

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: P567173

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567173  
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-102SL-LN-UNV-L850-CD  
Description: 8FT 10200 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

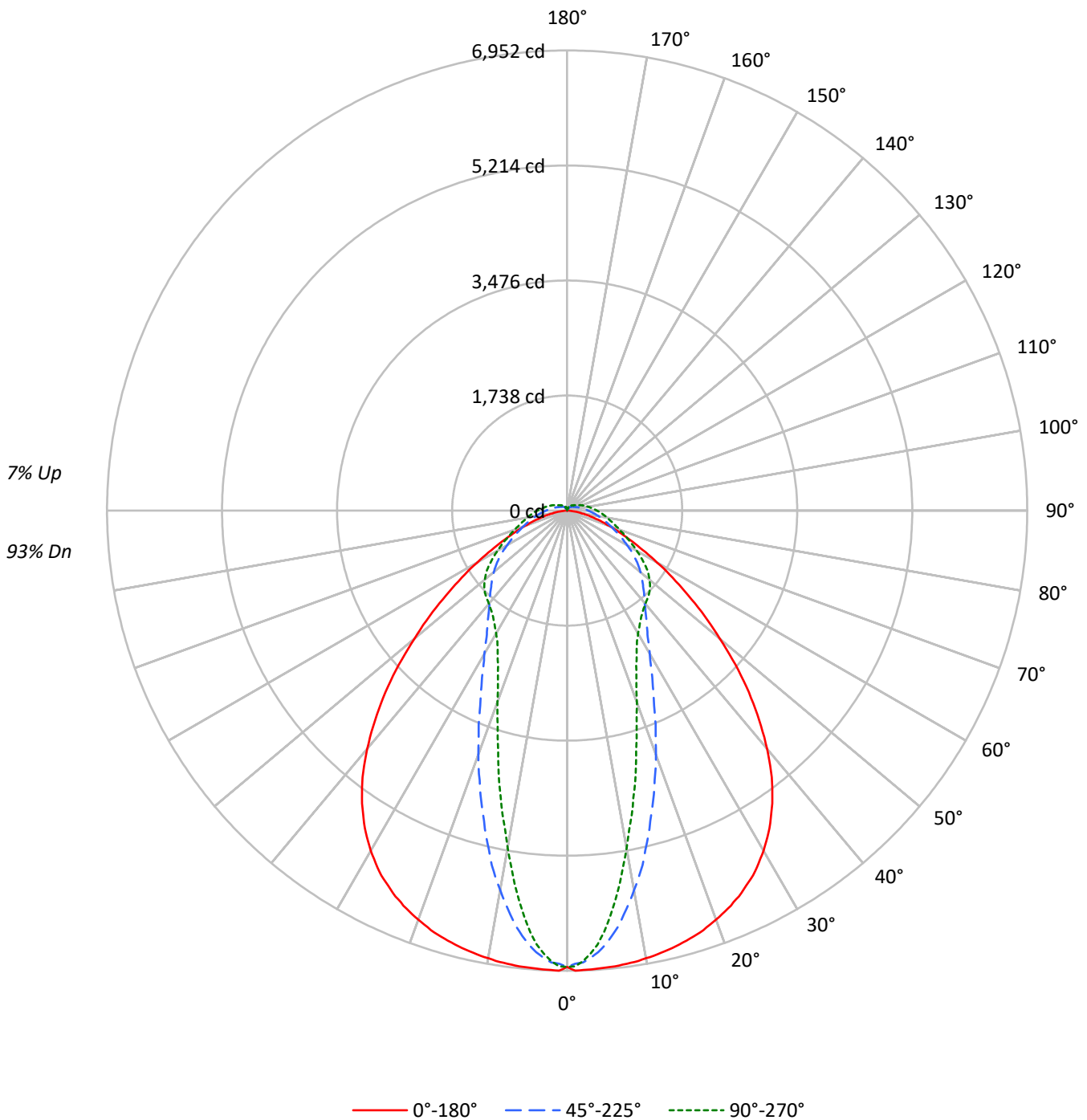
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10990.0 lumens  
Efficiency: N/A  
Efficacy: 157.0 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): 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

TEST NUMBER: P567173  
CATALOG NUMBER: 8SNX-102SL-LN-UNV-L850-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P567173

CATALOG NUMBER: 8SNX-102SL-LN-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	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°	37105	37105	37105
5°	37365	34145	32636
10°	37383	29311	25321
15°	37435	23935	18978
20°	37389	19088	14202
25°	37126	14973	11272
30°	36430	12130	9615
35°	34986	10276	8746
40°	32453	9082	8278
45°	28944	8318	8022
50°	24610	7664	7578
55°	20311	6954	6921
60°	16336	6126	6071
65°	12779	5387	5283
70°	10030	4773	4673
75°	7889	4298	4258
80°	5746	3944	3958
85°	3446	3689	3796



TEST NUMBER: P567173

CATALOG NUMBER: 8SNX-102SL-LN-UNV-L850-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	610.5	5.6
10°-20°	1431.1	13.0
20°-30°	1698.8	15.5
30°-40°	1709.1	15.6
40°-50°	1588.7	14.5
50°-60°	1308.2	11.9
60°-70°	921.8	8.4
70°-80°	602.2	5.5
80°-90°	384.5	3.5
90°-100°	252.2	2.3
100°-110°	171.2	1.6
110°-120°	117.3	1.1
120°-130°	81.2	0.7
130°-140°	54.6	0.5
140°-150°	33.7	0.3
150°-160°	17.5	0.2
160°-170°	6.3	0.1
170°-180°	1.1	0.0
0°-30°	3740.4	34.0
0°-40°	5449.5	49.6
0°-60°	8346.4	75.9
0°-90°	10255.0	93.3
90°-120°	540.7	4.9
90°-150°	710.2	6.5
90°-180°	735.0	6.7
0°-180°	10990.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6894	6894	6894	6894	6894	
5°	6929	6837	6589	6462	6393	660
15°	6756	6036	4855	4245	4014	1908
25°	6313	4665	3093	2598	2488	2905
35°	5403	3156	2096	1964	1952	3360
45°	3882	2079	1624	1711	1757	2980
55°	2229	1365	1256	1394	1440	2013
65°	1048	824	864	973	1008	1064
75°	409	426	582	685	714	442
85°	69	196	392	507	530	87
90°	0	132	317	432	449	4
95°	0	98	265	363	380	0
105°	0	69	179	253	276	0
115°	6	58	127	184	196	5
125°	6	46	104	132	144	5
135°	6	40	81	104	109	4
145°	6	29	58	81	86	4
155°	6	23	40	58	63	3
165°	6	12	23	29	35	2
175°	12	12	12	12	6	1
180°	6	6	6	6	6	



TEST NUMBER: P567173

CATALOG NUMBER: 8SNX-102SL-LN-UNV-L850-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6894.4	6894.4	6894.4	6894.4	6894.4
1°	6952.0	6923.2	6848.3	6900.1	6888.6
2°	6946.2	6917.4	6831.0	6854.0	6813.7
3°	6940.4	6900.1	6767.6	6761.9	6704.3
4°	6934.7	6871.3	6687.0	6617.9	6571.8
5°	6928.9	6836.8	6589.1	6462.4	6393.3
6°	6923.2	6796.4	6462.4	6272.3	6174.4
7°	6911.6	6733.1	6329.9	6070.7	5944.0
8°	6900.1	6675.5	6162.9	5851.9	5696.3
9°	6888.6	6600.6	5995.8	5615.7	5431.4
10°	6865.6	6525.7	5823.1	5373.8	5178.0
11°	6854.0	6439.3	5656.0	5143.4	4913.0
12°	6831.0	6347.2	5477.5	4901.5	4699.9
13°	6808.0	6249.3	5258.6	4694.2	4452.2
14°	6784.9	6145.6	5068.5	4463.8	4239.1
15°	6756.1	6036.2	4855.4	4244.9	4014.5
16°	6727.3	5909.4	4665.4	4020.3	3778.4
17°	6698.5	5788.5	4486.8	3812.9	3594.1
18°	6664.0	5667.5	4279.5	3611.3	3398.2
19°	6617.9	5529.3	4112.4	3427.0	3231.2
20°	6577.6	5402.6	3922.4	3254.2	3081.4
21°	6531.5	5247.1	3732.3	3093.0	2920.2
22.5°	6462.4	5028.2	3490.4	2891.4	2730.1
23°	6427.8	4964.9	3392.5	2816.5	2678.3
24°	6381.7	4797.8	3231.2	2701.3	2563.1
25°	6312.6	4665.4	3093.0	2597.6	2488.2
26°	6249.3	4504.1	2954.7	2505.5	2396.0
27°	6185.9	4348.6	2833.8	2407.6	2315.4
28°	6105.3	4187.3	2701.3	2326.9	2246.3
29°	6018.9	4037.5	2591.9	2257.8	2194.4
30°	5932.5	3870.5	2499.7	2194.4	2142.6
32.5°	5690.6	3501.9	2263.6	2073.5	2038.9
35°	5402.6	3156.3	2096.5	1964.1	1952.5
37.5°	5080.1	2839.5	1946.8	1877.7	1889.2
40°	4699.9	2551.5	1820.1	1814.3	1837.3
42.5°	4296.7	2303.9	1722.1	1762.5	1797.0
45°	3882.0	2079.3	1624.2	1710.6	1756.7
47.5°	3450.1	1883.4	1537.8	1647.3	1699.1
50°	3012.3	1693.4	1445.7	1572.4	1624.2
52.5°	2620.7	1526.3	1353.5	1486.0	1543.6
55°	2229.0	1365.0	1255.6	1393.8	1439.9
57.5°	1889.2	1215.3	1151.9	1290.2	1324.7
60°	1572.4	1071.3	1048.3	1175.0	1215.3
62.5°	1284.4	944.6	950.3	1071.3	1111.6
65°	1048.3	823.6	864.0	973.4	1007.9



TEST NUMBER: P567173

CATALOG NUMBER: 8SNX-102SL-LN-UNV-L850-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	852.4	708.4	777.6	892.8	921.6
70°	673.9	604.8	708.4	812.1	840.9
72.5°	535.7	512.6	639.3	748.8	771.8
75°	408.9	426.2	581.7	685.4	714.2
77.5°	293.7	357.1	524.1	633.6	656.6
80°	207.3	293.7	478.1	587.5	610.5
82.5°	132.5	241.9	432.0	547.2	570.2
85°	69.1	195.8	391.7	506.9	529.9
87.5°	28.8	161.3	351.3	466.5	489.6
90°	0.0	132.5	316.8	432.0	449.3
92.5°	0.0	115.2	288.0	397.4	414.7
95°	0.0	97.9	264.9	362.9	380.1
97.5°	0.0	92.2	236.1	334.1	351.3
100°	0.0	80.6	213.1	305.3	328.3
102.5°	0.0	74.9	195.8	276.5	299.5
105°	0.0	69.1	178.6	253.4	276.5
107.5°	0.0	63.4	167.0	236.1	253.4
110°	0.0	63.4	149.8	218.9	236.1
112.5°	5.8	57.6	138.2	195.8	213.1
115°	5.8	57.6	126.7	184.3	195.8
117.5°	5.8	57.6	121.0	167.0	178.6
120°	5.8	51.8	115.2	155.5	167.0
122.5°	5.8	51.8	109.4	144.0	149.8
125°	5.8	46.1	103.7	132.5	144.0
127.5°	5.8	46.1	97.9	126.7	132.5
130°	5.8	46.1	92.2	115.2	126.7
132.5°	5.8	40.3	86.4	109.4	115.2
135°	5.8	40.3	80.6	103.7	109.4
137.5°	5.8	34.6	74.9	97.9	103.7
140°	5.8	34.6	69.1	92.2	97.9
142.5°	5.8	28.8	63.4	86.4	92.2
145°	5.8	28.8	57.6	80.6	86.4
147.5°	5.8	28.8	51.8	74.9	80.6
150°	5.8	23.0	46.1	69.1	74.9
152.5°	5.8	23.0	40.3	63.4	69.1
155°	5.8	23.0	40.3	57.6	63.4
157.5°	5.8	17.3	34.6	46.1	57.6
160°	5.8	17.3	28.8	40.3	51.8
162.5°	5.8	17.3	28.8	34.6	40.3
165°	5.8	11.5	23.0	28.8	34.6
167.5°	5.8	11.5	17.3	23.0	28.8
170°	5.8	11.5	17.3	17.3	23.0
172.5°	5.8	11.5	11.5	11.5	11.5
175°	11.5	11.5	11.5	11.5	5.8
177.5°	11.5	11.5	11.5	5.8	5.8



TEST NUMBER: P567173

CATALOG NUMBER: 8SNX-102SL-LN-UNV-L850-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	5.8	5.8	5.8	5.8	5.8

(END OF REPORT)