

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: P567597

Luminaire Tested: **8SNX-180HL-LC-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567597  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-180HL-LC-UNV-L850-CD  
Description: 8FT 18000 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

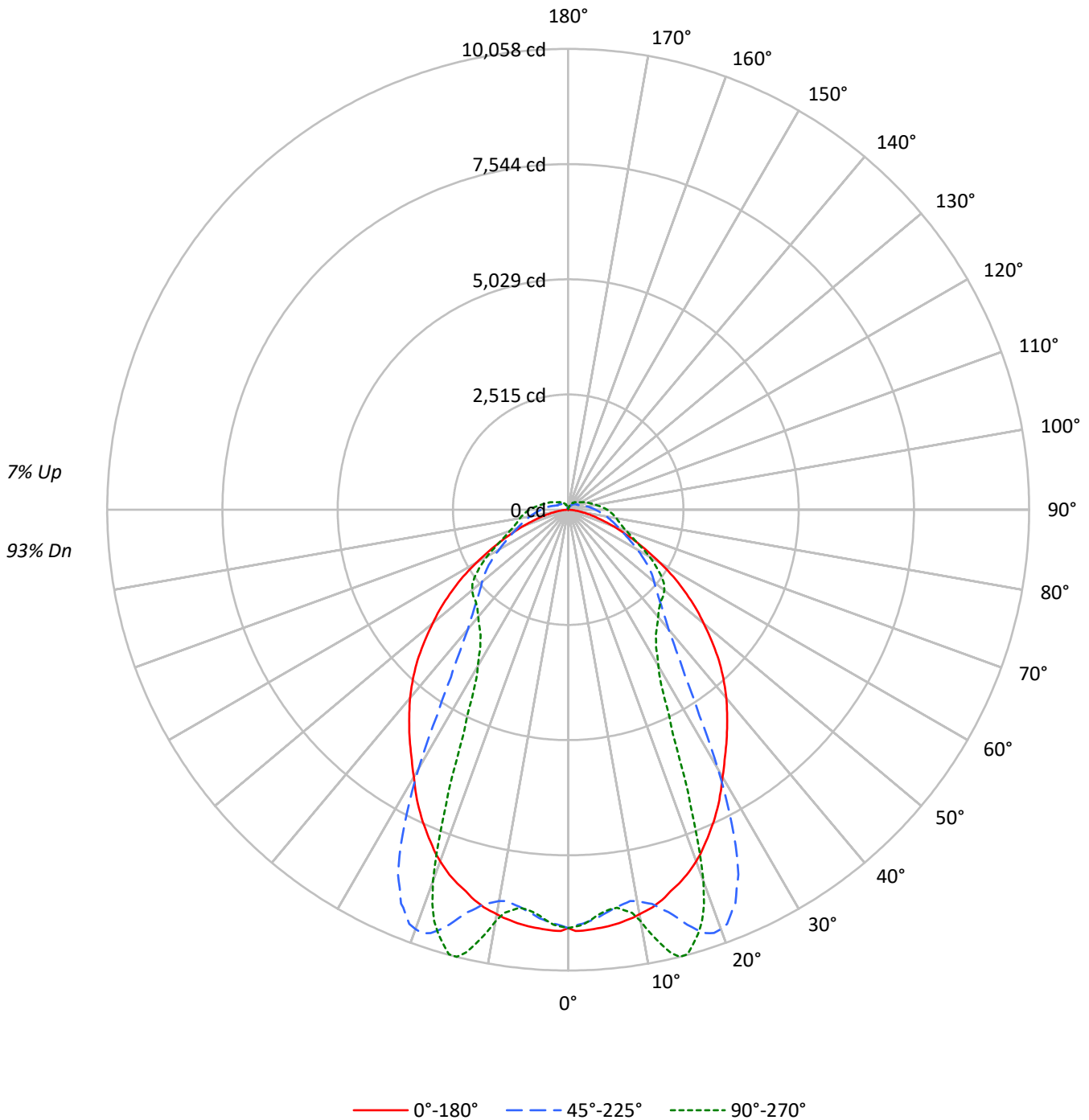
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20300.1 lumens  
Efficiency: N/A  
Efficacy: 157.6 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 128.8  
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	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	89	89	87	85	85	83	81	78
2	99	91	84	79	95	88	83	78	84	79	75	80	76	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	68	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	58	51	45	56	49	44	54	48	43	52	46	42	40
7	67	55	46	41	65	54	46	40	51	45	40	49	43	39	48	42	38	36
8	63	50	42	37	61	49	42	36	47	41	36	46	40	35	44	39	35	33
9	59	46	39	34	57	46	38	33	44	37	33	42	36	32	41	36	32	30
10	56	43	36	31	54	42	35	30	41	34	30	40	34	30	38	33	29	27

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

	0°	45°	90°
0°	49159	49159	49159
5°	49307	45936	44998
10°	48806	43667	44621
15°	47760	45471	47502
20°	46406	47405	39756
25°	44167	42537	24445
30°	41358	31690	17691
35°	39078	21877	14924
40°	37046	16982	13754
45°	34663	14461	13008
50°	31526	12980	12769
55°	28214	11741	11814
60°	23925	10161	10219
65°	19458	8850	8529
70°	15269	7956	7509
75°	11841	7397	7003
80°	8332	7005	6932
85°	4638	6685	6883



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	849.9	4.2
10°-20°	2597.1	12.8
20°-30°	3497.1	17.2
30°-40°	3309.6	16.3
40°-50°	2921.2	14.4
50°-60°	2372.7	11.7
60°-70°	1613.7	7.9
70°-80°	1038.3	5.1
80°-90°	690.4	3.4
90°-100°	474.5	2.3
100°-110°	318.5	1.6
110°-120°	224.6	1.1
120°-130°	160.5	0.8
130°-140°	113.3	0.6
140°-150°	70.3	0.3
150°-160°	34.3	0.2
160°-170°	12.0	0.1
170°-180°	2.1	0.0
0°-30°	6944.1	34.2
0°-40°	10253.7	50.5
0°-60°	15547.6	76.6
0°-90°	18890.0	93.1
90°-120°	1017.6	5.0
90°-150°	1361.7	6.7
90°-180°	1410.0	6.9
0°-180°	20300.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9134	9134	9134	9134	9134	
5°	9143	9060	8864	8858	8815	867
15°	8620	8564	9224	10039	10048	2430
25°	7510	8905	8787	6382	5396	3446
35°	6035	8468	4463	3437	3332	3776
45°	4649	5697	2824	2790	2848	3569
55°	3096	3369	2120	2368	2458	2765
65°	1596	1816	1420	1578	1627	1603
75°	614	858	1001	1122	1175	668
85°	93	366	710	899	961	122
90°	3	254	592	797	849	6
95°	3	195	499	676	722	3
105°	6	136	328	462	518	6
115°	6	118	242	344	387	7
125°	9	99	208	260	279	9
135°	12	78	170	217	229	10
145°	12	56	121	167	183	8
155°	16	34	74	112	127	7
165°	16	22	40	56	68	5
175°	19	19	19	19	16	2
180°	16	16	16	16	16	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9134.0	9134.0	9134.0	9134.0	9134.0
1°	9196.0	9168.1	9075.1	9124.7	9099.9
2°	9192.9	9146.4	9041.0	9096.8	9065.8
3°	9177.4	9127.8	8991.4	9025.5	8979.0
4°	9161.9	9103.0	8938.7	8938.7	8886.0
5°	9143.3	9059.6	8864.4	8858.2	8814.8
6°	9121.6	9025.5	8799.3	8793.1	8768.3
7°	9090.6	8966.6	8728.0	8771.4	8752.8
8°	9053.4	8910.8	8690.8	8799.3	8827.2
9°	9019.3	8842.7	8647.4	8886.0	8907.7
10°	8963.5	8780.7	8675.3	9059.6	9124.7
11°	8917.0	8728.0	8737.3	9230.1	9425.3
12°	8870.5	8672.2	8796.2	9443.9	9682.6
13°	8793.1	8628.8	8926.3	9676.4	9921.3
14°	8724.9	8594.7	9053.4	9912.0	10057.6
15°	8619.5	8563.7	9223.9	10039.0	10048.3
16°	8548.2	8542.0	9422.2	10048.3	9874.8
17°	8467.6	8532.7	9583.4	9887.2	9682.6
18°	8377.7	8551.3	9716.7	9685.7	9450.1
19°	8275.5	8569.9	9772.5	9406.7	9103.0
20°	8163.9	8597.8	9741.5	9115.4	8625.7
21°	8052.3	8635.0	9682.6	8808.6	7999.6
22.5°	7844.6	8724.9	9403.6	7946.9	6964.4
23°	7785.8	8743.5	9338.6	7677.3	6694.8
24°	7640.1	8821.0	9041.0	7048.1	5981.9
25°	7509.9	8904.6	8786.9	6381.7	5396.1
26°	7364.2	8966.6	8402.5	5768.0	5036.6
27°	7221.7	9003.8	7965.5	5290.7	4633.6
28°	7057.4	9044.1	7491.3	4878.5	4329.9
29°	6902.4	9050.3	7023.3	4550.0	4091.2
30°	6735.0	9019.3	6530.5	4286.5	3942.5
32.5°	6369.3	8848.9	5324.8	3784.4	3570.5
35°	6034.6	8467.6	4463.2	3437.3	3331.9
37.5°	5696.7	7866.3	3858.8	3220.3	3186.2
40°	5365.1	7153.5	3403.2	3046.7	3052.9
42.5°	5014.9	6418.9	3090.1	2904.2	2932.1
45°	4649.1	5696.7	2823.6	2789.5	2848.4
47.5°	4243.1	5036.6	2612.8	2715.1	2805.0
50°	3858.8	4382.6	2448.5	2643.8	2736.8
52.5°	3493.0	3846.4	2299.8	2522.9	2631.4
55°	3096.3	3369.1	2120.0	2368.0	2457.8
57.5°	2718.2	2938.3	1930.9	2175.8	2256.4
60°	2302.9	2513.6	1738.8	1968.1	2045.6
62.5°	1927.8	2151.0	1574.5	1760.5	1822.5
65°	1596.2	1816.3	1419.5	1577.6	1627.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1301.8	1537.3	1292.5	1425.7	1472.2
70°	1025.9	1273.9	1180.9	1301.8	1351.3
72.5°	802.8	1053.8	1087.9	1199.5	1249.1
75°	613.7	858.5	1001.1	1122.0	1174.7
77.5°	455.6	700.5	920.5	1060.0	1115.8
80°	300.6	557.9	849.2	1004.2	1069.3
82.5°	189.1	449.4	778.0	948.4	1016.6
85°	93.0	365.7	709.8	898.8	960.8
87.5°	31.0	303.7	647.8	849.2	901.9
90°	3.1	254.2	592.0	796.6	849.2
92.5°	3.1	220.1	545.5	734.6	787.3
95°	3.1	195.3	499.0	675.7	722.2
97.5°	3.1	176.7	455.6	613.7	663.3
100°	3.1	158.1	409.1	554.8	607.5
102.5°	6.2	145.7	368.8	505.2	561.0
105°	6.2	136.4	328.5	461.8	517.6
107.5°	6.2	130.2	294.4	427.7	480.4
110°	6.2	124.0	269.6	396.7	452.5
112.5°	6.2	120.9	254.2	368.8	421.5
115°	6.2	117.8	241.8	344.0	387.4
117.5°	9.3	114.7	232.5	319.2	353.3
120°	9.3	108.5	226.3	297.5	325.4
122.5°	9.3	102.3	217.0	278.9	300.6
125°	9.3	99.2	207.7	260.4	278.9
127.5°	9.3	93.0	198.4	244.9	263.5
130°	12.4	86.8	189.1	232.5	248.0
132.5°	12.4	80.6	179.8	226.3	238.7
135°	12.4	77.5	170.5	217.0	229.4
137.5°	12.4	71.3	161.2	207.7	220.1
140°	12.4	65.1	148.8	195.3	207.7
142.5°	12.4	62.0	136.4	182.9	195.3
145°	12.4	55.8	120.9	167.4	182.9
147.5°	15.5	52.7	108.5	155.0	167.4
150°	15.5	46.5	96.1	142.6	155.0
152.5°	15.5	40.3	83.7	127.1	139.5
155°	15.5	34.1	74.4	111.6	127.1
157.5°	15.5	31.0	65.1	93.0	111.6
160°	15.5	27.9	55.8	80.6	96.1
162.5°	15.5	24.8	49.6	68.2	83.7
165°	15.5	21.7	40.3	55.8	68.2
167.5°	18.6	21.7	34.1	43.4	55.8
170°	18.6	21.7	27.9	34.1	43.4
172.5°	18.6	18.6	21.7	24.8	27.9
175°	18.6	18.6	18.6	18.6	15.5
177.5°	18.6	18.6	18.6	15.5	15.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	15.5	15.5	15.5	15.5	15.5

(END OF REPORT)