

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: P218383

Luminaire Tested: **8TSNLED-LD5-88SL-LW-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218383
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-LD5-88SL-LW-UNV-L830-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8640.0 lumens
Efficiency: N/A
Efficacy: 111.7 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

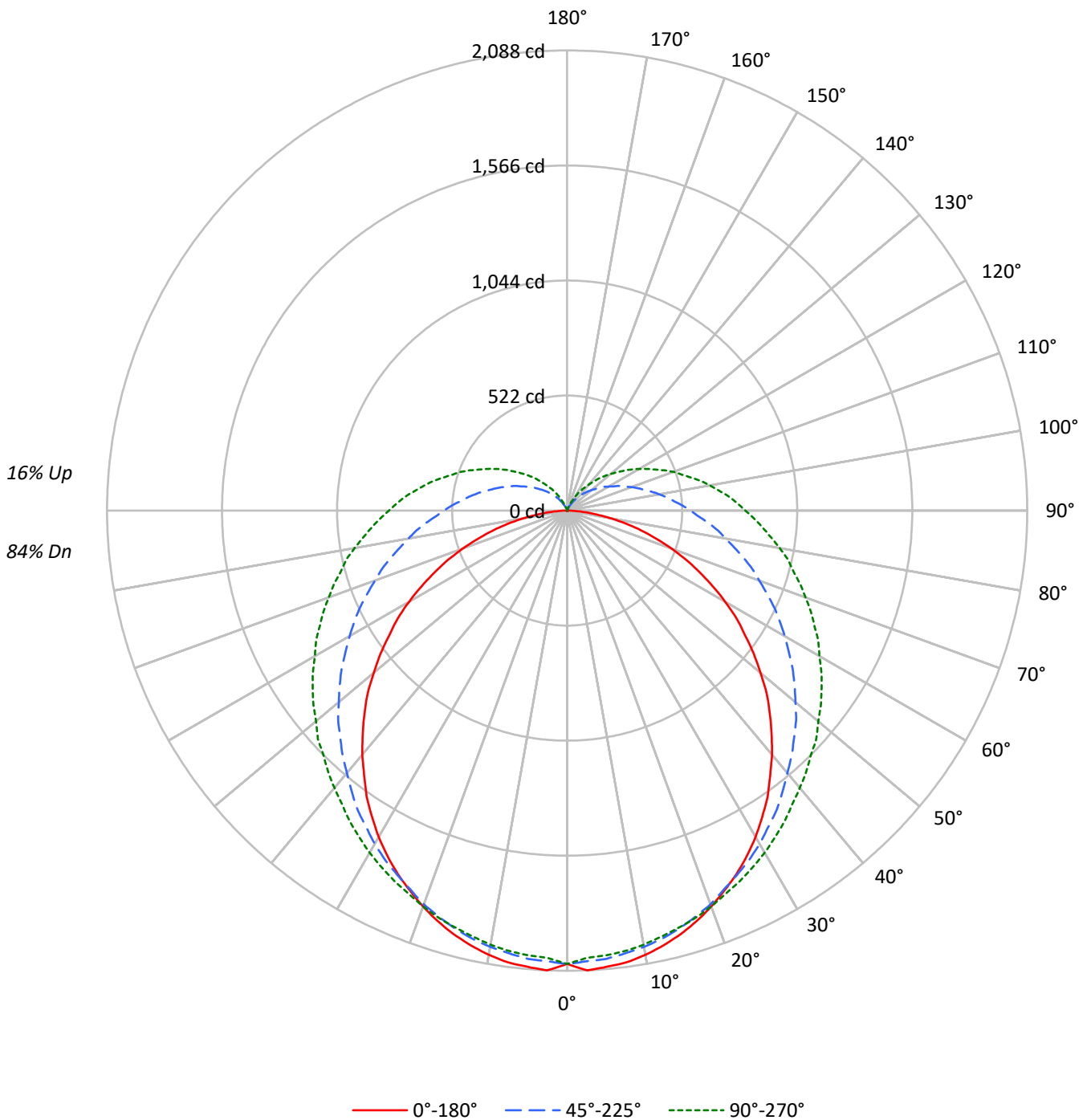
Input Watts (W): 77.38
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	16574	16574	16574
5°	16774	15531	15067
10°	16684	14591	13910
15°	16505	13725	12885
20°	16270	12912	12019
25°	16013	12131	11246
30°	15718	11466	10575
35°	15371	10833	9952
40°	14943	10182	9394
45°	14516	9635	8915
50°	14005	9112	8504
55°	13429	8637	8153
60°	12894	8163	7793
65°	12103	7753	7508
70°	11197	7324	7231
75°	10027	6987	6988
80°	8169	6655	6811
85°	5799	6420	6628



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.8	2.3
10°-20°	557.1	6.4
20°-30°	846.8	9.8
30°-40°	1036.3	12.0
40°-50°	1118.9	12.9
50°-60°	1098.5	12.7
60°-70°	989.3	11.5
70°-80°	819.2	9.5
80°-90°	630.0	7.3
90°-100°	475.0	5.5
100°-110°	349.5	4.0
110°-120°	241.1	2.8
120°-130°	152.9	1.8
130°-140°	84.6	1.0
140°-150°	36.7	0.4
150°-160°	9.2	0.1
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	1598.7	18.5
0°-40°	2635.0	30.5
0°-60°	4852.3	56.2
0°-90°	7290.8	84.4
90°-120°	1065.6	12.3
90°-150°	1339.8	15.5
90°-180°	1349.0	15.6
0°-180°	8640.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2057	2057	2057	2057	2057	
5°	2078	2068	2042	2042	2026	197
15°	1990	1985	1964	1974	1959	561
25°	1819	1819	1824	1860	1855	838
35°	1586	1601	1658	1710	1720	990
45°	1301	1358	1456	1544	1565	1003
55°	984	1093	1249	1373	1409	883
65°	663	814	1036	1192	1238	658
75°	347	554	829	1005	1062	368
85°	78	342	642	834	891	89
90°	0	264	560	751	808	4
95°	5	207	487	674	736	1
105°	0	130	363	528	580	0
115°	0	83	264	399	440	0
125°	0	52	181	285	316	0
135°	0	31	114	186	207	0
145°	0	10	57	104	114	0
155°	0	5	16	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°	2057.1	2057.1	2057.1	2057.1	2057.1
2.5°	2088.2	2072.7	2046.8	2046.8	2031.2
5°	2077.8	2067.5	2041.6	2041.6	2026.0
7.5°	2067.5	2057.1	2026.0	2031.2	2015.7
10°	2046.8	2036.4	2010.5	2015.7	2000.1
12.5°	2020.8	2010.5	1989.8	1994.9	1979.4
15°	1989.8	1984.6	1963.8	1974.2	1958.7
17.5°	1953.5	1948.3	1932.8	1948.3	1937.9
20°	1912.0	1912.0	1901.7	1922.4	1912.0
22.5°	1865.4	1865.4	1860.2	1891.3	1880.9
25°	1818.8	1818.8	1823.9	1860.2	1855.0
27.5°	1766.9	1772.1	1787.7	1829.1	1823.9
30°	1709.9	1720.3	1746.2	1792.9	1792.9
32.5°	1647.8	1658.1	1699.6	1756.6	1756.6
35°	1585.6	1601.1	1658.1	1709.9	1720.3
37.5°	1513.0	1539.0	1606.3	1668.5	1678.9
40°	1445.7	1482.0	1554.5	1627.0	1642.6
42.5°	1373.1	1419.8	1507.9	1590.8	1606.3
45°	1300.6	1357.6	1456.0	1544.1	1564.9
47.5°	1228.1	1290.2	1409.4	1502.7	1533.8
50°	1145.1	1222.9	1352.4	1461.2	1487.1
52.5°	1067.4	1155.5	1300.6	1414.6	1450.9
55°	984.5	1093.3	1248.8	1373.1	1409.4
57.5°	912.0	1020.8	1191.8	1331.7	1368.0
60°	829.1	948.2	1140.0	1279.9	1321.3
62.5°	746.2	886.1	1088.1	1238.4	1285.1
65°	663.3	813.5	1036.3	1191.8	1238.4
67.5°	585.5	746.2	979.3	1145.1	1197.0
70°	502.6	678.8	927.5	1098.5	1150.3
72.5°	424.9	616.6	880.9	1051.9	1108.9
75°	347.2	554.4	829.1	1005.2	1062.2
77.5°	274.6	497.4	777.2	963.8	1026.0
80°	196.9	440.4	730.6	917.2	979.3
82.5°	134.7	388.6	689.2	875.7	932.7
85°	77.7	342.0	642.5	834.2	891.2
87.5°	31.1	300.5	595.9	787.6	849.8
90°	0.0	264.3	559.6	751.3	808.3
92.5°	0.0	233.2	523.3	709.9	772.1
95°	5.2	207.3	487.1	673.6	735.8
97.5°	0.0	181.4	456.0	637.3	694.3
100°	0.0	165.8	424.9	601.1	658.1
102.5°	0.0	145.1	393.8	564.8	621.8
105°	0.0	129.5	362.7	528.5	580.3
107.5°	0.0	119.2	336.8	497.4	544.1
110°	0.0	103.6	310.9	466.3	513.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	93.3	285.0	430.1	476.7
115°	0.0	82.9	264.3	399.0	440.4
117.5°	0.0	77.7	238.4	367.9	409.4
120°	0.0	67.4	217.6	342.0	378.3
122.5°	0.0	62.2	202.1	310.9	347.2
125°	0.0	51.8	181.4	285.0	316.1
127.5°	0.0	46.6	160.6	259.1	285.0
130°	0.0	41.5	145.1	233.2	259.1
132.5°	0.0	36.3	129.5	207.3	233.2
135°	0.0	31.1	114.0	186.5	207.3
137.5°	0.0	25.9	98.5	160.6	181.4
140°	0.0	20.7	82.9	139.9	155.4
142.5°	0.0	15.5	72.5	119.2	134.7
145°	0.0	10.4	57.0	103.6	114.0
147.5°	0.0	10.4	46.6	82.9	93.3
150°	0.0	5.2	31.1	67.4	72.5
152.5°	0.0	5.2	25.9	51.8	51.8
155°	0.0	5.2	15.5	31.1	36.3
157.5°	0.0	0.0	10.4	20.7	20.7
160°	0.0	0.0	5.2	10.4	15.5
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)