

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: P568042

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P568042  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-82SL-LW-UNV-L830-CD  
Description: 8FT 8200 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

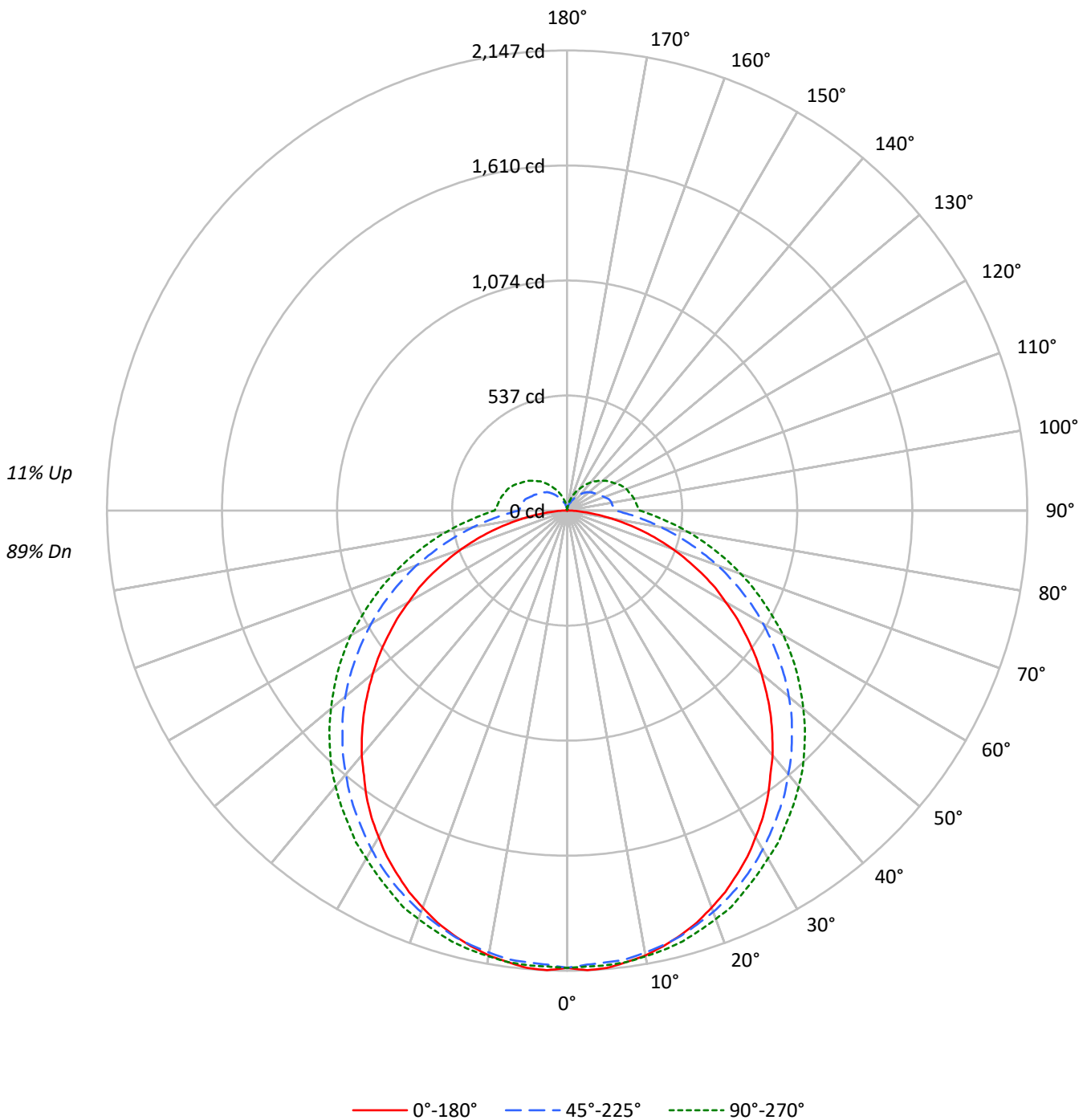
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7595.0 lumens  
Efficiency: N/A  
Efficacy: 144.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
CIE Type: Semi-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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	105	100	95	90	101	96	92	88	90	86	83	84	81	79	79	76	74	71
2	95	86	79	73	91	83	76	71	78	72	68	73	68	64	68	65	61	58
3	86	75	67	60	83	73	65	59	68	61	56	64	58	54	60	55	51	49
4	79	66	57	50	75	64	56	49	60	53	47	57	50	46	53	48	44	41
5	72	59	50	43	69	57	49	42	54	46	41	51	44	39	48	42	38	35
6	67	53	44	37	64	51	43	37	48	41	35	46	39	34	43	38	33	31
7	62	48	39	33	59	47	38	32	44	37	31	42	35	30	39	34	29	27
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22
10	50	37	29	24	48	36	28	23	34	27	23	32	26	22	31	25	21	20

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

	0°	45°	90°
0°	11482	11482	11482
5°	11553	10965	10869
10°	11473	10540	10326
15°	11358	10127	9836
20°	11202	9697	9347
25°	11021	9284	8868
30°	10805	8858	8409
35°	10568	8431	7980
40°	10297	8012	7571
45°	10004	7592	7151
50°	9668	7160	6711
55°	9299	6675	6280
60°	8866	6169	5823
65°	8419	5623	5303
70°	7792	5038	4791
75°	6959	4355	4248
80°	5607	3665	3707
85°	3950	3024	3151



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.6	2.7
10°-20°	582.5	7.7
20°-30°	885.6	11.7
30°-40°	1075.1	14.2
40°-50°	1136.0	15.0
50°-60°	1063.1	14.0
60°-70°	872.2	11.5
70°-80°	599.9	7.9
80°-90°	328.6	4.3
90°-100°	211.6	2.8
100°-110°	189.8	2.5
110°-120°	157.1	2.1
120°-130°	121.0	1.6
130°-140°	85.0	1.1
140°-150°	51.2	0.7
150°-160°	24.5	0.3
160°-170°	8.1	0.1
170°-180°	1.0	0.0
0°-30°	1670.7	22.0
0°-40°	2745.8	36.2
0°-60°	4944.9	65.1
0°-90°	6745.6	88.8
90°-120°	558.5	7.4
90°-150°	815.8	10.7
90°-180°	849.0	11.2
0°-180°	7595.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2134	2134	2134	2134	2134	
5°	2142	2138	2116	2134	2129	203
15°	2050	2059	2054	2081	2081	578
25°	1874	1896	1918	1958	1958	863
35°	1632	1672	1720	1768	1782	1019
45°	1342	1403	1482	1548	1566	1034
55°	1020	1104	1205	1280	1306	913
65°	691	783	902	985	1012	684
75°	361	458	589	682	713	380
85°	79	189	321	409	440	92
90°	0	106	224	308	339	5
95°	0	101	216	295	326	0
105°	0	84	202	277	304	3
115°	4	75	172	246	277	4
125°	4	62	145	211	238	4
135°	4	48	119	172	194	3
145°	4	35	84	132	145	3
155°	4	22	53	84	97	2
165°	4	13	26	40	48	1
175°	4	4	9	9	4	0
180°	4	4	4	4	4	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2133.5	2133.5	2133.5	2133.5	2133.5
2.5°	2146.6	2142.3	2120.3	2137.9	2129.1
5°	2142.3	2137.9	2115.9	2133.5	2129.1
7.5°	2124.7	2124.7	2111.5	2129.1	2124.7
10°	2107.1	2107.1	2093.9	2115.9	2111.5
12.5°	2080.7	2085.1	2076.3	2102.7	2098.3
15°	2049.9	2058.7	2054.3	2080.7	2080.7
17.5°	2014.7	2023.5	2023.5	2054.3	2054.3
20°	1970.7	1983.9	1992.7	2027.9	2027.9
22.5°	1926.7	1944.3	1957.5	1988.3	2001.5
25°	1873.9	1895.9	1917.9	1957.5	1957.5
27.5°	1821.1	1847.5	1873.9	1913.5	1917.9
30°	1759.5	1790.3	1825.5	1865.1	1873.9
32.5°	1698.0	1737.6	1772.7	1821.1	1834.3
35°	1632.0	1671.6	1720.0	1768.3	1781.5
37.5°	1557.2	1605.6	1667.2	1720.0	1733.2
40°	1491.2	1544.0	1605.6	1667.2	1680.4
42.5°	1416.4	1473.6	1548.4	1605.6	1627.6
45°	1341.7	1403.2	1482.4	1548.4	1566.0
47.5°	1262.5	1332.9	1420.8	1482.4	1504.4
50°	1183.3	1258.1	1350.5	1420.8	1438.4
52.5°	1104.1	1183.3	1280.1	1350.5	1372.4
55°	1020.5	1104.1	1205.3	1280.1	1306.5
57.5°	941.4	1024.9	1130.5	1209.7	1236.1
60°	853.4	950.2	1055.7	1134.9	1165.7
62.5°	778.6	866.6	980.9	1060.1	1086.5
65°	690.6	783.0	901.8	985.3	1011.7
67.5°	607.0	703.8	822.6	910.6	937.0
70°	523.5	620.2	747.8	831.4	862.2
72.5°	439.9	541.1	664.2	756.6	787.4
75°	360.7	457.5	589.4	681.8	712.6
77.5°	277.1	382.7	514.7	607.0	642.2
80°	202.3	312.3	444.3	536.7	571.9
82.5°	136.4	246.3	378.3	470.7	505.9
85°	79.2	189.2	321.1	409.1	439.9
87.5°	39.6	145.2	268.3	356.3	387.1
90°	0.0	105.6	224.3	307.9	338.7
92.5°	0.0	101.2	219.9	299.1	329.9
95°	0.0	101.2	215.5	294.7	325.5
97.5°	0.0	96.8	211.1	294.7	321.1
100°	0.0	92.4	211.1	290.3	316.7
102.5°	0.0	88.0	206.7	285.9	312.3
105°	0.0	83.6	202.3	277.1	303.5
107.5°	4.4	83.6	193.6	272.7	299.1
110°	4.4	79.2	184.8	268.3	294.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	4.4	74.8	176.0	259.5	285.9
115°	4.4	74.8	171.6	246.3	277.1
117.5°	4.4	70.4	162.8	237.5	268.3
120°	4.4	70.4	158.4	228.7	255.1
122.5°	4.4	66.0	149.6	219.9	246.3
125°	4.4	61.6	145.2	211.1	237.5
127.5°	4.4	57.2	140.8	202.3	228.7
130°	4.4	52.8	132.0	193.6	215.5
132.5°	4.4	52.8	127.6	180.4	206.7
135°	4.4	48.4	118.8	171.6	193.6
137.5°	4.4	44.0	110.0	162.8	184.8
140°	4.4	39.6	101.2	154.0	171.6
142.5°	4.4	39.6	92.4	140.8	158.4
145°	4.4	35.2	83.6	132.0	145.2
147.5°	4.4	30.8	74.8	118.8	132.0
150°	4.4	30.8	66.0	105.6	118.8
152.5°	4.4	26.4	57.2	96.8	110.0
155°	4.4	22.0	52.8	83.6	96.8
157.5°	4.4	22.0	44.0	70.4	83.6
160°	4.4	17.6	39.6	57.2	70.4
162.5°	4.4	17.6	35.2	48.4	61.6
165°	4.4	13.2	26.4	39.6	48.4
167.5°	4.4	13.2	22.0	30.8	39.6
170°	4.4	8.8	17.6	22.0	30.8
172.5°	4.4	8.8	13.2	13.2	13.2
175°	4.4	4.4	8.8	8.8	4.4
177.5°	4.4	4.4	4.4	4.4	4.4
180°	4.4	4.4	4.4	4.4	4.4

(END OF REPORT)