

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: P568018

Luminaire Tested: **8SNX-82SL-FDL-UNV-L830-CD**

Issue Date: 9/15/2022



**Test Information**

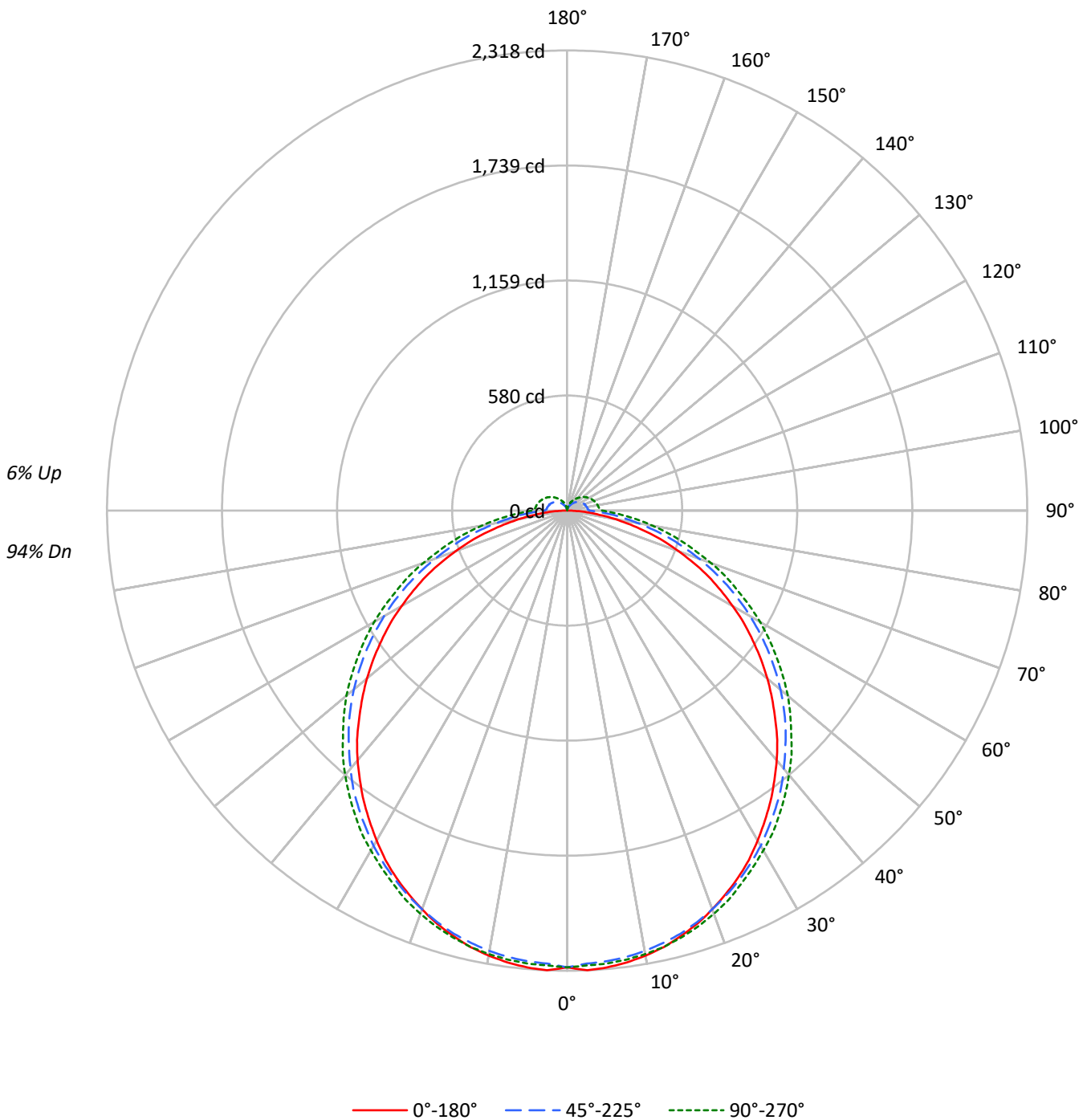
Test Method: LM-79-08  
Report Number: P568018  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-82SL-FDL-UNV-L830-CD  
Description: 8FT 8200 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7312.0 lumens  
Efficiency: N/A  
Efficacy: 139.0 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

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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°	12383	12383	12383
5°	12474	12182	12197
10°	12429	12054	12044
15°	12342	11906	11872
20°	12221	11725	11669
25°	12081	11526	11430
30°	11890	11324	11209
35°	11698	11086	10978
40°	11485	10822	10719
45°	11216	10562	10416
50°	10958	10265	10139
55°	10637	9898	9755
60°	10277	9476	9377
65°	9899	8974	8855
70°	9240	8340	8315
75°	8453	7595	7669
80°	7288	6605	6953
85°	5886	5756	6111



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.2	3.0
10°-20°	626.2	8.6
20°-30°	948.9	13.0
30°-40°	1145.5	15.7
40°-50°	1196.2	16.4
50°-60°	1099.0	15.0
60°-70°	869.0	11.9
70°-80°	550.0	7.5
80°-90°	236.4	3.2
90°-100°	104.0	1.4
100°-110°	93.1	1.3
110°-120°	78.7	1.1
120°-130°	61.3	0.8
130°-140°	42.5	0.6
140°-150°	25.5	0.3
150°-160°	12.4	0.2
160°-170°	4.3	0.1
170°-180°	0.6	0.0
0°-30°	1793.3	24.5
0°-40°	2938.9	40.2
0°-60°	5234.1	71.6
0°-90°	6889.6	94.2
90°-120°	275.8	3.8
90°-150°	405.1	5.5
90°-180°	422.0	5.8
0°-180°	7312.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2301	2301	2301	2301	2301	
5°	2310	2304	2279	2298	2291	219
15°	2218	2218	2206	2230	2226	626
25°	2039	2048	2051	2078	2074	939
35°	1787	1808	1831	1859	1866	1117
45°	1481	1518	1556	1586	1597	1144
55°	1142	1189	1238	1278	1287	1022
65°	786	830	888	930	944	774
75°	414	464	531	576	598	439
85°	101	155	223	271	288	112
90°	6	56	114	159	176	9
95°	1	48	104	145	161	1
105°	1	44	97	136	150	1
115°	1	38	88	123	136	1
125°	3	34	74	106	118	2
135°	3	26	60	84	94	2
145°	3	19	41	63	70	2
155°	3	13	27	40	48	1
165°	4	9	14	19	27	1
175°	4	5	6	6	4	0
180°	4	4	4	4	4	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2300.9	2300.9	2300.9	2300.9	2300.9
2.5°	2317.8	2310.0	2284.1	2302.2	2293.2
5°	2310.0	2303.5	2278.9	2298.4	2290.6
7.5°	2295.8	2290.6	2268.6	2289.3	2281.5
10°	2276.3	2272.5	2253.0	2273.8	2268.6
12.5°	2251.7	2250.4	2231.0	2254.3	2250.4
15°	2218.1	2218.1	2206.4	2229.7	2225.8
17.5°	2181.8	2183.1	2174.1	2198.7	2196.1
20°	2137.8	2144.3	2137.8	2163.7	2161.1
22.5°	2089.9	2099.0	2096.4	2122.3	2123.6
25°	2039.4	2048.5	2051.0	2078.2	2074.4
27.5°	1983.7	1998.0	2003.1	2027.7	2026.4
30°	1919.0	1938.4	1950.0	1970.8	1977.2
32.5°	1852.9	1876.2	1890.5	1919.0	1926.7
35°	1786.9	1807.6	1830.9	1859.4	1865.9
37.5°	1714.4	1737.7	1768.8	1796.0	1803.7
40°	1641.9	1667.8	1697.5	1727.3	1739.0
42.5°	1566.8	1594.0	1626.3	1661.3	1672.9
45°	1481.3	1517.6	1556.4	1586.2	1596.6
47.5°	1399.7	1439.9	1481.3	1513.7	1525.3
50°	1316.9	1359.6	1403.6	1433.4	1451.5
52.5°	1230.1	1276.7	1320.7	1358.3	1370.0
55°	1142.1	1188.7	1237.9	1278.0	1287.1
57.5°	1056.6	1101.9	1151.1	1188.7	1206.8
60°	963.4	1012.6	1065.7	1103.2	1122.6
62.5°	872.7	920.6	977.6	1017.8	1033.3
65°	786.0	830.0	888.3	929.7	943.9
67.5°	690.2	740.7	796.3	844.2	862.4
70°	595.6	643.5	707.0	752.3	770.4
72.5°	507.6	554.2	617.6	663.0	679.8
75°	414.4	463.6	530.9	576.2	598.2
77.5°	325.0	379.4	444.1	493.3	517.9
80°	242.1	290.0	360.0	414.4	436.4
82.5°	164.4	216.2	288.8	339.3	363.9
85°	101.0	155.4	222.7	270.6	287.5
87.5°	47.9	99.7	161.9	208.5	229.2
90°	6.5	55.7	113.9	159.3	176.1
92.5°	1.3	47.9	104.9	147.6	163.2
95°	1.3	47.9	103.6	145.0	160.6
97.5°	1.3	46.6	102.3	143.7	158.0
100°	1.3	45.3	101.0	141.1	156.7
102.5°	1.3	45.3	98.4	138.5	152.8
105°	1.3	44.0	97.1	136.0	150.2
107.5°	1.3	42.7	94.5	133.4	147.6
110°	1.3	40.1	93.2	129.5	143.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	38.8	90.6	126.9	139.8
115°	1.3	37.6	88.0	123.0	136.0
117.5°	1.3	36.3	84.2	119.1	132.1
120°	2.6	36.3	81.6	115.2	126.9
122.5°	2.6	35.0	77.7	110.1	121.7
125°	2.6	33.7	73.8	106.2	117.8
127.5°	2.6	32.4	69.9	101.0	111.4
130°	2.6	29.8	67.3	95.8	106.2
132.5°	2.6	28.5	63.4	89.3	99.7
135°	2.6	25.9	59.6	84.2	94.5
137.5°	2.6	24.6	55.7	79.0	88.0
140°	2.6	23.3	50.5	73.8	82.9
142.5°	2.6	20.7	46.6	68.6	76.4
145°	2.6	19.4	41.4	63.4	69.9
147.5°	2.6	16.8	37.6	58.3	64.7
150°	2.6	15.5	33.7	53.1	59.6
152.5°	2.6	14.2	29.8	46.6	53.1
155°	2.6	12.9	27.2	40.1	47.9
157.5°	2.6	11.7	23.3	35.0	42.7
160°	3.9	10.4	20.7	29.8	36.3
162.5°	3.9	9.1	16.8	24.6	32.4
165°	3.9	9.1	14.2	19.4	27.2
167.5°	3.9	7.8	11.7	15.5	22.0
170°	3.9	6.5	10.4	11.7	16.8
172.5°	3.9	5.2	7.8	7.8	9.1
175°	3.9	5.2	6.5	6.5	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)