

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: P568029

Luminaire Tested: **8SNX-82SL-LC-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P568029  
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-L850-CD  
Description: 8FT 8200 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

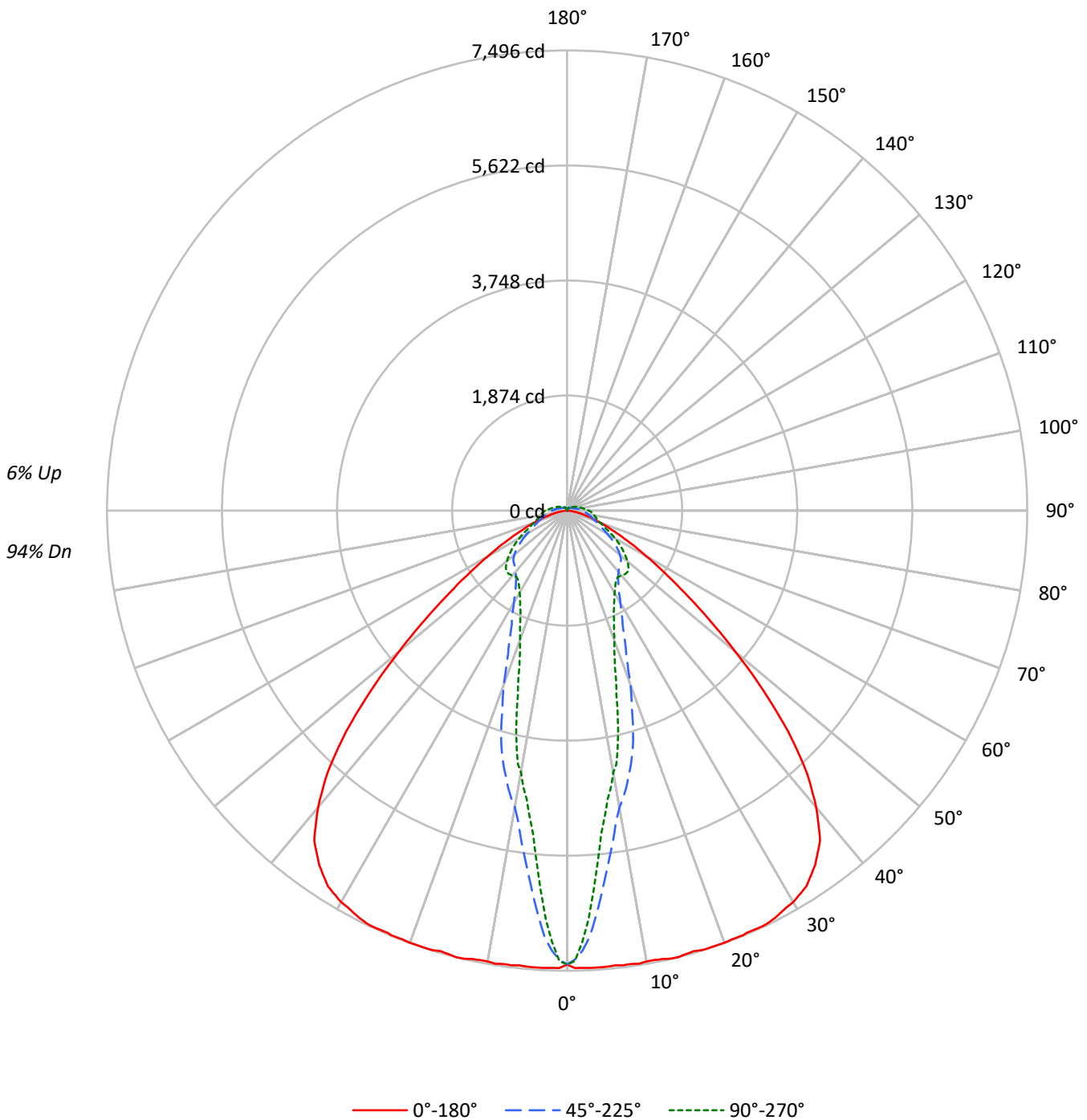
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9114.0 lumens  
Efficiency: N/A  
Efficacy: 173.3 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<sub>in</sub>): 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

TEST NUMBER: P568029

CATALOG NUMBER: 8SNX-82SL-LC-UNV-L850-CD

### 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°	39793	39793	39793
5°	40225	32724	29255
10°	40615	24733	21173
15°	41434	20239	14661
20°	42585	14660	10355
25°	44006	10514	8146
30°	45230	8409	6937
35°	45611	7120	6214
40°	43603	6480	6229
45°	37959	6267	6399
50°	29231	5967	5971
55°	21280	5225	5298
60°	15527	4367	4480
65°	11387	3698	3672
70°	8481	3273	3166
75°	6128	3037	2952
80°	4144	2851	2907
85°	2095	2727	2911



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	581.5	6.4
10°-20°	1262.7	13.9
20°-30°	1445.3	15.9
30°-40°	1447.9	15.9
40°-50°	1370.6	15.0
50°-60°	1051.2	11.5
60°-70°	677.5	7.4
70°-80°	432.1	4.7
80°-90°	286.9	3.1
90°-100°	192.9	2.1
100°-110°	127.1	1.4
110°-120°	88.4	1.0
120°-130°	61.7	0.7
130°-140°	42.8	0.5
140°-150°	26.2	0.3
150°-160°	13.3	0.1
160°-170°	5.1	0.1
170°-180°	1.0	0.0
0°-30°	3289.4	36.1
0°-40°	4737.3	52.0
0°-60°	7159.1	78.6
0°-90°	8555.6	93.9
90°-120°	408.3	4.5
90°-150°	539.0	5.9
90°-180°	558.0	6.1
0°-180°	9114.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7394	7394	7394	7394	7394	
5°	7459	7048	6315	5890	5731	712
15°	7478	5385	4106	3372	3101	2121
25°	7482	3811	2172	1887	1798	3449
35°	7043	2120	1453	1406	1387	4370
45°	5091	1340	1224	1354	1401	3871
55°	2335	958	944	1060	1102	2148
65°	934	602	593	677	701	961
75°	318	327	411	472	495	349
85°	42	150	290	378	406	58
90°	0	103	243	336	350	2
95°	0	75	201	276	290	0
105°	0	56	131	187	201	3
115°	5	47	98	136	145	5
125°	5	42	84	98	103	4
135°	5	33	65	79	84	4
145°	5	23	47	61	65	3
155°	5	14	28	42	47	2
165°	9	9	19	23	28	2
175°	9	9	9	9	5	1
180°	9	9	9	9	9	



TEST NUMBER: P568029

CATALOG NUMBER: 8SNX-82SL-LC-UNV-L850-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7393.7	7393.7	7393.7	7393.7	7393.7
1°	7454.4	7412.4	7314.3	7342.3	7337.7
2°	7454.4	7365.7	7174.2	7118.1	7034.1
3°	7459.1	7286.3	6959.3	6777.2	6660.4
4°	7459.1	7169.5	6641.7	6338.1	6188.7
5°	7459.1	7048.1	6314.8	5889.8	5730.9
6°	7449.8	6903.3	5983.2	5534.8	5296.6
7°	7463.8	6744.5	5684.2	5203.2	5016.3
8°	7459.1	6557.7	5408.7	4950.9	4745.4
9°	7473.1	6375.5	5109.7	4712.7	4558.6
10°	7459.1	6207.4	4913.6	4488.5	4329.7
11°	7459.1	6043.9	4773.5	4343.8	4208.3
12°	7468.5	5857.1	4619.3	4138.2	3951.4
13°	7491.8	5665.6	4441.8	3914.0	3694.5
14°	7496.5	5520.8	4278.4	3629.1	3400.3
15°	7477.8	5385.3	4105.5	3372.2	3101.3
16°	7468.5	5245.2	3900.0	3129.4	2886.5
17°	7487.1	5081.7	3666.5	2881.8	2657.6
18°	7491.8	4932.3	3419.0	2695.0	2498.8
19°	7491.8	4815.5	3218.1	2522.2	2354.0
20°	7491.8	4703.4	3012.6	2391.4	2246.6
21°	7482.5	4563.3	2779.1	2255.9	2134.5
22.5°	7487.1	4301.7	2512.8	2097.1	1999.1
23°	7473.1	4236.3	2447.4	2055.1	1952.4
24°	7477.8	4049.5	2307.3	1971.0	1873.0
25°	7482.5	3811.3	2171.9	1887.0	1798.2
26°	7473.1	3619.8	2059.8	1807.6	1746.8
27°	7449.8	3465.7	1980.4	1742.2	1686.1
28°	7417.1	3260.1	1896.3	1686.1	1634.7
29°	7384.4	3026.6	1812.2	1625.4	1588.0
30°	7365.7	2839.8	1732.8	1578.7	1546.0
32.5°	7253.6	2470.8	1569.4	1485.3	1457.3
35°	7043.4	2120.5	1452.6	1405.9	1387.2
37.5°	6767.8	1849.6	1363.8	1354.5	1359.2
40°	6314.8	1634.7	1298.5	1340.5	1382.5
42.5°	5773.0	1466.6	1251.7	1354.5	1401.2
45°	5091.1	1340.5	1223.7	1354.5	1401.2
47.5°	4334.4	1237.7	1191.0	1307.8	1354.5
50°	3577.8	1144.3	1125.6	1237.7	1279.8
52.5°	2909.8	1055.6	1041.6	1149.0	1191.0
55°	2335.4	957.5	943.5	1060.2	1102.3
57.5°	1873.0	864.1	850.1	957.5	999.5
60°	1494.6	770.7	747.3	854.7	896.8
62.5°	1191.0	681.9	667.9	761.3	798.7
65°	934.1	602.5	593.2	677.3	700.6



TEST NUMBER: P568029

CATALOG NUMBER: 8SNX-82SL-LC-UNV-L850-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	738.0	527.8	532.5	602.5	630.5
70°	569.8	457.7	485.8	551.1	569.8
72.5°	429.7	387.7	448.4	504.4	527.8
75°	317.6	326.9	411.0	471.7	495.1
77.5°	219.5	270.9	378.3	443.7	467.1
80°	149.5	219.5	345.6	420.4	448.4
82.5°	88.7	182.2	317.6	397.0	429.7
85°	42.0	149.5	289.6	378.3	406.4
87.5°	14.0	121.4	261.6	359.6	383.0
90°	0.0	102.8	242.9	336.3	350.3
92.5°	0.0	88.7	219.5	308.3	317.6
95°	0.0	74.7	200.8	275.6	289.6
97.5°	0.0	70.1	186.8	247.5	266.2
100°	0.0	65.4	168.1	224.2	242.9
102.5°	0.0	56.0	149.5	200.8	219.5
105°	0.0	56.0	130.8	186.8	200.8
107.5°	4.7	51.4	121.4	168.1	186.8
110°	4.7	51.4	107.4	158.8	172.8
112.5°	4.7	51.4	102.8	144.8	163.5
115°	4.7	46.7	98.1	135.5	144.8
117.5°	4.7	46.7	93.4	121.4	130.8
120°	4.7	42.0	88.7	112.1	116.8
122.5°	4.7	42.0	84.1	102.8	107.4
125°	4.7	42.0	84.1	98.1	102.8
127.5°	4.7	37.4	79.4	93.4	93.4
130°	4.7	37.4	74.7	88.7	88.7
132.5°	4.7	32.7	70.1	84.1	88.7
135°	4.7	32.7	65.4	79.4	84.1
137.5°	4.7	28.0	60.7	74.7	79.4
140°	4.7	28.0	56.0	70.1	74.7
142.5°	4.7	23.4	51.4	65.4	70.1
145°	4.7	23.4	46.7	60.7	65.4
147.5°	4.7	23.4	42.0	56.0	60.7
150°	4.7	18.7	37.4	51.4	56.0
152.5°	4.7	18.7	32.7	46.7	51.4
155°	4.7	14.0	28.0	42.0	46.7
157.5°	4.7	14.0	28.0	37.4	42.0
160°	9.3	14.0	23.4	32.7	37.4
162.5°	4.7	9.3	23.4	28.0	32.7
165°	9.3	9.3	18.7	23.4	28.0
167.5°	9.3	9.3	14.0	18.7	23.4
170°	9.3	9.3	14.0	14.0	18.7
172.5°	9.3	9.3	9.3	14.0	9.3
175°	9.3	9.3	9.3	9.3	4.7
177.5°	9.3	9.3	9.3	9.3	4.7



TEST NUMBER: P568029

CATALOG NUMBER: 8SNX-82SL-LC-UNV-L850-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	9.3	9.3	9.3	9.3	9.3

(END OF REPORT)