

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: P218091

Luminaire Tested: **4SNLED-LD5-52HL-LC-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218091
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-LD5-52HL-LC-UNV-L830-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4909.0 lumens
Efficiency: N/A
Efficacy: 132.7 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

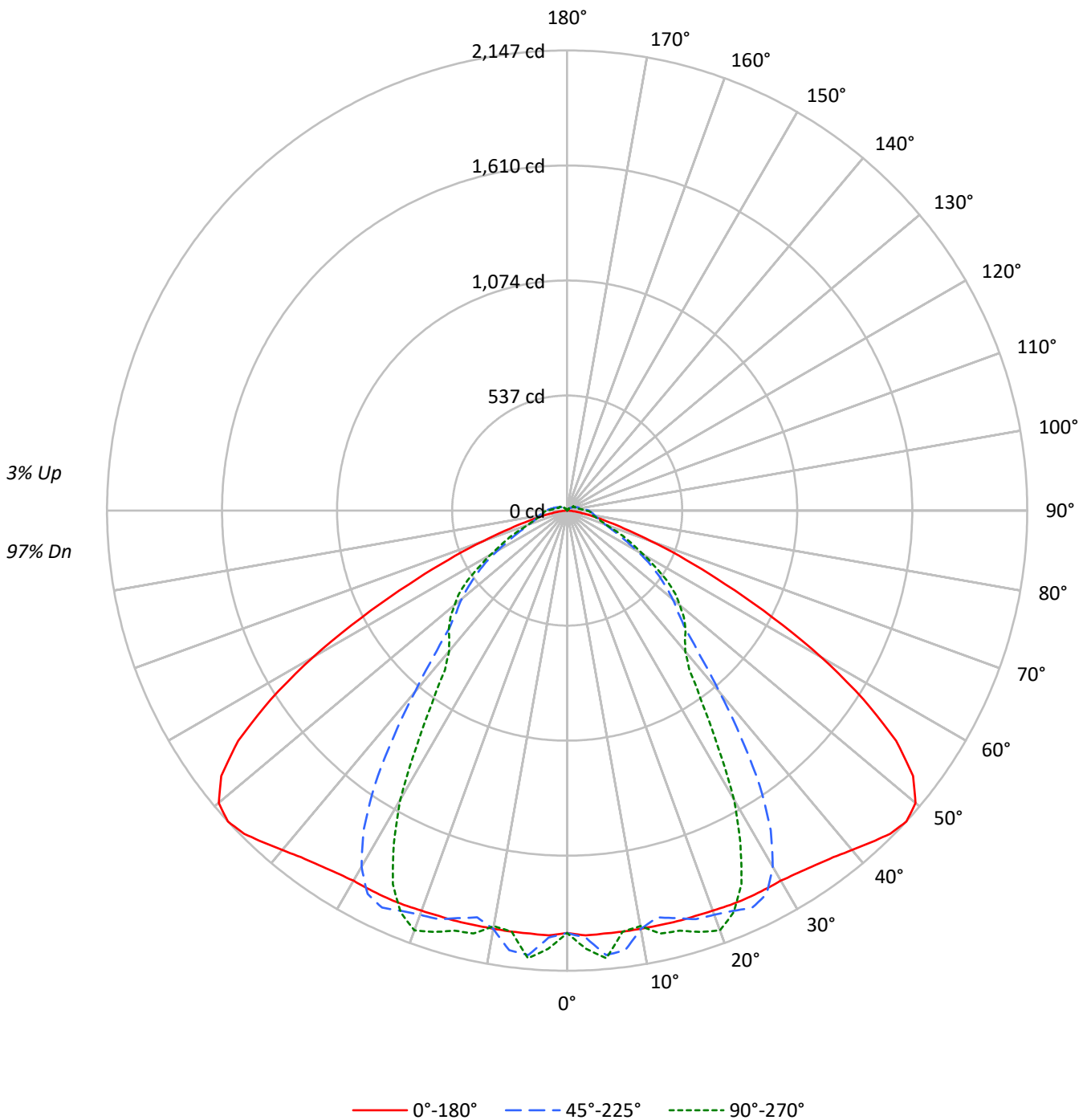
Input Watts (W): 37
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31763	31763	31763
5°	31931	31633	31188
10°	32182	28692	27384
15°	32728	27428	26695
20°	33551	27131	26202
25°	34772	27051	23323
30°	36224	25045	18365
35°	38586	20334	12726
40°	42001	14363	9794
45°	46635	10216	8899
50°	50671	8581	7840
55°	49666	7048	6537
60°	41207	5334	4887
65°	28472	3861	3593
70°	17726	2934	2463
75°	10008	2503	1950
80°	5650	2341	1676
85°	2516	2267	1681



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.8	3.9
10°-20°	570.7	11.6
20°-30°	906.8	18.5
30°-40°	977.7	19.9
40°-50°	842.7	17.2
50°-60°	638.0	13.0
60°-70°	344.7	7.0
70°-80°	163.7	3.3
80°-90°	102.8	2.1
90°-100°	65.4	1.3
100°-110°	41.8	0.9
110°-120°	28.0	0.6
120°-130°	18.5	0.4
130°-140°	9.1	0.2
140°-150°	3.8	0.1
150°-160°	1.4	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1671.2	34.0
0°-40°	2649.0	54.0
0°-60°	4129.7	84.1
0°-90°	4740.8	96.6
90°-120°	135.3	2.8
90°-150°	166.7	3.4
90°-180°	168.0	3.4
0°-180°	4909.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1971	1971	1971	1971	1971	
5°	1981	2024	2082	2109	2097	189
15°	1984	2036	1969	2036	2029	562
25°	1994	1956	2044	1989	1924	922
35°	2019	1944	1567	1198	1100	1272
45°	2132	1336	778	771	781	1641
55°	1873	578	515	562	565	1629
65°	814	246	261	294	296	836
75°	186	128	151	151	148	219
85°	20	78	116	116	113	29
90°	0	60	100	98	90	1
95°	0	48	80	73	68	0
105°	0	30	55	50	45	0
115°	0	18	38	38	38	0
125°	0	10	25	33	30	0
135°	0	5	15	18	18	0
145°	0	2	8	10	8	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°	1971.2	1971.2	1971.2	1971.2	1971.2
2.5°	1983.8	1986.3	1993.8	2031.5	2046.6
5°	1981.3	2024.0	2081.7	2109.3	2096.8
7.5°	1981.3	2069.2	2069.2	2016.4	1981.3
10°	1981.3	2094.3	1981.3	1971.2	1968.7
12.5°	1981.3	2079.2	1943.6	2013.9	2021.5
15°	1983.8	2036.5	1968.7	2036.5	2029.0
17.5°	1983.8	1986.3	1998.9	2051.6	2061.6
20°	1986.3	1953.7	2006.4	2091.8	2084.2
22.5°	1991.3	1948.6	2021.5	2074.2	2029.0
25°	1993.8	1956.2	2044.1	1988.8	1923.5
27.5°	1993.8	1966.2	2016.4	1858.2	1750.3
30°	1993.8	1971.2	1918.5	1677.4	1556.9
32.5°	2003.9	1966.2	1767.8	1441.4	1310.8
35°	2018.9	1943.6	1566.9	1197.8	1099.9
37.5°	2039.0	1883.3	1330.9	1001.9	936.7
40°	2066.7	1752.8	1104.9	876.4	856.3
42.5°	2099.3	1561.9	919.1	813.6	813.6
45°	2131.9	1335.9	778.5	770.9	781.0
47.5°	2147.0	1114.9	700.6	728.2	738.3
50°	2121.9	909.0	642.8	680.5	685.5
52.5°	2034.0	725.7	577.6	622.8	635.3
55°	1873.3	577.6	514.8	562.5	565.0
57.5°	1639.8	459.5	449.5	487.2	484.6
60°	1371.1	371.6	376.7	414.3	414.3
62.5°	1082.3	301.3	316.4	349.0	346.5
65°	813.6	246.1	261.2	293.8	296.3
67.5°	600.2	203.4	221.0	243.6	238.6
70°	419.4	170.8	188.3	200.9	195.9
72.5°	278.7	145.6	165.7	170.8	168.2
75°	185.8	128.1	150.7	150.7	148.2
77.5°	120.5	113.0	140.6	138.1	133.1
80°	75.3	100.4	130.6	125.6	120.5
82.5°	45.2	87.9	123.0	118.0	113.0
85°	20.1	77.8	115.5	115.5	113.0
87.5°	7.5	70.3	108.0	110.5	105.5
90°	0.0	60.3	100.4	97.9	90.4
92.5°	0.0	55.2	90.4	82.9	77.8
95°	0.0	47.7	80.4	72.8	67.8
97.5°	0.0	42.7	72.8	65.3	60.3
100°	0.0	37.7	65.3	57.8	52.7
102.5°	0.0	32.6	60.3	52.7	50.2
105°	0.0	30.1	55.2	50.2	45.2
107.5°	0.0	27.6	50.2	45.2	42.7
110°	0.0	22.6	45.2	42.7	40.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	20.1	40.2	40.2	40.2
115°	0.0	17.6	37.7	37.7	37.7
117.5°	0.0	15.1	32.6	37.7	37.7
120°	0.0	15.1	30.1	35.2	35.2
122.5°	0.0	12.6	27.6	35.2	35.2
125°	0.0	10.0	25.1	32.6	30.1
127.5°	0.0	7.5	22.6	27.6	27.6
130°	0.0	7.5	20.1	25.1	22.6
132.5°	0.0	5.0	17.6	20.1	20.1
135°	0.0	5.0	15.1	17.6	17.6
137.5°	0.0	5.0	12.6	15.1	12.6
140°	0.0	2.5	10.0	12.6	10.0
142.5°	0.0	2.5	10.0	12.6	10.0
145°	0.0	2.5	7.5	10.0	7.5
147.5°	0.0	2.5	5.0	7.5	7.5
150°	0.0	2.5	5.0	7.5	5.0
152.5°	0.0	2.5	5.0	5.0	2.5
155°	0.0	2.5	2.5	5.0	2.5
157.5°	0.0	2.5	2.5	2.5	2.5
160°	2.5	2.5	2.5	2.5	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)