

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: P568020

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P568020  
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-L840-CD  
Description: 8FT 8200 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

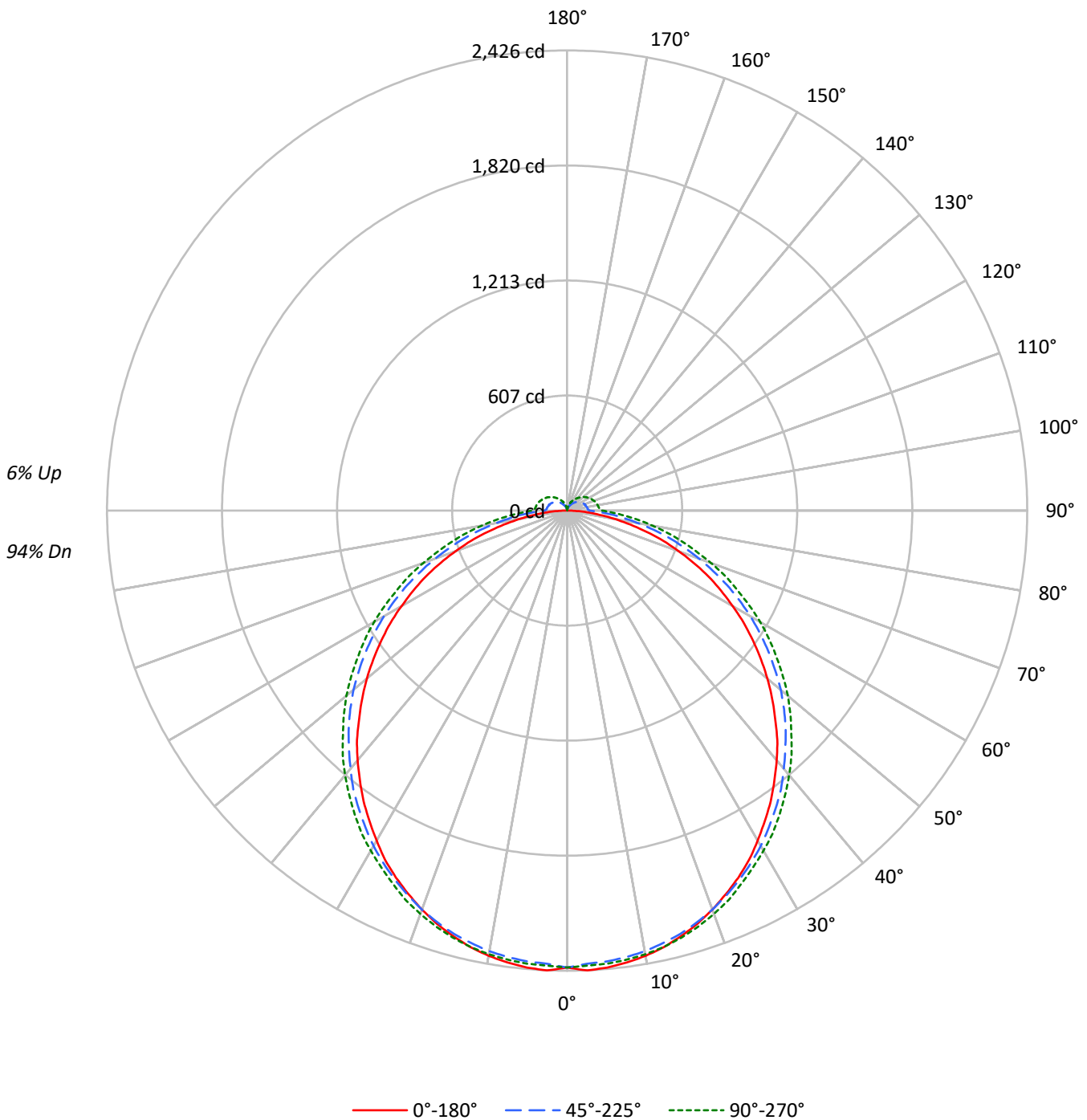
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7655.0 lumens  
Efficiency: N/A  
Efficacy: 145.5 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 (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

TEST NUMBER: P568020  
CATALOG NUMBER: 8SNX-82SL-FDL-UNV-L840-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P568020

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

**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°	12965	12965	12965
5°	13059	12754	12769
10°	13012	12620	12609
15°	12920	12464	12429
20°	12794	12275	12217
25°	12648	12067	11966
30°	12448	11855	11735
35°	12246	11606	11493
40°	12024	11330	11222
45°	11742	11058	10904
50°	11472	10747	10615
55°	11136	10361	10213
60°	10759	9921	9817
65°	10362	9394	9271
70°	9674	8732	8706
75°	8849	7951	8029
80°	7631	6915	7278
85°	6160	6027	6396



TEST NUMBER: P568020

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

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.4	3.0
10°-20°	655.5	8.6
20°-30°	993.5	13.0
30°-40°	1199.3	15.7
40°-50°	1252.3	16.4
50°-60°	1150.5	15.0
60°-70°	909.8	11.9
70°-80°	575.8	7.5
80°-90°	247.5	3.2
90°-100°	108.9	1.4
100°-110°	97.5	1.3
110°-120°	82.4	1.1
120°-130°	64.2	0.8
130°-140°	44.4	0.6
140°-150°	26.7	0.3
150°-160°	13.0	0.2
160°-170°	4.5	0.1
170°-180°	0.7	0.0
0°-30°	1877.4	24.5
0°-40°	3076.7	40.2
0°-60°	5479.6	71.6
0°-90°	7212.7	94.2
90°-120°	288.8	3.8
90°-150°	424.1	5.5
90°-180°	442.0	5.8
0°-180°	7655.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2409	2409	2409	2409	2409	
5°	2418	2412	2386	2406	2398	230
15°	2322	2322	2310	2334	2330	655
25°	2135	2144	2147	2176	2172	983
35°	1871	1892	1917	1947	1953	1170
45°	1551	1589	1629	1661	1671	1198
55°	1196	1244	1296	1338	1348	1070
65°	823	869	930	973	988	810
75°	434	485	556	603	626	460
85°	106	163	233	283	301	117
90°	7	58	119	167	184	9
95°	1	50	108	152	168	1
105°	1	46	102	142	157	1
115°	1	39	92	129	142	2
125°	3	35	77	111	123	2
135°	3	27	62	88	99	2
145°	3	20	43	66	73	2
155°	3	14	28	42	50	1
165°	4	10	15	20	28	1
175°	4	5	7	7	4	0
180°	4	4	4	4	4	



TEST NUMBER: P568020

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2408.9	2408.9	2408.9	2408.9	2408.9
2.5°	2426.5	2418.4	2391.3	2410.2	2400.8
5°	2418.4	2411.6	2385.8	2406.2	2398.0
7.5°	2403.5	2398.0	2375.0	2396.7	2388.6
10°	2383.1	2379.1	2358.7	2380.4	2375.0
12.5°	2357.4	2356.0	2335.7	2360.1	2356.0
15°	2322.1	2322.1	2309.9	2334.3	2330.3
17.5°	2284.2	2285.5	2276.0	2301.8	2299.1
20°	2238.1	2244.9	2238.1	2265.2	2262.5
22.5°	2187.9	2197.4	2194.7	2221.8	2223.2
25°	2135.1	2144.5	2147.3	2175.7	2171.7
27.5°	2076.8	2091.7	2097.1	2122.9	2121.5
30°	2009.0	2029.3	2041.5	2063.2	2070.0
32.5°	1939.9	1964.3	1979.2	2009.0	2017.1
35°	1870.7	1892.4	1916.8	1946.6	1953.4
37.5°	1794.8	1819.2	1851.7	1880.2	1888.3
40°	1718.9	1746.0	1777.2	1808.4	1820.6
42.5°	1640.3	1668.7	1702.6	1739.2	1751.4
45°	1550.8	1588.8	1629.4	1660.6	1671.4
47.5°	1465.4	1507.4	1550.8	1584.7	1596.9
50°	1378.6	1423.4	1469.5	1500.6	1519.6
52.5°	1287.8	1336.6	1382.7	1422.0	1434.2
55°	1195.6	1244.4	1295.9	1338.0	1347.5
57.5°	1106.2	1153.6	1205.1	1244.4	1263.4
60°	1008.6	1060.1	1115.7	1155.0	1175.3
62.5°	913.7	963.8	1023.5	1065.5	1081.8
65°	822.8	868.9	929.9	973.3	988.2
67.5°	722.5	775.4	833.7	883.8	902.8
70°	623.6	673.7	740.2	787.6	806.6
72.5°	531.4	580.2	646.6	694.1	711.7
75°	433.8	485.3	555.8	603.2	626.3
77.5°	340.3	397.2	465.0	516.5	542.2
80°	253.5	303.7	376.9	433.8	456.8
82.5°	172.2	226.4	302.3	355.2	380.9
85°	105.7	162.7	233.2	283.3	300.9
87.5°	50.2	104.4	169.4	218.3	239.9
90°	6.8	58.3	119.3	166.7	184.4
92.5°	1.4	50.2	109.8	154.5	170.8
95°	1.4	50.2	108.4	151.8	168.1
97.5°	1.4	48.8	107.1	150.5	165.4
100°	1.4	47.4	105.7	147.8	164.0
102.5°	1.4	47.4	103.0	145.0	160.0
105°	1.4	46.1	101.7	142.3	157.2
107.5°	1.4	44.7	99.0	139.6	154.5
110°	1.4	42.0	97.6	135.6	150.5



TEST NUMBER: P568020

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

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	40.7	94.9	132.8	146.4
115°	1.4	39.3	92.2	128.8	142.3
117.5°	1.4	38.0	88.1	124.7	138.3
120°	2.7	38.0	85.4	120.6	132.8
122.5°	2.7	36.6	81.3	115.2	127.4
125°	2.7	35.2	77.3	111.2	123.4
127.5°	2.7	33.9	73.2	105.7	116.6
130°	2.7	31.2	70.5	100.3	111.2
132.5°	2.7	29.8	66.4	93.5	104.4
135°	2.7	27.1	62.4	88.1	99.0
137.5°	2.7	25.8	58.3	82.7	92.2
140°	2.7	24.4	52.9	77.3	86.8
142.5°	2.7	21.7	48.8	71.8	80.0
145°	2.7	20.3	43.4	66.4	73.2
147.5°	2.7	17.6	39.3	61.0	67.8
150°	2.7	16.3	35.2	55.6	62.4
152.5°	2.7	14.9	31.2	48.8	55.6
155°	2.7	13.6	28.5	42.0	50.2
157.5°	2.7	12.2	24.4	36.6	44.7
160°	4.1	10.8	21.7	31.2	38.0
162.5°	4.1	9.5	17.6	25.8	33.9
165°	4.1	9.5	14.9	20.3	28.5
167.5°	4.1	8.1	12.2	16.3	23.0
170°	4.1	6.8	10.8	12.2	17.6
172.5°	4.1	5.4	8.1	8.1	9.5
175°	4.1	5.4	6.8	6.8	4.1
177.5°	4.1	4.1	4.1	4.1	2.7
180°	4.1	4.1	4.1	4.1	4.1

(END OF REPORT)