

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: P218347

Luminaire Tested: **4SNLED-LD5-54HL-LW-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218347
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-L830-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4754.0 lumens
Efficiency: N/A
Efficacy: 110.6 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

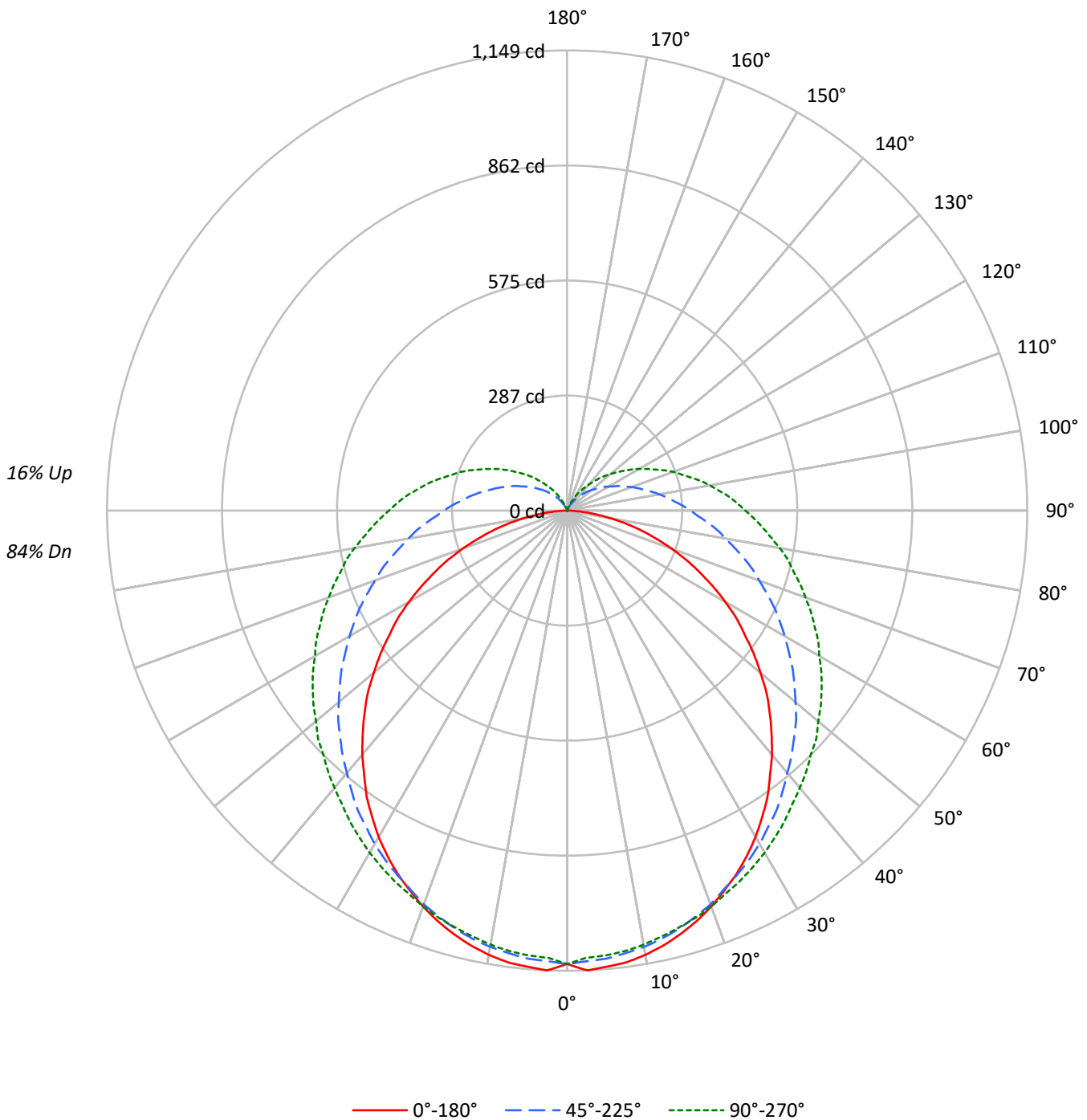
Input Watts (W): 43
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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°	18239	18239	18239
5°	18426	17070	16581
10°	18292	16019	15308
15°	18061	15055	14179
20°	17771	14150	13227
25°	17452	13281	12376
30°	17095	12543	11637
35°	16674	11841	10952
40°	16167	11119	10337
45°	15654	10513	9810
50°	15047	9933	9359
55°	14362	9407	8972
60°	13711	8881	8576
65°	12770	8428	8262
70°	11691	7951	7957
75°	10288	7576	7690
80°	8126	7205	7496
85°	5357	6938	7294



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	2.3
10°-20°	306.5	6.4
20°-30°	465.9	9.8
30°-40°	570.2	12.0
40°-50°	615.6	12.9
50°-60°	604.4	12.7
60°-70°	544.3	11.5
70°-80°	450.8	9.5
80°-90°	346.7	7.3
90°-100°	261.3	5.5
100°-110°	192.3	4.0
110°-120°	132.7	2.8
120°-130°	84.1	1.8
130°-140°	46.6	1.0
140°-150°	20.2	0.4
150°-160°	5.0	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	879.6	18.5
0°-40°	1449.9	30.5
0°-60°	2669.9	56.2
0°-90°	4011.6	84.4
90°-120°	586.3	12.3
90°-150°	737.2	15.5
90°-180°	742.0	15.6
0°-180°	4754.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1132	1132	1132	1132	1132	
5°	1143	1138	1123	1123	1115	109
15°	1095	1092	1081	1086	1078	309
25°	1001	1001	1004	1024	1021	461
35°	872	881	912	941	947	545
45°	716	747	801	850	861	552
55°	542	602	687	756	776	486
65°	365	448	570	656	681	362
75°	191	305	456	553	584	203
85°	43	188	354	459	490	49
90°	0	145	308	413	445	2
95°	3	114	268	371	405	1
105°	0	71	200	291	319	0
115°	0	46	145	220	242	0
125°	0	28	100	157	174	0
135°	0	17	63	103	114	0
145°	0	6	31	57	63	0
155°	0	3	9	17	20	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°	1131.9	1131.9	1131.9	1131.9	1131.9
2.5°	1149.0	1140.4	1126.2	1126.2	1117.6
5°	1143.3	1137.6	1123.3	1123.3	1114.8
7.5°	1137.6	1131.9	1114.8	1117.6	1109.1
10°	1126.2	1120.5	1106.2	1109.1	1100.5
12.5°	1111.9	1106.2	1094.8	1097.7	1089.1
15°	1094.8	1092.0	1080.6	1086.3	1077.7
17.5°	1074.9	1072.0	1063.5	1072.0	1066.3
20°	1052.1	1052.1	1046.4	1057.8	1052.1
22.5°	1026.4	1026.4	1023.5	1040.7	1035.0
25°	1000.7	1000.7	1003.6	1023.5	1020.7
27.5°	972.2	975.1	983.6	1006.4	1003.6
30°	940.9	946.6	960.8	986.5	986.5
32.5°	906.7	912.4	935.2	966.5	966.5
35°	872.4	881.0	912.4	940.9	946.6
37.5°	832.5	846.8	883.8	918.1	923.8
40°	795.5	815.4	855.3	895.2	903.8
42.5°	755.5	781.2	829.7	875.3	883.8
45°	715.6	747.0	801.2	849.6	861.0
47.5°	675.7	709.9	775.5	826.8	843.9
50°	630.1	672.9	744.1	804.0	818.3
52.5°	587.3	635.8	715.6	778.4	798.3
55°	541.7	601.6	687.1	755.5	775.5
57.5°	501.8	561.7	655.8	732.7	752.7
60°	456.2	521.8	627.2	704.2	727.0
62.5°	410.6	487.5	598.7	681.4	707.1
65°	364.9	447.6	570.2	655.8	681.4
67.5°	322.2	410.6	538.9	630.1	658.6
70°	276.6	373.5	510.3	604.4	632.9
72.5°	233.8	339.3	484.7	578.8	610.1
75°	191.0	305.1	456.2	553.1	584.5
77.5°	151.1	273.7	427.7	530.3	564.5
80°	108.3	242.3	402.0	504.6	538.9
82.5°	74.1	213.8	379.2	481.8	513.2
85°	42.8	188.2	353.5	459.0	490.4
87.5°	17.1	165.4	327.9	433.4	467.6
90°	0.0	145.4	307.9	413.4	444.8
92.5°	0.0	128.3	288.0	390.6	424.8
95°	2.9	114.0	268.0	370.6	404.9
97.5°	0.0	99.8	250.9	350.7	382.0
100°	0.0	91.2	233.8	330.7	362.1
102.5°	0.0	79.8	216.7	310.8	342.1
105°	0.0	71.3	199.6	290.8	319.3
107.5°	0.0	65.6	185.3	273.7	299.4
110°	0.0	57.0	171.1	256.6	282.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	51.3	156.8	236.6	262.3
115°	0.0	45.6	145.4	219.5	242.3
117.5°	0.0	42.8	131.2	202.4	225.2
120°	0.0	37.1	119.7	188.2	208.1
122.5°	0.0	34.2	111.2	171.1	191.0
125°	0.0	28.5	99.8	156.8	173.9
127.5°	0.0	25.7	88.4	142.6	156.8
130°	0.0	22.8	79.8	128.3	142.6
132.5°	0.0	20.0	71.3	114.0	128.3
135°	0.0	17.1	62.7	102.6	114.0
137.5°	0.0	14.3	54.2	88.4	99.8
140°	0.0	11.4	45.6	77.0	85.5
142.5°	0.0	8.6	39.9	65.6	74.1
145°	0.0	5.7	31.4	57.0	62.7
147.5°	0.0	5.7	25.7	45.6	51.3
150°	0.0	2.9	17.1	37.1	39.9
152.5°	0.0	2.9	14.3	28.5	28.5
155°	0.0	2.9	8.6	17.1	20.0
157.5°	0.0	0.0	5.7	11.4	11.4
160°	0.0	0.0	2.9	5.7	8.6
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)