

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: P218374

Luminaire Tested: **8TSNLED-LD5-67SL-LW-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218374  
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-LD5-67SL-LW-UNV-L850-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7713.0 lumens  
Efficiency: N/A  
Efficacy: 139.3 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

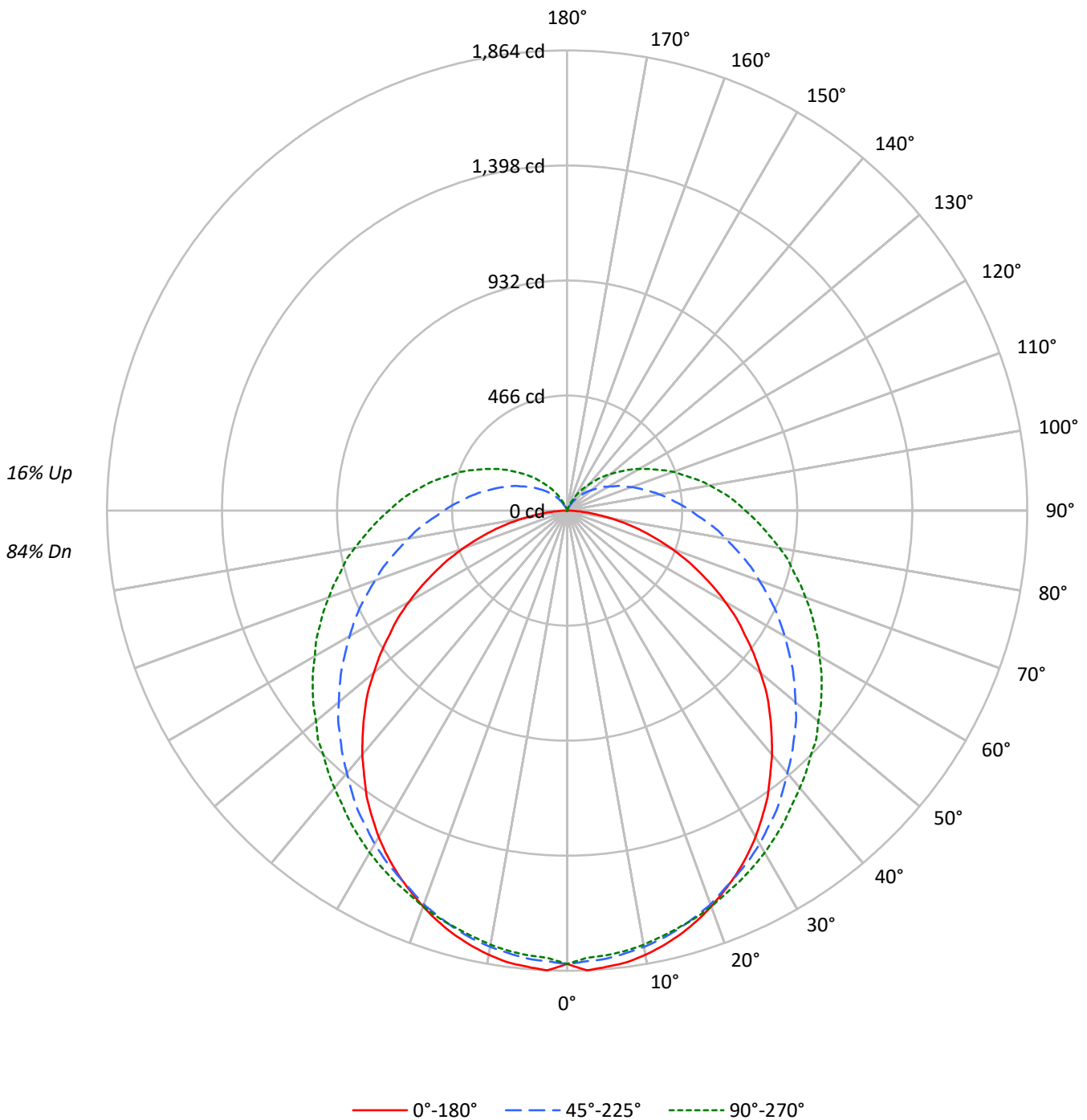
Input Watts (W): 55.38  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20										
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	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°	14796	14796	14796
5°	14974	13864	13451
10°	14894	13026	12418
15°	14734	12253	11502
20°	14524	11527	10730
25°	14294	10830	10040
30°	14032	10237	9440
35°	13722	9671	8884
40°	13340	9089	8386
45°	12959	8601	7959
50°	12503	8135	7592
55°	11988	7710	7279
60°	11510	7287	6957
65°	10804	6921	6702
70°	9996	6538	6455
75°	8950	6237	6238
80°	7293	5940	6081
85°	5180	5732	5917



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.9	2.3
10°-20°	497.3	6.4
20°-30°	755.9	9.8
30°-40°	925.1	12.0
40°-50°	998.8	12.9
50°-60°	980.6	12.7
60°-70°	883.2	11.5
70°-80°	731.3	9.5
80°-90°	562.4	7.3
90°-100°	424.0	5.5
100°-110°	312.0	4.0
110°-120°	215.2	2.8
120°-130°	136.5	1.8
130°-140°	75.5	1.0
140°-150°	32.7	0.4
150°-160°	8.2	0.1
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	1427.2	18.5
0°-40°	2352.3	30.5
0°-60°	4331.7	56.2
0°-90°	6508.6	84.4
90°-120°	951.2	12.3
90°-150°	1196.0	15.5
90°-180°	1204.0	15.6
0°-180°	7713.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1836	1836	1836	1836	1836	
5°	1855	1846	1822	1822	1809	176
15°	1776	1772	1753	1762	1748	501
25°	1624	1624	1628	1661	1656	748
35°	1416	1429	1480	1526	1536	884
45°	1161	1212	1300	1378	1397	895
55°	879	976	1115	1226	1258	789
65°	592	726	925	1064	1106	588
75°	310	495	740	897	948	329
85°	69	305	574	745	796	79
90°	0	236	500	671	722	4
95°	5	185	435	601	657	1
105°	0	116	324	472	518	0
115°	0	74	236	356	393	0
125°	0	46	162	254	282	0
135°	0	28	102	166	185	0
145°	0	9	51	92	102	0
155°	0	5	14	28	32	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°	1836.4	1836.4	1836.4	1836.4	1836.4
2.5°	1864.2	1850.3	1827.2	1827.2	1813.3
5°	1854.9	1845.7	1822.5	1822.5	1808.7
7.5°	1845.7	1836.4	1808.7	1813.3	1799.4
10°	1827.2	1817.9	1794.8	1799.4	1785.5
12.5°	1804.0	1794.8	1776.3	1780.9	1767.0
15°	1776.3	1771.6	1753.1	1762.4	1748.5
17.5°	1743.9	1739.3	1725.4	1739.3	1730.0
20°	1706.9	1706.9	1697.6	1716.1	1706.9
22.5°	1665.3	1665.3	1660.6	1688.4	1679.1
25°	1623.6	1623.6	1628.3	1660.6	1656.0
27.5°	1577.4	1582.0	1595.9	1632.9	1628.3
30°	1526.5	1535.7	1558.9	1600.5	1600.5
32.5°	1471.0	1480.2	1517.2	1568.1	1568.1
35°	1415.5	1429.3	1480.2	1526.5	1535.7
37.5°	1350.7	1373.8	1434.0	1489.5	1498.7
40°	1290.6	1323.0	1387.7	1452.5	1466.4
42.5°	1225.8	1267.4	1346.1	1420.1	1434.0
45°	1161.1	1211.9	1299.8	1378.5	1397.0
47.5°	1096.3	1151.8	1258.2	1341.5	1369.2
50°	1022.3	1091.7	1207.3	1304.5	1327.6
52.5°	952.9	1031.5	1161.1	1262.8	1295.2
55°	878.9	976.0	1114.8	1225.8	1258.2
57.5°	814.1	911.3	1063.9	1188.8	1221.2
60°	740.1	846.5	1017.7	1142.6	1179.6
62.5°	666.1	791.0	971.4	1105.5	1147.2
65°	592.1	726.2	925.1	1063.9	1105.5
67.5°	522.7	666.1	874.3	1022.3	1068.5
70°	448.7	606.0	828.0	980.7	1026.9
72.5°	379.3	550.5	786.4	939.0	989.9
75°	309.9	495.0	740.1	897.4	948.3
77.5°	245.2	444.1	693.9	860.4	915.9
80°	175.8	393.2	652.2	818.8	874.3
82.5°	120.3	346.9	615.2	781.7	832.6
85°	69.4	305.3	573.6	744.7	795.6
87.5°	27.8	268.3	532.0	703.1	758.6
90°	0.0	235.9	499.6	670.7	721.6
92.5°	0.0	208.2	467.2	633.7	689.2
95°	4.6	185.0	434.8	601.3	656.9
97.5°	0.0	161.9	407.1	569.0	619.8
100°	0.0	148.0	379.3	536.6	587.5
102.5°	0.0	129.5	351.6	504.2	555.1
105°	0.0	115.6	323.8	471.8	518.1
107.5°	0.0	106.4	300.7	444.1	485.7
110°	0.0	92.5	277.5	416.3	457.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	83.3	254.4	383.9	425.6
115°	0.0	74.0	235.9	356.2	393.2
117.5°	0.0	69.4	212.8	328.4	365.4
120°	0.0	60.1	194.3	305.3	337.7
122.5°	0.0	55.5	180.4	277.5	309.9
125°	0.0	46.3	161.9	254.4	282.2
127.5°	0.0	41.6	143.4	231.3	254.4
130°	0.0	37.0	129.5	208.2	231.3
132.5°	0.0	32.4	115.6	185.0	208.2
135°	0.0	27.8	101.8	166.5	185.0
137.5°	0.0	23.1	87.9	143.4	161.9
140°	0.0	18.5	74.0	124.9	138.8
142.5°	0.0	13.9	64.8	106.4	120.3
145°	0.0	9.3	50.9	92.5	101.8
147.5°	0.0	9.3	41.6	74.0	83.3
150°	0.0	4.6	27.8	60.1	64.8
152.5°	0.0	4.6	23.1	46.3	46.3
155°	0.0	4.6	13.9	27.8	32.4
157.5°	0.0	0.0	9.3	18.5	18.5
160°	0.0	0.0	4.6	9.3	13.9
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)