

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: P568043

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P568043  
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-L835-CD  
Description: 8FT 8200 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

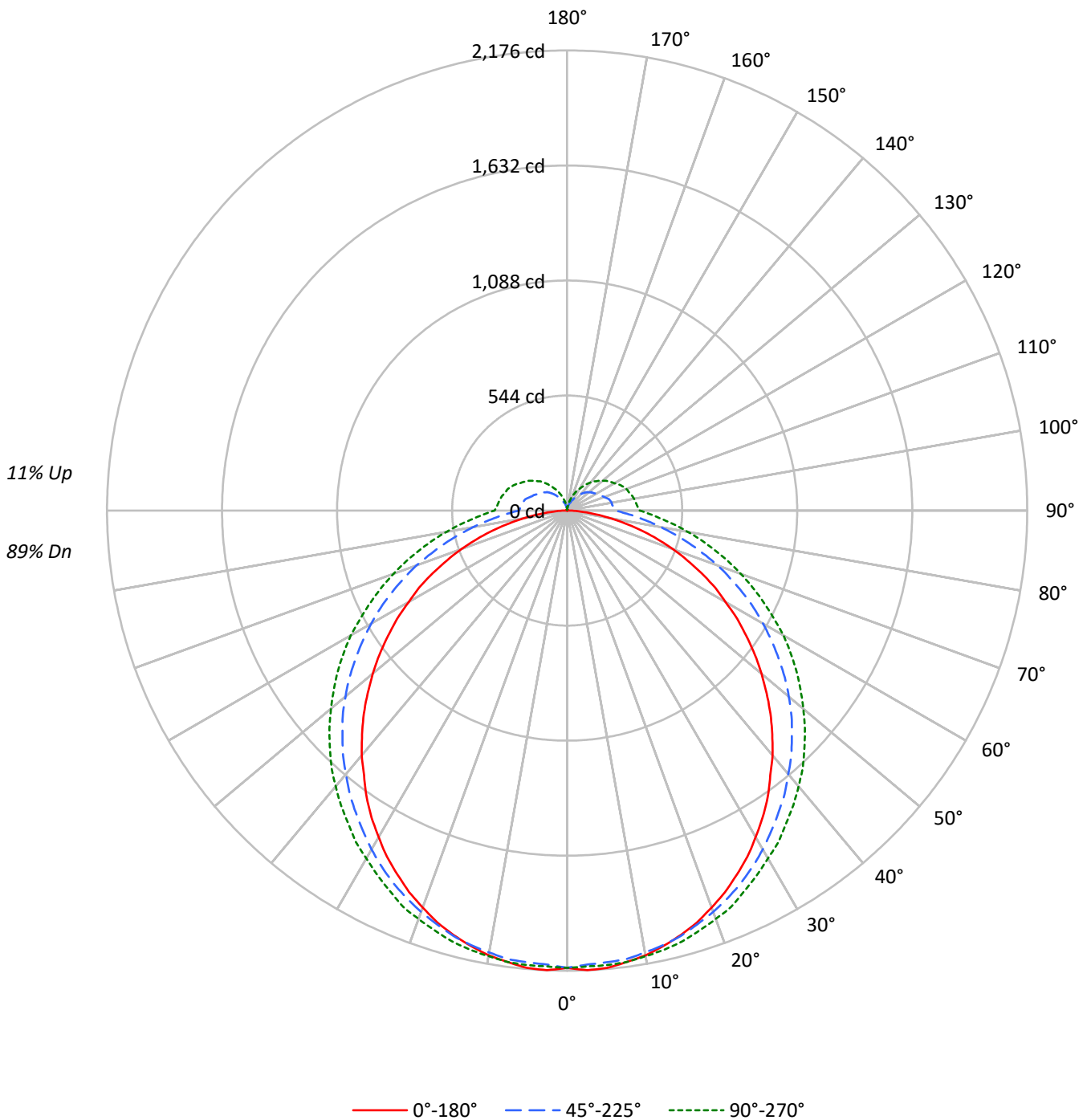
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7697.1 lumens  
Efficiency: N/A  
Efficacy: 146.3 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°	11636	11636	11636
5°	11708	11112	11014
10°	11627	10681	10464
15°	11511	10263	9968
20°	11353	9827	9472
25°	11169	9409	8987
30°	10950	8977	8522
35°	10710	8544	8087
40°	10435	8120	7672
45°	10138	7694	7247
50°	9797	7255	6801
55°	9424	6765	6364
60°	8984	6252	5902
65°	8532	5698	5374
70°	7896	5106	4856
75°	7054	4414	4305
80°	5685	3715	3757
85°	4000	3065	3194



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.4	2.7
10°-20°	590.3	7.7
20°-30°	897.5	11.7
30°-40°	1089.5	14.2
40°-50°	1151.3	15.0
50°-60°	1077.3	14.0
60°-70°	884.0	11.5
70°-80°	608.0	7.9
80°-90°	333.0	4.3
90°-100°	214.4	2.8
100°-110°	192.4	2.5
110°-120°	159.2	2.1
120°-130°	122.6	1.6
130°-140°	86.2	1.1
140°-150°	51.9	0.7
150°-160°	24.9	0.3
160°-170°	8.2	0.1
170°-180°	1.0	0.0
0°-30°	1693.2	22.0
0°-40°	2782.7	36.2
0°-60°	5011.3	65.1
0°-90°	6836.3	88.8
90°-120°	566.0	7.4
90°-150°	826.8	10.7
90°-180°	861.0	11.2
0°-180°	7697.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2162	2162	2162	2162	2162	
5°	2171	2167	2144	2162	2158	206
15°	2077	2086	2082	2109	2109	586
25°	1899	1921	1944	1984	1984	875
35°	1654	1694	1743	1792	1806	1033
45°	1360	1422	1502	1569	1587	1048
55°	1034	1119	1222	1297	1324	926
65°	700	794	914	999	1025	693
75°	366	464	597	691	722	385
85°	80	192	325	415	446	93
90°	0	107	227	312	343	5
95°	0	102	218	299	330	0
105°	0	85	205	281	308	3
115°	4	76	174	250	281	4
125°	4	62	147	214	241	4
135°	4	49	120	174	196	3
145°	4	36	85	134	147	3
155°	4	22	54	85	98	2
165°	4	13	27	40	49	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°	2162.1	2162.1	2162.1	2162.1	2162.1
2.5°	2175.5	2171.0	2148.7	2166.6	2157.6
5°	2171.0	2166.6	2144.3	2162.1	2157.6
7.5°	2153.2	2153.2	2139.8	2157.6	2153.2
10°	2135.4	2135.4	2122.0	2144.3	2139.8
12.5°	2108.6	2113.1	2104.2	2130.9	2126.4
15°	2077.4	2086.3	2081.9	2108.6	2108.6
17.5°	2041.7	2050.7	2050.7	2081.9	2081.9
20°	1997.2	2010.5	2019.5	2055.1	2055.1
22.5°	1952.6	1970.4	1983.8	2015.0	2028.4
25°	1899.1	1921.4	1943.7	1983.8	1983.8
27.5°	1845.6	1872.3	1899.1	1939.2	1943.7
30°	1783.2	1814.4	1850.0	1890.2	1899.1
32.5°	1720.8	1760.9	1796.6	1845.6	1859.0
35°	1653.9	1694.0	1743.1	1792.1	1805.5
37.5°	1578.1	1627.2	1689.6	1743.1	1756.4
40°	1511.2	1564.7	1627.2	1689.6	1702.9
42.5°	1435.5	1493.4	1569.2	1627.2	1649.4
45°	1359.7	1422.1	1502.3	1569.2	1587.0
47.5°	1279.4	1350.8	1439.9	1502.3	1524.6
50°	1199.2	1275.0	1368.6	1439.9	1457.7
52.5°	1118.9	1199.2	1297.3	1368.6	1390.9
55°	1034.2	1118.9	1221.5	1297.3	1324.0
57.5°	954.0	1038.7	1145.7	1225.9	1252.7
60°	864.8	962.9	1069.9	1150.2	1181.4
62.5°	789.1	878.2	994.1	1074.4	1101.1
65°	699.9	793.5	913.9	998.6	1025.3
67.5°	615.2	713.3	833.6	922.8	949.5
70°	530.5	628.6	757.9	842.6	873.8
72.5°	445.8	548.3	673.2	766.8	798.0
75°	365.6	463.6	597.4	691.0	722.2
77.5°	280.9	387.8	521.6	615.2	650.9
80°	205.1	316.5	450.3	543.9	579.5
82.5°	138.2	249.6	383.4	477.0	512.7
85°	80.2	191.7	325.4	414.6	445.8
87.5°	40.1	147.1	271.9	361.1	392.3
90°	0.0	107.0	227.4	312.1	343.3
92.5°	0.0	102.5	222.9	303.1	334.3
95°	0.0	102.5	218.4	298.7	329.9
97.5°	0.0	98.1	214.0	298.7	325.4
100°	0.0	93.6	214.0	294.2	321.0
102.5°	0.0	89.2	209.5	289.8	316.5
105°	0.0	84.7	205.1	280.9	307.6
107.5°	4.5	84.7	196.1	276.4	303.1
110°	4.5	80.2	187.2	271.9	298.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	4.5	75.8	178.3	263.0	289.8
115°	4.5	75.8	173.9	249.6	280.9
117.5°	4.5	71.3	164.9	240.7	271.9
120°	4.5	71.3	160.5	231.8	258.6
122.5°	4.5	66.9	151.6	222.9	249.6
125°	4.5	62.4	147.1	214.0	240.7
127.5°	4.5	58.0	142.7	205.1	231.8
130°	4.5	53.5	133.7	196.1	218.4
132.5°	4.5	53.5	129.3	182.8	209.5
135°	4.5	49.0	120.4	173.9	196.1
137.5°	4.5	44.6	111.4	164.9	187.2
140°	4.5	40.1	102.5	156.0	173.9
142.5°	4.5	40.1	93.6	142.7	160.5
145°	4.5	35.7	84.7	133.7	147.1
147.5°	4.5	31.2	75.8	120.4	133.7
150°	4.5	31.2	66.9	107.0	120.4
152.5°	4.5	26.7	58.0	98.1	111.4
155°	4.5	22.3	53.5	84.7	98.1
157.5°	4.5	22.3	44.6	71.3	84.7
160°	4.5	17.8	40.1	58.0	71.3
162.5°	4.5	17.8	35.7	49.0	62.4
165°	4.5	13.4	26.7	40.1	49.0
167.5°	4.5	13.4	22.3	31.2	40.1
170°	4.5	8.9	17.8	22.3	31.2
172.5°	4.5	8.9	13.4	13.4	13.4
175°	4.5	4.5	8.9	8.9	4.5
177.5°	4.5	4.5	4.5	4.5	4.5
180°	4.5	4.5	4.5	4.5	4.5

(END OF REPORT)