

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: P218394

Luminaire Tested: **8TSNLED-LD5-110HL-LW-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218394
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35687)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8TSNLED-LD5-110HL-LW-UNV-L850-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11145.0 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

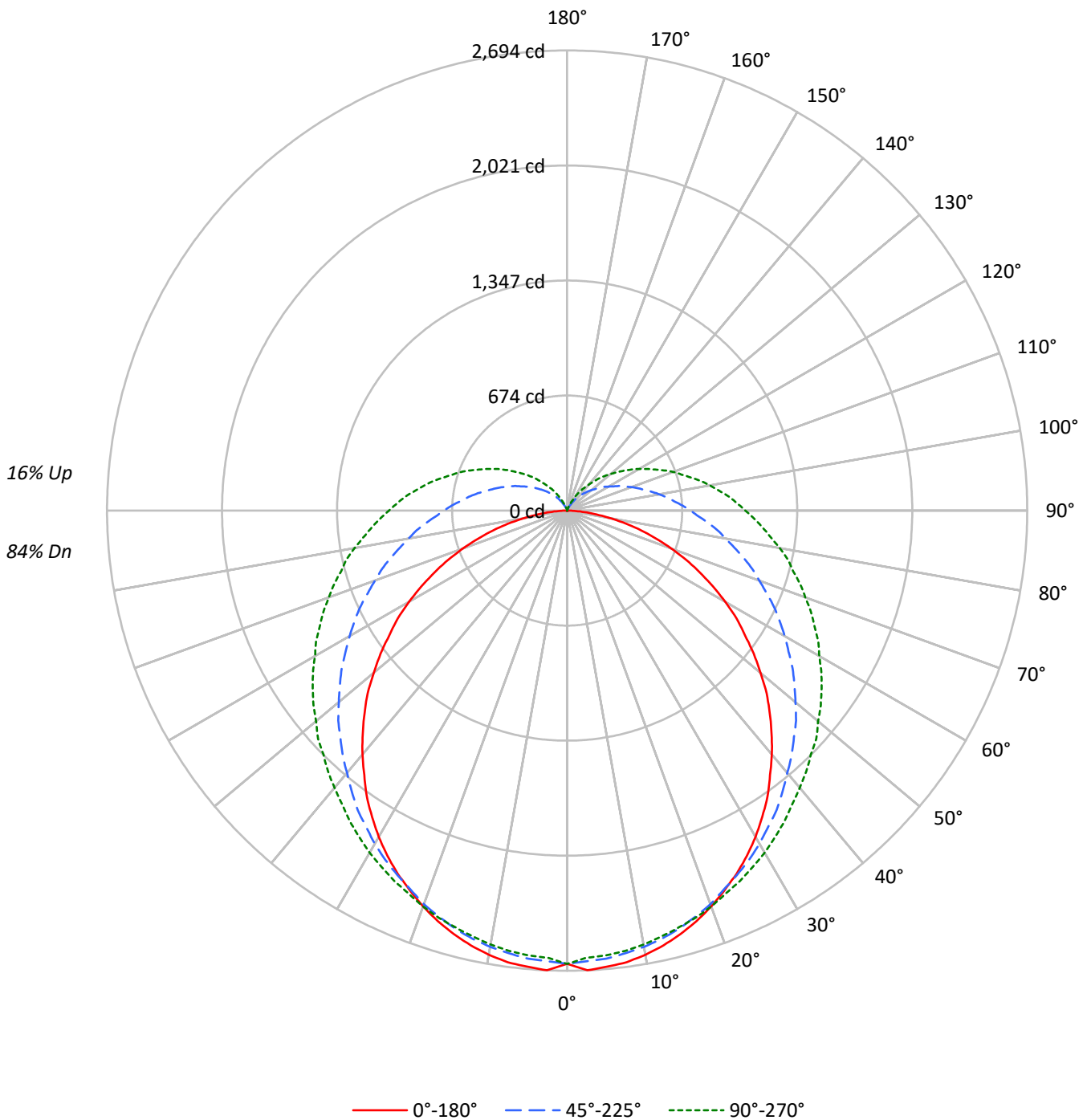
Input Watts (W): 85.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	115	115	115	115	111	111	111	111	102	102	102	95	95	95	88	88	88	84
1	102	96	91	86	98	93	88	83	85	81	78	79	76	73	73	70	68	64
2	92	83	75	68	88	79	72	66	73	67	62	67	63	58	62	58	55	52
3	83	72	63	56	79	69	61	54	64	57	51	59	53	48	54	49	45	42
4	76	63	54	46	72	61	52	45	56	49	43	52	46	41	48	43	38	36
5	70	56	46	39	66	54	45	39	50	42	37	46	40	35	43	37	33	30
6	64	50	41	34	61	48	40	33	45	37	32	42	35	30	39	33	29	26
7	59	45	36	30	57	44	35	29	41	33	28	38	31	27	35	30	25	23
8	55	41	32	26	53	40	32	26	37	30	25	35	28	24	32	27	23	21
9	51	38	29	24	49	36	29	23	34	27	22	32	26	21	30	24	20	18
10	48	35	27	21	46	34	26	21	32	25	20	30	24	19	28	22	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21379	21379	21379
5°	21638	20033	19436
10°	21521	18821	17943
15°	21289	17705	16620
20°	20987	16656	15504
25°	20655	15648	14507
30°	20276	14791	13640
35°	19827	13974	12837
40°	19275	13134	12117
45°	18725	12429	11500
50°	18066	11754	10970
55°	17323	11141	10517
60°	16631	10530	10053
65°	15610	10002	9685
70°	14443	9447	9327
75°	12932	9012	9014
80°	10537	8584	8786
85°	7486	8282	8550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.3	2.3
10°-20°	718.6	6.4
20°-30°	1092.3	9.8
30°-40°	1336.8	12.0
40°-50°	1443.2	12.9
50°-60°	1416.9	12.7
60°-70°	1276.1	11.5
70°-80°	1056.7	9.5
80°-90°	812.7	7.3
90°-100°	612.7	5.5
100°-110°	450.8	4.0
110°-120°	311.0	2.8
120°-130°	197.2	1.8
130°-140°	109.2	1.0
140°-150°	47.3	0.4
150°-160°	11.8	0.1
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	2062.2	18.5
0°-40°	3399.0	30.5
0°-60°	6259.1	56.2
0°-90°	9404.7	84.4
90°-120°	1374.5	12.3
90°-150°	1728.2	15.5
90°-180°	1740.0	15.6
0°-180°	11145.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2654	2654	2654	2654	2654	
5°	2680	2667	2634	2634	2613	255
15°	2567	2560	2533	2547	2526	724
25°	2346	2346	2353	2400	2393	1080
35°	2045	2065	2139	2206	2219	1277
45°	1678	1751	1878	1992	2019	1294
55°	1270	1410	1611	1771	1818	1140
65°	856	1049	1337	1537	1598	849
75°	448	715	1069	1297	1370	475
85°	100	441	829	1076	1150	115
90°	0	341	722	969	1043	5
95°	7	267	628	869	949	2
105°	0	167	468	682	749	0
115°	0	107	341	515	568	0
125°	0	67	234	368	408	0
135°	0	40	147	241	267	0
145°	0	13	74	134	147	0
155°	0	7	20	40	47	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2653.5	2653.5	2653.5	2653.5	2653.5
2.5°	2693.6	2673.6	2640.2	2640.2	2620.1
5°	2680.3	2666.9	2633.5	2633.5	2613.4
7.5°	2666.9	2653.5	2613.4	2620.1	2600.1
10°	2640.2	2626.8	2593.4	2600.1	2580.0
12.5°	2606.8	2593.4	2566.6	2573.3	2553.3
15°	2566.6	2560.0	2533.2	2546.6	2526.5
17.5°	2519.9	2513.2	2493.1	2513.2	2499.8
20°	2466.4	2466.4	2453.0	2479.8	2466.4
22.5°	2406.2	2406.2	2399.5	2439.7	2426.3
25°	2346.1	2346.1	2352.8	2399.5	2392.9
27.5°	2279.2	2285.9	2306.0	2359.4	2352.8
30°	2205.7	2219.1	2252.5	2312.7	2312.7
32.5°	2125.5	2138.9	2192.3	2265.9	2265.9
35°	2045.3	2065.4	2138.9	2205.7	2219.1
37.5°	1951.7	1985.1	2072.0	2152.2	2165.6
40°	1864.8	1911.6	2005.2	2098.8	2118.8
42.5°	1771.3	1831.4	1945.0	2052.0	2072.0
45°	1677.7	1751.2	1878.2	1991.8	2018.6
47.5°	1584.1	1664.3	1818.0	1938.4	1978.5
50°	1477.2	1577.4	1744.5	1884.9	1918.3
52.5°	1376.9	1490.5	1677.7	1824.7	1871.5
55°	1270.0	1410.3	1610.8	1771.3	1818.0
57.5°	1176.4	1316.7	1537.3	1717.8	1764.6
60°	1069.4	1223.2	1470.5	1650.9	1704.4
62.5°	962.5	1143.0	1403.6	1597.5	1657.6
65°	855.5	1049.4	1336.8	1537.3	1597.5
67.5°	755.3	962.5	1263.3	1477.2	1544.0
70°	648.3	875.6	1196.4	1417.0	1483.8
72.5°	548.1	795.4	1136.3	1356.8	1430.4
75°	447.8	715.2	1069.4	1296.7	1370.2
77.5°	354.3	641.7	1002.6	1243.2	1323.4
80°	254.0	568.1	942.4	1183.1	1263.3
82.5°	173.8	501.3	889.0	1129.6	1203.1
85°	100.3	441.1	828.8	1076.1	1149.6
87.5°	40.1	387.7	768.7	1016.0	1096.2
90°	0.0	340.9	721.9	969.2	1042.7
92.5°	0.0	300.8	675.1	915.7	995.9
95°	6.7	267.4	628.3	868.9	949.1
97.5°	0.0	233.9	588.2	822.1	895.7
100°	0.0	213.9	548.1	775.3	848.9
102.5°	0.0	187.2	508.0	728.6	802.1
105°	0.0	167.1	467.9	681.8	748.6
107.5°	0.0	153.7	434.5	641.7	701.8
110°	0.0	133.7	401.0	601.6	661.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	120.3	367.6	554.8	614.9
115°	0.0	106.9	340.9	514.7	568.1
117.5°	0.0	100.3	307.5	474.6	528.0
120°	0.0	86.9	280.7	441.1	487.9
122.5°	0.0	80.2	260.7	401.0	447.8
125°	0.0	66.8	233.9	367.6	407.7
127.5°	0.0	60.2	207.2	334.2	367.6
130°	0.0	53.5	187.2	300.8	334.2
132.5°	0.0	46.8	167.1	267.4	300.8
135°	0.0	40.1	147.0	240.6	267.4
137.5°	0.0	33.4	127.0	207.2	233.9
140°	0.0	26.7	106.9	180.5	200.5
142.5°	0.0	20.1	93.6	153.7	173.8
145°	0.0	13.4	73.5	133.7	147.0
147.5°	0.0	13.4	60.2	106.9	120.3
150°	0.0	6.7	40.1	86.9	93.6
152.5°	0.0	6.7	33.4	66.8	66.8
155°	0.0	6.7	20.1	40.1	46.8
157.5°	0.0	0.0	13.4	26.7	26.7
160°	0.0	0.0	6.7	13.4	20.1
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)