

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: P218350

Luminaire Tested: **4SNLED-LD5-54HL-LW-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218350
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: 4SNLED-LD5-54HL-LW-UNV-L850-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5572.0 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

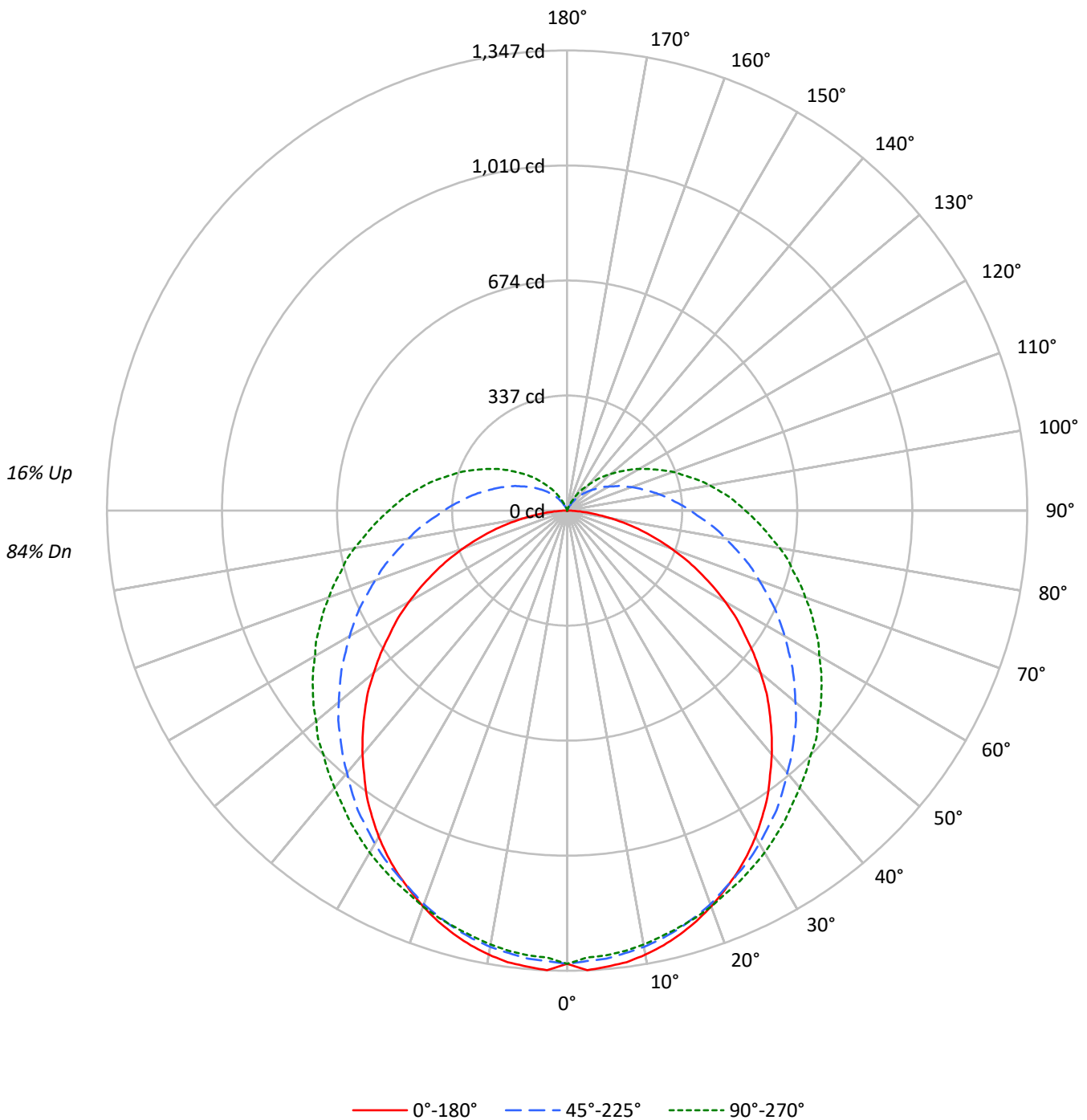
Input Watts (W): 43
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	21378	21378	21378
5°	21596	20007	19434
10°	21440	18776	17942
15°	21170	17645	16620
20°	20828	16584	15502
25°	20455	15567	14506
30°	20036	14701	13639
35°	19544	13877	12836
40°	18947	13032	12116
45°	18349	12322	11499
50°	17636	11643	10970
55°	16833	11025	10516
60°	16070	10411	10051
65°	14967	9877	9684
70°	13698	9320	9327
75°	12060	8879	9012
80°	9529	8445	8785
85°	6270	8134	8550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.6	2.3
10°-20°	359.3	6.4
20°-30°	546.1	9.8
30°-40°	668.3	12.0
40°-50°	721.6	12.9
50°-60°	708.4	12.7
60°-70°	638.0	11.5
70°-80°	528.3	9.5
80°-90°	406.3	7.3
90°-100°	306.3	5.5
100°-110°	225.4	4.0
110°-120°	155.5	2.8
120°-130°	98.6	1.8
130°-140°	54.6	1.0
140°-150°	23.6	0.4
150°-160°	5.9	0.1
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	1031.0	18.5
0°-40°	1699.3	30.5
0°-60°	3129.3	56.2
0°-90°	4701.9	84.4
90°-120°	687.2	12.3
90°-150°	864.0	15.5
90°-180°	870.0	15.6
0°-180°	5572.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1327	1327	1327	1327	1327	
5°	1340	1333	1317	1317	1307	127
15°	1283	1280	1266	1273	1263	362
25°	1173	1173	1176	1200	1196	540
35°	1023	1033	1069	1103	1109	638
45°	839	876	939	996	1009	647
55°	635	705	805	886	909	570
65°	428	525	668	769	799	424
75°	224	358	535	648	685	237
85°	50	221	414	538	575	57
90°	0	170	361	484	521	3
95°	3	134	314	434	474	1
105°	0	84	234	341	374	0
115°	0	54	170	257	284	0
125°	0	33	117	184	204	0
135°	0	20	74	120	134	0
145°	0	7	37	67	74	0
155°	0	3	10	20	23	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°	1326.7	1326.7	1326.7	1326.7	1326.7
2.5°	1346.7	1336.7	1320.0	1320.0	1309.9
5°	1340.0	1333.3	1316.6	1316.6	1306.6
7.5°	1333.3	1326.7	1306.6	1309.9	1299.9
10°	1320.0	1313.3	1296.6	1299.9	1289.9
12.5°	1303.3	1296.6	1283.2	1286.6	1276.5
15°	1283.2	1279.9	1266.5	1273.2	1263.2
17.5°	1259.8	1256.5	1246.5	1256.5	1249.8
20°	1233.1	1233.1	1226.4	1239.8	1233.1
22.5°	1203.0	1203.0	1199.7	1219.7	1213.0
25°	1172.9	1172.9	1176.3	1199.7	1196.3
27.5°	1139.5	1142.9	1152.9	1179.6	1176.3
30°	1102.8	1109.4	1126.1	1156.2	1156.2
32.5°	1062.7	1069.3	1096.1	1132.8	1132.8
35°	1022.6	1032.6	1069.3	1102.8	1109.4
37.5°	975.8	992.5	1035.9	1076.0	1082.7
40°	932.3	955.7	1002.5	1049.3	1059.3
42.5°	885.5	915.6	972.4	1025.9	1035.9
45°	838.8	875.5	939.0	995.8	1009.2
47.5°	792.0	832.1	908.9	969.1	989.1
50°	738.5	788.6	872.2	942.4	959.1
52.5°	688.4	745.2	838.8	912.3	935.7
55°	634.9	705.1	805.3	885.5	908.9
57.5°	588.1	658.3	768.6	858.8	882.2
60°	534.7	611.5	735.2	825.4	852.1
62.5°	481.2	571.4	701.8	798.7	828.7
65°	427.7	524.6	668.3	768.6	798.7
67.5°	377.6	481.2	631.6	738.5	771.9
70°	324.1	437.8	598.2	708.4	741.9
72.5°	274.0	397.7	568.1	678.4	715.1
75°	223.9	357.6	534.7	648.3	685.0
77.5°	177.1	320.8	501.3	621.6	661.7
80°	127.0	284.0	471.2	591.5	631.6
82.5°	86.9	250.6	444.4	564.7	601.5
85°	50.1	220.6	414.4	538.0	574.8
87.5°	20.1	193.8	384.3	507.9	548.0
90°	0.0	170.4	360.9	484.5	521.3
92.5°	0.0	150.4	337.5	457.8	497.9
95°	3.3	133.7	314.1	434.4	474.5
97.5°	0.0	117.0	294.1	411.0	447.8
100°	0.0	106.9	274.0	387.6	424.4
102.5°	0.0	93.6	254.0	364.2	401.0
105°	0.0	83.5	233.9	340.9	374.3
107.5°	0.0	76.9	217.2	320.8	350.9
110°	0.0	66.8	200.5	300.8	330.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	60.2	183.8	277.4	307.4
115°	0.0	53.5	170.4	257.3	284.0
117.5°	0.0	50.1	153.7	237.3	264.0
120°	0.0	43.4	140.4	220.6	243.9
122.5°	0.0	40.1	130.3	200.5	223.9
125°	0.0	33.4	117.0	183.8	203.8
127.5°	0.0	30.1	103.6	167.1	183.8
130°	0.0	26.7	93.6	150.4	167.1
132.5°	0.0	23.4	83.5	133.7	150.4
135°	0.0	20.1	73.5	120.3	133.7
137.5°	0.0	16.7	63.5	103.6	117.0
140°	0.0	13.4	53.5	90.2	100.3
142.5°	0.0	10.0	46.8	76.9	86.9
145°	0.0	6.7	36.8	66.8	73.5
147.5°	0.0	6.7	30.1	53.5	60.2
150°	0.0	3.3	20.1	43.4	46.8
152.5°	0.0	3.3	16.7	33.4	33.4
155°	0.0	3.3	10.0	20.1	23.4
157.5°	0.0	0.0	6.7	13.4	13.4
160°	0.0	0.0	3.3	6.7	10.0
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)