

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: P568186

Luminaire Tested: **8SNX-SL3-LC-UNV-CC83-CD-5000K-HI**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P568186  
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-SL3-LC-UNV-CC83-CD-5000K-HI  
Description: 8FT 12000 LUMEN, CCT AND LUMEN SELECTABLE SNX FIXTURE WITH, 5000K, 80CRI, HI LUMEN SETTING, AND LC LENS  
Light Source: -  
Ballast/Driver: -

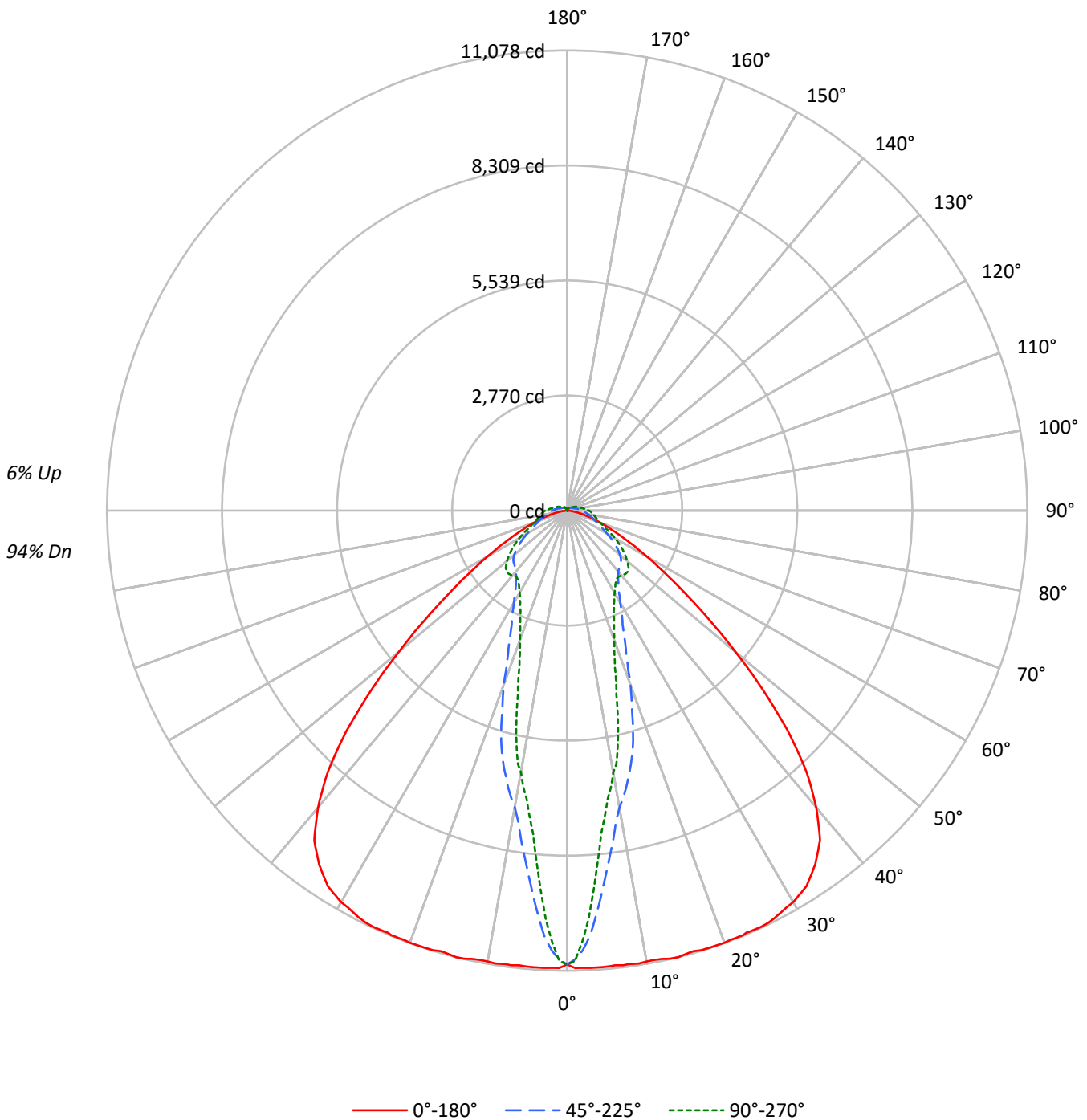
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13467.9 lumens  
Efficiency: N/A  
Efficacy: 131.8 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): 102.2  
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°	58803	58803	58803
5°	59441	48357	43231
10°	60017	36548	31288
15°	61227	29908	21665
20°	62929	21664	15301
25°	65028	15536	12038
30°	66838	12425	10252
35°	67400	10521	9182
40°	64433	9575	9204
45°	56092	9261	9456
50°	43194	8818	8824
55°	31446	7721	7830
60°	22945	6453	6620
65°	16827	5465	5426
70°	12532	4836	4679
75°	9055	4488	4361
80°	6123	4213	4295
85°	3097	4030	4302



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	859.2	6.4
10°-20°	1865.9	13.9
20°-30°	2135.8	15.9
30°-40°	2139.6	15.9
40°-50°	2025.4	15.0
50°-60°	1553.3	11.5
60°-70°	1001.2	7.4
70°-80°	638.5	4.7
80°-90°	424.0	3.1
90°-100°	285.0	2.1
100°-110°	187.8	1.4
110°-120°	130.6	1.0
120°-130°	91.1	0.7
130°-140°	63.3	0.5
140°-150°	38.7	0.3
150°-160°	19.6	0.1
160°-170°	7.6	0.1
170°-180°	1.5	0.0
0°-30°	4860.9	36.1
0°-40°	7000.4	52.0
0°-60°	10579.1	78.6
0°-90°	12642.8	93.9
90°-120°	603.4	4.5
90°-150°	796.5	5.9
90°-180°	825.0	6.1
0°-180°	13467.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10926	10926	10926	10926	10926	
5°	11022	10415	9332	8703	8469	###
15°	11050	7958	6067	4983	4583	3134
25°	11057	5632	3209	2788	2657	5097
35°	10408	3134	2146	2078	2050	6458
45°	7523	1981	1808	2002	2071	5720
55°	3451	1415	1394	1567	1629	3173
65°	1380	890	877	1001	1035	1420
75°	469	483	607	697	732	516
85°	62	221	428	559	600	85
90°	0	152	359	497	518	3
95°	0	110	297	407	428	0
105°	0	83	193	276	297	5
115°	7	69	145	200	214	7
125°	7	62	124	145	152	6
135°	7	48	97	117	124	5
145°	7	34	69	90	97	4
155°	7	21	41	62	69	4
165°	14	14	28	34	41	3
175°	14	14	14	14	7	1
180°	14	14	14	14	14	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10925.9	10925.9	10925.9	10925.9	10925.9
1°	11015.6	10953.5	10808.6	10850.0	10843.1
2°	11015.6	10884.5	10601.5	10518.7	10394.4
3°	11022.5	10767.1	10284.0	10014.8	9842.3
4°	11022.5	10594.6	9814.7	9366.0	9145.2
5°	11022.5	10415.1	9331.5	8703.4	8468.8
6°	11008.7	10201.2	8841.5	8178.9	7826.9
7°	11029.4	9966.5	8399.8	7688.8	7412.8
8°	11022.5	9690.4	7992.5	7316.1	7012.5
9°	11043.2	9421.3	7550.8	6964.1	6736.4
10°	11022.5	9172.8	7260.9	6632.8	6398.2
11°	11022.5	8931.2	7053.9	6418.9	6218.7
12°	11036.3	8655.1	6826.1	6115.2	5839.1
13°	11070.8	8372.1	6563.8	5783.9	5459.5
14°	11077.7	8158.2	6322.2	5362.9	5024.7
15°	11050.1	7958.0	6066.9	4983.3	4582.9
16°	11036.3	7751.0	5763.2	4624.4	4265.4
17°	11063.9	7509.4	5418.1	4258.5	3927.2
18°	11070.8	7288.5	5052.3	3982.5	3692.6
19°	11070.8	7116.0	4755.5	3727.1	3478.6
20°	11070.8	6950.3	4451.8	3533.8	3319.9
21°	11057.0	6743.3	4106.7	3333.7	3154.2
22.5°	11063.9	6356.8	3713.3	3099.0	2954.1
23°	11043.2	6260.1	3616.7	3036.9	2885.0
24°	11050.1	5984.0	3409.6	2912.7	2767.7
25°	11057.0	5632.0	3209.4	2788.4	2657.3
26°	11043.2	5349.1	3043.8	2671.1	2581.4
27°	11008.7	5121.3	2926.5	2574.5	2491.6
28°	10960.4	4817.6	2802.2	2491.6	2415.7
29°	10912.1	4472.5	2678.0	2401.9	2346.7
30°	10884.5	4196.4	2560.6	2332.9	2284.6
32.5°	10718.8	3651.2	2319.1	2194.8	2153.4
35°	10408.2	3133.5	2146.5	2077.5	2049.9
37.5°	10001.0	2733.2	2015.4	2001.6	2008.5
40°	9331.5	2415.7	1918.8	1980.9	2043.0
42.5°	8530.9	2167.2	1849.7	2001.6	2070.6
45°	7523.2	1980.9	1808.3	2001.6	2070.6
47.5°	6405.1	1829.0	1760.0	1932.6	2001.6
50°	5286.9	1691.0	1663.4	1829.0	1891.2
52.5°	4300.0	1559.9	1539.2	1697.9	1760.0
55°	3451.0	1414.9	1394.2	1566.8	1628.9
57.5°	2767.7	1276.9	1256.2	1414.9	1477.0
60°	2208.6	1138.8	1104.3	1263.1	1325.2
62.5°	1760.0	1007.7	987.0	1125.0	1180.2
65°	1380.4	890.4	876.6	1000.8	1035.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1090.5	779.9	786.8	890.4	931.8
70°	842.0	676.4	717.8	814.4	842.0
72.5°	635.0	572.9	662.6	745.4	779.9
75°	469.3	483.1	607.4	697.1	731.6
77.5°	324.4	400.3	559.1	655.7	690.2
80°	220.9	324.4	510.7	621.2	662.6
82.5°	131.1	269.2	469.3	586.7	635.0
85°	62.1	220.9	427.9	559.1	600.5
87.5°	20.7	179.5	386.5	531.5	566.0
90°	0.0	151.8	358.9	496.9	517.7
92.5°	0.0	131.1	324.4	455.5	469.3
95°	0.0	110.4	296.8	407.2	427.9
97.5°	0.0	103.5	276.1	365.8	393.4
100°	0.0	96.6	248.5	331.3	358.9
102.5°	0.0	82.8	220.9	296.8	324.4
105°	0.0	82.8	193.3	276.1	296.8
107.5°	6.9	75.9	179.5	248.5	276.1
110°	6.9	75.9	158.7	234.7	255.4
112.5°	6.9	75.9	151.8	214.0	241.6
115°	6.9	69.0	144.9	200.2	214.0
117.5°	6.9	69.0	138.0	179.5	193.3
120°	6.9	62.1	131.1	165.6	172.6
122.5°	6.9	62.1	124.2	151.8	158.7
125°	6.9	62.1	124.2	144.9	151.8
127.5°	6.9	55.2	117.3	138.0	138.0
130°	6.9	55.2	110.4	131.1	131.1
132.5°	6.9	48.3	103.5	124.2	131.1
135°	6.9	48.3	96.6	117.3	124.2
137.5°	6.9	41.4	89.7	110.4	117.3
140°	6.9	41.4	82.8	103.5	110.4
142.5°	6.9	34.5	75.9	96.6	103.5
145°	6.9	34.5	69.0	89.7	96.6
147.5°	6.9	34.5	62.1	82.8	89.7
150°	6.9	27.6	55.2	75.9	82.8
152.5°	6.9	27.6	48.3	69.0	75.9
155°	6.9	20.7	41.4	62.1	69.0
157.5°	6.9	20.7	41.4	55.2	62.1
160°	13.8	20.7	34.5	48.3	55.2
162.5°	6.9	13.8	34.5	41.4	48.3
165°	13.8	13.8	27.6	34.5	41.4
167.5°	13.8	13.8	20.7	27.6	34.5
170°	13.8	13.8	20.7	20.7	27.6
172.5°	13.8	13.8	13.8	20.7	13.8
175°	13.8	13.8	13.8	13.8	6.9
177.5°	13.8	13.8	13.8	13.8	6.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	13.8	13.8	13.8	13.8	13.8

(END OF REPORT)