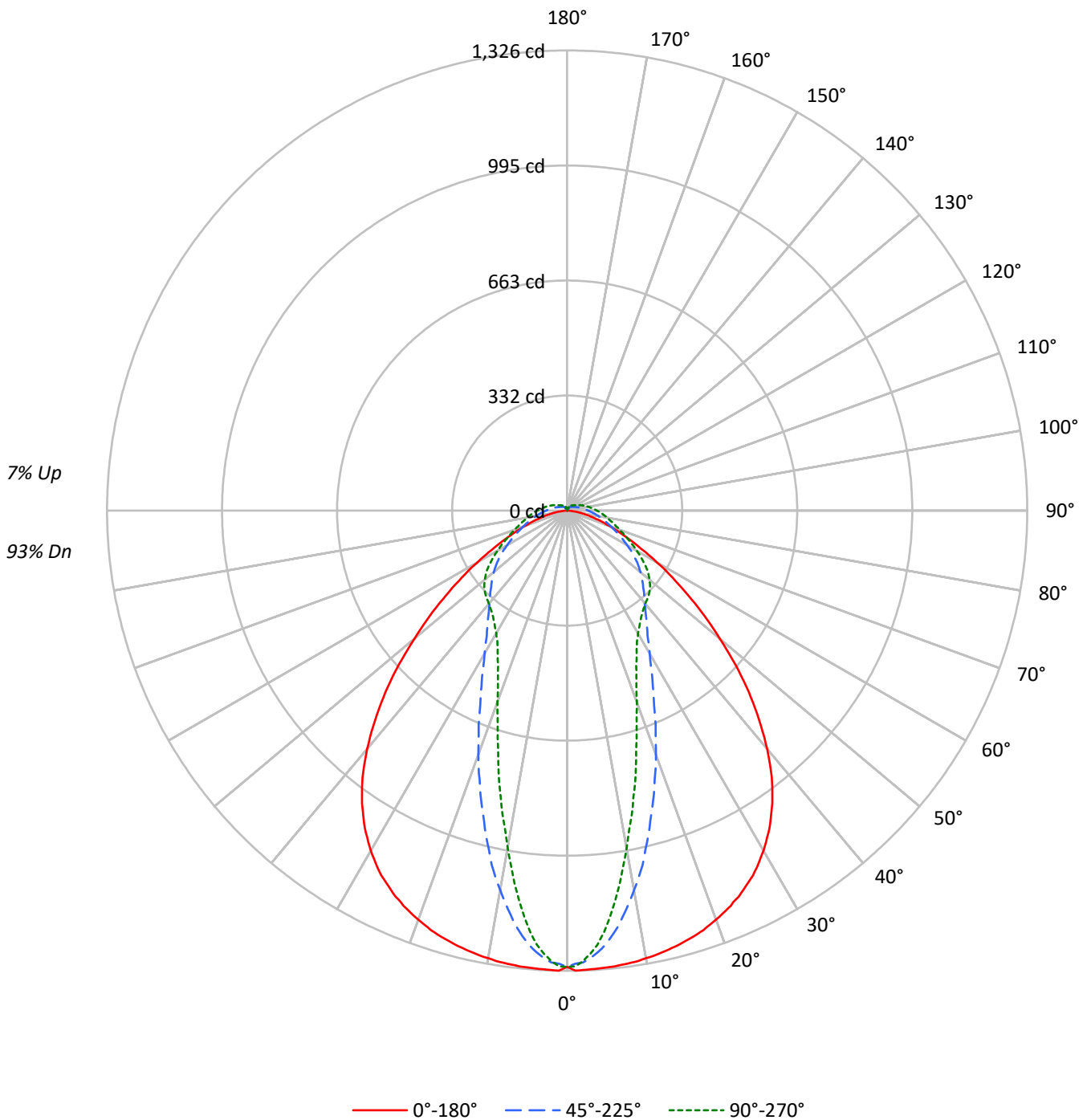
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2096.1 lumens
Efficiency: N/A
Efficacy: 173.2 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 (A_{in}): 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°	14153	14153	14153
5°	14227	13009	12448
10°	14207	11154	9658
15°	14200	9098	7238
20°	14155	7248	5417
25°	14026	5680	4299
30°	13732	4596	3667
35°	13156	3889	3336
40°	12170	3434	3157
45°	10820	3142	3060
50°	9165	2891	2891
55°	7529	2620	2640
60°	6022	2304	2316
65°	4674	2024	2015
70°	3629	1789	1783
75°	2807	1607	1624
80°	1980	1472	1509
85°	1104	1372	1448



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.4	5.6
10°-20°	272.9	13.0
20°-30°	324.0	15.5
30°-40°	326.0	15.6
40°-50°	303.0	14.5
50°-60°	249.5	11.9
60°-70°	175.8	8.4
70°-80°	114.9	5.5
80°-90°	73.3	3.5
90°-100°	48.1	2.3
100°-110°	32.6	1.6
110°-120°	22.4	1.1
120°-130°	15.5	0.7
130°-140°	10.4	0.5
140°-150°	6.4	0.3
150°-160°	3.3	0.2
160°-170°	1.2	0.1
170°-180°	0.2	0.0
0°-30°	713.4	34.0
0°-40°	1039.3	49.6
0°-60°	1591.8	75.9
0°-90°	1955.8	93.3
90°-120°	103.1	4.9
90°-150°	135.5	6.5
90°-180°	140.0	6.7
0°-180°	2096.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1315	1315	1315	1315	1315	
5°	1322	1304	1257	1232	1219	126
15°	1288	1151	926	810	766	364
25°	1204	890	590	495	474	554
35°	1030	602	400	375	372	641
45°	740	397	310	326	335	568
55°	425	260	240	266	275	384
65°	200	157	165	186	192	203
75°	78	81	111	131	136	84
85°	13	37	75	97	101	17
90°	0	25	60	82	86	1
95°	0	19	50	69	72	0
105°	0	13	34	48	53	0
115°	1	11	24	35	37	1
125°	1	9	20	25	28	1
135°	1	8	15	20	21	1
145°	1	6	11	15	16	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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1314.9	1314.9	1314.9	1314.9	1314.9
1°	1325.9	1320.4	1306.1	1316.0	1313.8
2°	1324.8	1319.3	1302.8	1307.2	1299.5
3°	1323.7	1316.0	1290.7	1289.6	1278.6
4°	1322.6	1310.5	1275.3	1262.2	1253.4
5°	1321.5	1303.9	1256.7	1232.5	1219.3
6°	1320.4	1296.2	1232.5	1196.2	1177.6
7°	1318.2	1284.1	1207.2	1157.8	1133.6
8°	1316.0	1273.1	1175.4	1116.1	1086.4
9°	1313.8	1258.9	1143.5	1071.0	1035.9
10°	1309.4	1244.6	1110.6	1024.9	987.5
11°	1307.2	1228.1	1078.7	980.9	937.0
12°	1302.8	1210.5	1044.7	934.8	896.4
13°	1298.4	1191.9	1002.9	895.3	849.1
14°	1294.0	1172.1	966.7	851.3	808.5
15°	1288.5	1151.2	926.0	809.6	765.6
16°	1283.0	1127.0	889.8	766.7	720.6
17°	1277.5	1104.0	855.7	727.2	685.5
18°	1270.9	1080.9	816.2	688.7	648.1
19°	1262.2	1054.5	784.3	653.6	616.2
20°	1254.5	1030.4	748.1	620.6	587.7
21°	1245.7	1000.7	711.8	589.9	556.9
22.5°	1232.5	959.0	665.7	551.4	520.7
23°	1225.9	946.9	647.0	537.2	510.8
24°	1217.1	915.0	616.2	515.2	488.8
25°	1203.9	889.8	589.9	495.4	474.5
26°	1191.9	859.0	563.5	477.8	457.0
27°	1179.8	829.4	540.5	459.2	441.6
28°	1164.4	798.6	515.2	443.8	428.4
29°	1147.9	770.0	494.3	430.6	418.5
30°	1131.4	738.2	476.7	418.5	408.6
32.5°	1085.3	667.9	431.7	395.5	388.9
35°	1030.4	602.0	399.8	374.6	372.4
37.5°	968.9	541.6	371.3	358.1	360.3
40°	896.4	486.6	347.1	346.0	350.4
42.5°	819.5	439.4	328.4	336.1	342.7
45°	740.4	396.6	309.8	326.2	335.0
47.5°	658.0	359.2	293.3	314.2	324.1
50°	574.5	323.0	275.7	299.9	309.8
52.5°	499.8	291.1	258.1	283.4	294.4
55°	425.1	260.3	239.5	265.8	274.6
57.5°	360.3	231.8	219.7	246.1	252.7
60°	299.9	204.3	199.9	224.1	231.8
62.5°	245.0	180.2	181.2	204.3	212.0
65°	199.9	157.1	164.8	185.6	192.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	162.6	135.1	148.3	170.3	175.8
70°	128.5	115.3	135.1	154.9	160.4
72.5°	102.2	97.8	121.9	142.8	147.2
75°	78.0	81.3	110.9	130.7	136.2
77.5°	56.0	68.1	100.0	120.8	125.2
80°	39.5	56.0	91.2	112.0	116.4
82.5°	25.3	46.1	82.4	104.4	108.7
85°	13.2	37.3	74.7	96.7	101.1
87.5°	5.5	30.8	67.0	89.0	93.4
90°	0.0	25.3	60.4	82.4	85.7
92.5°	0.0	22.0	54.9	75.8	79.1
95°	0.0	18.7	50.5	69.2	72.5
97.5°	0.0	17.6	45.0	63.7	67.0
100°	0.0	15.4	40.6	58.2	62.6
102.5°	0.0	14.3	37.3	52.7	57.1
105°	0.0	13.2	34.1	48.3	52.7
107.5°	0.0	12.1	31.9	45.0	48.3
110°	0.0	12.1	28.6	41.7	45.0
112.5°	1.1	11.0	26.4	37.3	40.6
115°	1.1	11.0	24.2	35.2	37.3
117.5°	1.1	11.0	23.1	31.9	34.1
120°	1.1	9.9	22.0	29.7	31.9
122.5°	1.1	9.9	20.9	27.5	28.6
125°	1.1	8.8	19.8	25.3	27.5
127.5°	1.1	8.8	18.7	24.2	25.3
130°	1.1	8.8	17.6	22.0	24.2
132.5°	1.1	7.7	16.5	20.9	22.0
135°	1.1	7.7	15.4	19.8	20.9
137.5°	1.1	6.6	14.3	18.7	19.8
140°	1.1	6.6	13.2	17.6	18.7
142.5°	1.1	5.5	12.1	16.5	17.6
145°	1.1	5.5	11.0	15.4	16.5
147.5°	1.1	5.5	9.9	14.3	15.4
150°	1.1	4.4	8.8	13.2	14.3
152.5°	1.1	4.4	7.7	12.1	13.2
155°	1.1	4.4	7.7	11.0	12.1
157.5°	1.1	3.3	6.6	8.8	11.0
160°	1.1	3.3	5.5	7.7	9.9
162.5°	1.1	3.3	5.5	6.6	7.7
165°	1.1	2.2	4.4	5.5	6.6
167.5°	1.1	2.2	3.3	4.4	5.5
170°	1.1	2.2	3.3	3.3	4.4
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)