

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: P218349

Luminaire Tested: **4SNLED-LD5-54HL-LW-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218349
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-L840-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5152.0 lumens
Efficiency: N/A
Efficacy: 119.8 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

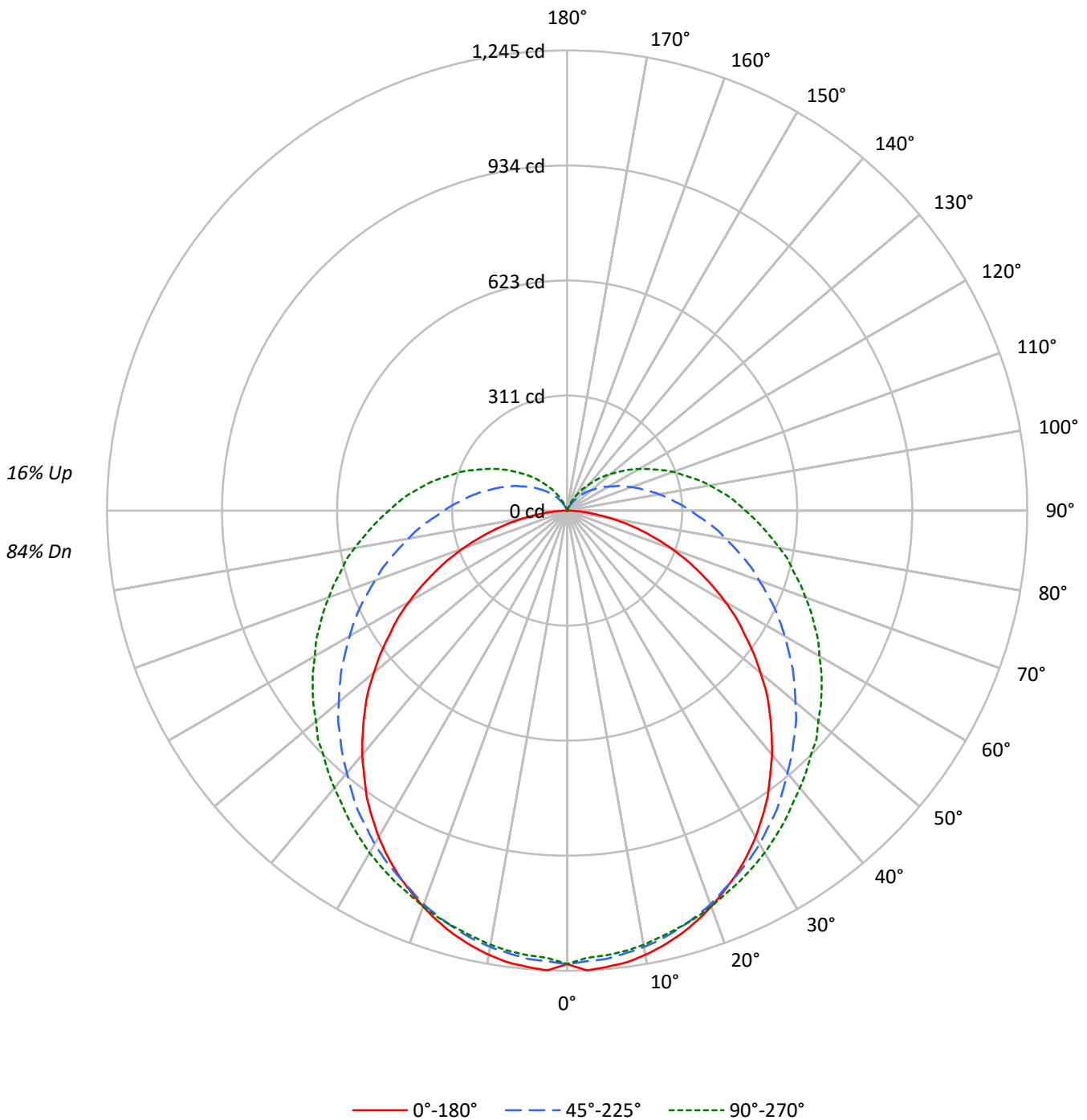
Input Watts (W): 43
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	19767	19767	19767
5°	19968	18499	17969
10°	19824	17360	16590
15°	19574	16315	15366
20°	19258	15334	14333
25°	18914	14393	13413
30°	18525	13594	12611
35°	18071	12831	11868
40°	17520	12049	11203
45°	16964	11393	10632
50°	16305	10765	10143
55°	15565	10194	9723
60°	14859	9626	9294
65°	13840	9134	8955
70°	12667	8618	8623
75°	11150	8210	8333
80°	8808	7809	8123
85°	5795	7519	7904



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.2	2.3
10°-20°	332.2	6.4
20°-30°	504.9	9.8
30°-40°	617.9	12.0
40°-50°	667.2	12.9
50°-60°	655.0	12.7
60°-70°	589.9	11.5
70°-80°	488.5	9.5
80°-90°	375.7	7.3
90°-100°	283.2	5.5
100°-110°	208.4	4.0
110°-120°	143.8	2.8
120°-130°	91.2	1.8
130°-140°	50.4	1.0
140°-150°	21.9	0.4
150°-160°	5.5	0.1
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	953.3	18.5
0°-40°	1571.2	30.5
0°-60°	2893.4	56.2
0°-90°	4347.5	84.4
90°-120°	635.4	12.3
90°-150°	798.9	15.5
90°-180°	804.0	15.6
0°-180°	5152.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1227	1227	1227	1227	1227	
5°	1239	1233	1217	1217	1208	118
15°	1186	1183	1171	1177	1168	335
25°	1084	1084	1088	1109	1106	499
35°	946	955	989	1020	1026	590
45°	776	810	868	921	933	598
55°	587	652	745	819	840	527
65°	396	485	618	711	738	392
75°	207	331	494	599	633	220
85°	46	204	383	498	531	53
90°	0	158	334	448	482	3
95°	3	124	290	402	439	1
105°	0	77	216	315	346	0
115°	0	49	158	238	263	0
125°	0	31	108	170	188	0
135°	0	18	68	111	124	0
145°	0	6	34	62	68	0
155°	0	3	9	18	22	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°	1226.7	1226.7	1226.7	1226.7	1226.7
2.5°	1245.2	1235.9	1220.5	1220.5	1211.2
5°	1239.0	1232.8	1217.4	1217.4	1208.1
7.5°	1232.8	1226.7	1208.1	1211.2	1201.9
10°	1220.5	1214.3	1198.8	1201.9	1192.7
12.5°	1205.0	1198.8	1186.5	1189.6	1180.3
15°	1186.5	1183.4	1171.0	1177.2	1167.9
17.5°	1164.9	1161.8	1152.5	1161.8	1155.6
20°	1140.1	1140.1	1134.0	1146.3	1140.1
22.5°	1112.3	1112.3	1109.2	1127.8	1121.6
25°	1084.5	1084.5	1087.6	1109.2	1106.2
27.5°	1053.6	1056.7	1066.0	1090.7	1087.6
30°	1019.6	1025.8	1041.3	1069.1	1069.1
32.5°	982.6	988.7	1013.5	1047.4	1047.4
35°	945.5	954.7	988.7	1019.6	1025.8
37.5°	902.2	917.7	957.8	994.9	1001.1
40°	862.1	883.7	926.9	970.2	979.5
42.5°	818.8	846.6	899.1	948.6	957.8
45°	775.5	809.5	868.2	920.8	933.1
47.5°	732.3	769.4	840.4	896.0	914.6
50°	682.8	729.2	806.4	871.3	886.8
52.5°	636.5	689.0	775.5	843.5	865.1
55°	587.1	651.9	744.6	818.8	840.4
57.5°	543.8	608.7	710.7	794.1	815.7
60°	494.4	565.4	679.8	763.2	787.9
62.5°	444.9	528.4	648.9	738.5	766.3
65°	395.5	485.1	618.0	710.7	738.5
67.5°	349.1	444.9	584.0	682.8	713.7
70°	299.7	404.8	553.1	655.0	685.9
72.5°	253.4	367.7	525.3	627.2	661.2
75°	207.0	330.6	494.4	599.4	633.4
77.5°	163.8	296.6	463.5	574.7	611.8
80°	117.4	262.6	435.7	546.9	584.0
82.5°	80.3	231.7	410.9	522.2	556.2
85°	46.3	203.9	383.1	497.5	531.4
87.5°	18.5	179.2	355.3	469.7	506.7
90°	0.0	157.6	333.7	448.0	482.0
92.5°	0.0	139.0	312.1	423.3	460.4
95°	3.1	123.6	290.4	401.7	438.8
97.5°	0.0	108.1	271.9	380.0	414.0
100°	0.0	98.9	253.4	358.4	392.4
102.5°	0.0	86.5	234.8	336.8	370.8
105°	0.0	77.2	216.3	315.2	346.1
107.5°	0.0	71.1	200.8	296.6	324.4
110°	0.0	61.8	185.4	278.1	305.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	55.6	169.9	256.5	284.3
115°	0.0	49.4	157.6	237.9	262.6
117.5°	0.0	46.3	142.1	219.4	244.1
120°	0.0	40.2	129.8	203.9	225.6
122.5°	0.0	37.1	120.5	185.4	207.0
125°	0.0	30.9	108.1	169.9	188.5
127.5°	0.0	27.8	95.8	154.5	169.9
130°	0.0	24.7	86.5	139.0	154.5
132.5°	0.0	21.6	77.2	123.6	139.0
135°	0.0	18.5	68.0	111.2	123.6
137.5°	0.0	15.4	58.7	95.8	108.1
140°	0.0	12.4	49.4	83.4	92.7
142.5°	0.0	9.3	43.3	71.1	80.3
145°	0.0	6.2	34.0	61.8	68.0
147.5°	0.0	6.2	27.8	49.4	55.6
150°	0.0	3.1	18.5	40.2	43.3
152.5°	0.0	3.1	15.4	30.9	30.9
155°	0.0	3.1	9.3	18.5	21.6
157.5°	0.0	0.0	6.2	12.4	12.4
160°	0.0	0.0	3.1	6.2	9.3
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)