

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: P568077

Luminaire Tested: **8SNX-90SL-LC-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P568077
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-90SL-LC-UNV-L850-CD
Description: 8FT 9000 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

Summary

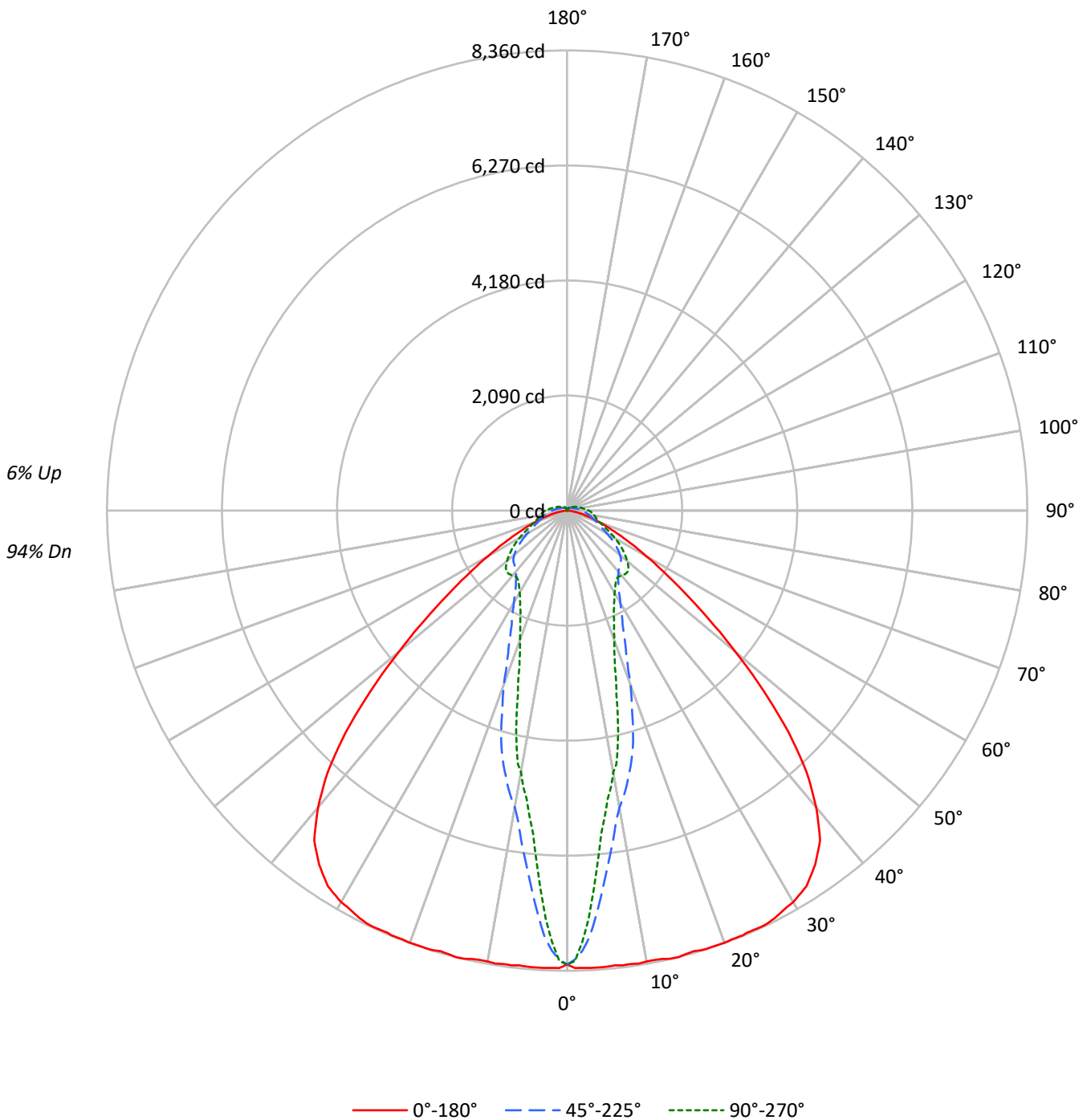
Lumens per Lamp: N/A
Luminaire Lumens: 10164.0 lumens
Efficiency: N/A
Efficacy: 170.5 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 0.43 / 0.61
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 59.6
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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94				
1	108	103	99	96	105	101	97	94	95	92	90	90	88	86	86	84	82	80				
2	99	92	86	80	96	89	84	79	85	80	76	81	77	74	77	74	71	69				
3	92	82	75	69	89	80	73	68	76	71	66	73	68	64	70	66	62	60				
4	85	74	66	60	82	72	65	59	69	63	58	66	61	56	63	59	55	53				
5	79	67	59	53	76	66	58	52	63	56	51	60	55	50	58	53	49	47				
6	73	61	53	47	71	60	52	47	58	51	46	56	50	45	53	48	44	42				
7	69	56	48	43	67	55	48	42	53	46	42	51	45	41	50	44	40	38				
8	64	52	44	39	63	51	44	39	49	43	38	48	42	37	46	41	37	35				
9	61	48	41	36	59	47	40	35	46	39	35	44	39	34	43	38	34	32				
10	57	45	38	33	56	44	37	33	43	37	32	42	36	32	40	35	31	30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	44377	44377	44377
5°	44859	36494	32626
10°	45294	27582	23612
15°	46207	22570	16350
20°	47491	16349	11547
25°	49076	11725	9085
30°	50441	9378	7737
35°	50866	7940	6929
40°	48627	7226	6946
45°	42332	6989	7136
50°	32597	6655	6659
55°	23731	5827	5909
60°	17316	4870	4996
65°	12700	4124	4095
70°	9459	3650	3531
75°	6834	3387	3291
80°	4621	3180	3241
85°	2339	3041	3247



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	648.5	6.4
10°-20°	1408.1	13.9
20°-30°	1611.8	15.9
30°-40°	1614.7	15.9
40°-50°	1528.5	15.0
50°-60°	1172.3	11.5
60°-70°	755.6	7.4
70°-80°	481.8	4.7
80°-90°	320.0	3.1
90°-100°	215.1	2.1
100°-110°	141.7	1.4
110°-120°	98.6	1.0
120°-130°	68.8	0.7
130°-140°	47.7	0.5
140°-150°	29.2	0.3
150°-160°	14.8	0.1
160°-170°	5.7	0.1
170°-180°	1.1	0.0
0°-30°	3668.4	36.1
0°-40°	5283.1	52.0
0°-60°	7983.9	78.6
0°-90°	9541.2	93.9
90°-120°	455.4	4.5
90°-150°	601.1	5.9
90°-180°	623.0	6.1
0°-180°	10164.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8246	8246	8246	8246	8246	
5°	8318	7860	7042	6568	6391	794
15°	8339	6006	4578	3761	3459	2365
25°	8344	4250	2422	2104	2005	3847
35°	7855	2365	1620	1568	1547	4874
45°	5678	1495	1365	1511	1563	4317
55°	2604	1068	1052	1182	1229	2395
65°	1042	672	662	755	781	1072
75°	354	365	458	526	552	389
85°	47	167	323	422	453	64
90°	0	115	271	375	391	2
95°	0	83	224	307	323	0
105°	0	62	146	208	224	3
115°	5	52	109	151	162	5
125°	5	47	94	109	115	5
135°	5	36	73	88	94	4
145°	5	26	52	68	73	3
155°	5	16	31	47	52	3
165°	10	10	21	26	31	3
175°	10	10	10	10	5	1
180°	10	10	10	10	10	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8245.5	8245.5	8245.5	8245.5	8245.5
1°	8313.2	8266.4	8157.0	8188.2	8183.0
2°	8313.2	8214.3	8000.7	7938.2	7844.5
3°	8318.5	8125.7	7761.1	7558.0	7427.7
4°	8318.5	7995.5	7406.9	7068.3	6901.7
5°	8318.5	7860.1	7042.3	6568.3	6391.2
6°	8308.0	7698.6	6672.5	6172.4	5906.8
7°	8323.7	7521.5	6339.1	5802.6	5594.3
8°	8318.5	7313.2	6031.8	5521.3	5292.1
9°	8334.1	7110.0	5698.4	5255.7	5083.8
10°	8318.5	6922.5	5479.7	5005.7	4828.6
11°	8318.5	6740.2	5323.4	4844.2	4693.1
12°	8328.9	6531.8	5151.5	4615.0	4406.6
13°	8354.9	6318.3	4953.6	4365.0	4120.2
14°	8360.1	6156.8	4771.3	4047.2	3792.0
15°	8339.3	6005.7	4578.5	3760.8	3458.6
16°	8328.9	5849.5	4349.3	3489.9	3219.0
17°	8349.7	5667.2	4088.9	3213.8	2963.8
18°	8354.9	5500.5	3812.8	3005.5	2786.7
19°	8354.9	5370.3	3588.9	2812.8	2625.2
20°	8354.9	5245.3	3359.7	2666.9	2505.4
21°	8344.5	5089.0	3099.2	2515.9	2380.4
22.5°	8349.7	4797.3	2802.3	2338.8	2229.4
23°	8334.1	4724.4	2729.4	2291.9	2177.3
24°	8339.3	4516.0	2573.1	2198.1	2088.7
25°	8344.5	4250.4	2422.1	2104.4	2005.4
26°	8334.1	4036.8	2297.1	2015.8	1948.1
27°	8308.0	3864.9	2208.5	1942.9	1880.4
28°	8271.6	3635.7	2114.8	1880.4	1823.1
29°	8235.1	3375.3	2021.0	1812.7	1771.0
30°	8214.3	3167.0	1932.5	1760.6	1724.1
32.5°	8089.3	2755.5	1750.2	1656.4	1625.1
35°	7854.9	2364.8	1619.9	1567.8	1547.0
37.5°	7547.6	2062.7	1521.0	1510.6	1515.8
40°	7042.3	1823.1	1448.0	1494.9	1541.8
42.5°	6438.1	1635.6	1396.0	1510.6	1562.6
45°	5677.6	1494.9	1364.7	1510.6	1562.6
47.5°	4833.8	1380.3	1328.2	1458.5	1510.6
50°	3989.9	1276.2	1255.3	1380.3	1427.2
52.5°	3245.1	1177.2	1161.6	1281.4	1328.2
55°	2604.4	1067.8	1052.2	1182.4	1229.3
57.5°	2088.7	963.6	948.0	1067.8	1114.7
60°	1666.8	859.5	833.4	953.2	1000.1
62.5°	1328.2	760.5	744.9	849.0	890.7
65°	1041.8	671.9	661.5	755.3	781.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	823.0	588.6	593.8	671.9	703.2
70°	635.5	510.5	541.7	614.6	635.5
72.5°	479.2	432.3	500.0	562.6	588.6
75°	354.2	364.6	458.4	526.1	552.1
77.5°	244.8	302.1	421.9	494.8	520.9
80°	166.7	244.8	385.5	468.8	500.0
82.5°	99.0	203.1	354.2	442.7	479.2
85°	46.9	166.7	322.9	421.9	453.2
87.5°	15.6	135.4	291.7	401.1	427.1
90°	0.0	114.6	270.9	375.0	390.7
92.5°	0.0	99.0	244.8	343.8	354.2
95°	0.0	83.3	224.0	307.3	322.9
97.5°	0.0	78.1	208.4	276.1	296.9
100°	0.0	72.9	187.5	250.0	270.9
102.5°	0.0	62.5	166.7	224.0	244.8
105°	0.0	62.5	145.8	208.4	224.0
107.5°	5.2	57.3	135.4	187.5	208.4
110°	5.2	57.3	119.8	177.1	192.7
112.5°	5.2	57.3	114.6	161.5	182.3
115°	5.2	52.1	109.4	151.1	161.5
117.5°	5.2	52.1	104.2	135.4	145.8
120°	5.2	46.9	99.0	125.0	130.2
122.5°	5.2	46.9	93.8	114.6	119.8
125°	5.2	46.9	93.8	109.4	114.6
127.5°	5.2	41.7	88.5	104.2	104.2
130°	5.2	41.7	83.3	99.0	99.0
132.5°	5.2	36.5	78.1	93.8	99.0
135°	5.2	36.5	72.9	88.5	93.8
137.5°	5.2	31.3	67.7	83.3	88.5
140°	5.2	31.3	62.5	78.1	83.3
142.5°	5.2	26.0	57.3	72.9	78.1
145°	5.2	26.0	52.1	67.7	72.9
147.5°	5.2	26.0	46.9	62.5	67.7
150°	5.2	20.8	41.7	57.3	62.5
152.5°	5.2	20.8	36.5	52.1	57.3
155°	5.2	15.6	31.3	46.9	52.1
157.5°	5.2	15.6	31.3	41.7	46.9
160°	10.4	15.6	26.0	36.5	41.7
162.5°	5.2	10.4	26.0	31.3	36.5
165°	10.4	10.4	20.8	26.0	31.3
167.5°	10.4	10.4	15.6	20.8	26.0
170°	10.4	10.4	15.6	15.6	20.8
172.5°	10.4	10.4	10.4	15.6	10.4
175°	10.4	10.4	10.4	10.4	5.2
177.5°	10.4	10.4	10.4	10.4	5.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	10.4	10.4	10.4	10.4	10.4

(END OF REPORT)