

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: P218082

Luminaire Tested: **4SNLED-LD5-41SL-LC-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218082  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35685)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-41SL-LC-UNV-L850-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4701.0 lumens  
Efficiency: N/A  
Efficacy: 153.6 lumens/watt  
Spacing Criteria (0/90/45): 1.59 / 1.17 / 1.18  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.17')  
CIE Type: Direct

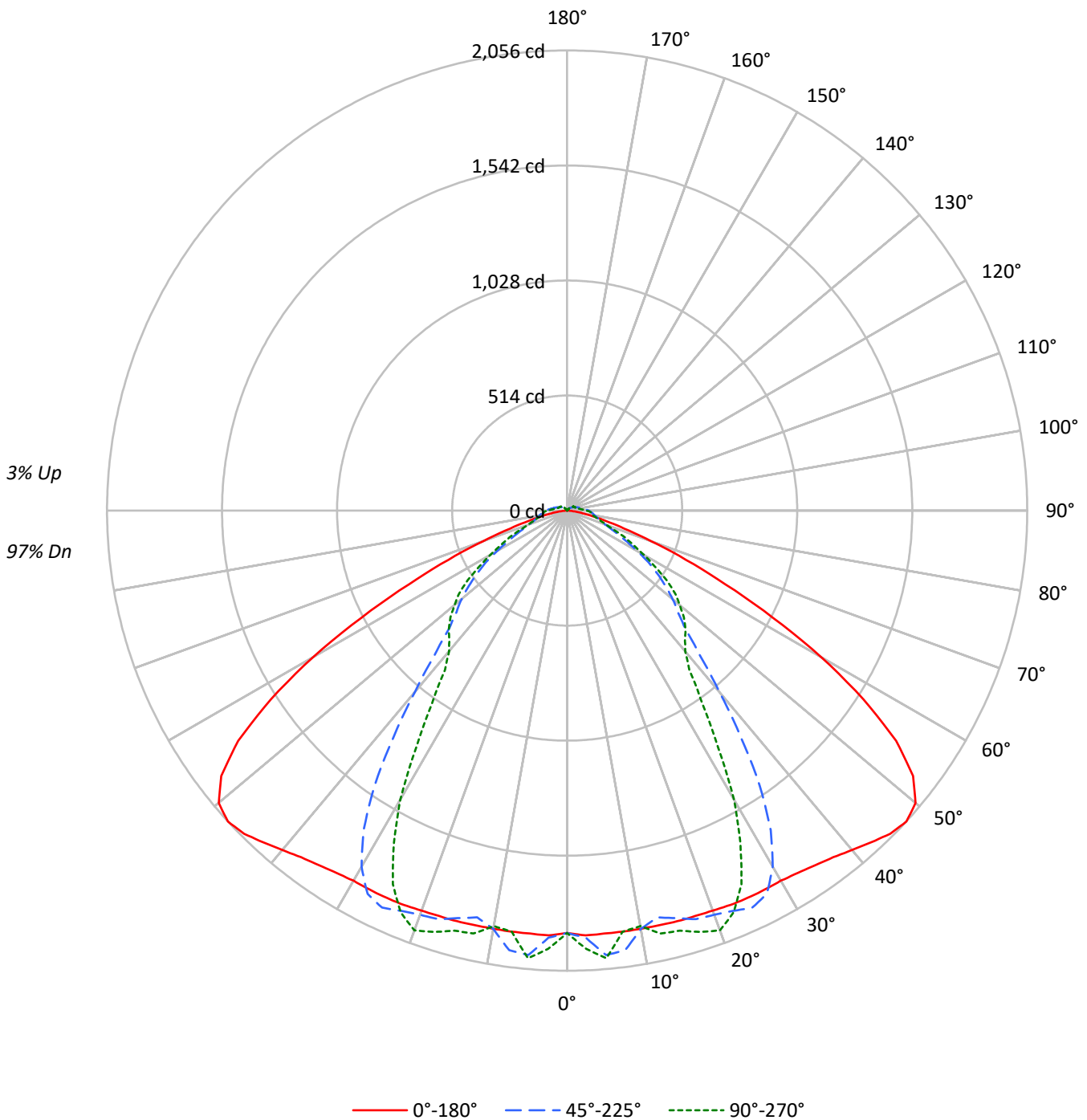
Input Watts (W): 30.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97	
1	109	105	101	98	106	102	99	96	97	95	92	93	91	89	89	87	85	89	87	85	83	
2	100	93	87	82	98	91	85	81	87	82	78	83	79	76	80	77	74	80	77	74	72	
3	93	83	76	70	90	81	75	69	78	72	67	75	70	66	72	68	64	72	68	64	62	
4	85	75	67	60	83	73	66	60	70	64	59	68	62	58	65	60	56	65	60	56	54	
5	79	67	59	53	77	66	58	53	64	57	52	61	55	51	59	54	50	59	54	50	48	
6	73	61	53	47	71	60	52	47	58	51	46	56	50	45	54	49	45	54	49	45	43	
7	68	56	48	42	66	55	47	42	53	46	41	51	45	41	50	44	40	50	44	40	38	
8	64	51	43	38	62	50	43	37	49	42	37	47	41	37	46	40	36	46	40	36	34	
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	43	37	33	31	
10	56	44	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	40	34	30	28	

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

	0°	45°	90°
0°	30418	30418	30418
5°	30578	30293	29865
10°	30817	27475	26224
15°	31340	26266	25564
20°	32129	25982	25092
25°	33300	25905	22335
30°	34691	23984	17587
35°	36952	19474	12187
40°	40221	13755	9379
45°	44660	9782	8522
50°	48525	8218	7509
55°	47561	6749	6260
60°	39461	5108	4681
65°	27265	3696	3441
70°	16974	2811	2359
75°	9588	2396	1867
80°	5410	2240	1605
85°	2403	2171	1609



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.5	3.9
10°-20°	546.5	11.6
20°-30°	868.4	18.5
30°-40°	936.3	19.9
40°-50°	807.0	17.2
50°-60°	611.0	13.0
60°-70°	330.1	7.0
70°-80°	156.8	3.3
80°-90°	98.4	2.1
90°-100°	62.6	1.3
100°-110°	40.1	0.9
110°-120°	26.8	0.6
120°-130°	17.7	0.4
130°-140°	8.6	0.2
140°-150°	3.7	0.1
150°-160°	1.3	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1600.4	34.0
0°-40°	2536.8	54.0
0°-60°	3954.7	84.1
0°-90°	4540.0	96.6
90°-120°	129.6	2.8
90°-150°	159.6	3.4
90°-180°	161.0	3.4
0°-180°	4701.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1888	1888	1888	1888	1888	
5°	1897	1938	1994	2020	2008	181
15°	1900	1950	1885	1950	1943	538
25°	1909	1873	1958	1904	1842	883
35°	1933	1861	1501	1147	1053	1218
45°	2042	1279	746	738	748	1572
55°	1794	553	493	539	541	1560
65°	779	236	250	281	284	800
75°	178	123	144	144	142	210
85°	19	74	111	111	108	28
90°	0	58	96	94	87	1
95°	0	46	77	70	65	0
105°	0	29	53	48	43	0
115°	0	17	36	36	36	0
125°	0	10	24	31	29	0
135°	0	5	14	17	17	0
145°	0	2	7	10	7	0
155°	0	2	2	5	2	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°	1887.7	1887.7	1887.7	1887.7	1887.7
2.5°	1899.7	1902.1	1909.4	1945.4	1959.9
5°	1897.3	1938.2	1993.5	2020.0	2007.9
7.5°	1897.3	1981.5	1981.5	1931.0	1897.3
10°	1897.3	2005.5	1897.3	1887.7	1885.3
12.5°	1897.3	1991.1	1861.3	1928.6	1935.8
15°	1899.7	1950.2	1885.3	1950.2	1943.0
17.5°	1899.7	1902.1	1914.2	1964.7	1974.3
20°	1902.1	1870.9	1921.4	2003.1	1995.9
22.5°	1907.0	1866.1	1935.8	1986.3	1943.0
25°	1909.4	1873.3	1957.5	1904.5	1842.0
27.5°	1909.4	1882.9	1931.0	1779.5	1676.1
30°	1909.4	1887.7	1837.2	1606.4	1490.9
32.5°	1919.0	1882.9	1692.9	1380.3	1255.3
35°	1933.4	1861.3	1500.6	1147.1	1053.3
37.5°	1952.6	1803.5	1274.5	959.5	897.0
40°	1979.1	1678.5	1058.1	839.3	820.0
42.5°	2010.4	1495.7	880.1	779.1	779.1
45°	2041.6	1279.3	745.5	738.3	747.9
47.5°	2056.0	1067.7	670.9	697.4	707.0
50°	2032.0	870.5	615.6	651.7	656.5
52.5°	1947.8	695.0	553.1	596.4	608.4
55°	1793.9	553.1	493.0	538.7	541.1
57.5°	1570.3	440.1	430.4	466.5	464.1
60°	1313.0	355.9	360.7	396.8	396.8
62.5°	1036.4	288.6	303.0	334.3	331.9
65°	779.1	235.7	250.1	281.4	283.8
67.5°	574.7	194.8	211.6	233.3	228.4
70°	401.6	163.5	180.4	192.4	187.6
72.5°	266.9	139.5	158.7	163.5	161.1
75°	178.0	122.6	144.3	144.3	141.9
77.5°	115.4	108.2	134.7	132.3	127.5
80°	72.1	96.2	125.0	120.2	115.4
82.5°	43.3	84.2	117.8	113.0	108.2
85°	19.2	74.5	110.6	110.6	108.2
87.5°	7.2	67.3	103.4	105.8	101.0
90°	0.0	57.7	96.2	93.8	86.6
92.5°	0.0	52.9	86.6	79.4	74.5
95°	0.0	45.7	77.0	69.7	64.9
97.5°	0.0	40.9	69.7	62.5	57.7
100°	0.0	36.1	62.5	55.3	50.5
102.5°	0.0	31.3	57.7	50.5	48.1
105°	0.0	28.9	52.9	48.1	43.3
107.5°	0.0	26.5	48.1	43.3	40.9
110°	0.0	21.6	43.3	40.9	38.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	19.2	38.5	38.5	38.5
115°	0.0	16.8	36.1	36.1	36.1
117.5°	0.0	14.4	31.3	36.1	36.1
120°	0.0	14.4	28.9	33.7	33.7
122.5°	0.0	12.0	26.5	33.7	33.7
125°	0.0	9.6	24.0	31.3	28.9
127.5°	0.0	7.2	21.6	26.5	26.5
130°	0.0	7.2	19.2	24.0	21.6
132.5°	0.0	4.8	16.8	19.2	19.2
135°	0.0	4.8	14.4	16.8	16.8
137.5°	0.0	4.8	12.0	14.4	12.0
140°	0.0	2.4	9.6	12.0	9.6
142.5°	0.0	2.4	9.6	12.0	9.6
145°	0.0	2.4	7.2	9.6	7.2
147.5°	0.0	2.4	4.8	7.2	7.2
150°	0.0	2.4	4.8	7.2	4.8
152.5°	0.0	2.4	4.8	4.8	2.4
155°	0.0	2.4	2.4	4.8	2.4
157.5°	0.0	2.4	2.4	2.4	2.4
160°	2.4	2.4	2.4	2.4	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)