

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: P218217

Luminaire Tested: **4SNLED-LD5-53SL-LN-UNV-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218217  
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-L840-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5497.0 lumens  
Efficiency: N/A  
Efficacy: 128.4 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

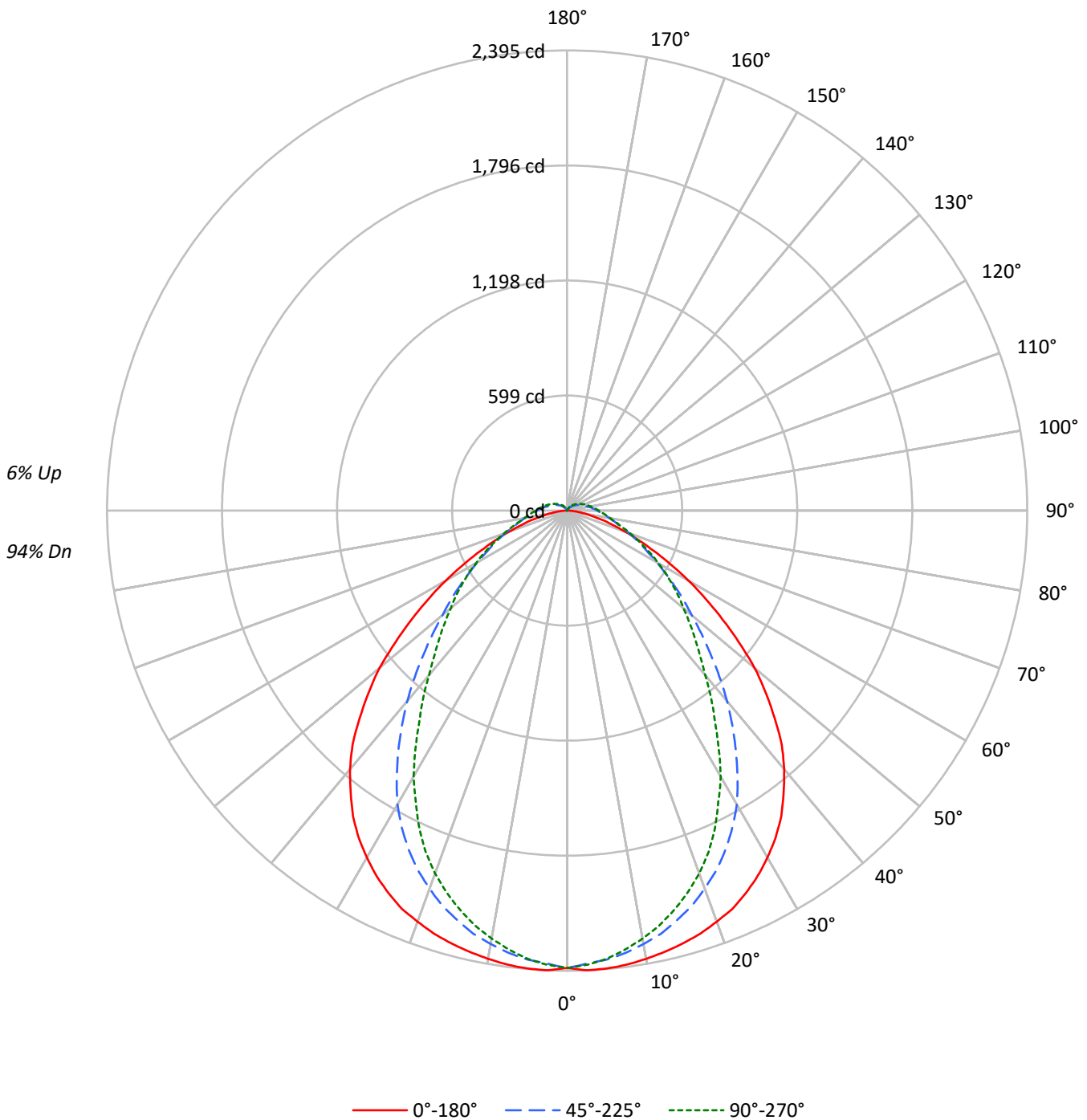
Input Watts (W): 42.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	38360	38360	38360
5°	38553	35648	34850
10°	38479	33174	31462
15°	38462	30745	28311
20°	38451	28314	25268
25°	38336	25794	22089
30°	37885	23062	18858
35°	37141	19883	15514
40°	35726	16829	12786
45°	33388	13833	10724
50°	30431	11290	9043
55°	26184	9318	7707
60°	21933	7628	6457
65°	17431	6335	5338
70°	13588	5324	4405
75°	10294	4520	3658
80°	7173	3997	3142
85°	4355	3639	2842



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.8	4.1
10°-20°	628.1	11.4
20°-30°	909.6	16.5
30°-40°	990.0	18.0
40°-50°	879.2	16.0
50°-60°	669.2	12.2
60°-70°	444.3	8.1
70°-80°	270.8	4.9
80°-90°	167.8	3.1
90°-100°	114.6	2.1
100°-110°	80.4	1.5
110°-120°	54.8	1.0
120°-130°	34.7	0.6
130°-140°	19.8	0.4
140°-150°	9.3	0.2
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1761.5	32.0
0°-40°	2751.5	50.1
0°-60°	4299.9	78.2
0°-90°	5182.8	94.3
90°-120°	249.8	4.5
90°-150°	313.6	5.7
90°-180°	314.0	5.7
0°-180°	5497.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2381	2381	2381	2381	2381	
5°	2392	2378	2346	2357	2343	228
15°	2331	2291	2207	2181	2152	659
25°	2198	2100	1949	1871	1822	1012
35°	1943	1770	1532	1399	1341	1211
45°	1526	1298	1054	964	941	1175
55°	988	802	681	669	666	886
65°	498	429	429	446	440	502
75°	191	217	272	287	278	207
85°	35	110	185	197	191	41
90°	0	81	156	171	165	2
95°	0	64	133	148	145	0
105°	0	40	96	110	110	0
115°	0	26	70	84	81	0
125°	0	17	46	58	58	0
135°	0	12	32	40	40	0
145°	0	6	17	23	23	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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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2380.6	2380.6	2380.6	2380.6	2380.6
2.5°	2395.1	2383.5	2360.3	2374.8	2366.1
5°	2392.2	2377.7	2345.9	2357.4	2343.0
7.5°	2383.5	2366.1	2322.7	2328.5	2305.3
10°	2369.0	2345.9	2290.8	2285.0	2261.9
12.5°	2351.7	2322.7	2256.1	2235.8	2212.6
15°	2331.4	2290.8	2206.8	2180.8	2151.8
17.5°	2308.2	2253.2	2157.6	2117.1	2085.2
20°	2276.4	2209.7	2093.9	2044.7	2009.9
22.5°	2244.5	2157.6	2027.3	1960.7	1923.0
25°	2198.2	2099.7	1949.1	1870.9	1821.7
27.5°	2146.0	2033.1	1862.2	1760.8	1705.8
30°	2085.2	1954.9	1766.6	1647.9	1598.7
32.5°	2018.6	1868.0	1650.8	1523.4	1468.3
35°	1943.3	1769.5	1532.1	1398.8	1340.9
37.5°	1850.6	1662.4	1413.3	1277.2	1230.9
40°	1757.9	1549.4	1294.6	1167.1	1117.9
42.5°	1653.7	1424.9	1172.9	1057.1	1022.3
45°	1526.3	1297.5	1054.2	964.4	941.2
47.5°	1401.7	1167.1	947.0	883.3	863.0
50°	1274.3	1039.7	845.7	805.1	790.6
52.5°	1126.6	915.2	761.7	735.6	729.8
55°	987.6	802.2	680.6	669.0	666.1
57.5°	854.4	695.1	605.3	614.0	608.2
60°	729.8	596.6	538.7	550.3	547.4
62.5°	608.2	506.8	477.9	501.0	495.2
65°	498.1	428.6	428.6	446.0	440.2
67.5°	402.6	364.9	382.3	399.7	393.9
70°	321.5	307.0	341.7	356.2	350.4
72.5°	249.1	257.8	301.2	318.6	309.9
75°	191.1	217.2	272.2	286.7	278.0
77.5°	136.1	182.5	246.2	257.8	249.1
80°	95.6	153.5	223.0	234.6	225.9
82.5°	60.8	130.3	202.7	214.3	208.5
85°	34.8	110.1	185.4	196.9	191.1
87.5°	17.4	95.6	168.0	182.5	176.7
90°	0.0	81.1	156.4	170.9	165.1
92.5°	0.0	72.4	144.8	159.3	153.5
95°	0.0	63.7	133.2	147.7	144.8
97.5°	0.0	57.9	124.5	139.0	133.2
100°	0.0	49.2	112.9	127.4	124.5
102.5°	0.0	46.3	104.3	118.7	115.8
105°	0.0	40.5	95.6	110.1	110.1
107.5°	0.0	37.6	89.8	104.3	101.4
110°	0.0	31.9	81.1	95.6	95.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	29.0	75.3	89.8	86.9
115°	0.0	26.1	69.5	84.0	81.1
117.5°	0.0	26.1	63.7	75.3	75.3
120°	0.0	23.2	57.9	69.5	69.5
122.5°	0.0	20.3	52.1	63.7	63.7
125°	0.0	17.4	46.3	57.9	57.9
127.5°	0.0	17.4	43.4	55.0	55.0
130°	0.0	14.5	37.6	49.2	49.2
132.5°	0.0	11.6	34.8	43.4	43.4
135°	0.0	11.6	31.9	40.5	40.5
137.5°	0.0	8.7	26.1	34.8	34.8
140°	0.0	8.7	23.2	31.9	31.9
142.5°	0.0	5.8	20.3	29.0	26.1
145°	0.0	5.8	17.4	23.2	23.2
147.5°	0.0	2.9	14.5	20.3	20.3
150°	0.0	2.9	11.6	17.4	14.5
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)