

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: P567547

Luminaire Tested: **8SNX-174HL-LC-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567547
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-L835-CD
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

Summary

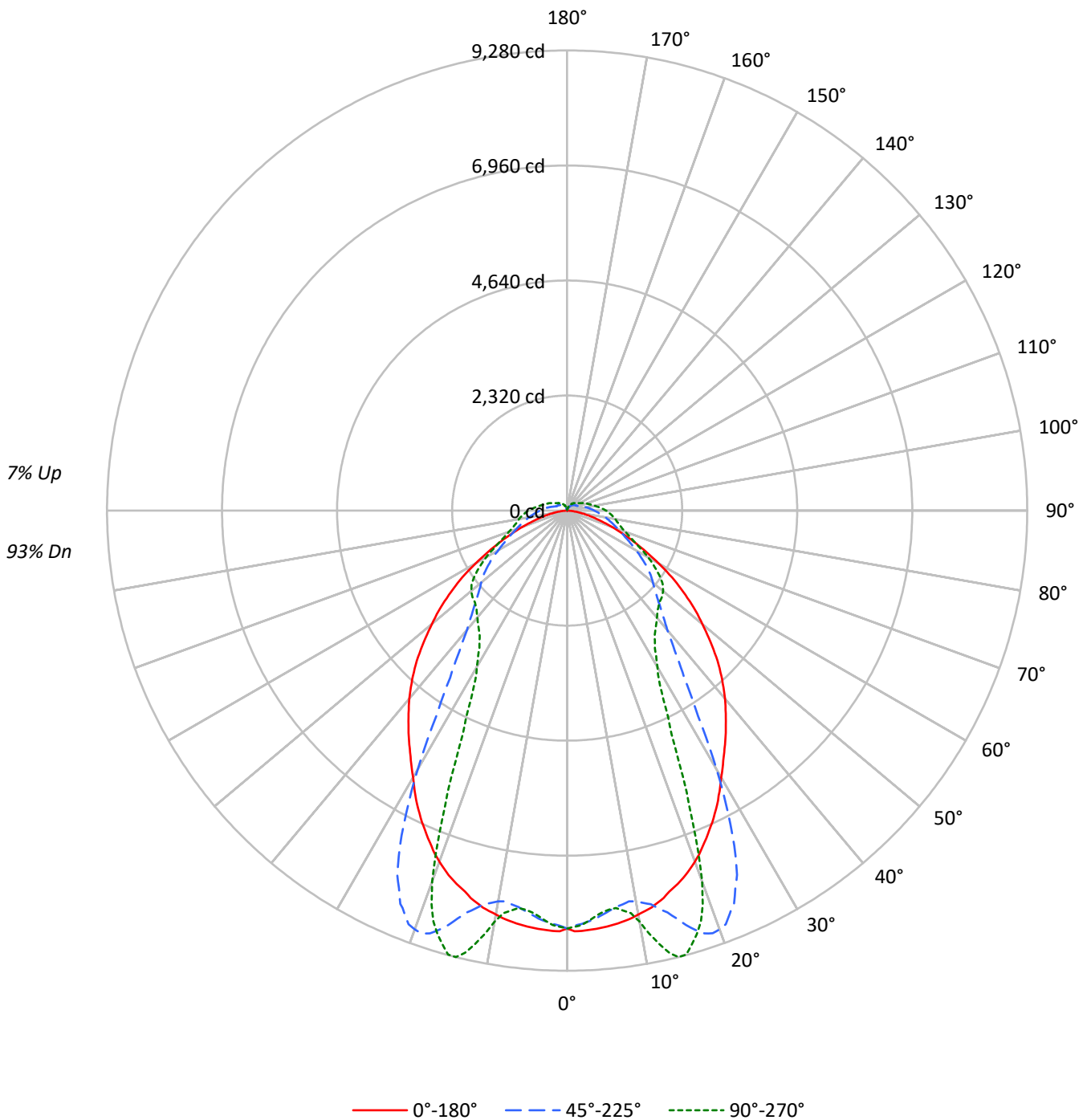
Lumens per Lamp: N/A
Luminaire Lumens: 18731.0 lumens
Efficiency: N/A
Efficacy: 150.6 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 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	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°	45359	45359	45359
5°	45496	42386	41520
10°	45034	40292	41172
15°	44068	41956	43830
20°	42819	43741	36683
25°	40754	39249	22555
30°	38161	29240	16324
35°	36058	20186	13771
40°	34182	15669	12691
45°	31984	13343	12002
50°	29089	11977	11783
55°	26033	10833	10901
60°	22076	9375	9429
65°	17954	8166	7869
70°	14089	7341	6929
75°	10926	6825	6462
80°	7689	6464	6397
85°	4279	6168	6351



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	784.2	4.2
10°-20°	2396.4	12.8
20°-30°	3226.8	17.2
30°-40°	3053.8	16.3
40°-50°	2695.4	14.4
50°-60°	2189.3	11.7
60°-70°	1488.9	7.9
70°-80°	958.1	5.1
80°-90°	637.1	3.4
90°-100°	437.8	2.3
100°-110°	293.9	1.6
110°-120°	207.3	1.1
120°-130°	148.1	0.8
130°-140°	104.5	0.6
140°-150°	64.9	0.3
150°-160°	31.6	0.2
160°-170°	11.1	0.1
170°-180°	1.9	0.0
0°-30°	6407.4	34.2
0°-40°	9461.2	50.5
0°-60°	14345.9	76.6
0°-90°	17429.9	93.1
90°-120°	939.0	5.0
90°-150°	1256.4	6.7
90°-180°	1301.0	6.9
0°-180°	18731.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8428	8428	8428	8428	8428	
5°	8437	8359	8179	8174	8134	800
15°	7953	7902	8511	9263	9272	2242
25°	6930	8216	8108	5888	4979	3180
35°	5568	7813	4118	3172	3074	3484
45°	4290	5256	2605	2574	2628	3294
55°	2857	3109	1956	2185	2268	2552
65°	1473	1676	1310	1456	1501	1479
75°	566	792	924	1035	1084	616
85°	86	338	655	829	887	112
90°	3	234	546	735	784	5
95°	3	180	460	624	666	2
105°	6	126	303	426	478	6
115°	6	109	223	317	358	7
125°	9	92	192	240	257	8
135°	11	72	157	200	212	9
145°	11	52	112	154	169	8
155°	14	32	69	103	117	7
165°	14	20	37	52	63	4
175°	17	17	17	17	14	2
180°	14	14	14	14	14	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8428.0	8428.0	8428.0	8428.0	8428.0
1°	8485.2	8459.5	8373.7	8419.4	8396.6
2°	8482.4	8439.5	8342.2	8393.7	8365.1
3°	8468.1	8422.3	8296.5	8327.9	8285.0
4°	8453.8	8399.4	8247.9	8247.9	8199.2
5°	8436.6	8359.4	8179.2	8173.5	8133.5
6°	8416.6	8327.9	8119.2	8113.4	8090.6
7°	8388.0	8273.6	8053.4	8093.4	8076.3
8°	8353.7	8222.1	8019.1	8119.2	8144.9
9°	8322.2	8159.2	7979.0	8199.2	8219.3
10°	8270.7	8102.0	8004.8	8359.4	8419.4
11°	8227.8	8053.4	8062.0	8516.7	8696.9
12°	8184.9	8001.9	8116.3	8714.0	8934.2
13°	8113.4	7961.9	8236.4	8928.5	9154.4
14°	8050.5	7930.4	8353.7	9145.9	9280.3
15°	7953.3	7901.8	8511.0	9263.1	9271.7
16°	7887.5	7881.8	8694.0	9271.7	9111.5
17°	7813.2	7873.2	8842.7	9123.0	8934.2
18°	7730.2	7890.4	8965.7	8937.1	8719.7
19°	7635.8	7907.5	9017.2	8679.7	8399.4
20°	7532.9	7933.3	8988.6	8410.9	7959.0
21°	7429.9	7967.6	8934.2	8127.7	7381.3
22.5°	7238.3	8050.5	8676.8	7332.7	6426.1
23°	7184.0	8067.7	8616.8	7083.9	6177.3
24°	7049.6	8139.2	8342.2	6503.3	5519.5
25°	6929.5	8216.4	8107.7	5888.5	4979.0
26°	6795.0	8273.6	7753.1	5322.2	4647.3
27°	6663.5	8307.9	7349.9	4881.8	4275.5
28°	6511.9	8345.1	6912.3	4501.4	3995.2
29°	6368.9	8350.8	6480.5	4198.3	3775.0
30°	6214.5	8322.2	6025.7	3955.2	3637.8
32.5°	5877.0	8164.9	4913.3	3491.9	3294.6
35°	5568.2	7813.2	4118.2	3171.6	3074.4
37.5°	5256.4	7258.3	3560.5	2971.4	2939.9
40°	4950.4	6600.6	3140.1	2811.2	2817.0
42.5°	4627.3	5922.8	2851.3	2679.7	2705.4
45°	4289.8	5256.4	2605.3	2573.9	2628.2
47.5°	3915.2	4647.3	2410.9	2505.2	2588.2
50°	3560.5	4043.9	2259.3	2439.5	2525.3
52.5°	3223.1	3549.1	2122.0	2327.9	2428.0
55°	2857.0	3108.7	1956.1	2184.9	2267.9
57.5°	2508.1	2711.2	1781.7	2007.6	2082.0
60°	2124.9	2319.4	1604.4	1816.0	1887.5
62.5°	1778.8	1984.7	1452.8	1624.4	1681.6
65°	1472.8	1675.9	1309.8	1455.7	1501.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1201.1	1418.5	1192.6	1315.5	1358.4
70°	946.6	1175.4	1089.6	1201.1	1246.9
72.5°	740.7	972.4	1003.8	1106.8	1152.5
75°	566.3	792.2	923.7	1035.3	1083.9
77.5°	420.4	646.3	849.4	978.1	1029.6
80°	277.4	514.8	783.6	926.6	986.7
82.5°	174.5	414.7	717.8	875.1	938.0
85°	85.8	337.5	654.9	829.4	886.6
87.5°	28.6	280.3	597.7	783.6	832.2
90°	2.9	234.5	546.2	735.0	783.6
92.5°	2.9	203.1	503.3	677.8	726.4
95°	2.9	180.2	460.4	623.5	666.3
97.5°	2.9	163.0	420.4	566.3	612.0
100°	2.9	145.9	377.5	511.9	560.5
102.5°	5.7	134.4	340.3	466.2	517.6
105°	5.7	125.8	303.1	426.1	477.6
107.5°	5.7	120.1	271.7	394.7	443.3
110°	5.7	114.4	248.8	366.1	417.5
112.5°	5.7	111.5	234.5	340.3	388.9
115°	5.7	108.7	223.1	317.4	357.5
117.5°	8.6	105.8	214.5	294.6	326.0
120°	8.6	100.1	208.8	274.5	300.3
122.5°	8.6	94.4	200.2	257.4	277.4
125°	8.6	91.5	191.6	240.2	257.4
127.5°	8.6	85.8	183.0	225.9	243.1
130°	11.4	80.1	174.5	214.5	228.8
132.5°	11.4	74.4	165.9	208.8	220.2
135°	11.4	71.5	157.3	200.2	211.6
137.5°	11.4	65.8	148.7	191.6	203.1
140°	11.4	60.1	137.3	180.2	191.6
142.5°	11.4	57.2	125.8	168.7	180.2
145°	11.4	51.5	111.5	154.4	168.7
147.5°	14.3	48.6	100.1	143.0	154.4
150°	14.3	42.9	88.7	131.6	143.0
152.5°	14.3	37.2	77.2	117.3	128.7
155°	14.3	31.5	68.6	103.0	117.3
157.5°	14.3	28.6	60.1	85.8	103.0
160°	14.3	25.7	51.5	74.4	88.7
162.5°	14.3	22.9	45.8	62.9	77.2
165°	14.3	20.0	37.2	51.5	62.9
167.5°	17.2	20.0	31.5	40.0	51.5
170°	17.2	20.0	25.7	31.5	40.0
172.5°	17.2	17.2	20.0	22.9	25.7
175°	17.2	17.2	17.2	17.2	14.3
177.5°	17.2	17.2	17.2	14.3	14.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	14.3	14.3	14.3	14.3	14.3

(END OF REPORT)