

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: P568167

Luminaire Tested: **8SNX-SL3-FDL-UNV-CC83-CD-4000K-MED**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P568167  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-SL3-FDL-UNV-CC83-CD-4000K-MED  
Description: 8FT 12000 LUMEN, CCT AND LUMEN SELECTABLE SNX FIXTURE WITH, 4000K, 80CRI, MED LUMEN SETTING, AND FDL LENS  
Light Source: -  
Ballast/Driver: -

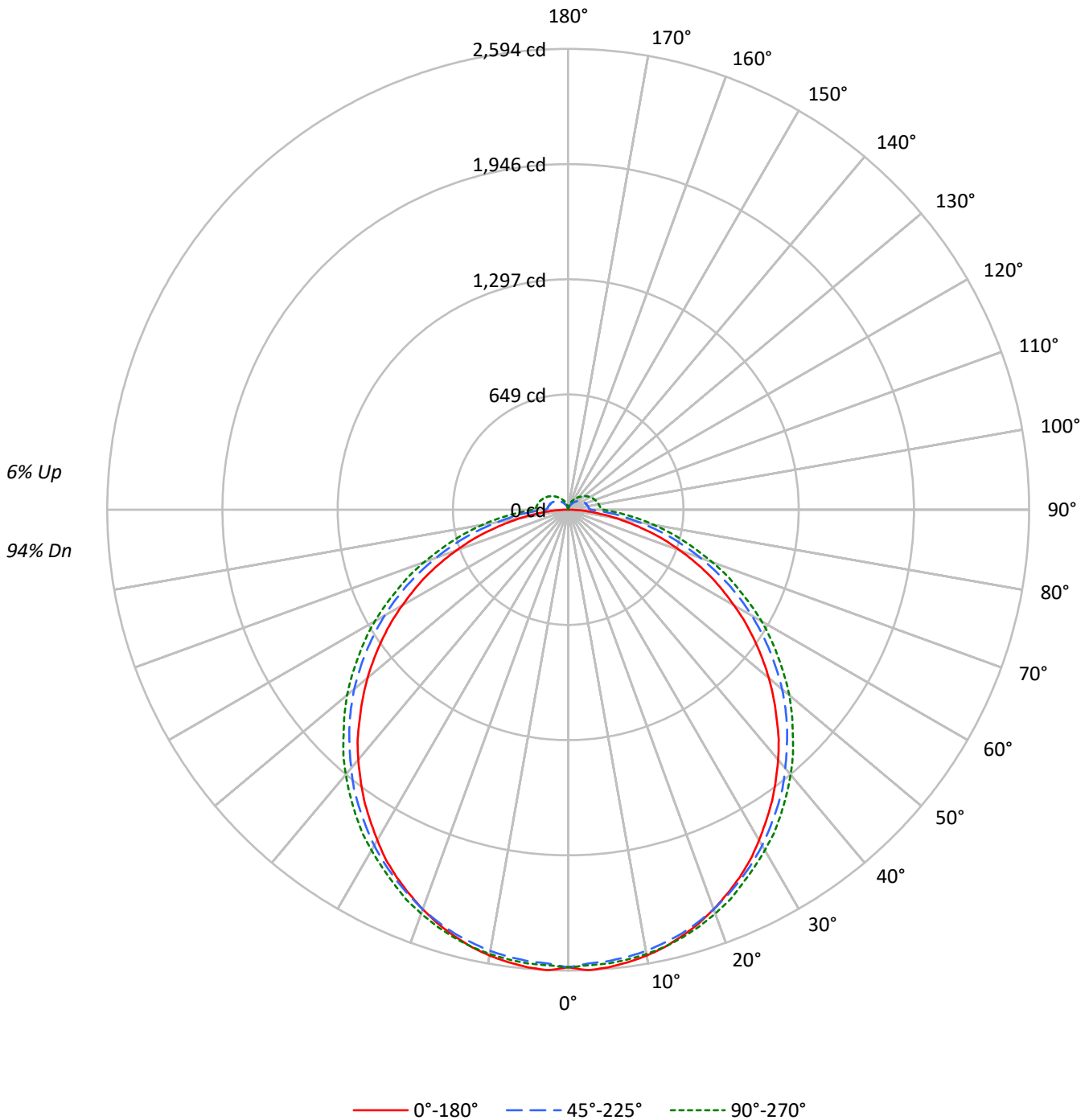
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8185.0 lumens  
Efficiency: N/A  
Efficacy: 126.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.28 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')  
CIE Type: Direct  
  
Input Watts (W): 64.548  
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	0
RCR																		
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	97	93	103	99	95	91	93	90	87	88	86	83	84	82	80	77
2	97	88	81	75	93	86	79	74	81	76	71	77	73	69	73	69	66	64
3	88	77	69	62	85	75	67	61	71	65	59	68	62	57	64	60	56	53
4	80	68	59	52	78	66	58	52	63	56	50	60	54	49	57	52	48	45
5	74	61	52	45	71	59	51	44	56	49	43	54	47	42	51	46	41	39
6	68	55	46	39	66	53	45	39	51	43	38	49	42	37	47	41	36	34
7	63	49	41	34	61	48	40	34	46	39	33	44	38	33	43	37	32	30
8	59	45	36	31	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	27	53	40	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	33	28	24	22

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

	0°	45°	90°
0°	13862	13862	13862
5°	13963	13637	13654
10°	13913	13494	13482
15°	13815	13328	13289
20°	13680	13125	13063
25°	13524	12903	12794
30°	13309	12676	12547
35°	13094	12409	12289
40°	12856	12115	11998
45°	12556	11823	11660
50°	12266	11491	11350
55°	11907	11079	10919
60°	11504	10607	10497
65°	11080	10044	9913
70°	10343	9336	9308
75°	9460	8502	8584
80°	8158	7392	7783
85°	6592	6444	6840



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.3	3.0
10°-20°	700.9	8.6
20°-30°	1062.2	13.0
30°-40°	1282.3	15.7
40°-50°	1339.1	16.4
50°-60°	1230.2	15.0
60°-70°	972.8	11.9
70°-80°	615.7	7.5
80°-90°	264.7	3.2
90°-100°	116.5	1.4
100°-110°	104.2	1.3
110°-120°	88.0	1.1
120°-130°	68.6	0.8
130°-140°	47.5	0.6
140°-150°	28.5	0.3
150°-160°	13.9	0.2
160°-170°	4.8	0.1
170°-180°	0.7	0.0
0°-30°	2007.4	24.5
0°-40°	3289.7	40.2
0°-60°	5859.0	71.6
0°-90°	7712.1	94.2
90°-120°	308.8	3.8
90°-150°	453.4	5.5
90°-180°	473.0	5.8
0°-180°	8185.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2576	2576	2576	2576	2576	
5°	2586	2579	2551	2573	2564	246
15°	2483	2483	2470	2496	2492	700
25°	2283	2293	2296	2326	2322	1051
35°	2000	2023	2050	2081	2089	1250
45°	1658	1699	1742	1776	1787	1281
55°	1278	1331	1386	1431	1441	1144
65°	880	929	994	1041	1057	866
75°	464	519	594	645	670	492
85°	113	174	249	303	322	125
90°	7	62	128	178	197	10
95°	1	54	116	162	180	1
105°	1	49	109	152	168	1
115°	1	42	99	138	152	2
125°	3	38	83	119	132	3
135°	3	29	67	94	106	2
145°	3	22	46	71	78	2
155°	3	14	30	45	54	1
165°	4	10	16	22	30	1
175°	4	6	7	7	4	0
180°	4	4	4	4	4	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2575.7	2575.7	2575.7	2575.7	2575.7
2.5°	2594.5	2585.8	2556.8	2577.1	2567.0
5°	2585.8	2578.6	2551.0	2572.8	2564.1
7.5°	2569.9	2564.1	2539.4	2562.6	2553.9
10°	2548.1	2543.8	2522.0	2545.2	2539.4
12.5°	2520.6	2519.1	2497.4	2523.5	2519.1
15°	2482.9	2482.9	2469.9	2495.9	2491.6
17.5°	2442.3	2443.8	2433.6	2461.2	2458.3
20°	2393.0	2400.3	2393.0	2422.0	2419.1
22.5°	2339.4	2349.6	2346.7	2375.6	2377.1
25°	2282.9	2293.0	2295.9	2326.4	2322.0
27.5°	2220.6	2236.5	2242.3	2269.8	2268.4
30°	2148.1	2169.8	2182.9	2206.1	2213.3
32.5°	2074.2	2100.2	2116.2	2148.1	2156.8
35°	2000.2	2023.4	2049.5	2081.4	2088.7
37.5°	1919.1	1945.2	1979.9	2010.4	2019.1
40°	1837.9	1866.9	1900.2	1933.6	1946.6
42.5°	1753.8	1784.3	1820.5	1859.6	1872.7
45°	1658.2	1698.8	1742.2	1775.6	1787.2
47.5°	1566.9	1611.8	1658.2	1694.4	1707.4
50°	1474.1	1521.9	1571.2	1604.5	1624.8
52.5°	1377.0	1429.2	1478.4	1520.5	1533.5
55°	1278.4	1330.6	1385.7	1430.6	1440.7
57.5°	1182.7	1233.5	1288.6	1330.6	1350.9
60°	1078.4	1133.5	1192.9	1234.9	1256.7
62.5°	976.9	1030.6	1094.3	1139.3	1156.7
65°	879.8	929.1	994.3	1040.7	1056.6
67.5°	772.6	829.1	891.4	945.0	965.3
70°	666.7	720.4	791.4	842.1	862.4
72.5°	568.2	620.4	691.4	742.1	761.0
75°	463.8	518.9	594.3	645.0	669.6
77.5°	363.8	424.7	497.2	552.2	579.8
80°	271.0	324.7	402.9	463.8	488.5
82.5°	184.1	242.1	323.2	379.8	407.3
85°	113.1	173.9	249.3	302.9	321.8
87.5°	53.6	111.6	181.2	233.4	256.6
90°	7.2	62.3	127.6	178.3	197.1
92.5°	1.4	53.6	117.4	165.2	182.6
95°	1.4	53.6	116.0	162.3	179.7
97.5°	1.4	52.2	114.5	160.9	176.8
100°	1.4	50.7	113.1	158.0	175.4
102.5°	1.4	50.7	110.2	155.1	171.0
105°	1.4	49.3	108.7	152.2	168.1
107.5°	1.4	47.8	105.8	149.3	165.2
110°	1.4	44.9	104.4	144.9	160.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	43.5	101.5	142.0	156.5
115°	1.4	42.0	98.6	137.7	152.2
117.5°	1.4	40.6	94.2	133.3	147.8
120°	2.9	40.6	91.3	129.0	142.0
122.5°	2.9	39.1	87.0	123.2	136.2
125°	2.9	37.7	82.6	118.9	131.9
127.5°	2.9	36.2	78.3	113.1	124.7
130°	2.9	33.3	75.4	107.3	118.9
132.5°	2.9	31.9	71.0	100.0	111.6
135°	2.9	29.0	66.7	94.2	105.8
137.5°	2.9	27.5	62.3	88.4	98.6
140°	2.9	26.1	56.5	82.6	92.8
142.5°	2.9	23.2	52.2	76.8	85.5
145°	2.9	21.7	46.4	71.0	78.3
147.5°	2.9	18.8	42.0	65.2	72.5
150°	2.9	17.4	37.7	59.4	66.7
152.5°	2.9	15.9	33.3	52.2	59.4
155°	2.9	14.5	30.4	44.9	53.6
157.5°	2.9	13.0	26.1	39.1	47.8
160°	4.3	11.6	23.2	33.3	40.6
162.5°	4.3	10.1	18.8	27.5	36.2
165°	4.3	10.1	15.9	21.7	30.4
167.5°	4.3	8.7	13.0	17.4	24.6
170°	4.3	7.2	11.6	13.0	18.8
172.5°	4.3	5.8	8.7	8.7	10.1
175°	4.3	5.8	7.2	7.2	4.3
177.5°	4.3	4.3	4.3	4.3	2.9
180°	4.3	4.3	4.3	4.3	4.3

(END OF REPORT)