

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: P567645

Luminaire Tested: **8SNX-186HL-LC-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567645  
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-186HL-LC-UNV-L850-CD  
Description: 8FT 18600 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

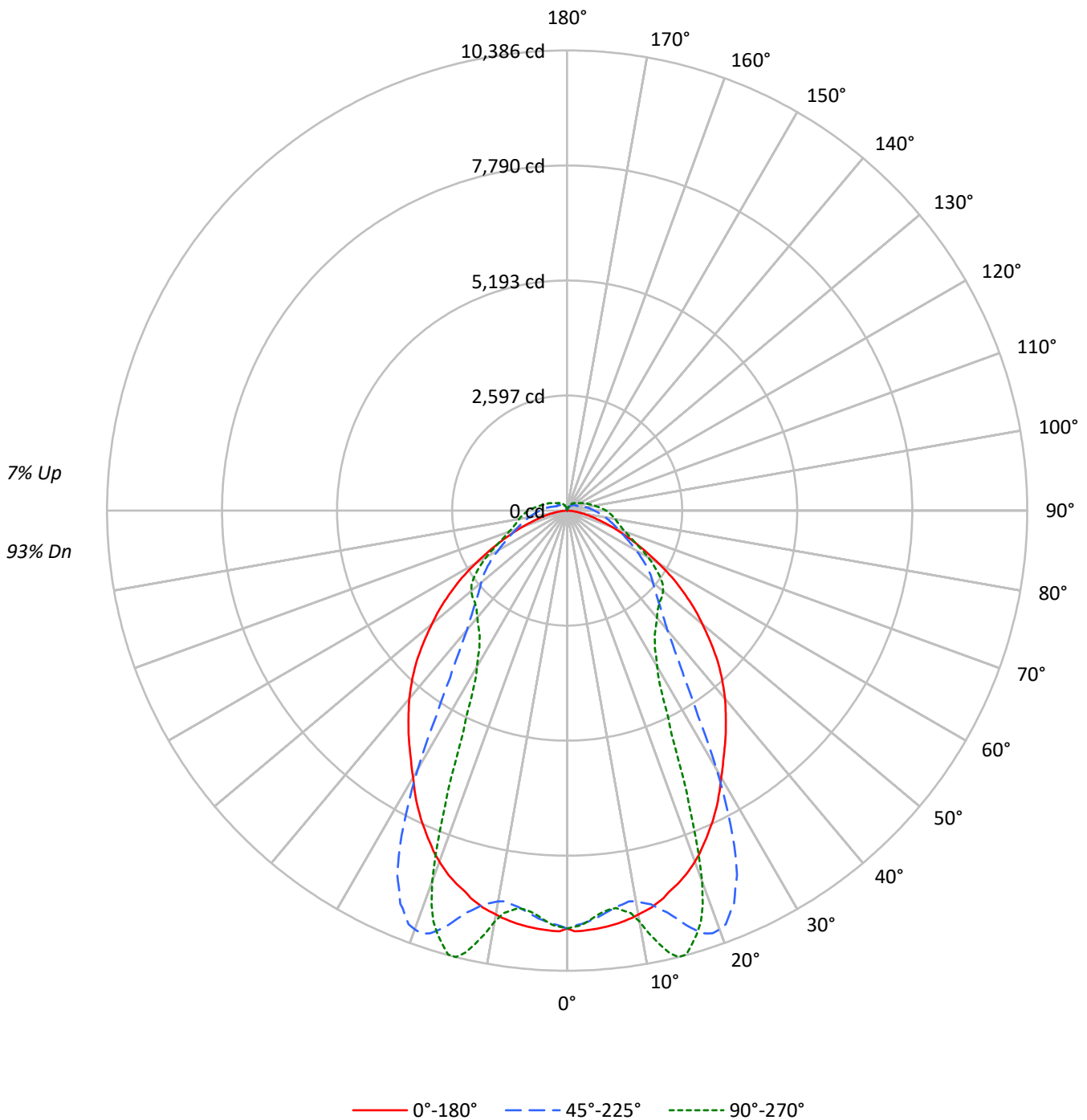
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20962.9 lumens  
Efficiency: N/A  
Efficacy: 155.5 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): 134.8  
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			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°	50764	50764	50764
5°	50917	47437	46467
10°	50400	45093	46078
15°	49319	46956	49053
20°	47921	48953	41054
25°	45610	43926	25243
30°	42708	32725	18269
35°	40355	22591	15412
40°	38255	17537	14203
45°	35796	14933	13433
50°	32556	13405	13186
55°	29135	12124	12200
60°	24706	10493	10552
65°	20093	9140	8807
70°	15768	8215	7755
75°	12227	7638	7231
80°	8607	7235	7158
85°	4788	6902	7108



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	877.7	4.2
10°-20°	2681.9	12.8
20°-30°	3611.3	17.2
30°-40°	3417.7	16.3
40°-50°	3016.6	14.4
50°-60°	2450.1	11.7
60°-70°	1666.4	7.9
70°-80°	1072.2	5.1
80°-90°	713.0	3.4
90°-100°	490.0	2.3
100°-110°	328.9	1.6
110°-120°	232.0	1.1
120°-130°	165.7	0.8
130°-140°	116.9	0.6
140°-150°	72.6	0.3
150°-160°	35.4	0.2
160°-170°	12.4	0.1
170°-180°	2.1	0.0
0°-30°	7170.9	34.2
0°-40°	10588.6	50.5
0°-60°	16055.3	76.6
0°-90°	19506.9	93.1
90°-120°	1050.9	5.0
90°-150°	1406.1	6.7
90°-180°	1456.0	6.9
0°-180°	20962.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9432	9432	9432	9432	9432	
5°	9442	9356	9154	9148	9103	896
15°	8901	8843	9525	10367	10376	2509
25°	7755	9196	9074	6590	5572	3559
35°	6232	8744	4609	3550	3441	3900
45°	4801	5883	2916	2881	2941	3686
55°	3197	3479	2189	2445	2538	2856
65°	1648	1876	1466	1629	1680	1655
75°	634	887	1034	1159	1213	690
85°	96	378	733	928	992	126
90°	3	262	611	823	877	6
95°	3	202	515	698	746	3
105°	6	141	339	477	534	6
115°	6	122	250	355	400	8
125°	10	102	214	269	288	9
135°	13	80	176	224	237	10
145°	13	58	125	173	189	9
155°	16	35	77	115	131	7
165°	16	22	42	58	70	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°	9432.3	9432.3	9432.3	9432.3	9432.3
1°	9496.3	9467.5	9371.5	9422.7	9397.1
2°	9493.1	9445.1	9336.3	9393.9	9361.9
3°	9477.1	9425.9	9285.1	9320.3	9272.3
4°	9461.1	9400.3	9230.7	9230.7	9176.3
5°	9441.9	9355.5	9153.9	9147.5	9102.7
6°	9419.5	9320.3	9086.6	9080.2	9054.6
7°	9387.5	9259.5	9013.0	9057.8	9038.6
8°	9349.1	9201.9	8974.6	9086.6	9115.5
9°	9313.9	9131.5	8929.8	9176.3	9198.7
10°	9256.3	9067.4	8958.6	9355.5	9422.7
11°	9208.3	9013.0	9022.6	9531.5	9733.2
12°	9160.3	8955.4	9083.4	9752.4	9998.8
13°	9080.2	8910.6	9217.9	9992.4	10245.3
14°	9009.8	8875.4	9349.1	10235.7	10386.1
15°	8901.0	8843.4	9525.1	10366.9	10376.5
16°	8827.4	8821.0	9730.0	10376.5	10197.3
17°	8744.2	8811.4	9896.4	10210.1	9998.8
18°	8651.4	8830.6	10034.0	10002.0	9758.8
19°	8545.7	8849.8	10091.7	9714.0	9400.3
20°	8430.5	8878.6	10059.6	9413.1	8907.4
21°	8315.3	8917.0	9998.8	9096.2	8260.9
22.5°	8100.8	9009.8	9710.8	8206.5	7191.9
23°	8040.0	9029.0	9643.6	7928.0	6913.4
24°	7889.6	9109.1	9336.3	7278.3	6177.3
25°	7755.2	9195.5	9073.8	6590.1	5572.3
26°	7604.7	9259.5	8677.0	5956.4	5201.1
27°	7457.5	9297.9	8225.7	5463.5	4785.0
28°	7287.9	9339.5	7736.0	5037.8	4471.3
29°	7127.8	9345.9	7252.7	4698.6	4224.9
30°	6955.0	9313.9	6743.8	4426.5	4071.2
32.5°	6577.3	9137.9	5498.7	3908.0	3687.1
35°	6231.7	8744.2	4608.9	3549.5	3440.7
37.5°	5882.8	8123.3	3984.8	3325.5	3290.3
40°	5540.3	7387.1	3514.3	3146.2	3152.6
42.5°	5178.7	6628.5	3191.0	2999.0	3027.8
45°	4801.0	5882.8	2915.8	2880.6	2941.4
47.5°	4381.7	5201.1	2698.1	2803.8	2896.6
50°	3984.8	4525.7	2528.5	2730.2	2826.2
52.5°	3607.1	3972.0	2374.9	2605.3	2717.4
55°	3197.4	3479.1	2189.2	2445.3	2538.1
57.5°	2807.0	3034.2	1994.0	2246.9	2330.1
60°	2378.1	2595.7	1795.6	2032.4	2112.4
62.5°	1990.8	2221.3	1625.9	1818.0	1882.0
65°	1648.3	1875.6	1465.9	1629.1	1680.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1344.3	1587.5	1334.7	1472.3	1520.3
70°	1059.4	1315.5	1219.4	1344.3	1395.5
72.5°	829.0	1088.2	1123.4	1238.7	1289.9
75°	633.7	886.6	1033.8	1158.6	1213.0
77.5°	470.5	723.3	950.6	1094.6	1152.2
80°	310.5	576.1	877.0	1037.0	1104.2
82.5°	195.2	464.1	803.4	979.4	1049.8
85°	96.0	377.7	732.9	928.2	992.2
87.5°	32.0	313.7	668.9	877.0	931.4
90°	3.2	262.5	611.3	822.6	877.0
92.5°	3.2	227.2	563.3	758.6	813.0
95°	3.2	201.6	515.3	697.7	745.8
97.5°	3.2	182.4	470.5	633.7	684.9
100°	3.2	163.2	422.5	572.9	627.3
102.5°	6.4	150.4	380.9	521.7	579.3
105°	6.4	140.8	339.3	476.9	534.5
107.5°	6.4	134.4	304.1	441.7	496.1
110°	6.4	128.0	278.5	409.7	467.3
112.5°	6.4	124.8	262.5	380.9	435.3
115°	6.4	121.6	249.7	355.3	400.1
117.5°	9.6	118.4	240.0	329.7	364.9
120°	9.6	112.0	233.6	307.3	336.1
122.5°	9.6	105.6	224.0	288.1	310.5
125°	9.6	102.4	214.4	268.9	288.1
127.5°	9.6	96.0	204.8	252.9	272.1
130°	12.8	89.6	195.2	240.0	256.1
132.5°	12.8	83.2	185.6	233.6	246.5
135°	12.8	80.0	176.0	224.0	236.8
137.5°	12.8	73.6	166.4	214.4	227.2
140°	12.8	67.2	153.6	201.6	214.4
142.5°	12.8	64.0	140.8	188.8	201.6
145°	12.8	57.6	124.8	172.8	188.8
147.5°	16.0	54.4	112.0	160.0	172.8
150°	16.0	48.0	99.2	147.2	160.0
152.5°	16.0	41.6	86.4	131.2	144.0
155°	16.0	35.2	76.8	115.2	131.2
157.5°	16.0	32.0	67.2	96.0	115.2
160°	16.0	28.8	57.6	83.2	99.2
162.5°	16.0	25.6	51.2	70.4	86.4
165°	16.0	22.4	41.6	57.6	70.4
167.5°	19.2	22.4	35.2	44.8	57.6
170°	19.2	22.4	28.8	35.2	44.8
172.5°	19.2	19.2	22.4	25.6	28.8
175°	19.2	19.2	19.2	19.2	16.0
177.5°	19.2	19.2	19.2	16.0	16.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	16.0	16.0	16.0	16.0	16.0

(END OF REPORT)