

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: P218222

Luminaire Tested: **4SNLED-LD5-54HL-LN-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218222
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-L850-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5965.0 lumens
Efficiency: N/A
Efficacy: 149.1 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

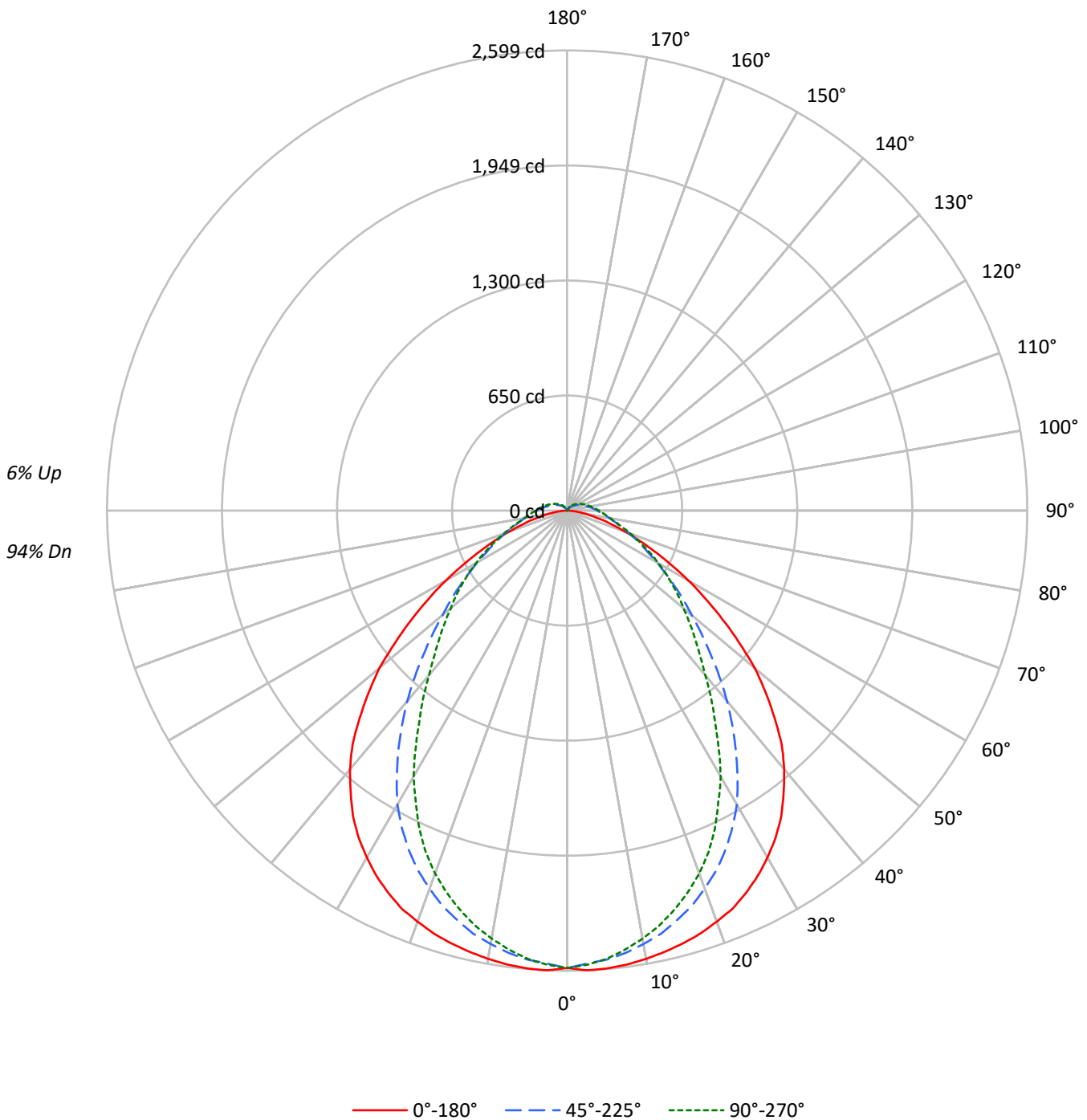
Input Watts (W): 40
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	41626	41626	41626
5°	41836	38683	37815
10°	41755	35999	34140
15°	41737	33363	30721
20°	41724	30725	27419
25°	41599	27989	23969
30°	41110	25025	20464
35°	40302	21575	16835
40°	38768	18262	13875
45°	36229	15010	11638
50°	33022	12251	9813
55°	28413	10110	8363
60°	23803	8277	7007
65°	18915	6874	5792
70°	14742	5777	4781
75°	11172	4905	3969
80°	7781	4337	3409
85°	4718	3947	3085



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.9	4.1
10°-20°	681.6	11.4
20°-30°	987.0	16.5
30°-40°	1074.2	18.0
40°-50°	954.1	16.0
50°-60°	726.2	12.2
60°-70°	482.2	8.1
70°-80°	293.8	4.9
80°-90°	182.1	3.1
90°-100°	124.3	2.1
100°-110°	87.3	1.5
110°-120°	59.4	1.0
120°-130°	37.7	0.6
130°-140°	21.4	0.4
140°-150°	10.1	0.2
150°-160°	0.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1911.5	32.0
0°-40°	2985.7	50.1
0°-60°	4666.0	78.2
0°-90°	5624.0	94.3
90°-120°	271.0	4.5
90°-150°	340.2	5.7
90°-180°	341.0	5.7
0°-180°	5965.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2583	2583	2583	2583	2583	
5°	2596	2580	2546	2558	2542	247
15°	2530	2486	2395	2366	2335	715
25°	2385	2278	2115	2030	1977	1098
35°	2109	1920	1662	1518	1455	1314
45°	1656	1408	1144	1046	1021	1275
55°	1072	870	738	726	723	961
65°	540	465	465	484	478	545
75°	207	236	295	311	302	224
85°	38	119	201	214	207	45
90°	0	88	170	185	179	3
95°	0	69	145	160	157	0
105°	0	44	104	119	119	0
115°	0	28	75	91	88	0
125°	0	19	50	63	63	0
135°	0	13	35	44	44	0
145°	0	6	19	25	25	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°	2583.3	2583.3	2583.3	2583.3	2583.3
2.5°	2599.0	2586.4	2561.3	2577.0	2567.6
5°	2595.9	2580.2	2545.6	2558.2	2542.4
7.5°	2586.4	2567.6	2520.4	2526.7	2501.6
10°	2570.7	2545.6	2485.9	2479.6	2454.4
12.5°	2551.9	2520.4	2448.2	2426.2	2401.0
15°	2529.9	2485.9	2394.7	2366.5	2335.0
17.5°	2504.7	2445.0	2341.3	2297.3	2262.7
20°	2470.2	2397.9	2272.2	2218.7	2181.0
22.5°	2435.6	2341.3	2199.9	2127.6	2086.8
25°	2385.3	2278.5	2115.0	2030.2	1976.8
27.5°	2328.7	2206.2	2020.8	1910.8	1851.0
30°	2262.7	2121.3	1917.0	1788.2	1734.8
32.5°	2190.5	2027.0	1791.3	1653.1	1593.3
35°	2108.7	1920.2	1662.5	1517.9	1455.1
37.5°	2008.2	1803.9	1533.6	1385.9	1335.6
40°	1907.6	1681.3	1404.8	1266.5	1213.1
42.5°	1794.5	1546.2	1272.8	1147.1	1109.4
45°	1656.2	1407.9	1143.9	1046.5	1021.4
47.5°	1521.1	1266.5	1027.7	958.5	936.5
50°	1382.8	1128.2	917.7	873.7	858.0
52.5°	1222.5	993.1	826.5	798.2	792.0
55°	1071.7	870.5	738.5	726.0	722.8
57.5°	927.1	754.2	656.8	666.3	660.0
60°	792.0	647.4	584.5	597.1	594.0
62.5°	660.0	550.0	518.5	543.7	537.4
65°	540.5	465.1	465.1	484.0	477.7
67.5°	436.8	396.0	414.8	433.7	427.4
70°	348.8	333.1	370.8	386.6	380.3
72.5°	270.3	279.7	326.8	345.7	336.3
75°	207.4	235.7	295.4	311.1	301.7
77.5°	147.7	198.0	267.1	279.7	270.3
80°	103.7	166.6	242.0	254.6	245.1
82.5°	66.0	141.4	220.0	232.6	226.3
85°	37.7	119.4	201.1	213.7	207.4
87.5°	18.9	103.7	182.3	198.0	191.7
90°	0.0	88.0	169.7	185.4	179.1
92.5°	0.0	78.6	157.1	172.8	166.6
95°	0.0	69.1	144.6	160.3	157.1
97.5°	0.0	62.9	135.1	150.8	144.6
100°	0.0	53.4	122.6	138.3	135.1
102.5°	0.0	50.3	113.1	128.9	125.7
105°	0.0	44.0	103.7	119.4	119.4
107.5°	0.0	40.9	97.4	113.1	110.0
110°	0.0	34.6	88.0	103.7	103.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	31.4	81.7	97.4	94.3
115°	0.0	28.3	75.4	91.1	88.0
117.5°	0.0	28.3	69.1	81.7	81.7
120°	0.0	25.1	62.9	75.4	75.4
122.5°	0.0	22.0	56.6	69.1	69.1
125°	0.0	18.9	50.3	62.9	62.9
127.5°	0.0	18.9	47.1	59.7	59.7
130°	0.0	15.7	40.9	53.4	53.4
132.5°	0.0	12.6	37.7	47.1	47.1
135°	0.0	12.6	34.6	44.0	44.0
137.5°	0.0	9.4	28.3	37.7	37.7
140°	0.0	9.4	25.1	34.6	34.6
142.5°	0.0	6.3	22.0	31.4	28.3
145°	0.0	6.3	18.9	25.1	25.1
147.5°	0.0	3.1	15.7	22.0	22.0
150°	0.0	3.1	12.6	18.9	15.7
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)