

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: P218393

Luminaire Tested: **8TSNLED-LD5-110HL-LW-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218393
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-L840-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10303.0 lumens
Efficiency: N/A
Efficacy: 119.9 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

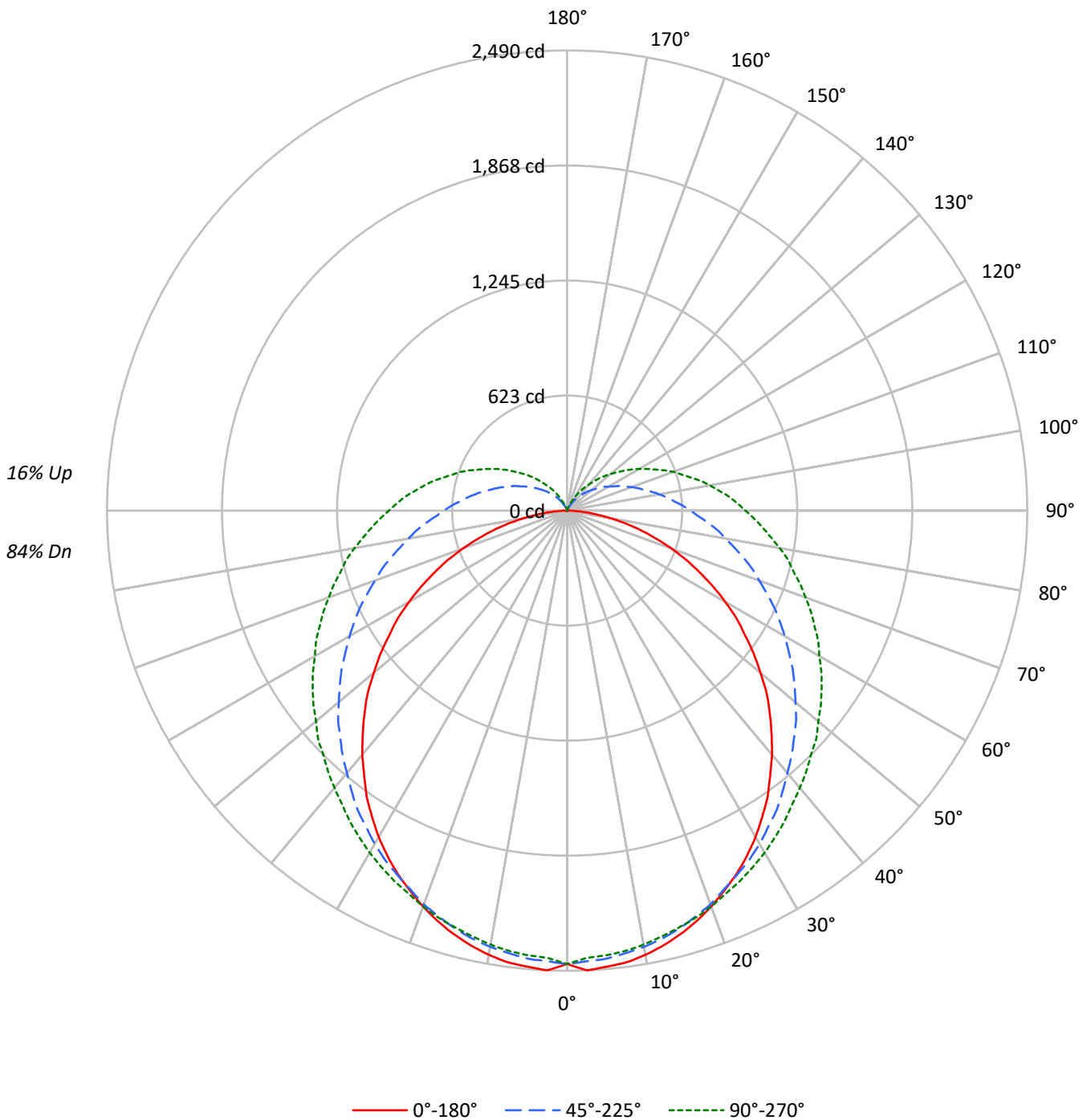
Input Watts (W): 85.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
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°	19764	19764	19764
5°	20003	18520	17968
10°	19894	17400	16588
15°	19681	16367	15365
20°	19402	15398	14333
25°	19094	14466	13411
30°	18744	13673	12609
35°	18329	12918	11867
40°	17819	12142	11201
45°	17310	11490	10631
50°	16701	10866	10142
55°	16013	10299	9723
60°	15374	9734	9293
65°	14432	9246	8953
70°	13354	8733	8622
75°	11956	8331	8333
80°	9741	7935	8122
85°	6919	7656	7904



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.3	2.3
10°-20°	664.3	6.4
20°-30°	1009.7	9.8
30°-40°	1235.8	12.0
40°-50°	1334.2	12.9
50°-60°	1309.9	12.7
60°-70°	1179.7	11.5
70°-80°	976.9	9.5
80°-90°	751.3	7.3
90°-100°	566.4	5.5
100°-110°	416.7	4.0
110°-120°	287.5	2.8
120°-130°	182.3	1.8
130°-140°	100.9	1.0
140°-150°	43.7	0.4
150°-160°	10.9	0.1
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	1906.4	18.5
0°-40°	3142.2	30.5
0°-60°	5786.2	56.2
0°-90°	8694.2	84.4
90°-120°	1270.7	12.3
90°-150°	1597.6	15.5
90°-180°	1609.0	15.6
0°-180°	10303.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2453	2453	2453	2453	2453	
5°	2478	2465	2434	2434	2416	235
15°	2373	2367	2342	2354	2336	669
25°	2169	2169	2175	2218	2212	999
35°	1891	1909	1977	2039	2051	1181
45°	1551	1619	1736	1841	1866	1196
55°	1174	1304	1489	1637	1681	1054
65°	791	970	1236	1421	1477	785
75°	414	661	989	1199	1267	439
85°	93	408	766	995	1063	106
90°	0	315	667	896	964	5
95°	6	247	581	803	877	2
105°	0	154	432	630	692	0
115°	0	99	315	476	525	0
125°	0	62	216	340	377	0
135°	0	37	136	222	247	0
145°	0	12	68	124	136	0
155°	0	6	18	37	43	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°	2453.1	2453.1	2453.1	2453.1	2453.1
2.5°	2490.1	2471.6	2440.7	2440.7	2422.2
5°	2477.8	2465.4	2434.5	2434.5	2416.0
7.5°	2465.4	2453.1	2416.0	2422.2	2403.6
10°	2440.7	2428.4	2397.5	2403.6	2385.1
12.5°	2409.8	2397.5	2372.7	2378.9	2360.4
15°	2372.7	2366.6	2341.8	2354.2	2335.7
17.5°	2329.5	2323.3	2304.8	2323.3	2310.9
20°	2280.1	2280.1	2267.7	2292.4	2280.1
22.5°	2224.4	2224.4	2218.3	2255.3	2243.0
25°	2168.8	2168.8	2175.0	2218.3	2212.1
27.5°	2107.0	2113.2	2131.8	2181.2	2175.0
30°	2039.1	2051.4	2082.3	2137.9	2137.9
32.5°	1964.9	1977.3	2026.7	2094.7	2094.7
35°	1890.8	1909.3	1977.3	2039.1	2051.4
37.5°	1804.3	1835.2	1915.5	1989.6	2002.0
40°	1723.9	1767.2	1853.7	1940.2	1958.7
42.5°	1637.4	1693.0	1798.1	1897.0	1915.5
45°	1550.9	1618.9	1736.3	1841.3	1866.1
47.5°	1464.4	1538.6	1680.7	1791.9	1829.0
50°	1365.6	1458.2	1612.7	1742.5	1773.4
52.5°	1272.9	1377.9	1550.9	1686.9	1730.1
55°	1174.0	1303.8	1489.1	1637.4	1680.7
57.5°	1087.5	1217.3	1421.2	1588.0	1631.3
60°	988.6	1130.8	1359.4	1526.2	1575.6
62.5°	889.8	1056.6	1297.6	1476.8	1532.4
65°	790.9	970.1	1235.8	1421.2	1476.8
67.5°	698.2	889.8	1167.8	1365.6	1427.4
70°	599.4	809.5	1106.0	1310.0	1371.7
72.5°	506.7	735.3	1050.4	1254.3	1322.3
75°	414.0	661.2	988.6	1198.7	1266.7
77.5°	327.5	593.2	926.9	1149.3	1223.4
80°	234.8	525.2	871.2	1093.7	1167.8
82.5°	160.7	463.4	821.8	1044.3	1112.2
85°	92.7	407.8	766.2	994.8	1062.8
87.5°	37.1	358.4	710.6	939.2	1013.4
90°	0.0	315.1	667.3	896.0	963.9
92.5°	0.0	278.1	624.1	846.5	920.7
95°	6.2	247.2	580.8	803.3	877.4
97.5°	0.0	216.3	543.8	760.0	828.0
100°	0.0	197.7	506.7	716.8	784.7
102.5°	0.0	173.0	469.6	673.5	741.5
105°	0.0	154.5	432.5	630.3	692.0
107.5°	0.0	142.1	401.6	593.2	648.8
110°	0.0	123.6	370.7	556.1	611.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	111.2	339.8	512.9	568.5
115°	0.0	98.9	315.1	475.8	525.2
117.5°	0.0	92.7	284.2	438.7	488.1
120°	0.0	80.3	259.5	407.8	451.1
122.5°	0.0	74.1	241.0	370.7	414.0
125°	0.0	61.8	216.3	339.8	376.9
127.5°	0.0	55.6	191.5	309.0	339.8
130°	0.0	49.4	173.0	278.1	309.0
132.5°	0.0	43.3	154.5	247.2	278.1
135°	0.0	37.1	135.9	222.4	247.2
137.5°	0.0	30.9	117.4	191.5	216.3
140°	0.0	24.7	98.9	166.8	185.4
142.5°	0.0	18.5	86.5	142.1	160.7
145°	0.0	12.4	68.0	123.6	135.9
147.5°	0.0	12.4	55.6	98.9	111.2
150°	0.0	6.2	37.1	80.3	86.5
152.5°	0.0	6.2	30.9	61.8	61.8
155°	0.0	6.2	18.5	37.1	43.3
157.5°	0.0	0.0	12.4	24.7	24.7
160°	0.0	0.0	6.2	12.4	18.5
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)