

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: P567549

Luminaire Tested: **8SNX-174HL-LC-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567549
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-174HL-LC-UNV-L850-CD
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

Summary

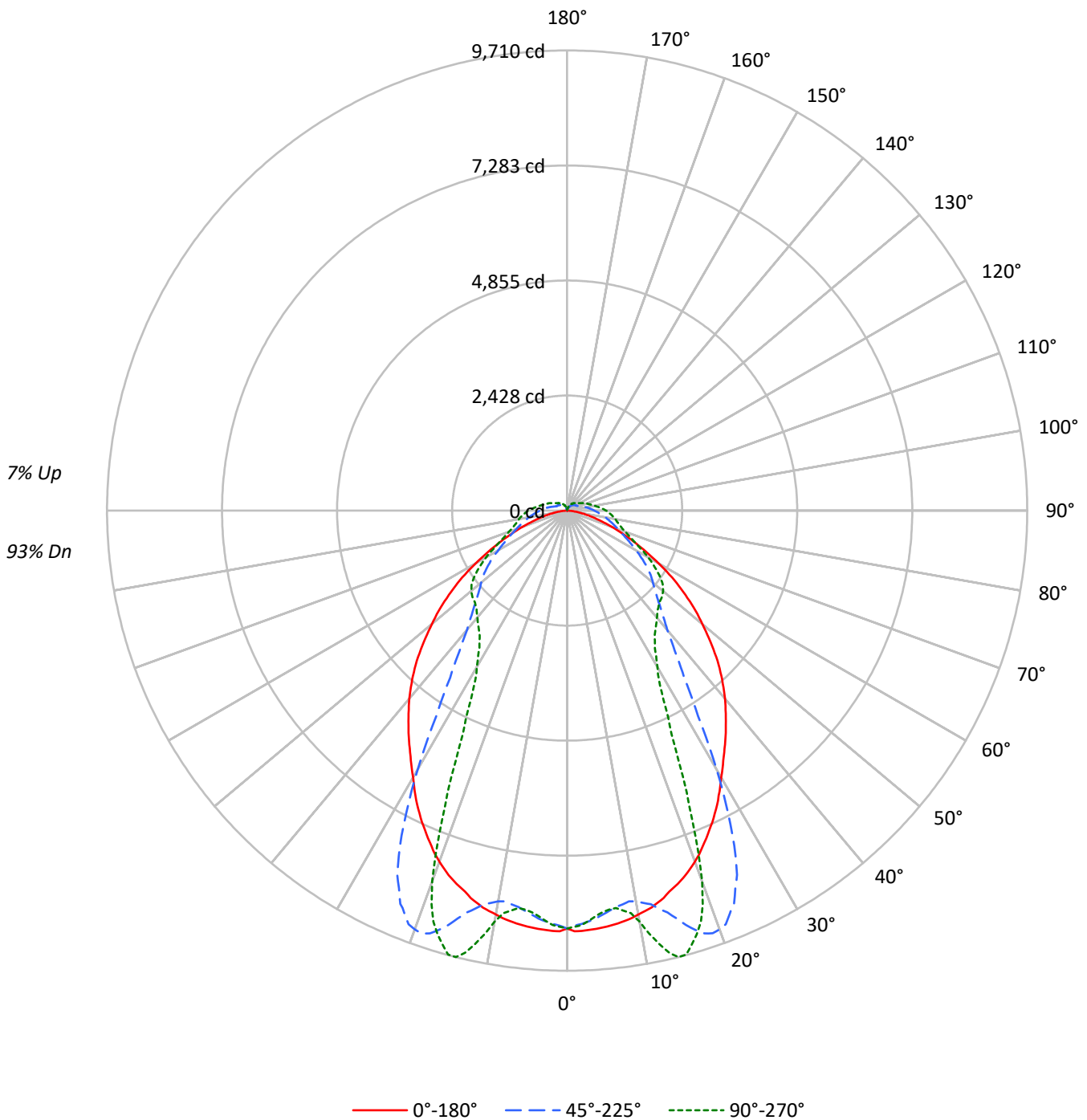
Lumens per Lamp: N/A
Luminaire Lumens: 19599.0 lumens
Efficiency: N/A
Efficacy: 157.5 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 124.4
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	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°	47461	47461	47461
5°	47604	44350	43444
10°	47121	42159	43080
15°	46110	43901	45861
20°	44803	45768	38383
25°	42642	41068	23601
30°	39930	30595	17080
35°	37729	21121	14409
40°	35766	16395	13279
45°	33467	13962	12558
50°	30437	12532	12328
55°	27240	11335	11406
60°	23098	9810	9866
65°	18786	8545	8234
70°	14742	7681	7250
75°	11432	7141	6761
80°	8047	6764	6693
85°	4479	6454	6645



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	820.6	4.2
10°-20°	2507.4	12.8
20°-30°	3376.3	17.2
30°-40°	3195.3	16.3
40°-50°	2820.3	14.4
50°-60°	2290.7	11.7
60°-70°	1557.9	7.9
70°-80°	1002.4	5.1
80°-90°	666.6	3.4
90°-100°	458.1	2.3
100°-110°	307.5	1.6
110°-120°	216.9	1.1
120°-130°	155.0	0.8
130°-140°	109.3	0.6
140°-150°	67.9	0.3
150°-160°	33.1	0.2
160°-170°	11.6	0.1
170°-180°	2.0	0.0
0°-30°	6704.3	34.2
0°-40°	9899.6	50.5
0°-60°	15010.7	76.6
0°-90°	18237.6	93.1
90°-120°	982.5	5.0
90°-150°	1314.7	6.7
90°-180°	1361.0	6.9
0°-180°	19599.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8819	8819	8819	8819	8819	
5°	8828	8747	8558	8552	8510	837
15°	8322	8268	8905	9692	9701	2346
25°	7251	8597	8483	6161	5210	3327
35°	5826	8175	4309	3319	3217	3646
45°	4489	5500	2726	2693	2750	3446
55°	2989	3253	2047	2286	2373	2670
65°	1541	1754	1370	1523	1571	1547
75°	592	829	966	1083	1134	645
85°	90	353	685	868	928	118
90°	3	245	572	769	820	5
95°	3	188	482	652	697	2
105°	6	132	317	446	500	6
115°	6	114	233	332	374	7
125°	9	96	200	251	269	8
135°	12	75	165	210	221	9
145°	12	54	117	162	177	8
155°	15	33	72	108	123	7
165°	15	21	39	54	66	5
175°	18	18	18	18	15	2
180°	15	15	15	15	15	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8818.6	8818.6	8818.6	8818.6	8818.6
1°	8878.4	8851.5	8761.7	8809.6	8785.7
2°	8875.4	8830.6	8728.8	8782.7	8752.8
3°	8860.5	8812.6	8680.9	8713.9	8669.0
4°	8845.5	8788.7	8630.1	8630.1	8579.2
5°	8827.6	8746.8	8558.2	8552.3	8510.4
6°	8806.6	8713.9	8495.4	8489.4	8465.5
7°	8776.7	8657.0	8426.6	8468.5	8450.5
8°	8740.8	8603.1	8390.7	8495.4	8522.3
9°	8707.9	8537.3	8348.8	8579.2	8600.1
10°	8654.0	8477.5	8375.7	8746.8	8809.6
11°	8609.1	8426.6	8435.6	8911.3	9099.9
12°	8564.2	8372.7	8492.4	9117.8	9348.2
13°	8489.4	8330.8	8618.1	9342.3	9578.7
14°	8423.6	8297.9	8740.8	9569.7	9710.3
15°	8321.8	8268.0	8905.4	9692.4	9701.3
16°	8253.0	8247.0	9096.9	9701.3	9533.8
17°	8175.2	8238.1	9252.5	9545.7	9348.2
18°	8088.4	8256.0	9381.2	9351.2	9123.8
19°	7989.7	8274.0	9435.0	9081.9	8788.7
20°	7882.0	8300.9	9405.1	8800.6	8327.8
21°	7774.2	8336.8	9348.2	8504.4	7723.4
22.5°	7573.7	8423.6	9078.9	7672.5	6723.9
23°	7516.9	8441.5	9016.1	7412.2	6463.6
24°	7376.3	8516.4	8728.8	6804.7	5775.3
25°	7250.6	8597.1	8483.4	6161.3	5209.8
26°	7109.9	8657.0	8112.4	5568.8	4862.6
27°	6972.3	8692.9	7690.5	5108.0	4473.6
28°	6813.7	8731.8	7232.6	4710.0	4180.4
29°	6664.1	8737.8	6780.8	4392.8	3950.0
30°	6502.5	8707.9	6305.0	4138.5	3806.3
32.5°	6149.4	8543.3	5140.9	3653.7	3447.2
35°	5826.2	8175.2	4309.0	3318.6	3216.8
37.5°	5500.0	7594.7	3725.5	3109.1	3076.2
40°	5179.8	6906.4	3285.6	2941.5	2947.5
42.5°	4841.7	6197.2	2983.4	2803.9	2830.8
45°	4488.6	5500.0	2726.1	2693.2	2750.0
47.5°	4096.6	4862.6	2522.6	2621.3	2708.1
50°	3725.5	4231.2	2364.0	2552.5	2642.3
52.5°	3372.4	3713.6	2220.4	2435.8	2540.5
55°	2989.4	3252.7	2046.8	2286.2	2373.0
57.5°	2624.3	2836.8	1864.3	2100.7	2178.5
60°	2223.3	2426.8	1678.7	1900.2	1975.0
62.5°	1861.3	2076.7	1520.1	1699.7	1759.5
65°	1541.1	1753.5	1370.5	1523.1	1571.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1256.8	1484.2	1247.8	1376.5	1421.4
70°	990.5	1229.9	1140.1	1256.8	1304.7
72.5°	775.0	1017.4	1050.3	1158.1	1205.9
75°	592.5	828.9	966.5	1083.2	1134.1
77.5°	439.9	676.3	888.7	1023.4	1077.3
80°	290.3	538.6	819.9	969.5	1032.4
82.5°	182.5	433.9	751.1	915.7	981.5
85°	89.8	353.1	685.3	867.8	927.6
87.5°	29.9	293.3	625.4	819.9	870.8
90°	3.0	245.4	571.5	769.0	819.9
92.5°	3.0	212.5	526.7	709.2	760.1
95°	3.0	188.5	481.8	652.3	697.2
97.5°	3.0	170.6	439.9	592.5	640.4
100°	3.0	152.6	395.0	535.6	586.5
102.5°	6.0	140.6	356.1	487.8	541.6
105°	6.0	131.7	317.2	445.9	499.7
107.5°	6.0	125.7	284.3	413.0	463.8
110°	6.0	119.7	260.3	383.0	436.9
112.5°	6.0	116.7	245.4	356.1	407.0
115°	6.0	113.7	233.4	332.2	374.0
117.5°	9.0	110.7	224.4	308.2	341.1
120°	9.0	104.7	218.4	287.3	314.2
122.5°	9.0	98.7	209.5	269.3	290.3
125°	9.0	95.8	200.5	251.4	269.3
127.5°	9.0	89.8	191.5	236.4	254.4
130°	12.0	83.8	182.5	224.4	239.4
132.5°	12.0	77.8	173.6	218.4	230.4
135°	12.0	74.8	164.6	209.5	221.4
137.5°	12.0	68.8	155.6	200.5	212.5
140°	12.0	62.8	143.6	188.5	200.5
142.5°	12.0	59.8	131.7	176.6	188.5
145°	12.0	53.9	116.7	161.6	176.6
147.5°	15.0	50.9	104.7	149.6	161.6
150°	15.0	44.9	92.8	137.7	149.6
152.5°	15.0	38.9	80.8	122.7	134.7
155°	15.0	32.9	71.8	107.7	122.7
157.5°	15.0	29.9	62.8	89.8	107.7
160°	15.0	26.9	53.9	77.8	92.8
162.5°	15.0	23.9	47.9	65.8	80.8
165°	15.0	20.9	38.9	53.9	65.8
167.5°	18.0	20.9	32.9	41.9	53.9
170°	18.0	20.9	26.9	32.9	41.9
172.5°	18.0	18.0	20.9	23.9	26.9
175°	18.0	18.0	18.0	18.0	15.0
177.5°	18.0	18.0	18.0	15.0	15.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	15.0	15.0	15.0	15.0	15.0

(END OF REPORT)