

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: P218381

Luminaire Tested: **8TSNLED-LD5-81SL-LW-UNV-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218381  
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-L840-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8577.0 lumens  
Efficiency: N/A  
Efficacy: 124.0 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

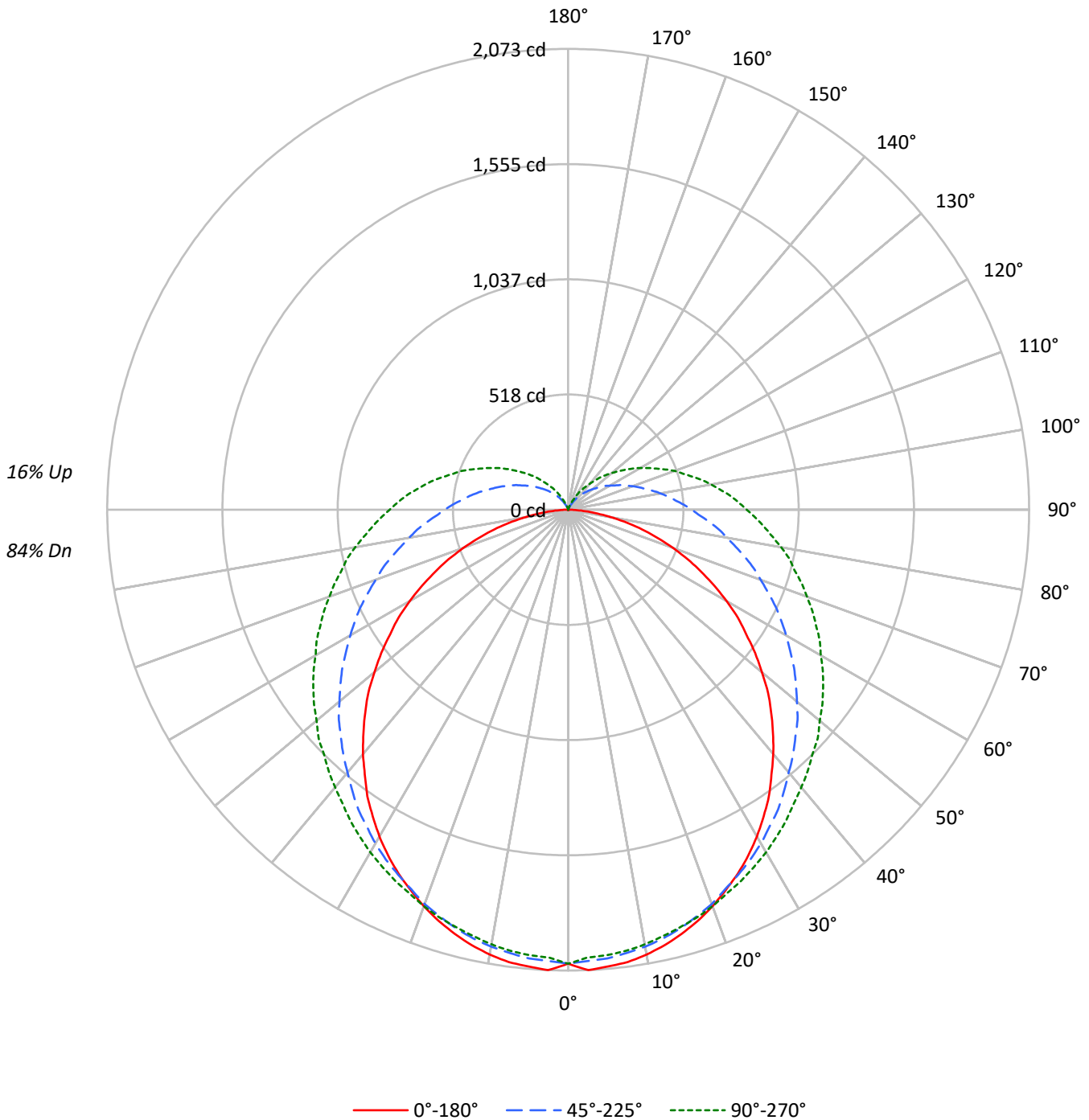
Input Watts (W): 69.18  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	16453	16453	16453
5°	16652	15417	14958
10°	16561	14484	13809
15°	16384	13625	12791
20°	16151	12818	11931
25°	15896	12042	11164
30°	15604	11383	10497
35°	15258	10754	9879
40°	14834	10108	9325
45°	14410	9565	8850
50°	13903	9046	8443
55°	13330	8574	8094
60°	12799	8104	7736
65°	12014	7697	7453
70°	11117	7271	7178
75°	9952	6935	6937
80°	8111	6606	6761
85°	5762	6373	6579



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.4	2.3
10°-20°	553.0	6.4
20°-30°	840.6	9.8
30°-40°	1028.8	12.0
40°-50°	1110.7	12.9
50°-60°	1090.4	12.7
60°-70°	982.1	11.5
70°-80°	813.2	9.5
80°-90°	625.4	7.3
90°-100°	471.5	5.5
100°-110°	346.9	4.0
110°-120°	239.4	2.8
120°-130°	151.8	1.8
130°-140°	84.0	1.0
140°-150°	36.4	0.4
150°-160°	9.1	0.1
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	1587.0	18.5
0°-40°	2615.8	30.5
0°-60°	4816.9	56.2
0°-90°	7237.7	84.4
90°-120°	1057.8	12.3
90°-150°	1330.0	15.5
90°-180°	1339.0	15.6
0°-180°	8577.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2042	2042	2042	2042	2042	
5°	2063	2052	2027	2027	2011	196
15°	1975	1970	1950	1960	1944	557
25°	1806	1806	1811	1847	1842	832
35°	1574	1590	1646	1698	1708	983
45°	1291	1348	1445	1533	1554	996
55°	977	1085	1240	1363	1399	877
65°	658	808	1029	1183	1229	653
75°	345	550	823	998	1054	365
85°	77	340	638	828	885	88
90°	0	262	556	746	802	4
95°	5	206	484	669	730	1
105°	0	129	360	525	576	0
115°	0	82	262	396	437	0
125°	0	51	180	283	314	0
135°	0	31	113	185	206	0
145°	0	10	57	103	113	0
155°	0	5	15	31	36	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°	2042.1	2042.1	2042.1	2042.1	2042.1
2.5°	2073.0	2057.6	2031.8	2031.8	2016.4
5°	2062.7	2052.4	2026.7	2026.7	2011.3
7.5°	2052.4	2042.1	2011.3	2016.4	2001.0
10°	2031.8	2021.5	1995.8	2001.0	1985.5
12.5°	2006.1	1995.8	1975.2	1980.4	1965.0
15°	1975.2	1970.1	1949.5	1959.8	1944.4
17.5°	1939.2	1934.1	1918.7	1934.1	1923.8
20°	1898.1	1898.1	1887.8	1908.4	1898.1
22.5°	1851.8	1851.8	1846.7	1877.5	1867.2
25°	1805.5	1805.5	1810.6	1846.7	1841.5
27.5°	1754.1	1759.2	1774.6	1815.8	1810.6
30°	1697.5	1707.8	1733.5	1779.8	1779.8
32.5°	1635.8	1646.0	1687.2	1743.8	1743.8
35°	1574.0	1589.5	1646.0	1697.5	1707.8
37.5°	1502.0	1527.7	1594.6	1656.3	1666.6
40°	1435.1	1471.1	1543.2	1615.2	1630.6
42.5°	1363.1	1409.4	1496.9	1579.2	1594.6
45°	1291.1	1347.7	1445.4	1532.9	1553.5
47.5°	1219.1	1280.8	1399.1	1491.7	1522.6
50°	1136.8	1214.0	1342.6	1450.6	1476.3
52.5°	1059.6	1147.1	1291.1	1404.3	1440.3
55°	977.3	1085.4	1239.7	1363.1	1399.1
57.5°	905.3	1013.3	1183.1	1322.0	1358.0
60°	823.0	941.3	1131.7	1270.5	1311.7
62.5°	740.7	879.6	1080.2	1229.4	1275.7
65°	658.4	807.6	1028.8	1183.1	1229.4
67.5°	581.3	740.7	972.2	1136.8	1188.2
70°	499.0	673.8	920.8	1090.5	1141.9
72.5°	421.8	612.1	874.5	1044.2	1100.8
75°	344.6	550.4	823.0	997.9	1054.5
77.5°	272.6	493.8	771.6	956.8	1018.5
80°	195.5	437.2	725.3	910.5	972.2
82.5°	133.7	385.8	684.1	869.3	925.9
85°	77.2	339.5	637.8	828.2	884.7
87.5°	30.9	298.3	591.5	781.9	843.6
90°	0.0	262.3	555.5	745.9	802.4
92.5°	0.0	231.5	519.5	704.7	766.4
95°	5.1	205.8	483.5	668.7	730.4
97.5°	0.0	180.0	452.7	632.7	689.3
100°	0.0	164.6	421.8	596.7	653.3
102.5°	0.0	144.0	390.9	560.7	617.3
105°	0.0	128.6	360.1	524.7	576.1
107.5°	0.0	118.3	334.4	493.8	540.1
110°	0.0	102.9	308.6	462.9	509.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	92.6	282.9	426.9	473.2
115°	0.0	82.3	262.3	396.1	437.2
117.5°	0.0	77.2	236.6	365.2	406.4
120°	0.0	66.9	216.0	339.5	375.5
122.5°	0.0	61.7	200.6	308.6	344.6
125°	0.0	51.4	180.0	282.9	313.8
127.5°	0.0	46.3	159.5	257.2	282.9
130°	0.0	41.2	144.0	231.5	257.2
132.5°	0.0	36.0	128.6	205.8	231.5
135°	0.0	30.9	113.2	185.2	205.8
137.5°	0.0	25.7	97.7	159.5	180.0
140°	0.0	20.6	82.3	138.9	154.3
142.5°	0.0	15.4	72.0	118.3	133.7
145°	0.0	10.3	56.6	102.9	113.2
147.5°	0.0	10.3	46.3	82.3	92.6
150°	0.0	5.1	30.9	66.9	72.0
152.5°	0.0	5.1	25.7	51.4	51.4
155°	0.0	5.1	15.4	30.9	36.0
157.5°	0.0	0.0	10.3	20.6	20.6
160°	0.0	0.0	5.1	10.3	15.4
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)