

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: P568093

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P568093
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-90SL-LW-UNV-L850-CD
Description: 8FT 9000 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

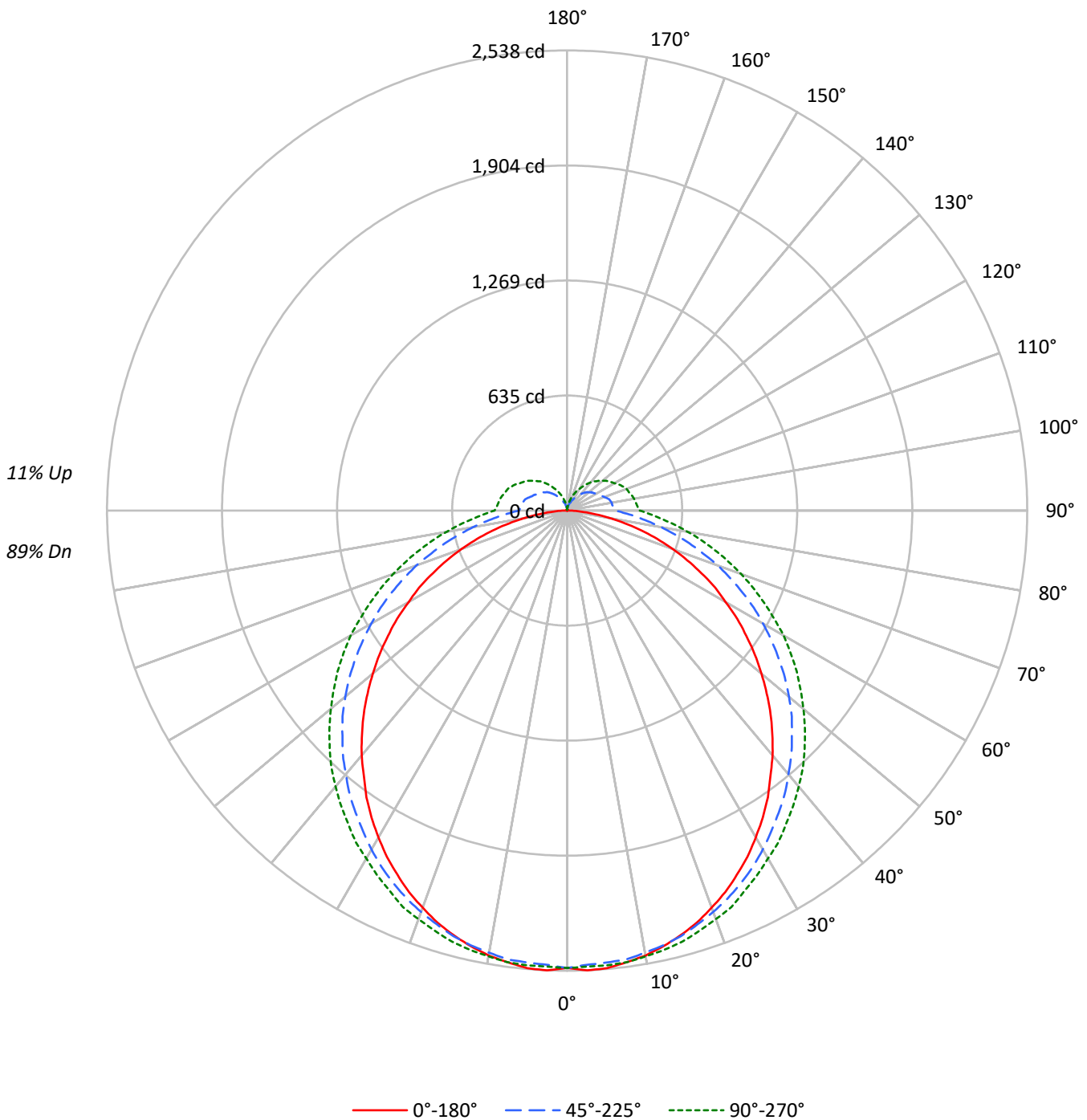
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8981.0 lumens
Efficiency: N/A
Efficacy: 150.7 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): 59.6
Input Voltage (V): NR
Input Current (A_{in}): 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

TEST NUMBER: P568093
CATALOG NUMBER: 8SNX-90SL-LW-UNV-L850-CD

Luminous Intensity Polar Plot





TEST NUMBER: P568093

CATALOG NUMBER: 8SNX-90SL-LW-UNV-L850-CD

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°	13578	13578	13578
5°	13661	12966	12852
10°	13567	12463	12210
15°	13431	11975	11631
20°	13246	11466	11052
25°	13032	10979	10486
30°	12776	10475	9943
35°	12497	9969	9436
40°	12175	9474	8952
45°	11829	8977	8457
50°	11431	8466	7936
55°	10996	7893	7426
60°	10484	7295	6886
65°	9956	6648	6271
70°	9213	5958	5665
75°	8229	5150	5024
80°	6633	4334	4384
85°	4668	3576	3726



TEST NUMBER: P568093

CATALOG NUMBER: 8SNX-90SL-LW-UNV-L850-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.6	2.7
10°-20°	688.7	7.7
20°-30°	1047.3	11.7
30°-40°	1271.3	14.2
40°-50°	1343.4	15.0
50°-60°	1257.1	14.0
60°-70°	1031.4	11.5
70°-80°	709.4	7.9
80°-90°	388.5	4.3
90°-100°	250.2	2.8
100°-110°	224.5	2.5
110°-120°	185.8	2.1
120°-130°	143.1	1.6
130°-140°	100.5	1.1
140°-150°	60.6	0.7
150°-160°	29.0	0.3
160°-170°	9.5	0.1
170°-180°	1.1	0.0
0°-30°	1975.6	22.0
0°-40°	3246.9	36.2
0°-60°	5847.3	65.1
0°-90°	7976.6	88.8
90°-120°	660.5	7.4
90°-150°	964.7	10.7
90°-180°	1004.0	11.2
0°-180°	8981.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2523	2523	2523	2523	2523	
5°	2533	2528	2502	2523	2518	240
15°	2424	2434	2429	2460	2460	684
25°	2216	2242	2268	2315	2315	1021
35°	1930	1977	2034	2091	2107	1205
45°	1586	1659	1753	1831	1852	1223
55°	1207	1306	1425	1514	1545	1080
65°	817	926	1066	1165	1196	809
75°	426	541	697	806	843	449
85°	94	224	380	484	520	108
90°	0	125	265	364	400	6
95°	0	120	255	348	385	0
105°	0	99	239	328	359	3
115°	5	88	203	291	328	5
125°	5	73	172	250	281	5
135°	5	57	140	203	229	4
145°	5	42	99	156	172	3
155°	5	26	62	99	114	2
165°	5	16	31	47	57	1
175°	5	5	10	10	5	0
180°	5	5	5	5	5	



TEST NUMBER: P568093

CATALOG NUMBER: 8SNX-90SL-LW-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2522.8	2522.8	2522.8	2522.8	2522.8
2.5°	2538.4	2533.2	2507.2	2528.0	2517.6
5°	2533.2	2528.0	2502.0	2522.8	2517.6
7.5°	2512.4	2512.4	2496.8	2517.6	2512.4
10°	2491.6	2491.6	2476.0	2502.0	2496.8
12.5°	2460.4	2465.6	2455.2	2486.4	2481.2
15°	2424.0	2434.4	2429.2	2460.4	2460.4
17.5°	2382.3	2392.7	2392.7	2429.2	2429.2
20°	2330.3	2345.9	2356.3	2397.9	2397.9
22.5°	2278.3	2299.1	2314.7	2351.1	2366.7
25°	2215.9	2241.9	2267.9	2314.7	2314.7
27.5°	2153.5	2184.7	2215.9	2262.7	2267.9
30°	2080.6	2117.1	2158.7	2205.5	2215.9
32.5°	2007.8	2054.6	2096.3	2153.5	2169.1
35°	1929.8	1976.6	2033.8	2091.0	2106.7
37.5°	1841.4	1898.6	1971.4	2033.8	2049.4
40°	1763.3	1825.8	1898.6	1971.4	1987.0
42.5°	1674.9	1742.5	1831.0	1898.6	1924.6
45°	1586.5	1659.3	1752.9	1831.0	1851.8
47.5°	1492.9	1576.1	1680.1	1752.9	1779.0
50°	1399.2	1487.7	1596.9	1680.1	1700.9
52.5°	1305.6	1399.2	1513.7	1596.9	1622.9
55°	1206.8	1305.6	1425.2	1513.7	1544.9
57.5°	1113.1	1212.0	1336.8	1430.4	1461.7
60°	1009.1	1123.5	1248.4	1342.0	1378.4
62.5°	920.7	1024.7	1160.0	1253.6	1284.8
65°	816.7	925.9	1066.3	1165.2	1196.4
67.5°	717.8	832.3	972.7	1076.7	1107.9
70°	619.0	733.4	884.3	983.1	1019.5
72.5°	520.2	639.8	785.4	894.7	931.1
75°	426.5	541.0	697.0	806.3	842.7
77.5°	327.7	452.5	608.6	717.8	759.4
80°	239.3	369.3	525.4	634.6	676.2
82.5°	161.3	291.3	447.3	556.6	598.2
85°	93.6	223.7	379.7	483.8	520.2
87.5°	46.8	171.7	317.3	421.3	457.7
90°	0.0	124.8	265.3	364.1	400.5
92.5°	0.0	119.6	260.1	353.7	390.1
95°	0.0	119.6	254.9	348.5	384.9
97.5°	0.0	114.4	249.7	348.5	379.7
100°	0.0	109.2	249.7	343.3	374.5
102.5°	0.0	104.0	244.5	338.1	369.3
105°	0.0	98.8	239.3	327.7	358.9
107.5°	5.2	98.8	228.9	322.5	353.7
110°	5.2	93.6	218.5	317.3	348.5



TEST NUMBER: P568093

CATALOG NUMBER: 8SNX-90SL-LW-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.2	88.4	208.1	306.9	338.1
115°	5.2	88.4	202.9	291.3	327.7
117.5°	5.2	83.2	192.5	280.9	317.3
120°	5.2	83.2	187.3	270.5	301.7
122.5°	5.2	78.0	176.9	260.1	291.3
125°	5.2	72.8	171.7	249.7	280.9
127.5°	5.2	67.6	166.5	239.3	270.5
130°	5.2	62.4	156.0	228.9	254.9
132.5°	5.2	62.4	150.8	213.3	244.5
135°	5.2	57.2	140.4	202.9	228.9
137.5°	5.2	52.0	130.0	192.5	218.5
140°	5.2	46.8	119.6	182.1	202.9
142.5°	5.2	46.8	109.2	166.5	187.3
145°	5.2	41.6	98.8	156.0	171.7
147.5°	5.2	36.4	88.4	140.4	156.0
150°	5.2	36.4	78.0	124.8	140.4
152.5°	5.2	31.2	67.6	114.4	130.0
155°	5.2	26.0	62.4	98.8	114.4
157.5°	5.2	26.0	52.0	83.2	98.8
160°	5.2	20.8	46.8	67.6	83.2
162.5°	5.2	20.8	41.6	57.2	72.8
165°	5.2	15.6	31.2	46.8	57.2
167.5°	5.2	15.6	26.0	36.4	46.8
170°	5.2	10.4	20.8	26.0	36.4
172.5°	5.2	10.4	15.6	15.6	15.6
175°	5.2	5.2	10.4	10.4	5.2
177.5°	5.2	5.2	5.2	5.2	5.2
180°	5.2	5.2	5.2	5.2	5.2

(END OF REPORT)