

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: P567797

Luminaire Tested: **8SNX-44SL-LN-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

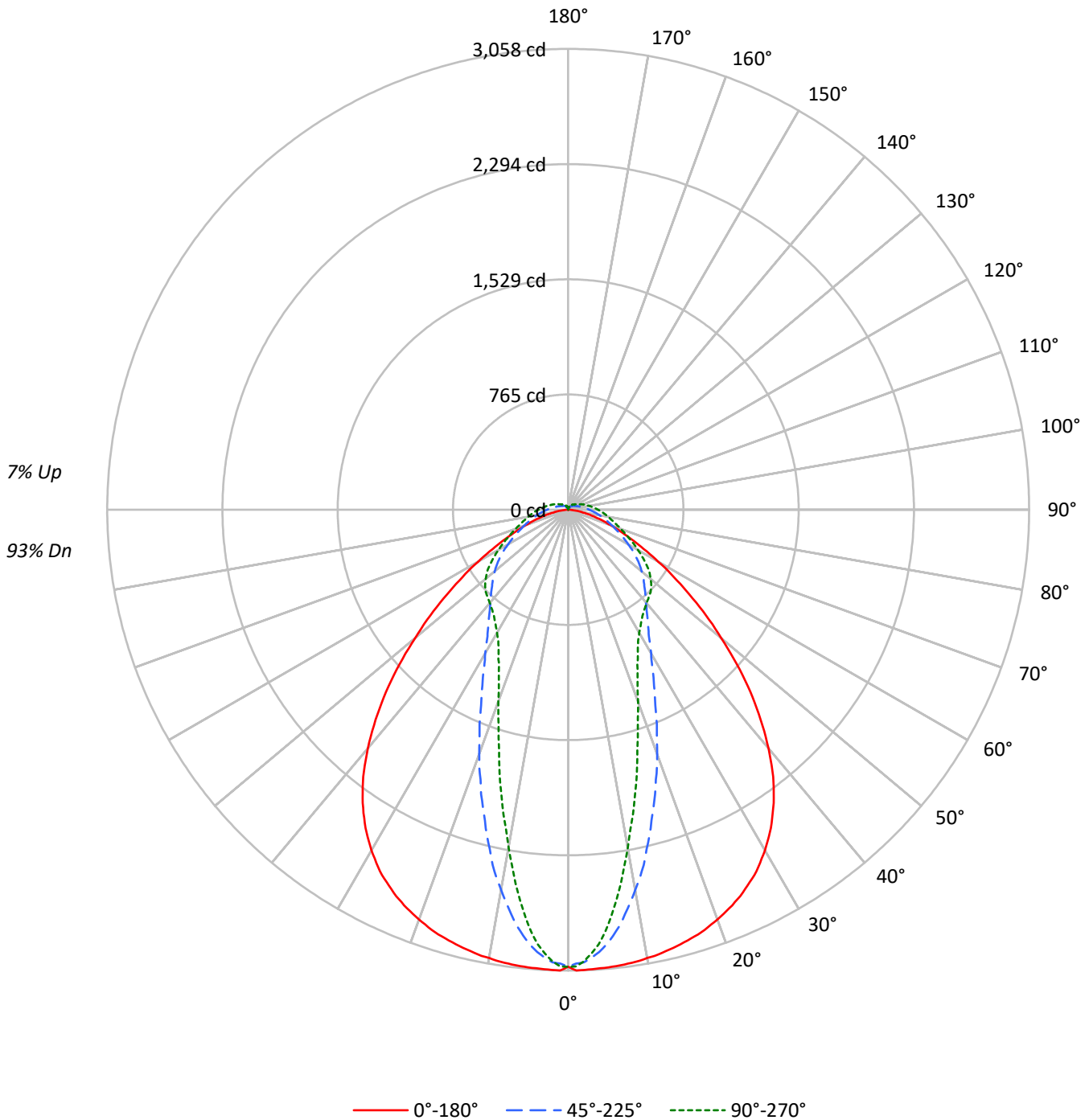
Test Method: LM-79-08  
Report Number: P567797  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-44SL-LN-UNV-L850-CD  
Description: 8FT 4400 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4835.0 lumens  
Efficiency: N/A  
Efficacy: 175.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 0.56 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 27.6  
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	50	30	10	0	
RCR																						
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93				
1	107	103	99	95	104	100	96	93	94	91	88	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	82	77	84	79	75	79	75	72	76	72	69	67				
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58				
4	84	73	64	58	81	71	63	57	67	61	56	64	59	54	62	57	53	51				
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45				
6	72	60	51	45	70	59	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	47	41	65	54	46	41	52	45	40	50	44	39	48	42	38	36				
8	63	51	43	37	61	50	42	37	48	41	36	46	40	36	44	39	35	33				
9	59	47	39	34	58	46	39	34	44	38	33	43	37	33	41	36	32	30				
10	56	44	36	31	54	43	36	31	41	35	31	40	34	30	39	34	30	28				

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

	0°	45°	90°
0°	16324	16324	16324
5°	16439	15022	14358
10°	16447	12895	11140
15°	16469	10530	8349
20°	16449	8397	6248
25°	16333	6587	4959
30°	16027	5336	4230
35°	15391	4521	3848
40°	14277	3996	3642
45°	12734	3660	3530
50°	10828	3372	3334
55°	8935	3059	3045
60°	7187	2695	2671
65°	5622	2370	2324
70°	4413	2100	2056
75°	3471	1891	1873
80°	2528	1735	1741
85°	1516	1623	1670



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.6	5.6
10°-20°	629.6	13.0
20°-30°	747.4	15.5
30°-40°	751.9	15.6
40°-50°	699.0	14.5
50°-60°	575.5	11.9
60°-70°	405.6	8.4
70°-80°	264.9	5.5
80°-90°	169.2	3.5
90°-100°	110.9	2.3
100°-110°	75.3	1.6
110°-120°	51.6	1.1
120°-130°	35.7	0.7
130°-140°	24.0	0.5
140°-150°	14.8	0.3
150°-160°	7.7	0.2
160°-170°	2.8	0.1
170°-180°	0.5	0.0
0°-30°	1645.6	34.0
0°-40°	2397.5	49.6
0°-60°	3672.0	75.9
0°-90°	4511.6	93.3
90°-120°	237.9	4.9
90°-150°	312.4	6.5
90°-180°	323.0	6.7
0°-180°	4835.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3033	3033	3033	3033	3033	
5°	3048	3008	2899	2843	2813	290
15°	2972	2656	2136	1868	1766	839
25°	2777	2052	1361	1143	1095	1278
35°	2377	1389	922	864	859	1478
45°	1708	915	715	753	773	1311
55°	981	600	552	613	634	886
65°	461	362	380	428	443	468
75°	180	188	256	302	314	195
85°	30	86	172	223	233	38
90°	0	58	139	190	198	2
95°	0	43	117	160	167	0
105°	0	30	79	112	122	0
115°	2	25	56	81	86	2
125°	2	20	46	58	63	2
135°	2	18	36	46	48	2
145°	2	13	25	36	38	2
155°	2	10	18	25	28	1
165°	2	5	10	13	15	1
175°	5	5	5	5	2	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3033.1	3033.1	3033.1	3033.1	3033.1
1°	3058.5	3045.8	3012.9	3035.7	3030.6
2°	3055.9	3043.3	3005.3	3015.4	2997.7
3°	3053.4	3035.7	2977.4	2974.9	2949.5
4°	3050.9	3023.0	2941.9	2911.5	2891.2
5°	3048.3	3007.8	2898.8	2843.1	2812.7
6°	3045.8	2990.1	2843.1	2759.5	2716.4
7°	3040.7	2962.2	2784.8	2670.8	2615.0
8°	3035.7	2936.9	2711.3	2574.5	2506.1
9°	3030.6	2903.9	2637.8	2470.6	2389.5
10°	3020.5	2871.0	2561.8	2364.2	2278.0
11°	3015.4	2833.0	2488.3	2262.8	2161.5
12°	3005.3	2792.4	2409.8	2156.4	2067.7
13°	2995.1	2749.3	2313.5	2065.2	1958.7
14°	2985.0	2703.7	2229.9	1963.8	1865.0
15°	2972.3	2655.6	2136.1	1867.5	1766.2
16°	2959.7	2599.8	2052.5	1768.7	1662.3
17°	2947.0	2546.6	1973.9	1677.5	1581.2
18°	2931.8	2493.4	1882.7	1588.8	1495.0
19°	2911.5	2432.6	1809.2	1507.7	1421.5
20°	2893.8	2376.8	1725.6	1431.7	1355.7
21°	2873.5	2308.4	1642.0	1360.7	1284.7
22.5°	2843.1	2212.1	1535.6	1272.0	1201.1
23°	2827.9	2184.3	1492.5	1239.1	1178.3
24°	2807.6	2110.8	1421.5	1188.4	1127.6
25°	2777.2	2052.5	1360.7	1142.8	1094.7
26°	2749.3	1981.6	1299.9	1102.3	1054.1
27°	2721.5	1913.1	1246.7	1059.2	1018.6
28°	2686.0	1842.2	1188.4	1023.7	988.2
29°	2648.0	1776.3	1140.3	993.3	965.4
30°	2610.0	1702.8	1099.7	965.4	942.6
32.5°	2503.5	1540.6	995.8	912.2	897.0
35°	2376.8	1388.6	922.4	864.1	859.0
37.5°	2234.9	1249.2	856.5	826.1	831.1
40°	2067.7	1122.5	800.7	798.2	808.3
42.5°	1890.3	1013.6	757.7	775.4	790.6
45°	1707.9	914.8	714.6	752.6	772.9
47.5°	1517.8	828.6	676.6	724.7	747.5
50°	1325.3	745.0	636.0	691.8	714.6
52.5°	1152.9	671.5	595.5	653.8	679.1
55°	980.6	600.5	552.4	613.2	633.5
57.5°	831.1	534.7	506.8	567.6	582.8
60°	691.8	471.3	461.2	516.9	534.7
62.5°	565.1	415.6	418.1	471.3	489.1
65°	461.2	362.4	380.1	428.2	443.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	375.0	311.7	342.1	392.8	405.4
70°	296.5	266.1	311.7	357.3	370.0
72.5°	235.7	225.5	281.3	329.4	339.5
75°	179.9	187.5	255.9	301.5	314.2
77.5°	129.2	157.1	230.6	278.7	288.9
80°	91.2	129.2	210.3	258.5	268.6
82.5°	58.3	106.4	190.0	240.7	250.9
85°	30.4	86.2	172.3	223.0	233.1
87.5°	12.7	71.0	154.6	205.3	215.4
90°	0.0	58.3	139.4	190.0	197.6
92.5°	0.0	50.7	126.7	174.8	182.4
95°	0.0	43.1	116.6	159.6	167.2
97.5°	0.0	40.5	103.9	147.0	154.6
100°	0.0	35.5	93.8	134.3	144.4
102.5°	0.0	32.9	86.2	121.6	131.8
105°	0.0	30.4	78.6	111.5	121.6
107.5°	0.0	27.9	73.5	103.9	111.5
110°	0.0	27.9	65.9	96.3	103.9
112.5°	2.5	25.3	60.8	86.2	93.8
115°	2.5	25.3	55.7	81.1	86.2
117.5°	2.5	25.3	53.2	73.5	78.6
120°	2.5	22.8	50.7	68.4	73.5
122.5°	2.5	22.8	48.1	63.3	65.9
125°	2.5	20.3	45.6	58.3	63.3
127.5°	2.5	20.3	43.1	55.7	58.3
130°	2.5	20.3	40.5	50.7	55.7
132.5°	2.5	17.7	38.0	48.1	50.7
135°	2.5	17.7	35.5	45.6	48.1
137.5°	2.5	15.2	32.9	43.1	45.6
140°	2.5	15.2	30.4	40.5	43.1
142.5°	2.5	12.7	27.9	38.0	40.5
145°	2.5	12.7	25.3	35.5	38.0
147.5°	2.5	12.7	22.8	32.9	35.5
150°	2.5	10.1	20.3	30.4	32.9
152.5°	2.5	10.1	17.7	27.9	30.4
155°	2.5	10.1	17.7	25.3	27.9
157.5°	2.5	7.6	15.2	20.3	25.3
160°	2.5	7.6	12.7	17.7	22.8
162.5°	2.5	7.6	12.7	15.2	17.7
165°	2.5	5.1	10.1	12.7	15.2
167.5°	2.5	5.1	7.6	10.1	12.7
170°	2.5	5.1	7.6	7.6	10.1
172.5°	2.5	5.1	5.1	5.1	5.1
175°	5.1	5.1	5.1	5.1	2.5
177.5°	5.1	5.1	5.1	2.5	2.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	2.5	2.5	2.5	2.5	2.5

(END OF REPORT)