

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: P568035

Luminaire Tested: **8SNX-82SL-LN-UNV-L835-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P568035  
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-82SL-LN-UNV-L835-CD  
Description: 8FT 8200 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

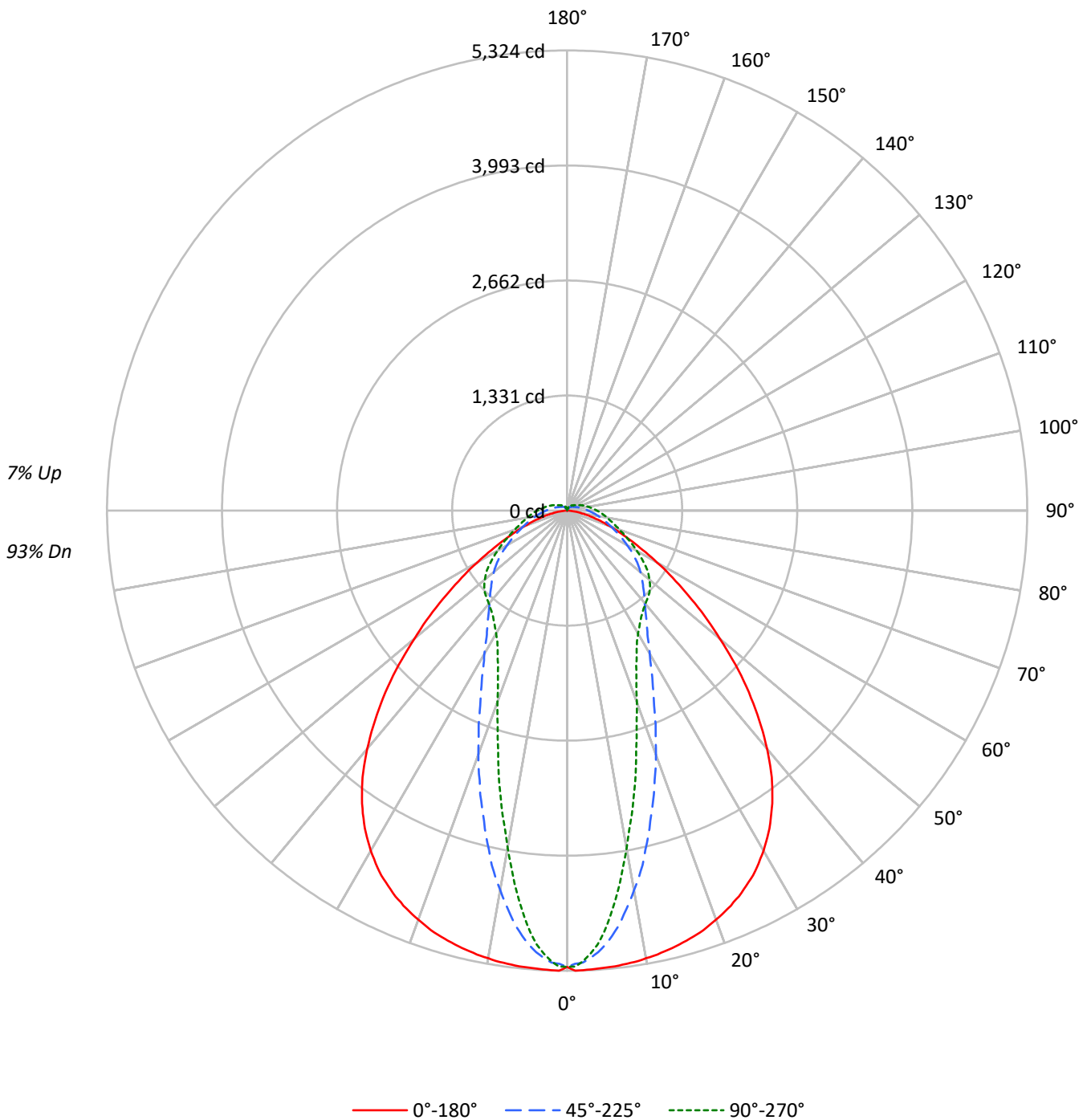
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8417.0 lumens  
Efficiency: N/A  
Efficacy: 160.0 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): 52.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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°	28418	28418	28418
5°	28617	26151	24996
10°	28631	22448	19393
15°	28671	18332	14535
20°	28635	14618	10877
25°	28434	11467	8632
30°	27901	9290	7364
35°	26794	7871	6698
40°	24855	6956	6340
45°	22168	6371	6144
50°	18849	5870	5804
55°	15555	5325	5301
60°	12512	4691	4650
65°	9786	4126	4046
70°	7682	3656	3579
75°	6043	3292	3261
80°	4402	3020	3031
85°	2638	2825	2907



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	467.6	5.6
10°-20°	1096.1	13.0
20°-30°	1301.0	15.5
30°-40°	1309.0	15.6
40°-50°	1216.8	14.5
50°-60°	1001.9	11.9
60°-70°	706.0	8.4
70°-80°	461.2	5.5
80°-90°	294.5	3.5
90°-100°	193.1	2.3
100°-110°	131.1	1.6
110°-120°	89.8	1.1
120°-130°	62.2	0.7
130°-140°	41.8	0.5
140°-150°	25.8	0.3
150°-160°	13.4	0.2
160°-170°	4.8	0.1
170°-180°	0.8	0.0
0°-30°	2864.7	34.0
0°-40°	4173.7	49.6
0°-60°	6392.4	75.9
0°-90°	7854.1	93.3
90°-120°	414.1	4.9
90°-150°	543.9	6.5
90°-180°	563.0	6.7
0°-180°	8417.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5280	5280	5280	5280	5280	
5°	5307	5236	5046	4949	4896	505
15°	5174	4623	3719	3251	3075	1461
25°	4835	3573	2369	1990	1906	2225
35°	4138	2417	1606	1504	1495	2573
45°	2973	1592	1244	1310	1345	2282
55°	1707	1046	962	1068	1103	1542
65°	803	631	662	746	772	815
75°	313	326	446	525	547	339
85°	53	150	300	388	406	67
90°	0	102	243	331	344	3
95°	0	75	203	278	291	0
105°	0	53	137	194	212	0
115°	4	44	97	141	150	4
125°	4	35	79	102	110	4
135°	4	31	62	79	84	3
145°	4	22	44	62	66	3
155°	4	18	31	44	48	2
165°	4	9	18	22	26	1
175°	9	9	9	9	4	1
180°	4	4	4	4	4	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5280.2	5280.2	5280.2	5280.2	5280.2
1°	5324.3	5302.3	5244.9	5284.6	5275.8
2°	5319.9	5297.9	5231.7	5249.4	5218.5
3°	5315.5	5284.6	5183.2	5178.8	5134.7
4°	5311.1	5262.6	5121.4	5068.5	5033.2
5°	5306.7	5236.1	5046.4	4949.4	4896.5
6°	5302.3	5205.2	4949.4	4803.8	4728.8
7°	5293.5	5156.7	4847.9	4649.4	4552.4
8°	5284.6	5112.6	4720.0	4481.8	4362.7
9°	5275.8	5055.3	4592.1	4300.9	4159.8
10°	5258.2	4997.9	4459.7	4115.7	3965.7
11°	5249.4	4931.7	4331.8	3939.2	3762.8
12°	5231.7	4861.2	4195.1	3754.0	3599.6
13°	5214.1	4786.2	4027.4	3595.1	3409.9
14°	5196.4	4706.8	3881.9	3418.7	3246.7
15°	5174.4	4623.0	3718.7	3251.1	3074.6
16°	5152.3	4525.9	3573.1	3079.0	2893.8
17°	5130.3	4433.3	3436.3	2920.2	2752.6
18°	5103.8	4340.6	3277.5	2765.8	2602.6
19°	5068.5	4234.8	3149.6	2624.7	2474.7
20°	5037.6	4137.7	3004.0	2492.3	2360.0
21°	5002.3	4018.6	2858.5	2368.8	2236.5
22.5°	4949.4	3851.0	2673.2	2214.4	2090.9
23°	4922.9	3802.5	2598.2	2157.1	2051.2
24°	4887.6	3674.6	2474.7	2068.9	1963.0
25°	4834.7	3573.1	2368.8	1989.5	1905.6
26°	4786.2	3449.6	2263.0	1918.9	1835.1
27°	4737.7	3330.5	2170.3	1843.9	1773.3
28°	4675.9	3207.0	2068.9	1782.1	1720.4
29°	4609.7	3092.3	1985.1	1729.2	1680.7
30°	4543.6	2964.3	1914.5	1680.7	1641.0
32.5°	4358.3	2682.0	1733.6	1588.0	1561.6
35°	4137.7	2417.4	1605.7	1504.2	1495.4
37.5°	3890.7	2174.7	1491.0	1438.1	1446.9
40°	3599.6	1954.2	1393.9	1389.5	1407.2
42.5°	3290.8	1764.5	1319.0	1349.8	1376.3
45°	2973.2	1592.5	1244.0	1310.1	1345.4
47.5°	2642.3	1442.5	1177.8	1261.6	1301.3
50°	2307.1	1296.9	1107.2	1204.3	1244.0
52.5°	2007.1	1169.0	1036.6	1138.1	1182.2
55°	1707.1	1045.5	961.6	1067.5	1102.8
57.5°	1446.9	930.8	882.2	988.1	1014.6
60°	1204.3	820.5	802.8	899.9	930.8
62.5°	983.7	723.4	727.9	820.5	851.4
65°	802.8	630.8	661.7	745.5	772.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	652.9	542.6	595.5	683.7	705.8
70°	516.1	463.2	542.6	622.0	644.0
72.5°	410.2	392.6	489.6	573.5	591.1
75°	313.2	326.4	445.5	524.9	547.0
77.5°	225.0	273.5	401.4	485.2	502.9
80°	158.8	225.0	366.1	449.9	467.6
82.5°	101.5	185.3	330.8	419.1	436.7
85°	52.9	150.0	300.0	388.2	405.8
87.5°	22.1	123.5	269.1	357.3	375.0
90°	0.0	101.5	242.6	330.8	344.1
92.5°	0.0	88.2	220.6	304.4	317.6
95°	0.0	75.0	202.9	277.9	291.1
97.5°	0.0	70.6	180.9	255.9	269.1
100°	0.0	61.8	163.2	233.8	251.4
102.5°	0.0	57.3	150.0	211.7	229.4
105°	0.0	52.9	136.7	194.1	211.7
107.5°	0.0	48.5	127.9	180.9	194.1
110°	0.0	48.5	114.7	167.6	180.9
112.5°	4.4	44.1	105.9	150.0	163.2
115°	4.4	44.1	97.0	141.2	150.0
117.5°	4.4	44.1	92.6	127.9	136.7
120°	4.4	39.7	88.2	119.1	127.9
122.5°	4.4	39.7	83.8	110.3	114.7
125°	4.4	35.3	79.4	101.5	110.3
127.5°	4.4	35.3	75.0	97.0	101.5
130°	4.4	35.3	70.6	88.2	97.0
132.5°	4.4	30.9	66.2	83.8	88.2
135°	4.4	30.9	61.8	79.4	83.8
137.5°	4.4	26.5	57.3	75.0	79.4
140°	4.4	26.5	52.9	70.6	75.0
142.5°	4.4	22.1	48.5	66.2	70.6
145°	4.4	22.1	44.1	61.8	66.2
147.5°	4.4	22.1	39.7	57.3	61.8
150°	4.4	17.6	35.3	52.9	57.3
152.5°	4.4	17.6	30.9	48.5	52.9
155°	4.4	17.6	30.9	44.1	48.5
157.5°	4.4	13.2	26.5	35.3	44.1
160°	4.4	13.2	22.1	30.9	39.7
162.5°	4.4	13.2	22.1	26.5	30.9
165°	4.4	8.8	17.6	22.1	26.5
167.5°	4.4	8.8	13.2	17.6	22.1
170°	4.4	8.8	13.2	13.2	17.6
172.5°	4.4	8.8	8.8	8.8	8.8
175°	8.8	8.8	8.8	8.8	4.4
177.5°	8.8	8.8	8.8	4.4	4.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	4.4	4.4	4.4	4.4	4.4

(END OF REPORT)