

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: P218379

Luminaire Tested: **8TSNLED-LD5-81SL-LW-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218379
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-L830-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7915.0 lumens
Efficiency: N/A
Efficacy: 114.4 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

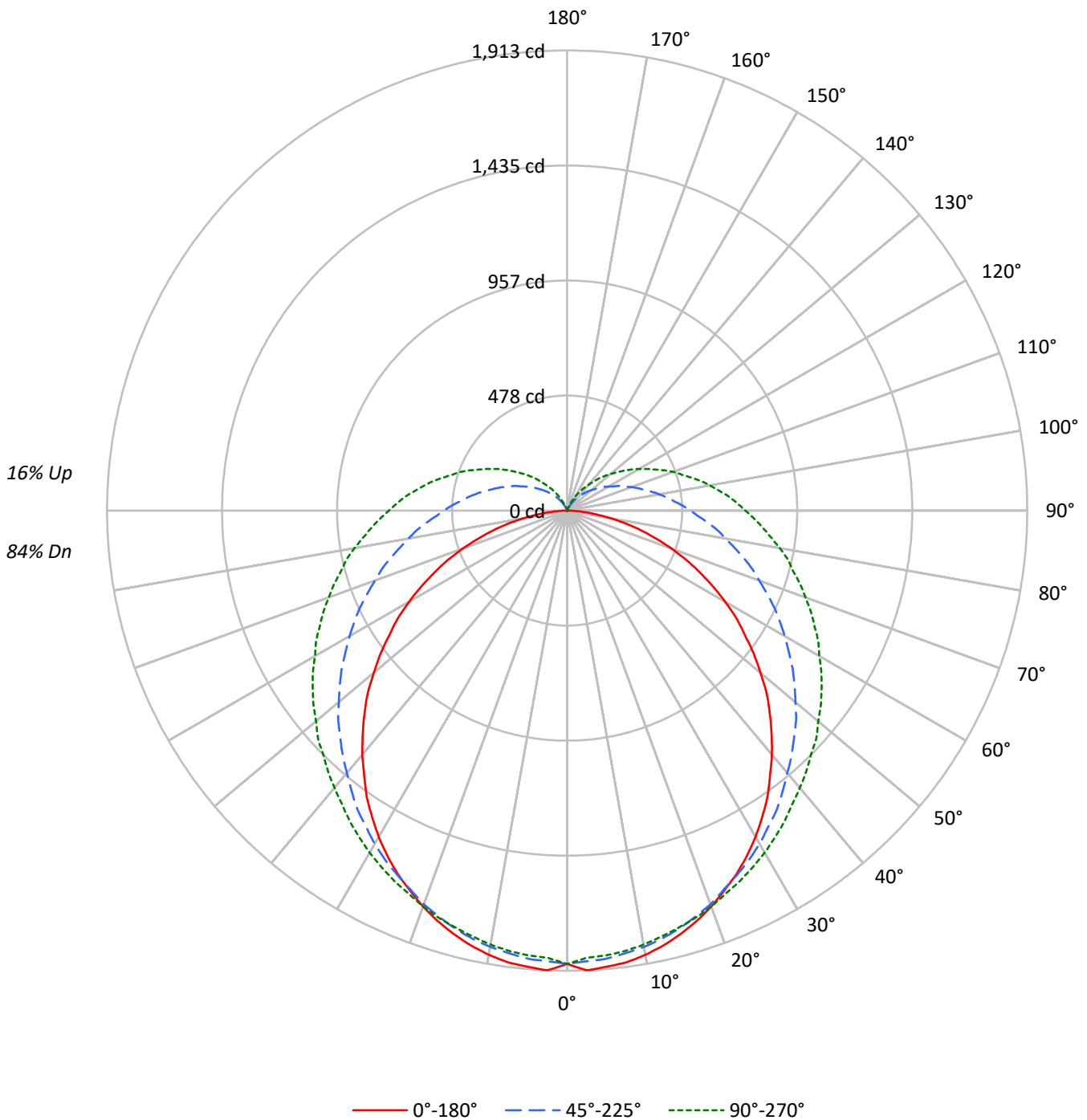
Input Watts (W): 69.18
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P218379

CATALOG NUMBER: 8TSNLED-LD5-81SL-LW-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P218379

CATALOG NUMBER: 8TSNLED-LD5-81SL-LW-UNV-L830-CD1-U

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°	15183	15183	15183
5°	15367	14228	13803
10°	15283	13367	12743
15°	15119	12574	11804
20°	14905	11829	11011
25°	14668	11113	10303
30°	14400	10504	9687
35°	14080	9924	9117
40°	13690	9328	8606
45°	13298	8827	8167
50°	12830	8347	7791
55°	12302	7912	7469
60°	11811	7478	7139
65°	11087	7103	6878
70°	10257	6709	6624
75°	9184	6400	6401
80°	7484	6096	6240
85°	5314	5882	6072



TEST NUMBER: P218379

CATALOG NUMBER: 8TSNLED-LD5-81SL-LW-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.5	2.3
10°-20°	510.4	6.4
20°-30°	775.7	9.8
30°-40°	949.4	12.0
40°-50°	1025.0	12.9
50°-60°	1006.3	12.7
60°-70°	906.3	11.5
70°-80°	750.5	9.5
80°-90°	577.2	7.3
90°-100°	435.1	5.5
100°-110°	320.2	4.0
110°-120°	220.9	2.8
120°-130°	140.1	1.8
130°-140°	77.5	1.0
140°-150°	33.6	0.4
150°-160°	8.4	0.1
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	1464.5	18.5
0°-40°	2413.9	30.5
0°-60°	4445.1	56.2
0°-90°	6679.1	84.4
90°-120°	976.1	12.3
90°-150°	1227.3	15.5
90°-180°	1236.0	15.6
0°-180°	7915.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1884	1884	1884	1884	1884	
5°	1904	1894	1870	1870	1856	181
15°	1823	1818	1799	1809	1794	514
25°	1666	1666	1671	1704	1699	767
35°	1452	1467	1519	1566	1576	907
45°	1192	1244	1334	1415	1434	919
55°	902	1002	1144	1258	1291	809
65°	608	745	949	1092	1134	603
75°	318	508	760	921	973	337
85°	71	313	589	764	816	81
90°	0	242	513	688	740	4
95°	5	190	446	617	674	1
105°	0	119	332	484	532	0
115°	0	76	242	366	404	0
125°	0	48	166	261	290	0
135°	0	28	104	171	190	0
145°	0	10	52	95	104	0
155°	0	5	14	28	33	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P218379

CATALOG NUMBER: 8TSNLED-LD5-81SL-LW-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1884.5	1884.5	1884.5	1884.5	1884.5
2.5°	1913.0	1898.7	1875.0	1875.0	1860.8
5°	1903.5	1894.0	1870.3	1870.3	1856.0
7.5°	1894.0	1884.5	1856.0	1860.8	1846.5
10°	1875.0	1865.5	1841.8	1846.5	1832.3
12.5°	1851.3	1841.8	1822.8	1827.5	1813.3
15°	1822.8	1818.0	1799.1	1808.6	1794.3
17.5°	1789.6	1784.8	1770.6	1784.8	1775.3
20°	1751.6	1751.6	1742.1	1761.1	1751.6
22.5°	1708.9	1708.9	1704.1	1732.6	1723.1
25°	1666.1	1666.1	1670.9	1704.1	1699.4
27.5°	1618.7	1623.4	1637.7	1675.6	1670.9
30°	1566.5	1576.0	1599.7	1642.4	1642.4
32.5°	1509.5	1519.0	1557.0	1609.2	1609.2
35°	1452.5	1466.8	1519.0	1566.5	1576.0
37.5°	1386.1	1409.8	1471.5	1528.5	1538.0
40°	1324.4	1357.6	1424.1	1490.5	1504.8
42.5°	1257.9	1300.6	1381.3	1457.3	1471.5
45°	1191.5	1243.7	1333.9	1414.6	1433.6
47.5°	1125.0	1182.0	1291.1	1376.6	1405.1
50°	1049.1	1120.3	1238.9	1338.6	1362.3
52.5°	977.9	1058.5	1191.5	1295.9	1329.1
55°	901.9	1001.6	1144.0	1257.9	1291.1
57.5°	835.4	935.1	1091.8	1219.9	1253.2
60°	759.5	868.7	1044.3	1172.5	1210.4
62.5°	683.5	811.7	996.8	1134.5	1177.2
65°	607.6	745.3	949.4	1091.8	1134.5
67.5°	536.4	683.5	897.2	1049.1	1096.5
70°	460.4	621.8	849.7	1006.3	1053.8
72.5°	389.2	564.9	807.0	963.6	1015.8
75°	318.0	507.9	759.5	920.9	973.1
77.5°	251.6	455.7	712.0	882.9	939.9
80°	180.4	403.5	669.3	840.2	897.2
82.5°	123.4	356.0	631.3	802.2	854.4
85°	71.2	313.3	588.6	764.2	816.5
87.5°	28.5	275.3	545.9	721.5	778.5
90°	0.0	242.1	512.7	688.3	740.5
92.5°	0.0	213.6	479.4	650.3	707.3
95°	4.7	189.9	446.2	617.1	674.1
97.5°	0.0	166.1	417.7	583.9	636.1
100°	0.0	151.9	389.2	550.6	602.9
102.5°	0.0	132.9	360.8	517.4	569.6
105°	0.0	118.7	332.3	484.2	531.6
107.5°	0.0	109.2	308.5	455.7	498.4
110°	0.0	94.9	284.8	427.2	469.9



TEST NUMBER: P218379

CATALOG NUMBER: 8TSNLED-LD5-81SL-LW-UNV-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	85.4	261.1	394.0	436.7
115°	0.0	75.9	242.1	365.5	403.5
117.5°	0.0	71.2	218.4	337.0	375.0
120°	0.0	61.7	199.4	313.3	346.5
122.5°	0.0	57.0	185.1	284.8	318.0
125°	0.0	47.5	166.1	261.1	289.6
127.5°	0.0	42.7	147.2	237.3	261.1
130°	0.0	38.0	132.9	213.6	237.3
132.5°	0.0	33.2	118.7	189.9	213.6
135°	0.0	28.5	104.4	170.9	189.9
137.5°	0.0	23.7	90.2	147.2	166.1
140°	0.0	19.0	75.9	128.2	142.4
142.5°	0.0	14.2	66.5	109.2	123.4
145°	0.0	9.5	52.2	94.9	104.4
147.5°	0.0	9.5	42.7	75.9	85.4
150°	0.0	4.7	28.5	61.7	66.5
152.5°	0.0	4.7	23.7	47.5	47.5
155°	0.0	4.7	14.2	28.5	33.2
157.5°	0.0	0.0	9.5	19.0	19.0
160°	0.0	0.0	4.7	9.5	14.2
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)