

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: P218391

Luminaire Tested: **8TSNLED-LD5-110HL-LW-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218391
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-L830-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9508.0 lumens
Efficiency: N/A
Efficacy: 110.7 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

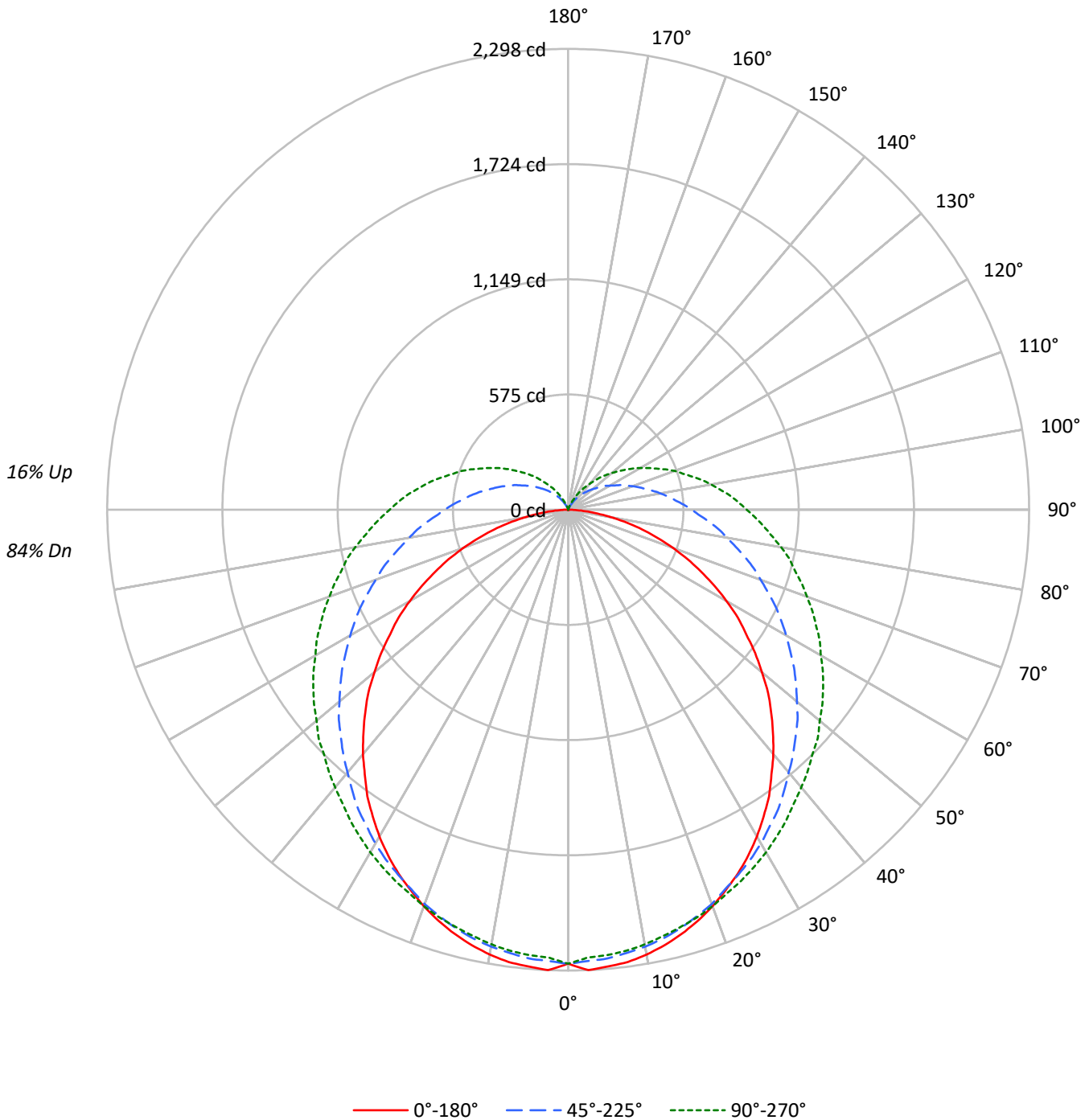
Input Watts (W): 85.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
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	65
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°	18239	18239	18239
5°	18459	17091	16581
10°	18360	16057	15308
15°	18163	15104	14179
20°	17904	14209	13226
25°	17621	13350	12376
30°	17297	12619	11637
35°	16915	11921	10951
40°	16444	11205	10337
45°	15975	10603	9811
50°	15412	10028	9359
55°	14778	9504	8972
60°	14189	8983	8576
65°	13319	8532	8262
70°	12322	8060	7957
75°	11032	7689	7690
80°	8990	7323	7495
85°	6381	7066	7294



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	2.3
10°-20°	613.1	6.4
20°-30°	931.8	9.8
30°-40°	1140.4	12.0
40°-50°	1231.3	12.9
50°-60°	1208.8	12.7
60°-70°	1088.7	11.5
70°-80°	901.5	9.5
80°-90°	693.3	7.3
90°-100°	522.7	5.5
100°-110°	384.6	4.0
110°-120°	265.3	2.8
120°-130°	168.3	1.8
130°-140°	93.1	1.0
140°-150°	40.3	0.4
150°-160°	10.1	0.1
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	1759.3	18.5
0°-40°	2899.7	30.5
0°-60°	5339.8	56.2
0°-90°	8023.3	84.4
90°-120°	1172.6	12.3
90°-150°	1474.3	15.5
90°-180°	1485.0	15.6
0°-180°	9508.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2264	2264	2264	2264	2264	
5°	2287	2275	2247	2247	2230	217
15°	2190	2184	2161	2172	2155	617
25°	2002	2002	2007	2047	2041	922
35°	1745	1762	1825	1882	1893	1089
45°	1431	1494	1602	1699	1722	1104
55°	1083	1203	1374	1511	1551	972
65°	730	895	1140	1312	1363	724
75°	382	610	912	1106	1169	405
85°	86	376	707	918	981	98
90°	0	291	616	827	890	5
95°	6	228	536	741	810	2
105°	0	143	399	582	639	0
115°	0	91	291	439	485	0
125°	0	57	200	314	348	0
135°	0	34	125	205	228	0
145°	0	11	63	114	125	0
155°	0	6	17	34	40	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°	2263.8	2263.8	2263.8	2263.8	2263.8
2.5°	2298.0	2280.9	2252.4	2252.4	2235.3
5°	2286.6	2275.2	2246.7	2246.7	2229.6
7.5°	2275.2	2263.8	2229.6	2235.3	2218.2
10°	2252.4	2241.0	2212.5	2218.2	2201.1
12.5°	2223.9	2212.5	2189.7	2195.4	2178.3
15°	2189.7	2184.0	2161.1	2172.5	2155.4
17.5°	2149.7	2144.0	2126.9	2144.0	2132.6
20°	2104.1	2104.1	2092.7	2115.5	2104.1
22.5°	2052.8	2052.8	2047.1	2081.3	2069.9
25°	2001.5	2001.5	2007.2	2047.1	2041.4
27.5°	1944.5	1950.2	1967.3	2012.9	2007.2
30°	1881.7	1893.1	1921.7	1973.0	1973.0
32.5°	1813.3	1824.7	1870.3	1933.1	1933.1
35°	1744.9	1762.0	1824.7	1881.7	1893.1
37.5°	1665.0	1693.6	1767.7	1836.1	1847.5
40°	1590.9	1630.8	1710.7	1790.5	1807.6
42.5°	1511.1	1562.4	1659.3	1750.6	1767.7
45°	1431.3	1494.0	1602.3	1699.3	1722.1
47.5°	1351.4	1419.9	1551.0	1653.6	1687.9
50°	1260.2	1345.7	1488.3	1608.0	1636.5
52.5°	1174.7	1271.6	1431.3	1556.7	1596.6
55°	1083.4	1203.2	1374.2	1511.1	1551.0
57.5°	1003.6	1123.3	1311.5	1465.5	1505.4
60°	912.4	1043.5	1254.5	1408.4	1454.1
62.5°	821.1	975.1	1197.5	1362.8	1414.2
65°	729.9	895.2	1140.4	1311.5	1362.8
67.5°	644.4	821.1	1077.7	1260.2	1317.2
70°	553.1	747.0	1020.7	1208.9	1265.9
72.5°	467.6	678.6	969.4	1157.6	1220.3
75°	382.0	610.1	912.4	1106.2	1169.0
77.5°	302.2	547.4	855.3	1060.6	1129.0
80°	216.7	484.7	804.0	1009.3	1077.7
82.5°	148.3	427.7	758.4	963.7	1026.4
85°	85.5	376.3	707.1	918.1	980.8
87.5°	34.2	330.7	655.8	866.7	935.2
90°	0.0	290.8	615.8	826.8	889.5
92.5°	0.0	256.6	575.9	781.2	849.6
95°	5.7	228.1	536.0	741.3	809.7
97.5°	0.0	199.6	501.8	701.4	764.1
100°	0.0	182.5	467.6	661.5	724.2
102.5°	0.0	159.7	433.4	621.5	684.3
105°	0.0	142.6	399.2	581.6	638.6
107.5°	0.0	131.2	370.6	547.4	598.7
110°	0.0	114.0	342.1	513.2	564.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	102.6	313.6	473.3	524.6
115°	0.0	91.2	290.8	439.1	484.7
117.5°	0.0	85.5	262.3	404.9	450.5
120°	0.0	74.1	239.5	376.3	416.3
122.5°	0.0	68.4	222.4	342.1	382.0
125°	0.0	57.0	199.6	313.6	347.8
127.5°	0.0	51.3	176.8	285.1	313.6
130°	0.0	45.6	159.7	256.6	285.1
132.5°	0.0	39.9	142.6	228.1	256.6
135°	0.0	34.2	125.4	205.3	228.1
137.5°	0.0	28.5	108.3	176.8	199.6
140°	0.0	22.8	91.2	154.0	171.1
142.5°	0.0	17.1	79.8	131.2	148.3
145°	0.0	11.4	62.7	114.0	125.4
147.5°	0.0	11.4	51.3	91.2	102.6
150°	0.0	5.7	34.2	74.1	79.8
152.5°	0.0	5.7	28.5	57.0	57.0
155°	0.0	5.7	17.1	34.2	39.9
157.5°	0.0	0.0	11.4	22.8	22.8
160°	0.0	0.0	5.7	11.4	17.1
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)