

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: P218219

Luminaire Tested: **4SNLED-LD5-54HL-LN-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218219
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-LD5-54HL-LN-UNV-L830-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5089.0 lumens
Efficiency: N/A
Efficacy: 127.2 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

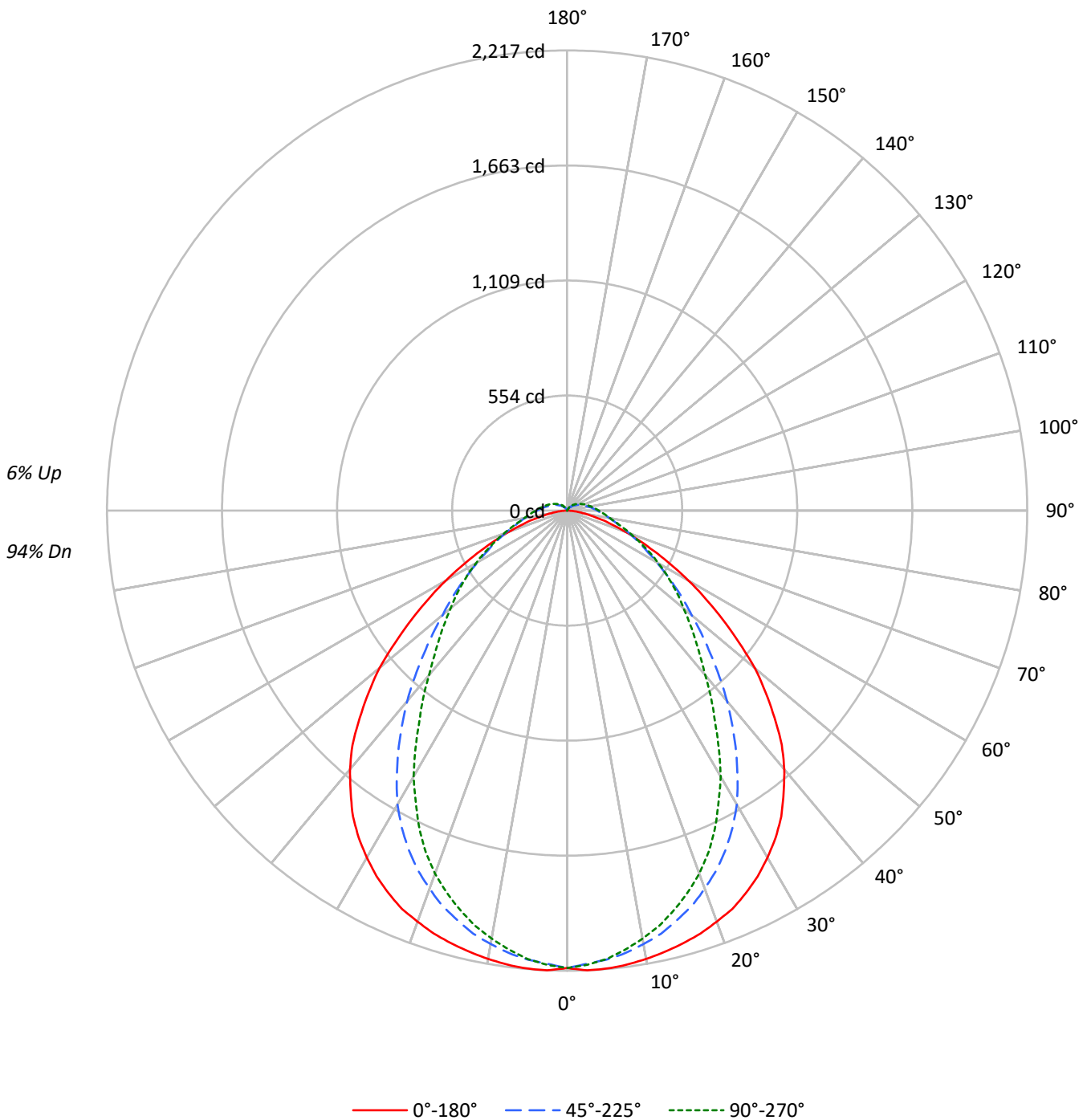
Input Watts (W): 40
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	35513	35513	35513
5°	35691	33001	32263
10°	35623	30712	29127
15°	35607	28465	26210
20°	35596	26213	23393
25°	35490	23879	20449
30°	35072	21351	17458
35°	34385	18406	14363
40°	33076	15580	11837
45°	30909	12806	9929
50°	28171	10451	8372
55°	24240	8626	7135
60°	20307	7062	5977
65°	16140	5865	4941
70°	12578	4930	4078
75°	9534	4185	3387
80°	6640	3701	2908
85°	4030	3368	2633



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.2	4.1
10°-20°	581.5	11.4
20°-30°	842.1	16.5
30°-40°	916.5	18.0
40°-50°	813.9	16.0
50°-60°	619.6	12.2
60°-70°	411.4	8.1
70°-80°	250.6	4.9
80°-90°	155.3	3.1
90°-100°	106.1	2.1
100°-110°	74.5	1.5
110°-120°	50.7	1.0
120°-130°	32.2	0.6
130°-140°	18.3	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°	1630.8	32.0
0°-40°	2547.3	50.1
0°-60°	3980.8	78.2
0°-90°	4798.1	94.3
90°-120°	231.2	4.5
90°-150°	290.3	5.7
90°-180°	291.0	5.7
0°-180°	5089.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2204	2204	2204	2204	2204	
5°	2215	2201	2172	2182	2169	211
15°	2158	2121	2043	2019	1992	610
25°	2035	1944	1804	1732	1686	937
35°	1799	1638	1418	1295	1241	1121
45°	1413	1201	976	893	871	1088
55°	914	743	630	619	617	820
65°	461	397	397	413	408	465
75°	177	201	252	265	257	191
85°	32	102	172	182	177	38
90°	0	75	145	158	153	2
95°	0	59	123	137	134	0
105°	0	38	88	102	102	0
115°	0	24	64	78	75	0
125°	0	16	43	54	54	0
135°	0	11	30	38	38	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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2203.9	2203.9	2203.9	2203.9	2203.9
2.5°	2217.3	2206.6	2185.2	2198.6	2190.5
5°	2214.6	2201.2	2171.7	2182.5	2169.1
7.5°	2206.6	2190.5	2150.3	2155.7	2134.2
10°	2193.2	2171.7	2120.8	2115.4	2094.0
12.5°	2177.1	2150.3	2088.6	2069.9	2048.4
15°	2158.3	2120.8	2043.1	2018.9	1992.1
17.5°	2136.9	2086.0	1997.5	1959.9	1930.4
20°	2107.4	2045.7	1938.5	1892.9	1860.7
22.5°	2077.9	1997.5	1876.8	1815.2	1780.3
25°	2035.0	1943.8	1804.4	1732.0	1686.5
27.5°	1986.7	1882.2	1724.0	1630.2	1579.2
30°	1930.4	1809.8	1635.5	1525.6	1480.0
32.5°	1868.8	1729.4	1528.3	1410.3	1359.4
35°	1799.1	1638.2	1418.3	1295.0	1241.4
37.5°	1713.3	1539.0	1308.4	1182.4	1139.5
40°	1627.5	1434.4	1198.5	1080.5	1034.9
42.5°	1530.9	1319.1	1085.9	978.6	946.5
45°	1413.0	1201.2	975.9	892.8	871.4
47.5°	1297.7	1080.5	876.7	817.8	799.0
50°	1179.7	962.5	782.9	745.4	732.0
52.5°	1043.0	847.2	705.1	681.0	675.7
55°	914.3	742.7	630.1	619.4	616.7
57.5°	790.9	643.5	560.4	568.4	563.0
60°	675.7	552.3	498.7	509.4	506.7
62.5°	563.0	469.2	442.4	463.8	458.5
65°	461.2	396.8	396.8	412.9	407.5
67.5°	372.7	337.8	353.9	370.0	364.6
70°	297.6	284.2	316.4	329.8	324.4
72.5°	230.6	238.6	278.8	294.9	286.9
75°	177.0	201.1	252.0	265.4	257.4
77.5°	126.0	168.9	227.9	238.6	230.6
80°	88.5	142.1	206.5	217.2	209.1
82.5°	56.3	120.7	187.7	198.4	193.0
85°	32.2	101.9	171.6	182.3	177.0
87.5°	16.1	88.5	155.5	168.9	163.6
90°	0.0	75.1	144.8	158.2	152.8
92.5°	0.0	67.0	134.1	147.5	142.1
95°	0.0	59.0	123.3	136.7	134.1
97.5°	0.0	53.6	115.3	128.7	123.3
100°	0.0	45.6	104.6	118.0	115.3
102.5°	0.0	42.9	96.5	109.9	107.2
105°	0.0	37.5	88.5	101.9	101.9
107.5°	0.0	34.9	83.1	96.5	93.8
110°	0.0	29.5	75.1	88.5	88.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	26.8	69.7	83.1	80.4
115°	0.0	24.1	64.3	77.8	75.1
117.5°	0.0	24.1	59.0	69.7	69.7
120°	0.0	21.4	53.6	64.3	64.3
122.5°	0.0	18.8	48.3	59.0	59.0
125°	0.0	16.1	42.9	53.6	53.6
127.5°	0.0	16.1	40.2	50.9	50.9
130°	0.0	13.4	34.9	45.6	45.6
132.5°	0.0	10.7	32.2	40.2	40.2
135°	0.0	10.7	29.5	37.5	37.5
137.5°	0.0	8.0	24.1	32.2	32.2
140°	0.0	8.0	21.4	29.5	29.5
142.5°	0.0	5.4	18.8	26.8	24.1
145°	0.0	5.4	16.1	21.4	21.4
147.5°	0.0	2.7	13.4	18.8	18.8
150°	0.0	2.7	10.7	16.1	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)