

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: P218215

Luminaire Tested: **4SNLED-LD5-53SL-LN-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218215  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35686)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-53SL-LN-UNV-L830-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5073.0 lumens  
Efficiency: N/A  
Efficacy: 118.5 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.04 / 1.17  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.17')  
CIE Type: Direct

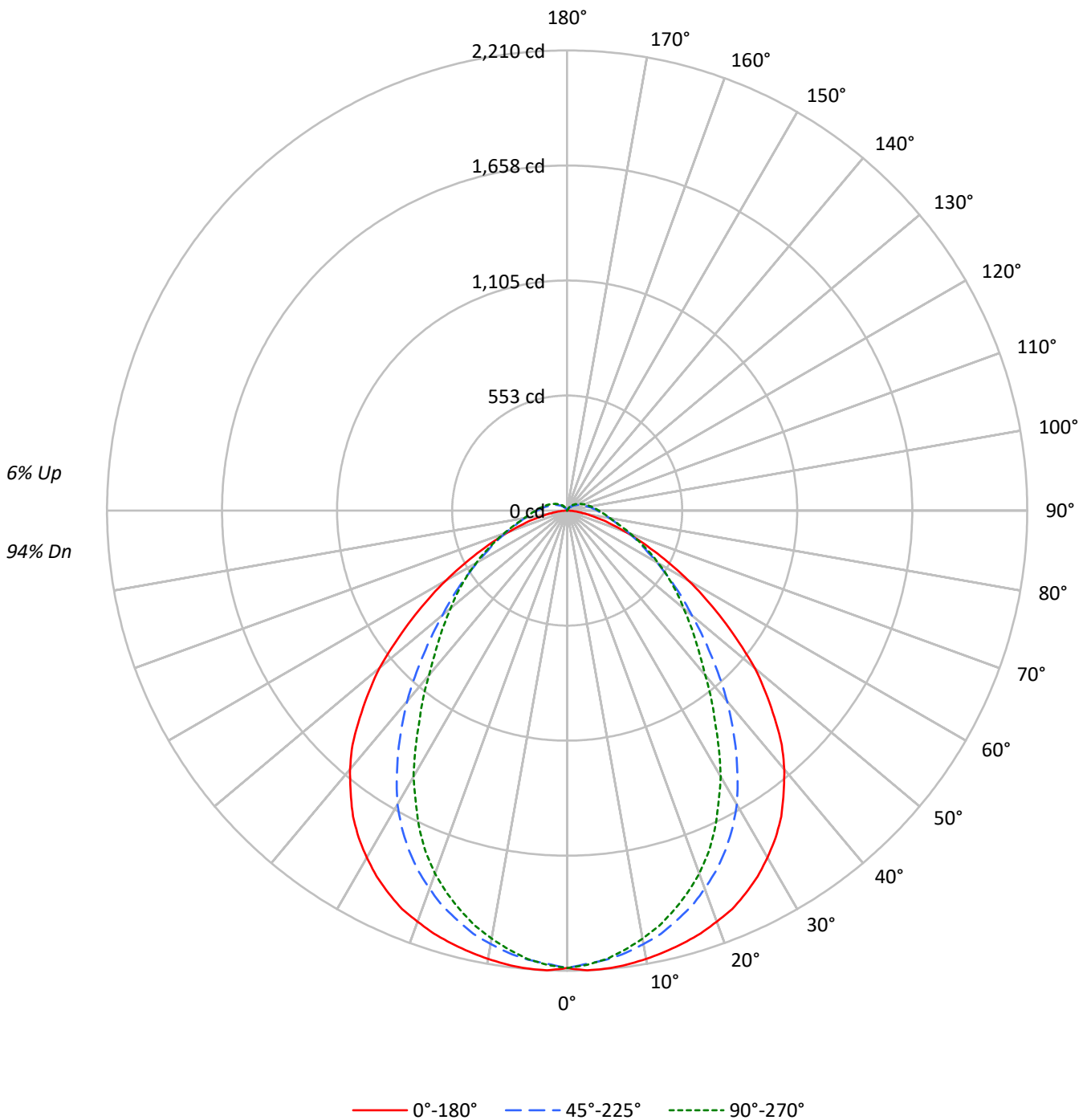
Input Watts (W): 42.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	108	103	99	95	105	100	97	93	95	92	89	90	88	86	86	84	82	80
2	99	91	85	79	96	89	83	78	84	79	75	80	76	73	77	73	70	68
3	91	81	73	67	88	79	72	66	75	69	64	72	67	63	69	64	61	59
4	84	73	64	58	81	71	63	57	68	61	56	65	59	55	62	57	53	51
5	77	65	57	51	75	64	56	50	61	54	49	59	53	48	56	51	47	45
6	72	59	51	45	70	58	50	44	56	49	44	54	47	43	52	46	42	40
7	67	54	46	40	65	53	45	40	51	44	39	49	43	38	47	42	38	36
8	63	50	42	36	61	49	41	36	47	40	35	45	39	35	44	38	34	32
9	59	46	38	33	57	45	38	33	43	37	32	42	36	32	41	35	31	29
10	55	42	35	30	54	42	35	30	40	34	29	39	33	29	38	32	29	27

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	35402	35402	35402
5°	35580	32898	32160
10°	35511	30615	29035
15°	35496	28374	26127
20°	35485	26131	23320
25°	35379	23805	20385
30°	34963	21284	17404
35°	34276	18349	14318
40°	32972	15531	11800
45°	30811	12766	9897
50°	28083	10418	8346
55°	24163	8599	7112
60°	20241	7039	5958
65°	16087	5847	4927
70°	12540	4914	4066
75°	9502	4171	3376
80°	6618	3688	2900
85°	4018	3358	2624



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.5	4.1
10°-20°	579.7	11.4
20°-30°	839.4	16.5
30°-40°	913.6	18.0
40°-50°	811.4	16.0
50°-60°	617.6	12.2
60°-70°	410.1	8.1
70°-80°	249.9	4.9
80°-90°	154.8	3.1
90°-100°	105.7	2.1
100°-110°	74.2	1.5
110°-120°	50.6	1.0
120°-130°	32.1	0.6
130°-140°	18.2	0.4
140°-150°	8.6	0.2
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1625.7	32.0
0°-40°	2539.3	50.1
0°-60°	3968.3	78.2
0°-90°	4783.0	94.3
90°-120°	230.5	4.5
90°-150°	289.4	5.7
90°-180°	290.0	5.7
0°-180°	5073.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2197	2197	2197	2197	2197	
5°	2208	2194	2165	2176	2162	210
15°	2152	2114	2037	2013	1986	608
25°	2029	1938	1799	1727	1681	934
35°	1793	1633	1414	1291	1238	1117
45°	1408	1197	973	890	869	1085
55°	911	740	628	617	615	818
65°	460	396	396	412	406	464
75°	176	200	251	265	257	191
85°	32	102	171	182	176	38
90°	0	75	144	158	152	2
95°	0	59	123	136	134	0
105°	0	37	88	102	102	0
115°	0	24	64	78	75	0
125°	0	16	43	54	54	0
135°	0	11	29	37	37	0
145°	0	5	16	21	21	0
155°	0	0	0	0	0	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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CATALOG NUMBER: 4SNLED-LD5-53SL-LN-UNV-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2197.0	2197.0	2197.0	2197.0	2197.0
2.5°	2210.4	2199.7	2178.3	2191.6	2183.6
5°	2207.7	2194.3	2164.9	2175.6	2162.2
7.5°	2199.7	2183.6	2143.5	2148.9	2127.5
10°	2186.3	2164.9	2114.1	2108.8	2087.4
12.5°	2170.3	2143.5	2082.1	2063.4	2042.0
15°	2151.6	2114.1	2036.6	2012.6	1985.8
17.5°	2130.2	2079.4	1991.2	1953.8	1924.4
20°	2100.8	2039.3	1932.4	1887.0	1854.9
22.5°	2071.4	1991.2	1870.9	1809.4	1774.7
25°	2028.6	1937.7	1798.8	1726.6	1681.2
27.5°	1980.5	1876.3	1718.6	1625.0	1574.2
30°	1924.4	1804.1	1630.4	1520.8	1475.4
32.5°	1862.9	1723.9	1523.5	1405.9	1355.1
35°	1793.4	1633.0	1413.9	1290.9	1237.5
37.5°	1707.9	1534.2	1304.3	1178.7	1135.9
40°	1622.4	1429.9	1194.7	1077.1	1031.7
42.5°	1526.1	1315.0	1082.5	975.6	943.5
45°	1408.5	1197.4	972.9	890.0	868.6
47.5°	1293.6	1077.1	874.0	815.2	796.5
50°	1176.0	959.5	780.4	743.0	729.7
52.5°	1039.7	844.6	702.9	678.9	673.5
55°	911.4	740.3	628.1	617.4	614.7
57.5°	788.5	641.5	558.6	566.6	561.3
60°	673.5	550.6	497.1	507.8	505.1
62.5°	561.3	467.7	441.0	462.4	457.0
65°	459.7	395.6	395.6	411.6	406.3
67.5°	371.5	336.8	352.8	368.8	363.5
70°	296.7	283.3	315.4	328.7	323.4
72.5°	229.9	237.9	278.0	294.0	286.0
75°	176.4	200.5	251.2	264.6	256.6
77.5°	125.6	168.4	227.2	237.9	229.9
80°	88.2	141.7	205.8	216.5	208.5
82.5°	56.1	120.3	187.1	197.8	192.4
85°	32.1	101.6	171.1	181.7	176.4
87.5°	16.0	88.2	155.0	168.4	163.0
90°	0.0	74.8	144.3	157.7	152.3
92.5°	0.0	66.8	133.6	147.0	141.7
95°	0.0	58.8	122.9	136.3	133.6
97.5°	0.0	53.5	114.9	128.3	122.9
100°	0.0	45.4	104.2	117.6	114.9
102.5°	0.0	42.8	96.2	109.6	106.9
105°	0.0	37.4	88.2	101.6	101.6
107.5°	0.0	34.7	82.9	96.2	93.5
110°	0.0	29.4	74.8	88.2	88.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	26.7	69.5	82.9	80.2
115°	0.0	24.1	64.1	77.5	74.8
117.5°	0.0	24.1	58.8	69.5	69.5
120°	0.0	21.4	53.5	64.1	64.1
122.5°	0.0	18.7	48.1	58.8	58.8
125°	0.0	16.0	42.8	53.5	53.5
127.5°	0.0	16.0	40.1	50.8	50.8
130°	0.0	13.4	34.7	45.4	45.4
132.5°	0.0	10.7	32.1	40.1	40.1
135°	0.0	10.7	29.4	37.4	37.4
137.5°	0.0	8.0	24.1	32.1	32.1
140°	0.0	8.0	21.4	29.4	29.4
142.5°	0.0	5.3	18.7	26.7	24.1
145°	0.0	5.3	16.0	21.4	21.4
147.5°	0.0	2.7	13.4	18.7	18.7
150°	0.0	2.7	10.7	16.0	13.4
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
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)