

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: P218210

Luminaire Tested: **4SNLED-LD5-49SL-LN-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218210
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-LD5-49SL-LN-UNV-L850-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5504.1 lumens
Efficiency: N/A
Efficacy: 142.2 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

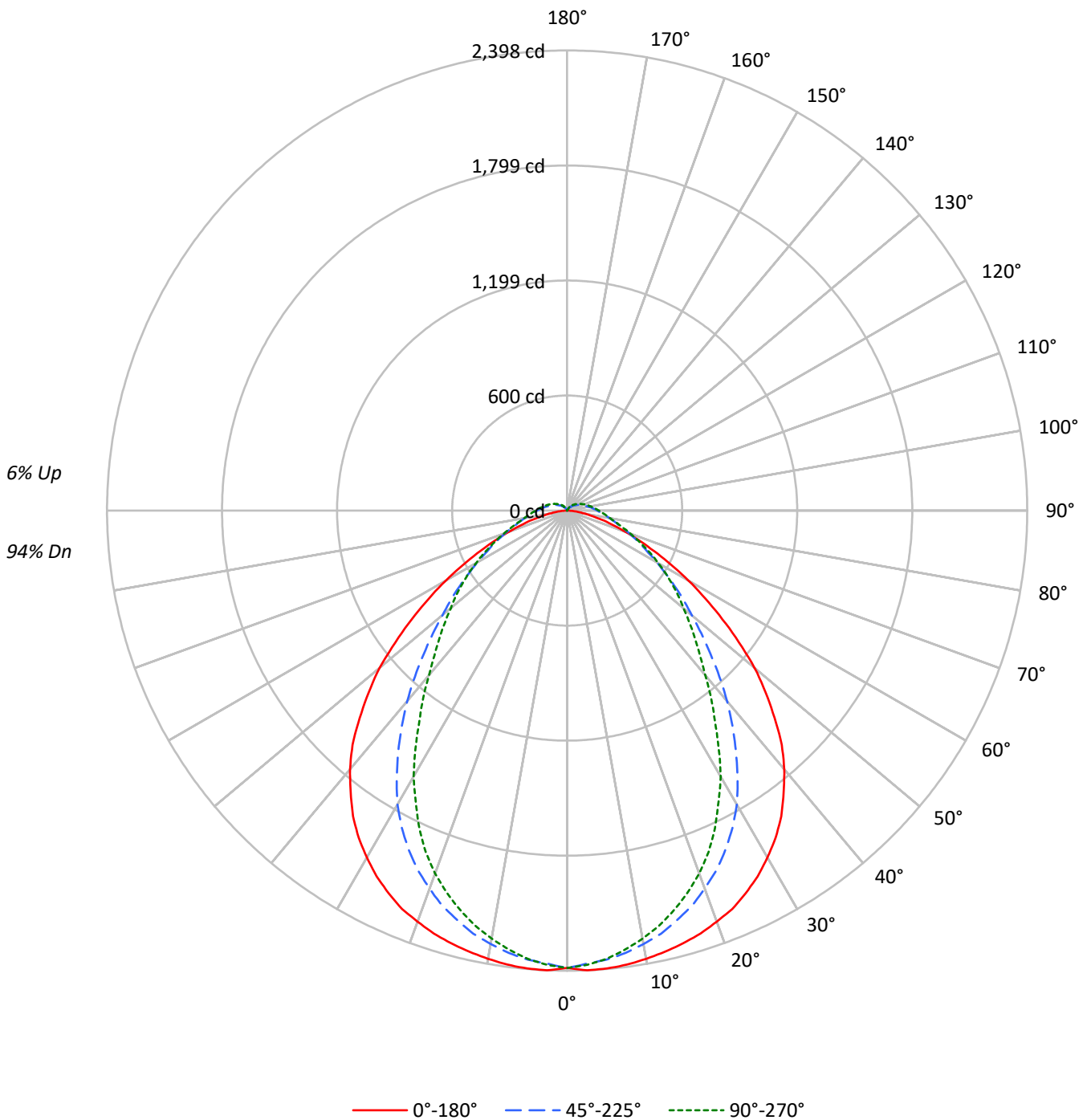
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	38408	38408	38408
5°	38602	35694	34894
10°	38528	33217	31502
15°	38512	30786	28348
20°	38500	28351	25301
25°	38385	25827	22117
30°	37934	23092	18882
35°	37189	19907	15534
40°	35772	16850	12802
45°	33429	13850	10738
50°	30469	11303	9054
55°	26216	9330	7717
60°	21963	7638	6465
65°	17455	6344	5345
70°	13605	5332	4412
75°	10310	4527	3663
80°	7180	4002	3146
85°	4355	3643	2847



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.1	4.1
10°-20°	628.9	11.4
20°-30°	910.8	16.5
30°-40°	991.2	18.0
40°-50°	880.3	16.0
50°-60°	670.1	12.2
60°-70°	444.9	8.1
70°-80°	271.1	4.9
80°-90°	168.0	3.1
90°-100°	114.7	2.1
100°-110°	80.5	1.5
110°-120°	54.8	1.0
120°-130°	34.8	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°	1763.8	32.0
0°-40°	2755.0	50.1
0°-60°	4305.4	78.2
0°-90°	5189.5	94.3
90°-120°	250.1	4.5
90°-150°	314.0	5.7
90°-180°	315.0	5.7
0°-180°	5504.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2384	2384	2384	2384	2384	
5°	2395	2381	2349	2360	2346	228
15°	2334	2294	2210	2184	2155	660
25°	2201	2102	1952	1873	1824	1013
35°	1946	1772	1534	1401	1343	1212
45°	1528	1299	1056	966	942	1177
55°	989	803	682	670	667	887
65°	499	429	429	447	441	503
75°	191	218	273	287	278	207
85°	35	110	186	197	191	41
90°	0	81	157	171	165	2
95°	0	64	133	148	145	0
105°	0	41	96	110	110	0
115°	0	26	70	84	81	0
125°	0	17	46	58	58	0
135°	0	12	32	41	41	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°	2383.6	2383.6	2383.6	2383.6	2383.6
2.5°	2398.1	2386.5	2363.4	2377.8	2369.1
5°	2395.2	2380.7	2348.9	2360.5	2346.0
7.5°	2386.5	2369.1	2325.7	2331.5	2308.3
10°	2372.0	2348.9	2293.8	2288.0	2264.8
12.5°	2354.7	2325.7	2259.0	2238.7	2215.5
15°	2334.4	2293.8	2209.7	2183.6	2154.6
17.5°	2311.2	2256.1	2160.4	2119.8	2087.9
20°	2279.3	2212.6	2096.6	2047.3	2012.5
22.5°	2247.4	2160.4	2029.9	1963.2	1925.5
25°	2201.0	2102.4	1951.6	1873.3	1824.0
27.5°	2148.8	2035.7	1864.6	1763.1	1708.0
30°	2087.9	1957.4	1768.9	1650.0	1600.7
32.5°	2021.2	1870.4	1652.9	1525.3	1470.2
35°	1945.8	1771.8	1534.0	1400.6	1342.6
37.5°	1853.0	1664.5	1415.1	1278.8	1232.4
40°	1760.2	1551.4	1296.2	1168.6	1119.3
42.5°	1655.8	1426.7	1174.4	1058.4	1023.6
45°	1528.2	1299.1	1055.5	965.6	942.4
47.5°	1403.5	1168.6	948.2	884.4	864.1
50°	1275.9	1041.0	846.7	806.1	791.6
52.5°	1128.0	916.3	762.7	736.6	730.8
55°	988.8	803.2	681.5	669.9	667.0
57.5°	855.4	696.0	606.1	614.8	609.0
60°	730.8	597.4	539.4	551.0	548.1
62.5°	609.0	507.5	478.5	501.7	495.9
65°	498.8	429.2	429.2	446.6	440.8
67.5°	403.1	365.4	382.8	400.2	394.4
70°	321.9	307.4	342.2	356.7	350.9
72.5°	249.4	258.1	301.6	319.0	310.3
75°	191.4	217.5	272.6	287.1	278.4
77.5°	136.3	182.7	246.5	258.1	249.4
80°	95.7	153.7	223.3	234.9	226.2
82.5°	60.9	130.5	203.0	214.6	208.8
85°	34.8	110.2	185.6	197.2	191.4
87.5°	17.4	95.7	168.2	182.7	176.9
90°	0.0	81.2	156.6	171.1	165.3
92.5°	0.0	72.5	145.0	159.5	153.7
95°	0.0	63.8	133.4	147.9	145.0
97.5°	0.0	58.0	124.7	139.2	133.4
100°	0.0	49.3	113.1	127.6	124.7
102.5°	0.0	46.4	104.4	118.9	116.0
105°	0.0	40.6	95.7	110.2	110.2
107.5°	0.0	37.7	89.9	104.4	101.5
110°	0.0	31.9	81.2	95.7	95.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	29.0	75.4	89.9	87.0
115°	0.0	26.1	69.6	84.1	81.2
117.5°	0.0	26.1	63.8	75.4	75.4
120°	0.0	23.2	58.0	69.6	69.6
122.5°	0.0	20.3	52.2	63.8	63.8
125°	0.0	17.4	46.4	58.0	58.0
127.5°	0.0	17.4	43.5	55.1	55.1
130°	0.0	14.5	37.7	49.3	49.3
132.5°	0.0	11.6	34.8	43.5	43.5
135°	0.0	11.6	31.9	40.6	40.6
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)