

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: P567181

Luminaire Tested: **8SNX-102SL-LW-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567181  
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-102SL-LW-UNV-L850-CD  
Description: 8FT 10200 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

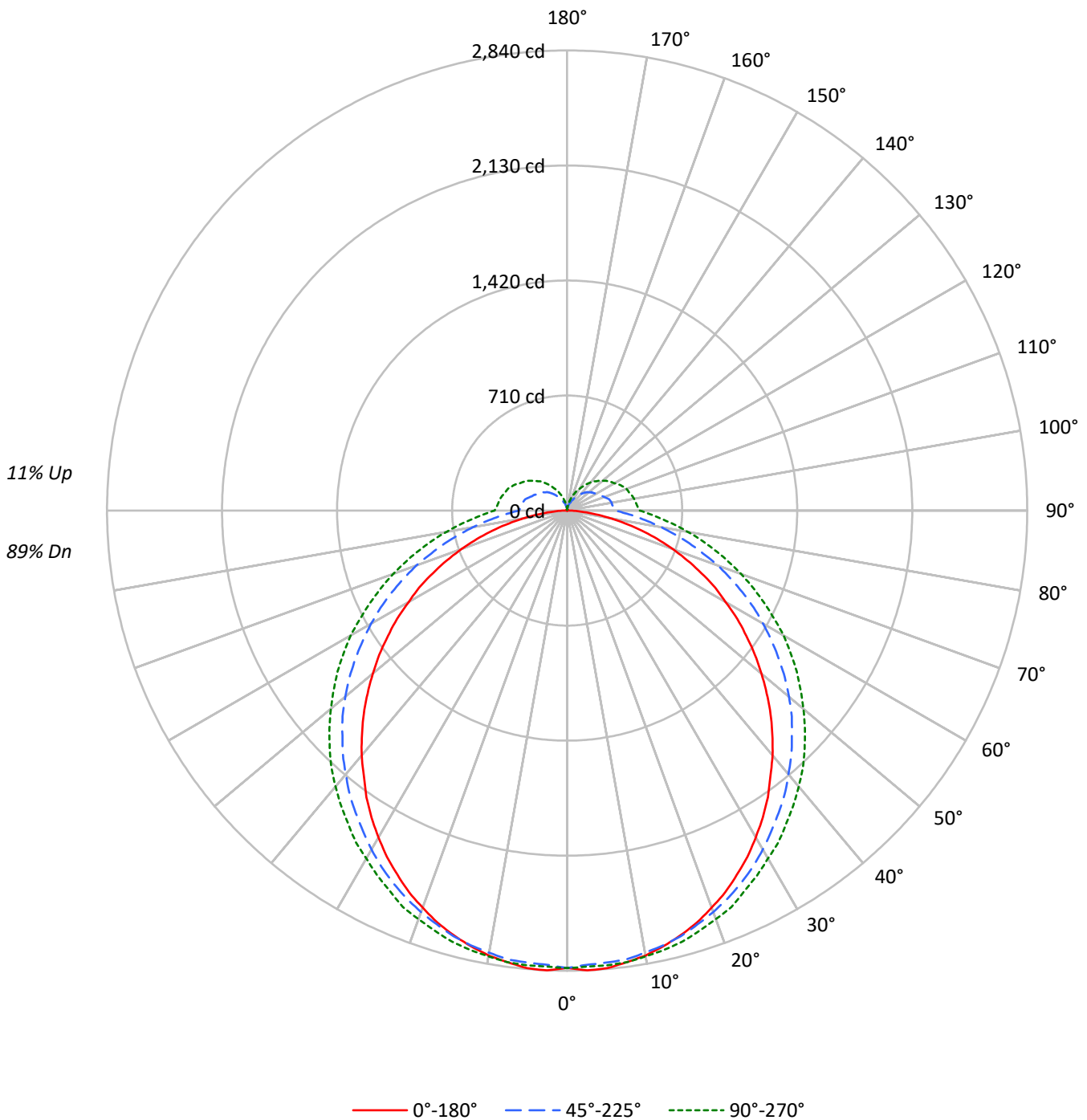
Lumens per Lamp: N/A  
Luminaire Lumens: 10050.0 lumens  
Efficiency: N/A  
Efficacy: 143.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 70  
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	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°	15194	15194	15194
5°	15287	14509	14381
10°	15181	13946	13663
15°	15030	13400	13015
20°	14823	12831	12368
25°	14583	12286	11734
30°	14297	11722	11127
35°	13984	11156	10559
40°	13625	10602	10018
45°	13236	10046	9463
50°	12793	9474	8881
55°	12305	8833	8310
60°	11731	8163	7706
65°	11141	7440	7017
70°	10310	6666	6340
75°	9209	5763	5622
80°	7423	4850	4905
85°	5227	4002	4170



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.1	2.7
10°-20°	770.7	7.7
20°-30°	1171.9	11.7
30°-40°	1422.6	14.2
40°-50°	1503.3	15.0
50°-60°	1406.7	14.0
60°-70°	1154.2	11.5
70°-80°	793.9	7.9
80°-90°	434.8	4.3
90°-100°	280.0	2.8
100°-110°	251.2	2.5
110°-120°	207.9	2.1
120°-130°	160.1	1.6
130°-140°	112.5	1.1
140°-150°	67.8	0.7
150°-160°	32.5	0.3
160°-170°	10.7	0.1
170°-180°	1.3	0.0
0°-30°	2210.8	22.0
0°-40°	3633.4	36.2
0°-60°	6543.3	65.1
0°-90°	8926.1	88.8
90°-120°	739.1	7.4
90°-150°	1079.5	10.7
90°-180°	1124.0	11.2
0°-180°	10050.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2823	2823	2823	2823	2823	
5°	2835	2829	2800	2823	2817	269
15°	2712	2724	2718	2753	2753	765
25°	2480	2509	2538	2590	2590	1143
35°	2160	2212	2276	2340	2357	1349
45°	1775	1857	1962	2049	2072	1368
55°	1350	1461	1595	1694	1729	1208
65°	914	1036	1193	1304	1339	905
75°	477	605	780	902	943	503
85°	105	250	425	541	582	121
90°	0	140	297	408	448	7
95°	0	134	285	390	431	0
105°	0	111	268	367	402	4
115°	6	99	227	326	367	6
125°	6	82	192	279	314	5
135°	6	64	157	227	256	4
145°	6	47	111	175	192	4
155°	6	29	70	111	128	3
165°	6	18	35	52	64	2
175°	6	6	12	12	6	1
180°	6	6	6	6	6	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2823.1	2823.1	2823.1	2823.1	2823.1
2.5°	2840.5	2834.7	2805.6	2828.9	2817.2
5°	2834.7	2828.9	2799.8	2823.1	2817.2
7.5°	2811.4	2811.4	2794.0	2817.2	2811.4
10°	2788.1	2788.1	2770.7	2799.8	2794.0
12.5°	2753.2	2759.0	2747.4	2782.3	2776.5
15°	2712.5	2724.1	2718.3	2753.2	2753.2
17.5°	2665.9	2677.5	2677.5	2718.3	2718.3
20°	2607.7	2625.2	2636.8	2683.4	2683.4
22.5°	2549.5	2572.8	2590.2	2631.0	2648.4
25°	2479.6	2508.7	2537.9	2590.2	2590.2
27.5°	2409.8	2444.7	2479.6	2532.0	2537.9
30°	2328.3	2369.0	2415.6	2468.0	2479.6
32.5°	2246.8	2299.2	2345.8	2409.8	2427.3
35°	2159.5	2211.9	2275.9	2339.9	2357.4
37.5°	2060.5	2124.6	2206.1	2275.9	2293.4
40°	1973.2	2043.1	2124.6	2206.1	2223.5
42.5°	1874.3	1950.0	2048.9	2124.6	2153.7
45°	1775.3	1856.8	1961.6	2048.9	2072.2
47.5°	1670.6	1763.7	1880.1	1961.6	1990.7
50°	1565.8	1664.7	1787.0	1880.1	1903.4
52.5°	1461.0	1565.8	1693.8	1787.0	1816.1
55°	1350.4	1461.0	1594.9	1693.8	1728.8
57.5°	1245.6	1356.2	1495.9	1600.7	1635.6
60°	1129.2	1257.3	1397.0	1501.8	1542.5
62.5°	1030.3	1146.7	1298.0	1402.8	1437.7
65°	913.9	1036.1	1193.3	1303.9	1338.8
67.5°	803.3	931.3	1088.5	1204.9	1239.8
70°	692.7	820.7	989.5	1100.1	1140.9
72.5°	582.1	716.0	878.9	1001.2	1041.9
75°	477.3	605.4	780.0	902.2	943.0
77.5°	366.7	506.4	681.0	803.3	849.8
80°	267.8	413.3	587.9	710.1	756.7
82.5°	180.4	326.0	500.6	622.8	669.4
85°	104.8	250.3	424.9	541.3	582.1
87.5°	52.4	192.1	355.1	471.5	512.2
90°	0.0	139.7	296.9	407.5	448.2
92.5°	0.0	133.9	291.0	395.8	436.6
95°	0.0	133.9	285.2	390.0	430.7
97.5°	0.0	128.1	279.4	390.0	424.9
100°	0.0	122.2	279.4	384.2	419.1
102.5°	0.0	116.4	273.6	378.3	413.3
105°	0.0	110.6	267.8	366.7	401.6
107.5°	5.8	110.6	256.1	360.9	395.8
110°	5.8	104.8	244.5	355.1	390.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	5.8	99.0	232.8	343.4	378.3
115°	5.8	99.0	227.0	326.0	366.7
117.5°	5.8	93.1	215.4	314.3	355.1
120°	5.8	93.1	209.5	302.7	337.6
122.5°	5.8	87.3	197.9	291.0	326.0
125°	5.8	81.5	192.1	279.4	314.3
127.5°	5.8	75.7	186.3	267.8	302.7
130°	5.8	69.8	174.6	256.1	285.2
132.5°	5.8	69.8	168.8	238.7	273.6
135°	5.8	64.0	157.2	227.0	256.1
137.5°	5.8	58.2	145.5	215.4	244.5
140°	5.8	52.4	133.9	203.7	227.0
142.5°	5.8	52.4	122.2	186.3	209.5
145°	5.8	46.6	110.6	174.6	192.1
147.5°	5.8	40.7	99.0	157.2	174.6
150°	5.8	40.7	87.3	139.7	157.2
152.5°	5.8	34.9	75.7	128.1	145.5
155°	5.8	29.1	69.8	110.6	128.1
157.5°	5.8	29.1	58.2	93.1	110.6
160°	5.8	23.3	52.4	75.7	93.1
162.5°	5.8	23.3	46.6	64.0	81.5
165°	5.8	17.5	34.9	52.4	64.0
167.5°	5.8	17.5	29.1	40.7	52.4
170°	5.8	11.6	23.3	29.1	40.7
172.5°	5.8	11.6	17.5	17.5	17.5
175°	5.8	5.8	11.6	11.6	5.8
177.5°	5.8	5.8	5.8	5.8	5.8
180°	5.8	5.8	5.8	5.8	5.8

(END OF REPORT)