

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: P218380

Luminaire Tested: **8TSNLED-LD5-81SL-LW-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218380
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-L835-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8409.0 lumens
Efficiency: N/A
Efficacy: 121.6 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

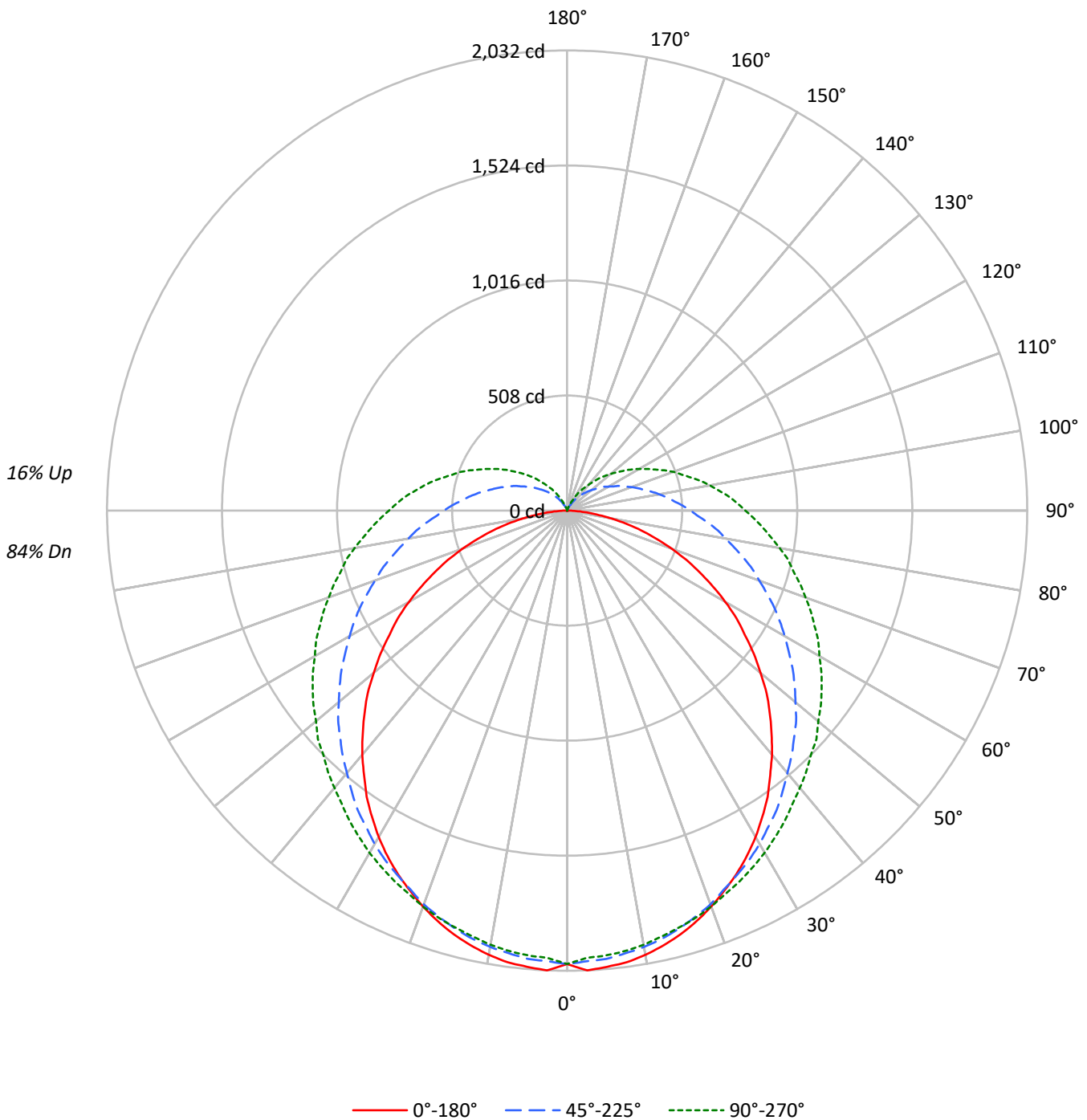
Input Watts (W): 69.18
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P218380

CATALOG NUMBER: 8TSNLED-LD5-81SL-LW-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P218380

CATALOG NUMBER: 8TSNLED-LD5-81SL-LW-UNV-L835-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	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°	16131	16131	16131
5°	16326	15115	14665
10°	16237	14200	13538
15°	16063	13358	12540
20°	15835	12567	11698
25°	15584	11807	10946
30°	15298	11160	10291
35°	14960	10543	9686
40°	14543	9909	9143
45°	14128	9377	8677
50°	13630	8869	8277
55°	13070	8406	7935
60°	12548	7945	7585
65°	11779	7546	7307
70°	10899	7128	7038
75°	9758	6800	6801
80°	7949	6477	6629
85°	5642	6248	6451



TEST NUMBER: P218380

CATALOG NUMBER: 8TSNLED-LD5-81SL-LW-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.6	2.3
10°-20°	542.2	6.4
20°-30°	824.1	9.8
30°-40°	1008.6	12.0
40°-50°	1088.9	12.9
50°-60°	1069.1	12.7
60°-70°	962.8	11.5
70°-80°	797.3	9.5
80°-90°	613.2	7.3
90°-100°	462.3	5.5
100°-110°	340.1	4.0
110°-120°	234.7	2.8
120°-130°	148.8	1.8
130°-140°	82.4	1.0
140°-150°	35.7	0.4
150°-160°	8.9	0.1
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	1555.9	18.5
0°-40°	2564.5	30.5
0°-60°	4722.5	56.2
0°-90°	7095.9	84.4
90°-120°	1037.1	12.3
90°-150°	1303.9	15.5
90°-180°	1313.0	15.6
0°-180°	8409.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2002	2002	2002	2002	2002	
5°	2022	2012	1987	1987	1972	192
15°	1937	1932	1911	1921	1906	546
25°	1770	1770	1775	1810	1805	815
35°	1543	1558	1614	1664	1674	963
45°	1266	1321	1417	1503	1523	976
55°	958	1064	1215	1336	1372	860
65°	646	792	1009	1160	1205	641
75°	338	540	807	978	1034	358
85°	76	333	625	812	867	86
90°	0	257	545	731	787	4
95°	5	202	474	656	716	1
105°	0	126	353	514	565	0
115°	0	81	257	388	429	0
125°	0	50	176	277	308	0
135°	0	30	111	182	202	0
145°	0	10	56	101	111	0
155°	0	5	15	30	35	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P218380

CATALOG NUMBER: 8TSNLED-LD5-81SL-LW-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2002.1	2002.1	2002.1	2002.1	2002.1
2.5°	2032.4	2017.2	1992.0	1992.0	1976.9
5°	2022.3	2012.2	1987.0	1987.0	1971.9
7.5°	2012.2	2002.1	1971.9	1976.9	1961.8
10°	1992.0	1981.9	1956.7	1961.8	1946.6
12.5°	1966.8	1956.7	1936.6	1941.6	1926.5
15°	1936.6	1931.5	1911.3	1921.4	1906.3
17.5°	1901.3	1896.2	1881.1	1896.2	1886.1
20°	1860.9	1860.9	1850.8	1871.0	1860.9
22.5°	1815.5	1815.5	1810.5	1840.7	1830.7
25°	1770.1	1770.1	1775.2	1810.5	1805.4
27.5°	1719.7	1724.7	1739.9	1780.2	1775.2
30°	1664.2	1674.3	1699.5	1744.9	1744.9
32.5°	1603.7	1613.8	1654.1	1709.6	1709.6
35°	1543.2	1558.3	1613.8	1664.2	1674.3
37.5°	1472.6	1497.8	1563.4	1623.9	1634.0
40°	1407.0	1442.3	1512.9	1583.5	1598.7
42.5°	1336.4	1381.8	1467.5	1548.2	1563.4
45°	1265.8	1321.3	1417.1	1502.9	1523.0
47.5°	1195.2	1255.7	1371.7	1462.5	1492.8
50°	1114.5	1190.2	1316.3	1422.2	1447.4
52.5°	1038.9	1124.6	1265.8	1376.8	1412.1
55°	958.2	1064.1	1215.4	1336.4	1371.7
57.5°	887.6	993.5	1159.9	1296.1	1331.4
60°	806.9	922.9	1109.5	1245.7	1286.0
62.5°	726.2	862.4	1059.1	1205.3	1250.7
65°	645.5	791.8	1008.6	1159.9	1205.3
67.5°	569.9	726.2	953.2	1114.5	1165.0
70°	489.2	660.6	902.7	1069.1	1119.6
72.5°	413.5	600.1	857.3	1023.8	1079.2
75°	337.9	539.6	806.9	978.4	1033.8
77.5°	267.3	484.1	756.5	938.0	998.5
80°	191.6	428.7	711.1	892.6	953.2
82.5°	131.1	378.2	670.7	852.3	907.8
85°	75.6	332.8	625.3	811.9	867.4
87.5°	30.3	292.5	580.0	766.6	827.1
90°	0.0	257.2	544.7	731.3	786.7
92.5°	0.0	226.9	509.4	690.9	751.4
95°	5.0	201.7	474.1	655.6	716.1
97.5°	0.0	176.5	443.8	620.3	675.8
100°	0.0	161.4	413.5	585.0	640.5
102.5°	0.0	141.2	383.3	549.7	605.2
105°	0.0	126.1	353.0	514.4	564.8
107.5°	0.0	116.0	327.8	484.1	529.5
110°	0.0	100.9	302.6	453.9	499.3



TEST NUMBER: P218380

CATALOG NUMBER: 8TSNLED-LD5-81SL-LW-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	90.8	277.4	418.6	464.0
115°	0.0	80.7	257.2	388.3	428.7
117.5°	0.0	75.6	232.0	358.1	398.4
120°	0.0	65.6	211.8	332.8	368.1
122.5°	0.0	60.5	196.7	302.6	337.9
125°	0.0	50.4	176.5	277.4	307.6
127.5°	0.0	45.4	156.3	252.2	277.4
130°	0.0	40.3	141.2	226.9	252.2
132.5°	0.0	35.3	126.1	201.7	226.9
135°	0.0	30.3	110.9	181.6	201.7
137.5°	0.0	25.2	95.8	156.3	176.5
140°	0.0	20.2	80.7	136.2	151.3
142.5°	0.0	15.1	70.6	116.0	131.1
145°	0.0	10.1	55.5	100.9	110.9
147.5°	0.0	10.1	45.4	80.7	90.8
150°	0.0	5.0	30.3	65.6	70.6
152.5°	0.0	5.0	25.2	50.4	50.4
155°	0.0	5.0	15.1	30.3	35.3
157.5°	0.0	0.0	10.1	20.2	20.2
160°	0.0	0.0	5.0	10.1	15.1
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)