

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: P218382

Luminaire Tested: **8TSNLED-LD5-81SL-LW-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218382  
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-LD5-81SL-LW-UNV-L850-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9278.1 lumens  
Efficiency: N/A  
Efficacy: 134.1 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

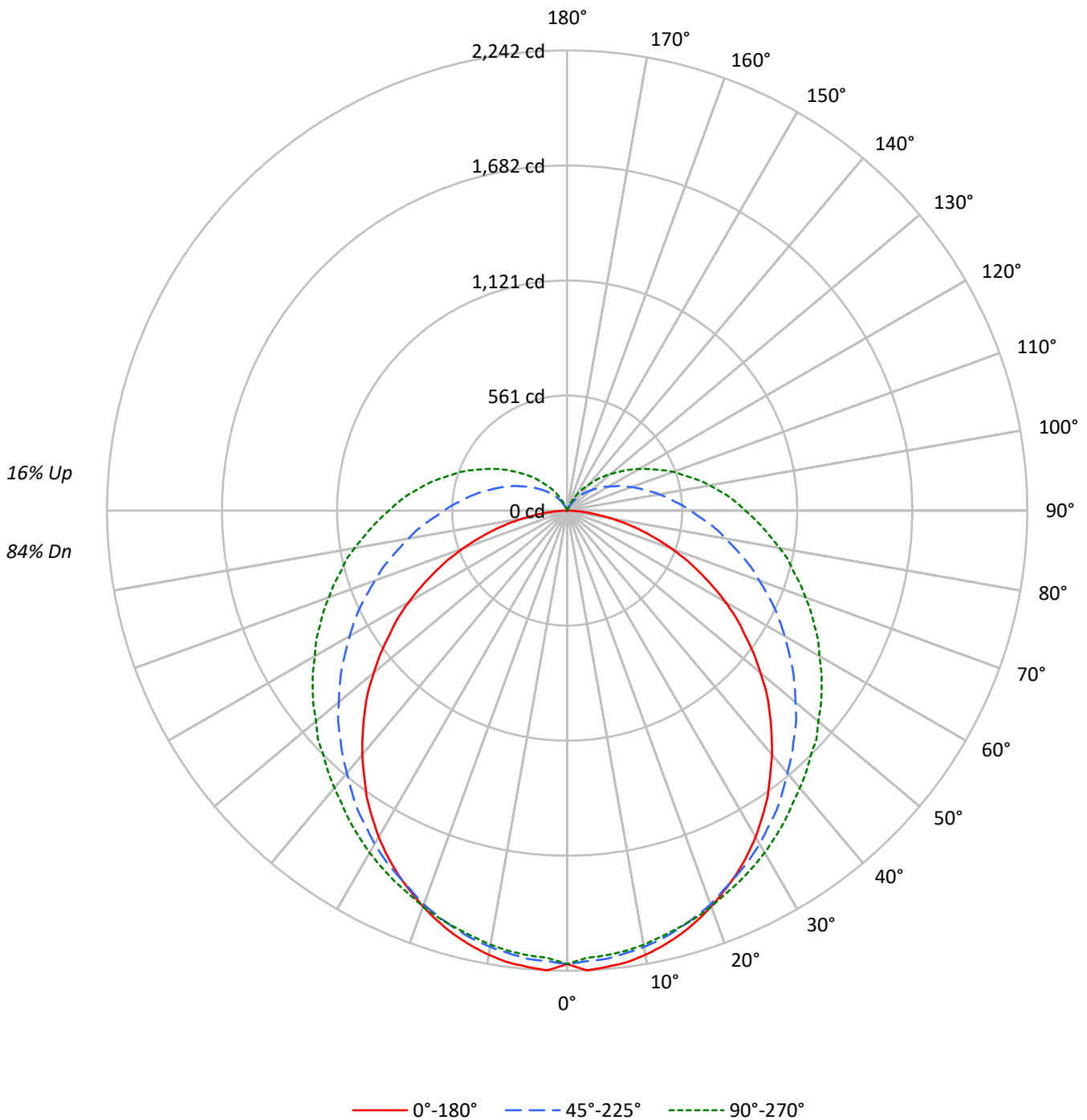
Input Watts (W): 69.18  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	17798	17798	17798
5°	18013	16677	16180
10°	17915	15668	14938
15°	17723	14739	13836
20°	17471	13866	12906
25°	17195	13027	12077
30°	16879	12313	11355
35°	16506	11633	10686
40°	16046	10934	10087
45°	15588	10347	9573
50°	15039	9785	9133
55°	14420	9275	8755
60°	13845	8765	8369
65°	12996	8327	8063
70°	12024	7865	7765
75°	10766	7502	7504
80°	8770	7146	7314
85°	6232	6895	7118



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.2	2.3
10°-20°	598.2	6.4
20°-30°	909.3	9.8
30°-40°	1112.8	12.0
40°-50°	1201.5	12.9
50°-60°	1179.6	12.7
60°-70°	1062.4	11.5
70°-80°	879.7	9.5
80°-90°	676.6	7.3
90°-100°	510.0	5.5
100°-110°	375.3	4.0
110°-120°	258.9	2.8
120°-130°	164.2	1.8
130°-140°	90.9	1.0
140°-150°	39.4	0.4
150°-160°	9.8	0.1
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	1716.7	18.5
0°-40°	2829.6	30.5
0°-60°	5210.6	56.2
0°-90°	7829.3	84.4
90°-120°	1144.3	12.3
90°-150°	1438.7	15.5
90°-180°	1449.0	15.6
0°-180°	9278.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2209	2209	2209	2209	2209	
5°	2231	2220	2192	2192	2176	212
15°	2137	2131	2109	2120	2103	602
25°	1953	1953	1959	1998	1992	899
35°	1703	1719	1781	1836	1847	1063
45°	1397	1458	1564	1658	1680	1077
55°	1057	1174	1341	1474	1514	949
65°	712	874	1113	1280	1330	707
75°	373	595	890	1080	1141	395
85°	84	367	690	896	957	95
90°	0	284	601	807	868	5
95°	6	223	523	723	790	2
105°	0	139	390	568	623	0
115°	0	89	284	428	473	0
125°	0	56	195	306	339	0
135°	0	33	122	200	223	0
145°	0	11	61	111	122	0
155°	0	6	17	33	39	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°	2209.0	2209.0	2209.0	2209.0	2209.0
2.5°	2242.4	2225.7	2197.9	2197.9	2181.2
5°	2231.3	2220.2	2192.3	2192.3	2175.6
7.5°	2220.2	2209.0	2175.6	2181.2	2164.5
10°	2197.9	2186.8	2158.9	2164.5	2147.8
12.5°	2170.1	2158.9	2136.7	2142.3	2125.6
15°	2136.7	2131.1	2108.9	2120.0	2103.3
17.5°	2097.7	2092.2	2075.5	2092.2	2081.0
20°	2053.2	2053.2	2042.1	2064.4	2053.2
22.5°	2003.1	2003.1	1997.6	2031.0	2019.8
25°	1953.1	1953.1	1958.6	1997.6	1992.0
27.5°	1897.4	1903.0	1919.7	1964.2	1958.6
30°	1836.2	1847.3	1875.2	1925.2	1925.2
32.5°	1769.4	1780.6	1825.1	1886.3	1886.3
35°	1702.7	1719.4	1780.6	1836.2	1847.3
37.5°	1624.8	1652.6	1724.9	1791.7	1802.8
40°	1552.4	1591.4	1669.3	1747.2	1763.9
42.5°	1474.5	1524.6	1619.2	1708.2	1724.9
45°	1396.6	1457.8	1563.6	1658.2	1680.4
47.5°	1318.7	1385.5	1513.5	1613.6	1647.0
50°	1229.7	1313.2	1452.3	1569.1	1597.0
52.5°	1146.2	1240.8	1396.6	1519.1	1558.0
55°	1057.2	1174.1	1341.0	1474.5	1513.5
57.5°	979.3	1096.2	1279.8	1430.0	1469.0
60°	890.3	1018.3	1224.1	1374.4	1418.9
62.5°	801.3	951.5	1168.5	1329.9	1379.9
65°	712.2	873.6	1112.9	1279.8	1329.9
67.5°	628.8	801.3	1051.7	1229.7	1285.4
70°	539.7	728.9	996.0	1179.6	1235.3
72.5°	456.3	662.2	945.9	1129.6	1190.8
75°	372.8	595.4	890.3	1079.5	1140.7
77.5°	294.9	534.2	834.6	1035.0	1101.7
80°	211.4	473.0	784.6	984.9	1051.7
82.5°	144.7	417.3	740.1	940.4	1001.6
85°	83.5	367.2	690.0	895.9	957.1
87.5°	33.4	322.7	639.9	845.8	912.5
90°	0.0	283.8	600.9	806.8	868.0
92.5°	0.0	250.4	562.0	762.3	829.1
95°	5.6	222.6	523.0	723.4	790.1
97.5°	0.0	194.8	489.7	684.4	745.6
100°	0.0	178.1	456.3	645.5	706.7
102.5°	0.0	155.8	422.9	606.5	667.7
105°	0.0	139.1	389.5	567.6	623.2
107.5°	0.0	128.0	361.7	534.2	584.3
110°	0.0	111.3	333.9	500.8	550.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	100.2	306.0	461.8	511.9
115°	0.0	89.0	283.8	428.5	473.0
117.5°	0.0	83.5	256.0	395.1	439.6
120°	0.0	72.3	233.7	367.2	406.2
122.5°	0.0	66.8	217.0	333.9	372.8
125°	0.0	55.6	194.8	306.0	339.4
127.5°	0.0	50.1	172.5	278.2	306.0
130°	0.0	44.5	155.8	250.4	278.2
132.5°	0.0	39.0	139.1	222.6	250.4
135°	0.0	33.4	122.4	200.3	222.6
137.5°	0.0	27.8	105.7	172.5	194.8
140°	0.0	22.3	89.0	150.2	166.9
142.5°	0.0	16.7	77.9	128.0	144.7
145°	0.0	11.1	61.2	111.3	122.4
147.5°	0.0	11.1	50.1	89.0	100.2
150°	0.0	5.6	33.4	72.3	77.9
152.5°	0.0	5.6	27.8	55.6	55.6
155°	0.0	5.6	16.7	33.4	39.0
157.5°	0.0	0.0	11.1	22.3	22.3
160°	0.0	0.0	5.6	11.1	16.7
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)