

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: P568019

Luminaire Tested: **8SNX-82SL-FDL-UNV-L835-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P568019  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-82SL-FDL-UNV-L835-CD  
Description: 8FT 8200 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

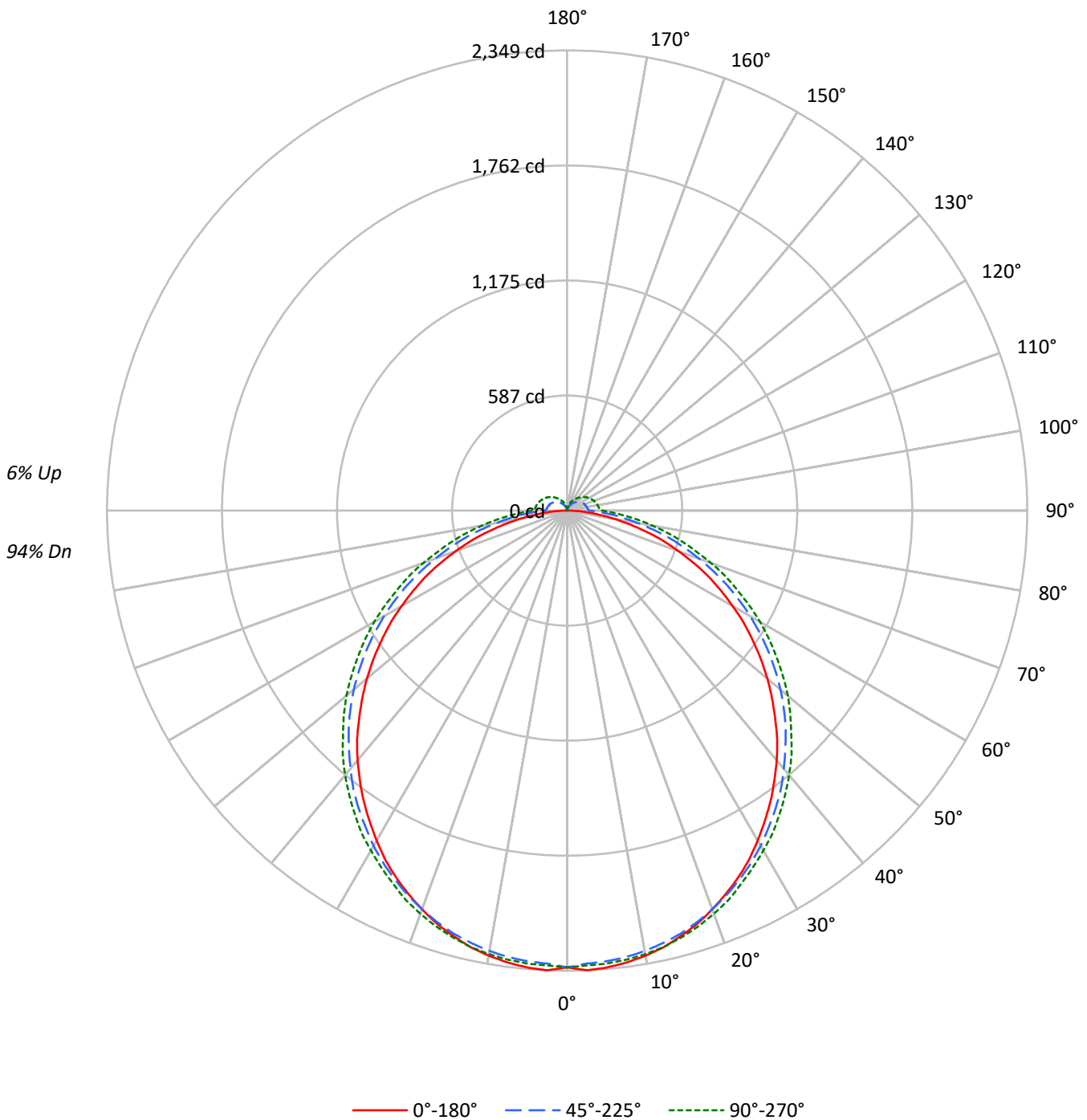
Lumens per Lamp: N/A  
Luminaire Lumens: 7410.0 lumens  
Efficiency: N/A  
Efficacy: 140.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.28 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')  
CIE Type: Direct

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

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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	0
RCR																		
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	97	93	103	99	95	91	93	90	87	88	86	83	84	82	80	77
2	97	88	81	75	93	86	79	74	81	76	71	77	73	69	73	69	66	64
3	88	77	69	62	85	75	67	61	71	65	59	68	62	57	64	60	56	53
4	80	68	59	52	78	66	58	52	63	56	50	60	54	49	57	52	48	45
5	74	61	52	45	71	59	51	44	56	49	43	54	47	42	51	46	41	39
6	68	55	46	39	66	53	45	39	51	43	38	49	42	37	47	41	36	34
7	63	49	41	34	61	48	40	34	46	39	33	44	38	33	43	37	32	30
8	59	45	36	31	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	27	53	40	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	33	28	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	12550	12550	12550
5°	12642	12346	12361
10°	12596	12216	12205
15°	12507	12066	12031
20°	12384	11882	11826
25°	12243	11681	11583
30°	12049	11476	11359
35°	11854	11235	11125
40°	11639	10968	10862
45°	11367	10704	10555
50°	11105	10403	10275
55°	10780	10030	9885
60°	10415	9603	9503
65°	10031	9094	8974
70°	9364	8452	8427
75°	8565	7696	7772
80°	7388	6693	7046
85°	5968	5834	6192



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.1	3.0
10°-20°	634.6	8.6
20°-30°	961.7	13.0
30°-40°	1160.9	15.7
40°-50°	1212.3	16.4
50°-60°	1113.7	15.0
60°-70°	880.7	11.9
70°-80°	557.4	7.5
80°-90°	239.6	3.2
90°-100°	105.5	1.4
100°-110°	94.4	1.3
110°-120°	79.7	1.1
120°-130°	62.1	0.8
130°-140°	43.0	0.6
140°-150°	25.8	0.3
150°-160°	12.6	0.2
160°-170°	4.4	0.1
170°-180°	0.6	0.0
0°-30°	1817.4	24.5
0°-40°	2978.3	40.2
0°-60°	5304.2	71.6
0°-90°	6981.9	94.2
90°-120°	279.6	3.8
90°-150°	410.5	5.5
90°-180°	428.0	5.8
0°-180°	7410.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2332	2332	2332	2332	2332	
5°	2341	2334	2310	2329	2321	222
15°	2248	2248	2236	2260	2256	634
25°	2067	2076	2078	2106	2102	952
35°	1811	1832	1856	1884	1891	1132
45°	1501	1538	1577	1608	1618	1159
55°	1157	1205	1254	1295	1304	1035
65°	796	841	900	942	957	784
75°	420	470	538	584	606	445
85°	102	158	226	274	291	113
90°	7	56	116	161	178	9
95°	1	49	105	147	163	1
105°	1	45	98	138	152	1
115°	1	38	89	125	138	1
125°	3	34	75	108	119	2
135°	3	26	60	85	96	2
145°	3	20	42	64	71	2
155°	3	13	28	41	49	1
165°	4	9	14	20	28	1
175°	4	5	7	7	4	0
180°	4	4	4	4	4	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2331.8	2331.8	2331.8	2331.8	2331.8
2.5°	2348.8	2341.0	2314.7	2333.1	2323.9
5°	2341.0	2334.4	2309.5	2329.2	2321.3
7.5°	2326.5	2321.3	2299.0	2320.0	2312.1
10°	2306.9	2302.9	2283.2	2304.2	2299.0
12.5°	2281.9	2280.6	2260.9	2284.5	2280.6
15°	2247.8	2247.8	2236.0	2259.6	2255.7
17.5°	2211.1	2212.4	2203.2	2228.1	2225.5
20°	2166.4	2173.0	2166.4	2192.7	2190.1
22.5°	2117.9	2127.1	2124.5	2150.7	2152.0
25°	2066.7	2075.9	2078.5	2106.1	2102.2
27.5°	2010.3	2024.7	2030.0	2054.9	2053.6
30°	1944.7	1964.4	1976.2	1997.2	2003.7
32.5°	1877.8	1901.4	1915.8	1944.7	1952.6
35°	1810.8	1831.8	1855.5	1884.3	1890.9
37.5°	1737.4	1761.0	1792.5	1820.0	1827.9
40°	1663.9	1690.1	1720.3	1750.5	1762.3
42.5°	1587.8	1615.3	1648.1	1683.6	1695.4
45°	1501.2	1537.9	1577.3	1607.5	1617.9
47.5°	1418.5	1459.2	1501.2	1534.0	1545.8
50°	1334.5	1377.8	1422.4	1452.6	1471.0
52.5°	1246.6	1293.8	1338.4	1376.5	1388.3
55°	1157.4	1204.6	1254.5	1295.1	1304.3
57.5°	1070.8	1116.7	1166.5	1204.6	1223.0
60°	976.3	1026.1	1079.9	1118.0	1137.7
62.5°	884.4	933.0	990.7	1031.4	1047.1
65°	796.5	841.1	900.2	942.2	956.6
67.5°	699.4	750.6	807.0	855.6	873.9
70°	603.6	652.2	716.5	762.4	780.8
72.5°	514.4	561.6	625.9	671.8	688.9
75°	419.9	469.8	538.0	583.9	606.2
77.5°	329.4	384.5	450.1	499.9	524.9
80°	245.4	293.9	364.8	419.9	442.2
82.5°	166.6	219.1	292.6	343.8	368.7
85°	102.4	157.5	225.7	274.3	291.3
87.5°	48.6	101.0	164.0	211.3	232.3
90°	6.6	56.4	115.5	161.4	178.5
92.5°	1.3	48.6	106.3	149.6	165.3
95°	1.3	48.6	105.0	147.0	162.7
97.5°	1.3	47.2	103.7	145.7	160.1
100°	1.3	45.9	102.4	143.0	158.8
102.5°	1.3	45.9	99.7	140.4	154.8
105°	1.3	44.6	98.4	137.8	152.2
107.5°	1.3	43.3	95.8	135.2	149.6
110°	1.3	40.7	94.5	131.2	145.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	39.4	91.9	128.6	141.7
115°	1.3	38.1	89.2	124.7	137.8
117.5°	1.3	36.7	85.3	120.7	133.8
120°	2.6	36.7	82.7	116.8	128.6
122.5°	2.6	35.4	78.7	111.5	123.3
125°	2.6	34.1	74.8	107.6	119.4
127.5°	2.6	32.8	70.9	102.4	112.8
130°	2.6	30.2	68.2	97.1	107.6
132.5°	2.6	28.9	64.3	90.5	101.0
135°	2.6	26.2	60.4	85.3	95.8
137.5°	2.6	24.9	56.4	80.0	89.2
140°	2.6	23.6	51.2	74.8	84.0
142.5°	2.6	21.0	47.2	69.5	77.4
145°	2.6	19.7	42.0	64.3	70.9
147.5°	2.6	17.1	38.1	59.0	65.6
150°	2.6	15.7	34.1	53.8	60.4
152.5°	2.6	14.4	30.2	47.2	53.8
155°	2.6	13.1	27.6	40.7	48.6
157.5°	2.6	11.8	23.6	35.4	43.3
160°	3.9	10.5	21.0	30.2	36.7
162.5°	3.9	9.2	17.1	24.9	32.8
165°	3.9	9.2	14.4	19.7	27.6
167.5°	3.9	7.9	11.8	15.7	22.3
170°	3.9	6.6	10.5	11.8	17.1
172.5°	3.9	5.2	7.9	7.9	9.2
175°	3.9	5.2	6.6	6.6	3.9
177.5°	3.9	3.9	3.9	3.9	2.6
180°	3.9	3.9	3.9	3.9	3.9

(END OF REPORT)