

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: P218221

Luminaire Tested: **4SNLED-LD5-54HL-LN-UNV-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218221  
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-L840-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5515.0 lumens  
Efficiency: N/A  
Efficacy: 137.9 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

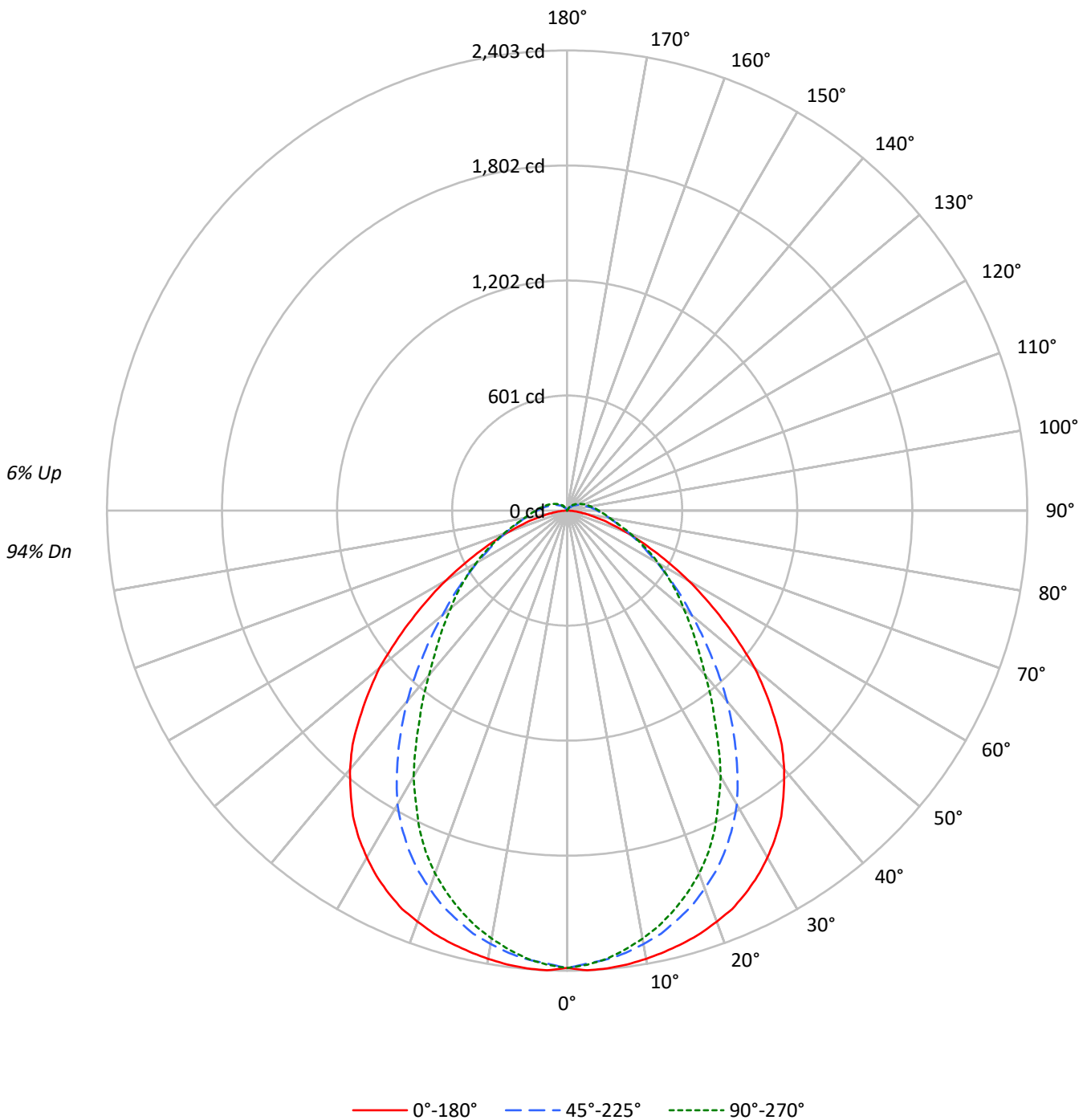
Input Watts (W): 40  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	38486	38486	38486
5°	38679	35763	34963
10°	38606	33282	31565
15°	38588	30847	28404
20°	38576	28408	25351
25°	38462	25879	22160
30°	38008	23138	18920
35°	37263	19948	15565
40°	35844	16884	12828
45°	33497	13878	10759
50°	30531	11326	9072
55°	26269	9348	7732
60°	22006	7652	6478
65°	17490	6355	5356
70°	13630	5343	4420
75°	10331	4535	3669
80°	7195	4009	3152
85°	4368	3651	2853



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.5	4.1
10°-20°	630.2	11.4
20°-30°	912.6	16.5
30°-40°	993.2	18.0
40°-50°	882.1	16.0
50°-60°	671.4	12.2
60°-70°	445.8	8.1
70°-80°	271.6	4.9
80°-90°	168.3	3.1
90°-100°	115.0	2.1
100°-110°	80.7	1.5
110°-120°	55.0	1.0
120°-130°	34.9	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°	1767.3	32.0
0°-40°	2760.5	50.1
0°-60°	4314.0	78.2
0°-90°	5199.8	94.3
90°-120°	250.6	4.5
90°-150°	314.6	5.7
90°-180°	315.0	5.7
0°-180°	5515.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2388	2388	2388	2388	2388	
5°	2400	2386	2354	2365	2351	228
15°	2339	2298	2214	2188	2159	661
25°	2205	2107	1956	1877	1828	1015
35°	1950	1775	1537	1403	1345	1215
45°	1531	1302	1058	968	944	1179
55°	991	805	683	671	668	889
65°	500	430	430	448	442	504
75°	192	218	273	288	279	207
85°	35	110	186	198	192	41
90°	0	81	157	171	166	2
95°	0	64	134	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°	2388.4	2388.4	2388.4	2388.4	2388.4
2.5°	2402.9	2391.3	2368.1	2382.6	2373.9
5°	2400.0	2385.5	2353.5	2365.2	2350.6
7.5°	2391.3	2373.9	2330.3	2336.1	2312.9
10°	2376.8	2353.5	2298.3	2292.5	2269.3
12.5°	2359.4	2330.3	2263.5	2243.1	2219.9
15°	2339.0	2298.3	2214.1	2187.9	2158.9
17.5°	2315.8	2260.6	2164.7	2124.0	2092.0
20°	2283.8	2217.0	2100.8	2051.4	2016.5
22.5°	2251.8	2164.7	2033.9	1967.1	1929.3
25°	2205.4	2106.6	1955.5	1877.0	1827.6
27.5°	2153.1	2039.7	1868.3	1766.6	1711.4
30°	2092.0	1961.3	1772.4	1653.3	1603.9
32.5°	2025.2	1874.1	1656.2	1528.4	1473.1
35°	1949.7	1775.3	1537.1	1403.4	1345.3
37.5°	1856.7	1667.8	1417.9	1281.4	1234.9
40°	1763.7	1554.5	1298.8	1171.0	1121.6
42.5°	1659.1	1429.6	1176.8	1060.5	1025.7
45°	1531.3	1301.7	1057.6	967.6	944.3
47.5°	1406.3	1171.0	950.1	886.2	865.9
50°	1278.5	1043.1	848.4	807.8	793.2
52.5°	1130.3	918.2	764.2	738.0	732.2
55°	990.8	804.9	682.8	671.2	668.3
57.5°	857.2	697.3	607.3	616.0	610.2
60°	732.2	598.6	540.4	552.1	549.2
62.5°	610.2	508.5	479.4	502.7	496.9
65°	499.8	430.0	430.0	447.5	441.7
67.5°	403.9	366.1	383.5	401.0	395.2
70°	322.5	308.0	342.9	357.4	351.6
72.5°	249.9	258.6	302.2	319.6	310.9
75°	191.8	217.9	273.1	287.7	278.9
77.5°	136.6	183.1	247.0	258.6	249.9
80°	95.9	154.0	223.7	235.4	226.6
82.5°	61.0	130.8	203.4	215.0	209.2
85°	34.9	110.4	186.0	197.6	191.8
87.5°	17.4	95.9	168.5	183.1	177.2
90°	0.0	81.4	156.9	171.4	165.6
92.5°	0.0	72.6	145.3	159.8	154.0
95°	0.0	63.9	133.7	148.2	145.3
97.5°	0.0	58.1	124.9	139.5	133.7
100°	0.0	49.4	113.3	127.8	124.9
102.5°	0.0	46.5	104.6	119.1	116.2
105°	0.0	40.7	95.9	110.4	110.4
107.5°	0.0	37.8	90.1	104.6	101.7
110°	0.0	32.0	81.4	95.9	95.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	29.1	75.5	90.1	87.2
115°	0.0	26.2	69.7	84.3	81.4
117.5°	0.0	26.2	63.9	75.5	75.5
120°	0.0	23.2	58.1	69.7	69.7
122.5°	0.0	20.3	52.3	63.9	63.9
125°	0.0	17.4	46.5	58.1	58.1
127.5°	0.0	17.4	43.6	55.2	55.2
130°	0.0	14.5	37.8	49.4	49.4
132.5°	0.0	11.6	34.9	43.6	43.6
135°	0.0	11.6	32.0	40.7	40.7
137.5°	0.0	8.7	26.2	34.9	34.9
140°	0.0	8.7	23.2	32.0	32.0
142.5°	0.0	5.8	20.3	29.1	26.2
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)