

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: P218398

Luminaire Tested: **8TSNLED-LD5-150HL-LW-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218398
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-LD5-150HL-LW-UNV-L850-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14494.0 lumens
Efficiency: N/A
Efficacy: 117.3 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

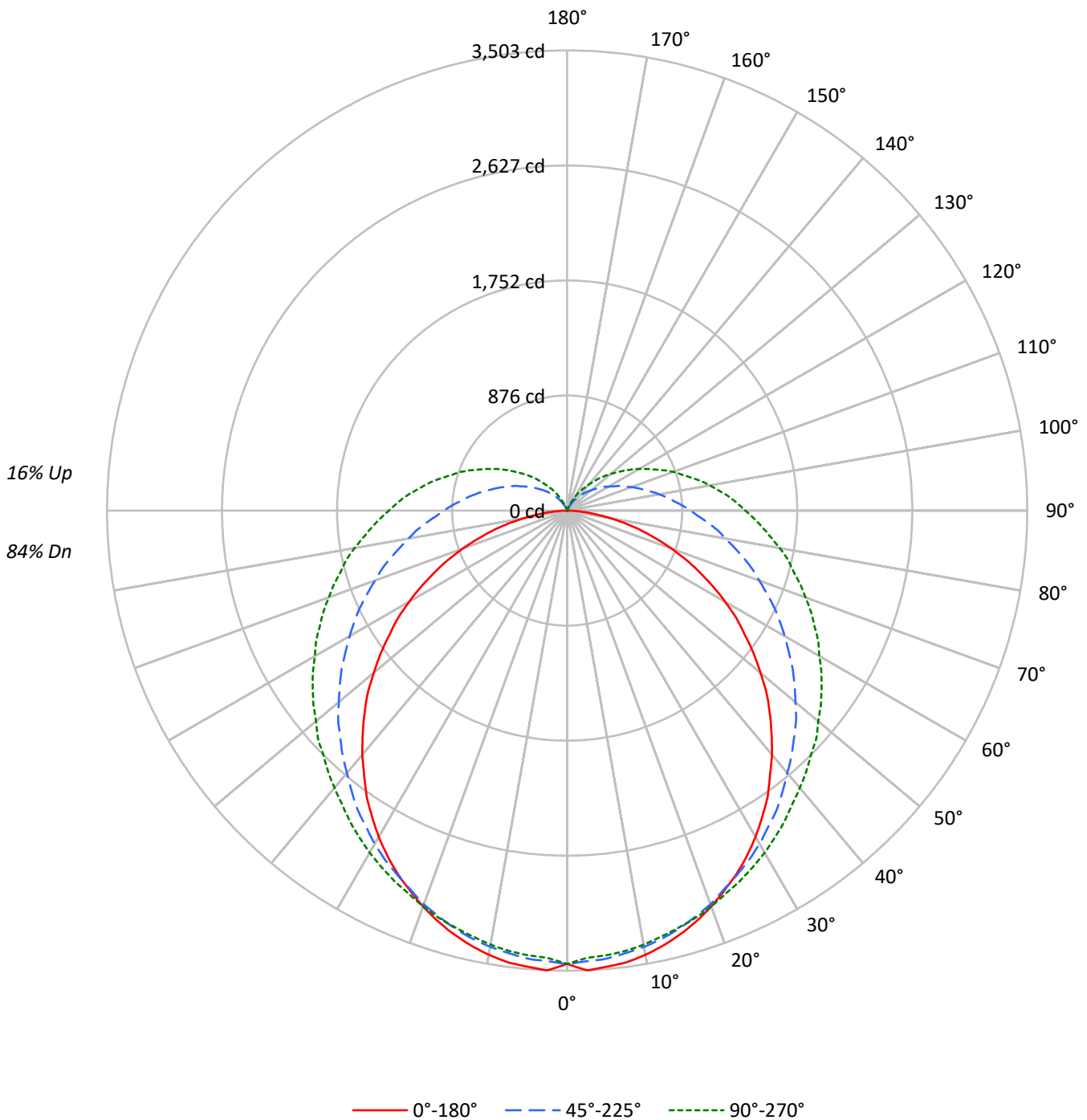
Input Watts (W): 123.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	27803	27803	27803
5°	28140	26053	25277
10°	27987	24477	23335
15°	27687	23025	21615
20°	27293	21661	20162
25°	26862	20351	18866
30°	26368	19236	17739
35°	25785	18173	16695
40°	25068	17080	15758
45°	24351	16163	14955
50°	23494	15286	14267
55°	22528	14489	13678
60°	21629	13693	13074
65°	20302	13007	12595
70°	18785	12286	12130
75°	16819	11720	11723
80°	13703	11163	11426
85°	9732	10771	11119



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.8	2.3
10°-20°	934.6	6.4
20°-30°	1420.5	9.8
30°-40°	1738.5	12.0
40°-50°	1876.9	12.9
50°-60°	1842.7	12.7
60°-70°	1659.6	11.5
70°-80°	1374.3	9.5
80°-90°	1056.9	7.3
90°-100°	796.8	5.5
100°-110°	586.3	4.0
110°-120°	404.5	2.8
120°-130°	256.5	1.8
130°-140°	142.0	1.0
140°-150°	61.5	0.4
150°-160°	15.4	0.1
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-30°	2681.9	18.5
0°-40°	4420.3	30.5
0°-60°	8139.9	56.2
0°-90°	12230.7	84.4
90°-120°	1787.5	12.3
90°-150°	2247.5	15.5
90°-180°	2263.0	15.6
0°-180°	14494.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3451	3451	3451	3451	3451	
5°	3486	3468	3425	3425	3399	331
15°	3338	3329	3294	3312	3286	941
25°	3051	3051	3060	3121	3112	1405
35°	2660	2686	2782	2868	2886	1661
45°	2182	2277	2443	2590	2625	1683
55°	1652	1834	2095	2304	2364	1482
65°	1113	1365	1738	1999	2078	1104
75°	582	930	1391	1686	1782	618
85°	130	574	1078	1400	1495	149
90°	0	443	939	1260	1356	7
95°	9	348	817	1130	1234	2
105°	0	217	608	887	974	0
115°	0	139	443	669	739	0
125°	0	87	304	478	530	0
135°	0	52	191	313	348	0
145°	0	17	96	174	191	0
155°	0	9	26	52	61	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°	3450.9	3450.9	3450.9	3450.9	3450.9
2.5°	3503.1	3477.0	3433.5	3433.5	3407.5
5°	3485.7	3468.3	3424.8	3424.8	3398.8
7.5°	3468.3	3450.9	3398.8	3407.5	3381.4
10°	3433.5	3416.1	3372.7	3381.4	3355.3
12.5°	3390.1	3372.7	3337.9	3346.6	3320.5
15°	3337.9	3329.2	3294.4	3311.8	3285.8
17.5°	3277.1	3268.4	3242.3	3268.4	3251.0
20°	3207.5	3207.5	3190.1	3224.9	3207.5
22.5°	3129.3	3129.3	3120.6	3172.8	3155.4
25°	3051.1	3051.1	3059.8	3120.6	3111.9
27.5°	2964.1	2972.8	2998.9	3068.4	3059.8
30°	2868.5	2885.9	2929.4	3007.6	3007.6
32.5°	2764.2	2781.6	2851.1	2946.7	2946.7
35°	2659.9	2686.0	2781.6	2868.5	2885.9
37.5°	2538.2	2581.7	2694.7	2799.0	2816.4
40°	2425.2	2486.0	2607.7	2729.4	2755.5
42.5°	2303.5	2381.7	2529.5	2668.6	2694.7
45°	2181.8	2277.4	2442.6	2590.4	2625.1
47.5°	2060.1	2164.4	2364.4	2520.8	2573.0
50°	1921.0	2051.4	2268.7	2451.3	2494.7
52.5°	1790.6	1938.4	2181.8	2373.0	2433.9
55°	1651.6	1834.1	2094.9	2303.5	2364.4
57.5°	1529.9	1712.4	1999.3	2234.0	2294.8
60°	1390.8	1590.7	1912.3	2147.0	2216.6
62.5°	1251.7	1486.4	1825.4	2077.5	2155.7
65°	1112.6	1364.7	1738.5	1999.3	2077.5
67.5°	982.2	1251.7	1642.9	1921.0	2008.0
70°	843.2	1138.7	1556.0	1842.8	1929.7
72.5°	712.8	1034.4	1477.7	1764.6	1860.2
75°	582.4	930.1	1390.8	1686.3	1782.0
77.5°	460.7	834.5	1303.9	1616.8	1721.1
80°	330.3	738.9	1225.6	1538.6	1642.9
82.5°	226.0	651.9	1156.1	1469.0	1564.6
85°	130.4	573.7	1077.9	1399.5	1495.1
87.5°	52.2	504.2	999.6	1321.3	1425.6
90°	0.0	443.3	938.8	1260.4	1356.0
92.5°	0.0	391.2	877.9	1190.9	1295.2
95°	8.7	347.7	817.1	1130.0	1234.3
97.5°	0.0	304.2	764.9	1069.2	1164.8
100°	0.0	278.2	712.8	1008.3	1103.9
102.5°	0.0	243.4	660.6	947.5	1043.1
105°	0.0	217.3	608.5	886.6	973.6
107.5°	0.0	199.9	565.0	834.5	912.7
110°	0.0	173.8	521.5	782.3	860.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	156.5	478.1	721.5	799.7
115°	0.0	139.1	443.3	669.3	738.9
117.5°	0.0	130.4	399.9	617.2	686.7
120°	0.0	113.0	365.1	573.7	634.6
122.5°	0.0	104.3	339.0	521.5	582.4
125°	0.0	86.9	304.2	478.1	530.2
127.5°	0.0	78.2	269.5	434.6	478.1
130°	0.0	69.5	243.4	391.2	434.6
132.5°	0.0	60.8	217.3	347.7	391.2
135°	0.0	52.2	191.2	312.9	347.7
137.5°	0.0	43.5	165.2	269.5	304.2
140°	0.0	34.8	139.1	234.7	260.8
142.5°	0.0	26.1	121.7	199.9	226.0
145°	0.0	17.4	95.6	173.8	191.2
147.5°	0.0	17.4	78.2	139.1	156.5
150°	0.0	8.7	52.2	113.0	121.7
152.5°	0.0	8.7	43.5	86.9	86.9
155°	0.0	8.7	26.1	52.2	60.8
157.5°	0.0	0.0	17.4	34.8	34.8
160°	0.0	0.0	8.7	17.4	26.1
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)