

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: P568028

Luminaire Tested: **8SNX-82SL-LC-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P568028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-82SL-LC-UNV-L840-CD
Description: 8FT 8200 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

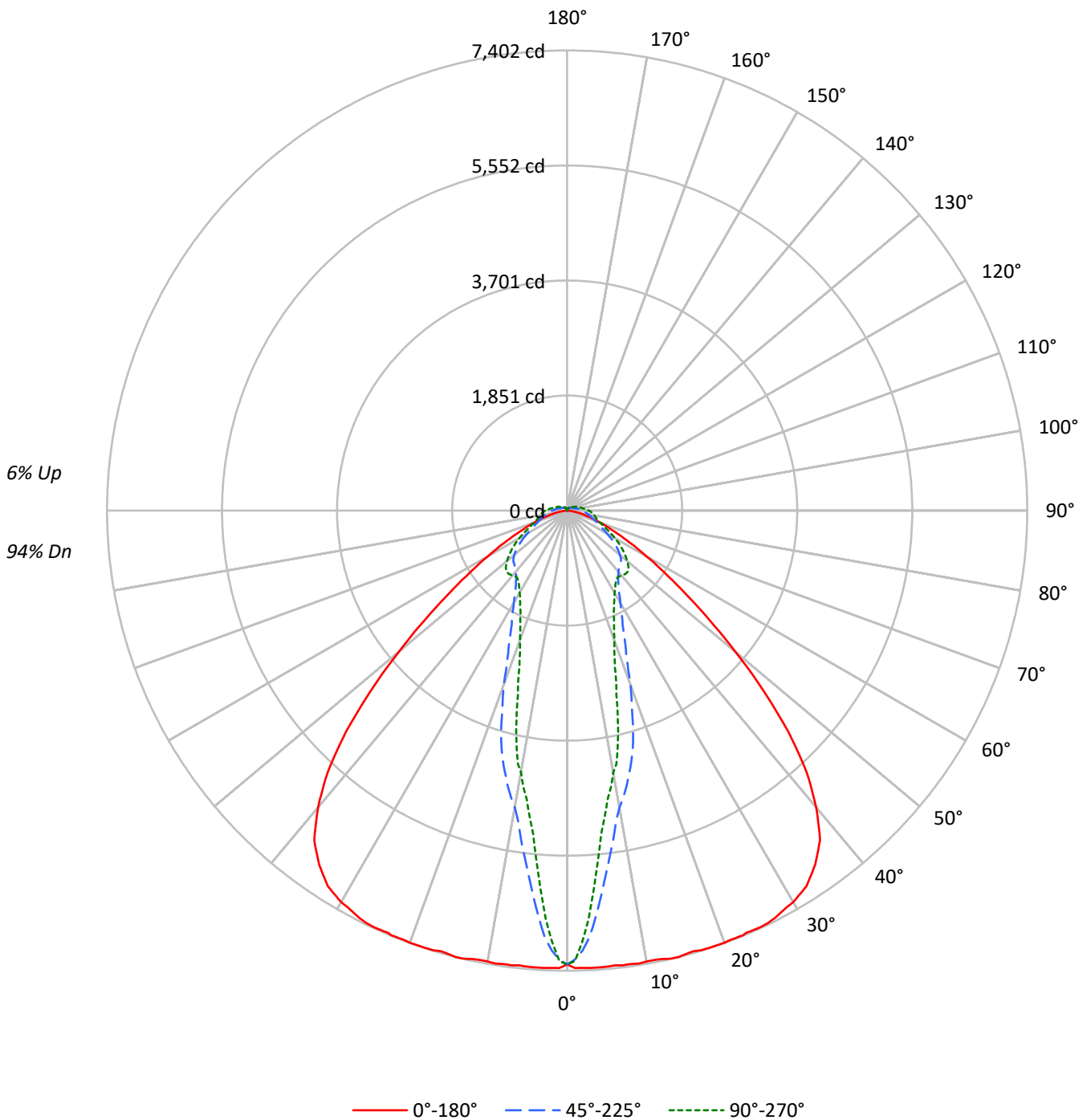
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8999.0 lumens
Efficiency: N/A
Efficacy: 171.1 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 0.43 / 0.61
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 52.6
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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94				
1	108	103	99	96	105	101	97	94	95	92	90	90	88	86	86	84	82	80				
2	99	92	86	80	96	89	84	79	85	80	76	81	77	74	77	74	71	69				
3	92	82	75	69	89	80	73	68	76	71	66	73	68	64	70	66	62	60				
4	85	74	66	60	82	72	65	59	69	63	58	66	61	56	63	59	55	53				
5	79	67	59	53	76	66	58	52	63	56	51	60	55	50	58	53	49	47				
6	73	61	53	47	71	60	52	47	58	51	46	56	50	45	53	48	44	42				
7	69	56	48	43	67	55	48	42	53	46	42	51	45	41	50	44	40	38				
8	64	52	44	39	63	51	44	39	49	43	38	48	42	37	46	41	37	35				
9	61	48	41	36	59	47	40	35	46	39	35	44	39	34	43	38	34	32				
10	57	45	38	33	56	44	37	33	43	37	32	42	36	32	40	35	31	30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	39290	39290	39290
5°	39717	32311	28886
10°	40102	24421	20906
15°	40911	19983	14476
20°	42048	14475	10224
25°	43450	10381	8043
30°	44660	8303	6850
35°	45035	7030	6135
40°	43053	6398	6150
45°	37479	6188	6318
50°	28861	5892	5896
55°	21011	5159	5232
60°	15332	4312	4424
65°	11244	3652	3626
70°	8374	3231	3126
75°	6051	2998	2914
80°	4091	2816	2870
85°	2070	2693	2874



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.1	6.4
10°-20°	1246.7	13.9
20°-30°	1427.1	15.9
30°-40°	1429.6	15.9
40°-50°	1353.3	15.0
50°-60°	1037.9	11.5
60°-70°	669.0	7.4
70°-80°	426.6	4.7
80°-90°	283.3	3.1
90°-100°	190.4	2.1
100°-110°	125.5	1.4
110°-120°	87.3	1.0
120°-130°	60.9	0.7
130°-140°	42.3	0.5
140°-150°	25.9	0.3
150°-160°	13.1	0.1
160°-170°	5.1	0.1
170°-180°	1.0	0.0
0°-30°	3247.9	36.1
0°-40°	4677.5	52.0
0°-60°	7068.7	78.6
0°-90°	8447.6	93.9
90°-120°	403.2	4.5
90°-150°	532.2	5.9
90°-180°	551.0	6.1
0°-180°	8999.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7300	7300	7300	7300	7300	
5°	7365	6959	6235	5815	5659	703
15°	7383	5317	4054	3330	3062	2094
25°	7388	3763	2144	1863	1776	3406
35°	6954	2094	1434	1388	1370	4315
45°	5027	1324	1208	1337	1384	3822
55°	2306	945	932	1047	1088	2120
65°	922	595	586	669	692	949
75°	314	323	406	466	489	345
85°	42	148	286	374	401	57
90°	0	102	240	332	346	2
95°	0	74	198	272	286	0
105°	0	55	129	184	198	3
115°	5	46	97	134	143	5
125°	5	42	83	97	102	4
135°	5	32	65	78	83	4
145°	5	23	46	60	65	3
155°	5	14	28	42	46	2
165°	9	9	18	23	28	2
175°	9	9	9	9	5	1
180°	9	9	9	9	9	



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CATALOG NUMBER: 8SNX-82SL-LC-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7300.4	7300.4	7300.4	7300.4	7300.4
1°	7360.4	7318.9	7222.0	7249.7	7245.1
2°	7360.4	7272.8	7083.7	7028.3	6945.3
3°	7365.0	7194.4	6871.5	6691.7	6576.4
4°	7365.0	7079.1	6557.9	6258.2	6110.6
5°	7365.0	6959.2	6235.1	5815.4	5658.6
6°	7355.8	6816.2	5907.7	5464.9	5229.7
7°	7369.6	6659.4	5612.5	5137.5	4953.0
8°	7365.0	6474.9	5340.4	4888.5	4685.6
9°	7378.8	6295.1	5045.3	4653.3	4501.1
10°	7365.0	6129.0	4851.6	4431.9	4275.1
11°	7365.0	5967.6	4713.2	4288.9	4155.2
12°	7374.2	5783.2	4561.0	4086.0	3901.6
13°	7397.3	5594.1	4385.8	3864.7	3647.9
14°	7401.9	5451.1	4224.4	3583.3	3357.4
15°	7383.4	5317.4	4053.7	3329.7	3062.2
16°	7374.2	5179.0	3850.8	3089.9	2850.1
17°	7392.7	5017.6	3620.2	2845.5	2624.1
18°	7397.3	4870.0	3375.8	2661.0	2467.3
19°	7397.3	4754.7	3177.5	2490.4	2324.3
20°	7397.3	4644.0	2974.6	2361.2	2218.3
21°	7388.0	4505.7	2744.0	2227.5	2107.6
22.5°	7392.7	4247.4	2481.1	2070.7	1973.8
23°	7378.8	4182.9	2416.6	2029.2	1927.7
24°	7383.4	3998.4	2278.2	1946.2	1849.3
25°	7388.0	3763.2	2144.5	1863.2	1775.5
26°	7378.8	3574.1	2033.8	1784.8	1724.8
27°	7355.8	3421.9	1955.4	1720.2	1664.8
28°	7323.5	3219.0	1872.4	1664.8	1614.1
29°	7291.2	2988.4	1789.4	1604.9	1568.0
30°	7272.8	2804.0	1711.0	1558.8	1526.5
32.5°	7162.1	2439.6	1549.6	1466.5	1438.9
35°	6954.5	2093.7	1434.3	1388.1	1369.7
37.5°	6682.4	1826.3	1346.6	1337.4	1342.0
40°	6235.1	1614.1	1282.1	1323.6	1365.1
42.5°	5700.1	1448.1	1236.0	1337.4	1383.5
45°	5026.8	1323.6	1208.3	1337.4	1383.5
47.5°	4279.7	1222.1	1176.0	1291.3	1337.4
50°	3532.6	1129.9	1111.4	1222.1	1263.6
52.5°	2873.1	1042.3	1028.4	1134.5	1176.0
55°	2305.9	945.4	931.6	1046.9	1088.4
57.5°	1849.3	853.2	839.3	945.4	986.9
60°	1475.8	760.9	737.9	844.0	885.5
62.5°	1176.0	673.3	659.5	751.7	788.6
65°	922.4	594.9	585.7	668.7	691.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	728.7	521.1	525.7	594.9	622.6
70°	562.6	452.0	479.6	544.2	562.6
72.5°	424.3	382.8	442.7	498.1	521.1
75°	313.6	322.8	405.8	465.8	488.8
77.5°	216.8	267.5	373.6	438.1	461.2
80°	147.6	216.8	341.3	415.1	442.7
82.5°	87.6	179.9	313.6	392.0	424.3
85°	41.5	147.6	285.9	373.6	401.2
87.5°	13.8	119.9	258.3	355.1	378.2
90°	0.0	101.5	239.8	332.0	345.9
92.5°	0.0	87.6	216.8	304.4	313.6
95°	0.0	73.8	198.3	272.1	285.9
97.5°	0.0	69.2	184.5	244.4	262.9
100°	0.0	64.6	166.0	221.4	239.8
102.5°	0.0	55.3	147.6	198.3	216.8
105°	0.0	55.3	129.1	184.5	198.3
107.5°	4.6	50.7	119.9	166.0	184.5
110°	4.6	50.7	106.1	156.8	170.6
112.5°	4.6	50.7	101.5	143.0	161.4
115°	4.6	46.1	96.8	133.7	143.0
117.5°	4.6	46.1	92.2	119.9	129.1
120°	4.6	41.5	87.6	110.7	115.3
122.5°	4.6	41.5	83.0	101.5	106.1
125°	4.6	41.5	83.0	96.8	101.5
127.5°	4.6	36.9	78.4	92.2	92.2
130°	4.6	36.9	73.8	87.6	87.6
132.5°	4.6	32.3	69.2	83.0	87.6
135°	4.6	32.3	64.6	78.4	83.0
137.5°	4.6	27.7	60.0	73.8	78.4
140°	4.6	27.7	55.3	69.2	73.8
142.5°	4.6	23.1	50.7	64.6	69.2
145°	4.6	23.1	46.1	60.0	64.6
147.5°	4.6	23.1	41.5	55.3	60.0
150°	4.6	18.4	36.9	50.7	55.3
152.5°	4.6	18.4	32.3	46.1	50.7
155°	4.6	13.8	27.7	41.5	46.1
157.5°	4.6	13.8	27.7	36.9	41.5
160°	9.2	13.8	23.1	32.3	36.9
162.5°	4.6	9.2	23.1	27.7	32.3
165°	9.2	9.2	18.4	23.1	27.7
167.5°	9.2	9.2	13.8	18.4	23.1
170°	9.2	9.2	13.8	13.8	18.4
172.5°	9.2	9.2	9.2	13.8	9.2
175°	9.2	9.2	9.2	9.2	4.6
177.5°	9.2	9.2	9.2	9.2	4.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	9.2	9.2	9.2	9.2	9.2

(END OF REPORT)