

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: P218377

Luminaire Tested: **8TSNLED-LD5-74SL-LW-UNV-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218377  
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-LD5-74SL-LW-UNV-L840-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7763.0 lumens  
Efficiency: N/A  
Efficacy: 126.9 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

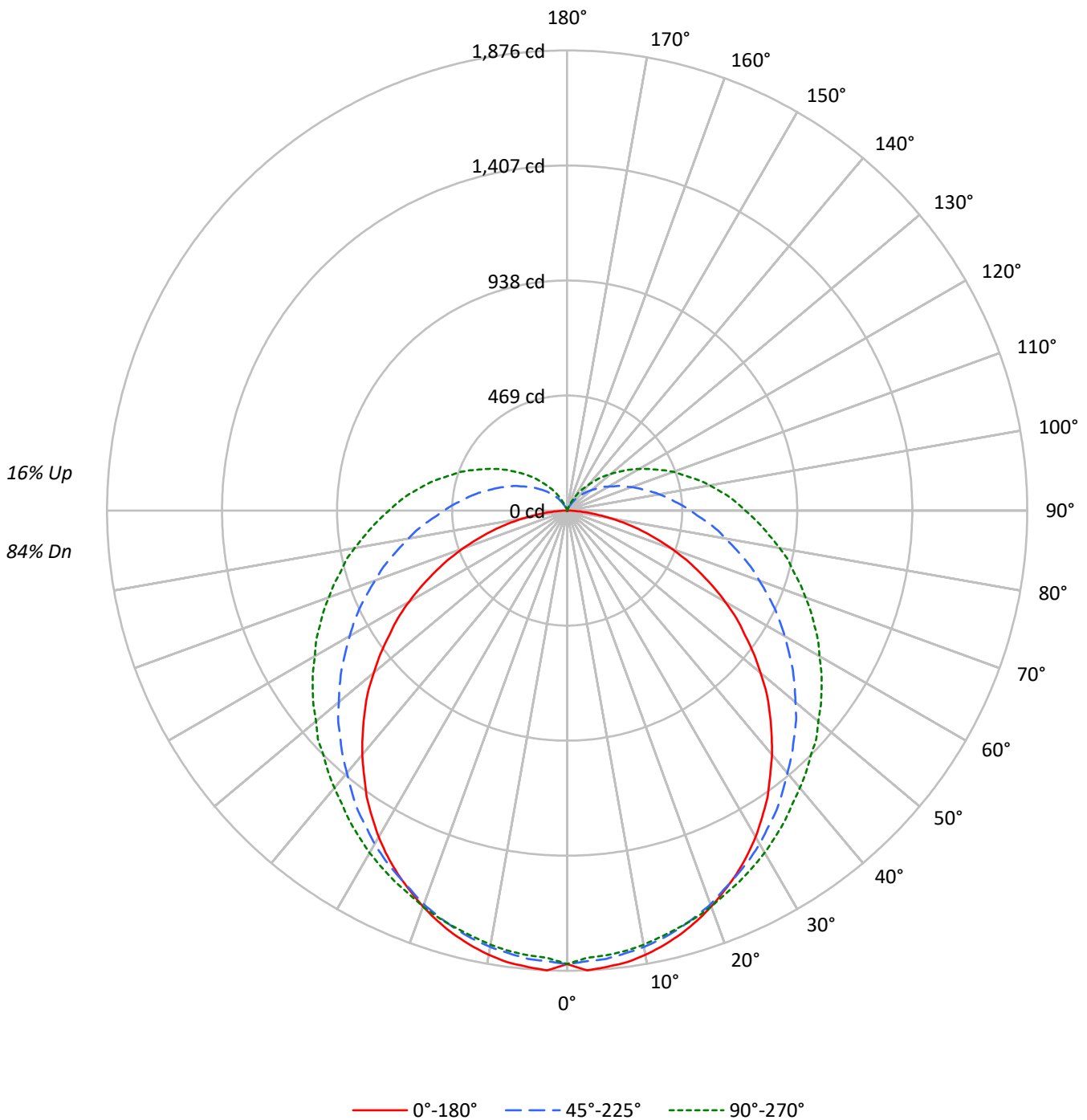
Input Watts (W): 61.16  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	14891	14891	14891
5°	15071	13954	13538
10°	14990	13110	12498
15°	14829	12332	11577
20°	14619	11601	10799
25°	14388	10900	10105
30°	14123	10303	9501
35°	13810	9733	8942
40°	13426	9148	8440
45°	13043	8657	8010
50°	12583	8187	7641
55°	12066	7760	7325
60°	11584	7335	7002
65°	10874	6966	6746
70°	10061	6581	6497
75°	9007	6277	6278
80°	7339	5980	6120
85°	5209	5769	5956



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.0	2.3
10°-20°	500.5	6.4
20°-30°	760.8	9.8
30°-40°	931.1	12.0
40°-50°	1005.3	12.9
50°-60°	987.0	12.7
60°-70°	888.9	11.5
70°-80°	736.1	9.5
80°-90°	566.1	7.3
90°-100°	426.7	5.5
100°-110°	314.0	4.0
110°-120°	216.6	2.8
120°-130°	137.4	1.8
130°-140°	76.0	1.0
140°-150°	32.9	0.4
150°-160°	8.2	0.1
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	1436.4	18.5
0°-40°	2367.5	30.5
0°-60°	4359.8	56.2
0°-90°	6550.8	84.4
90°-120°	957.4	12.3
90°-150°	1203.7	15.5
90°-180°	1212.0	15.6
0°-180°	7763.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1848	1848	1848	1848	1848	
5°	1867	1858	1834	1834	1820	177
15°	1788	1783	1764	1774	1760	504
25°	1634	1634	1639	1671	1667	753
35°	1425	1439	1490	1536	1546	889
45°	1169	1220	1308	1387	1406	901
55°	885	982	1122	1234	1266	794
65°	596	731	931	1071	1113	591
75°	312	498	745	903	954	331
85°	70	307	577	750	801	80
90°	0	237	503	675	726	4
95°	5	186	438	605	661	1
105°	0	116	326	475	521	0
115°	0	74	237	358	396	0
125°	0	47	163	256	284	0
135°	0	28	102	168	186	0
145°	0	9	51	93	102	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1848.3	1848.3	1848.3	1848.3	1848.3
2.5°	1876.2	1862.3	1839.0	1839.0	1825.0
5°	1866.9	1857.6	1834.3	1834.3	1820.4
7.5°	1857.6	1848.3	1820.4	1825.0	1811.1
10°	1839.0	1829.7	1806.4	1811.1	1797.1
12.5°	1815.7	1806.4	1787.8	1792.4	1778.5
15°	1787.8	1783.1	1764.5	1773.8	1759.9
17.5°	1755.2	1750.5	1736.6	1750.5	1741.2
20°	1718.0	1718.0	1708.6	1727.3	1718.0
22.5°	1676.1	1676.1	1671.4	1699.3	1690.0
25°	1634.2	1634.2	1638.8	1671.4	1666.7
27.5°	1587.6	1592.2	1606.2	1643.5	1638.8
30°	1536.4	1545.7	1569.0	1610.9	1610.9
32.5°	1480.5	1489.8	1527.1	1578.3	1578.3
35°	1424.6	1438.6	1489.8	1536.4	1545.7
37.5°	1359.5	1382.7	1443.3	1499.1	1508.4
40°	1298.9	1331.5	1396.7	1461.9	1475.9
42.5°	1233.8	1275.7	1354.8	1429.3	1443.3
45°	1168.6	1219.8	1308.3	1387.4	1406.0
47.5°	1103.4	1159.3	1266.3	1350.2	1378.1
50°	1028.9	1098.7	1215.1	1312.9	1336.2
52.5°	959.1	1038.2	1168.6	1271.0	1303.6
55°	884.6	982.4	1122.0	1233.8	1266.3
57.5°	819.4	917.2	1070.8	1196.5	1229.1
60°	744.9	852.0	1024.3	1150.0	1187.2
62.5°	670.4	796.1	977.7	1112.7	1154.6
65°	595.9	730.9	931.1	1070.8	1112.7
67.5°	526.1	670.4	879.9	1028.9	1075.5
70°	451.6	609.9	833.4	987.0	1033.6
72.5°	381.8	554.0	791.5	945.1	996.3
75°	311.9	498.2	744.9	903.2	954.4
77.5°	246.8	446.9	698.4	866.0	921.8
80°	176.9	395.7	656.5	824.1	879.9
82.5°	121.0	349.2	619.2	786.8	838.0
85°	69.8	307.3	577.3	749.6	800.8
87.5°	27.9	270.0	535.4	707.7	763.5
90°	0.0	237.4	502.8	675.1	726.3
92.5°	0.0	209.5	470.2	637.8	693.7
95°	4.7	186.2	437.6	605.2	661.1
97.5°	0.0	162.9	409.7	572.7	623.9
100°	0.0	149.0	381.8	540.1	591.3
102.5°	0.0	130.4	353.8	507.5	558.7
105°	0.0	116.4	325.9	474.9	521.4
107.5°	0.0	107.1	302.6	446.9	488.8
110°	0.0	93.1	279.3	419.0	460.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	83.8	256.1	386.4	428.3
115°	0.0	74.5	237.4	358.5	395.7
117.5°	0.0	69.8	214.2	330.6	367.8
120°	0.0	60.5	195.5	307.3	339.9
122.5°	0.0	55.9	181.6	279.3	311.9
125°	0.0	46.6	162.9	256.1	284.0
127.5°	0.0	41.9	144.3	232.8	256.1
130°	0.0	37.2	130.4	209.5	232.8
132.5°	0.0	32.6	116.4	186.2	209.5
135°	0.0	27.9	102.4	167.6	186.2
137.5°	0.0	23.3	88.5	144.3	162.9
140°	0.0	18.6	74.5	125.7	139.7
142.5°	0.0	14.0	65.2	107.1	121.0
145°	0.0	9.3	51.2	93.1	102.4
147.5°	0.0	9.3	41.9	74.5	83.8
150°	0.0	4.7	27.9	60.5	65.2
152.5°	0.0	4.7	23.3	46.6	46.6
155°	0.0	4.7	14.0	27.9	32.6
157.5°	0.0	0.0	9.3	18.6	18.6
160°	0.0	0.0	4.7	9.3	14.0
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)