

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: P218107

Luminaire Tested: **4SNLED-LD5-60HL-LC-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218107
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-LD5-60HL-LC-UNV-L830-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5573.1 lumens
Efficiency: N/A
Efficacy: 129.6 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

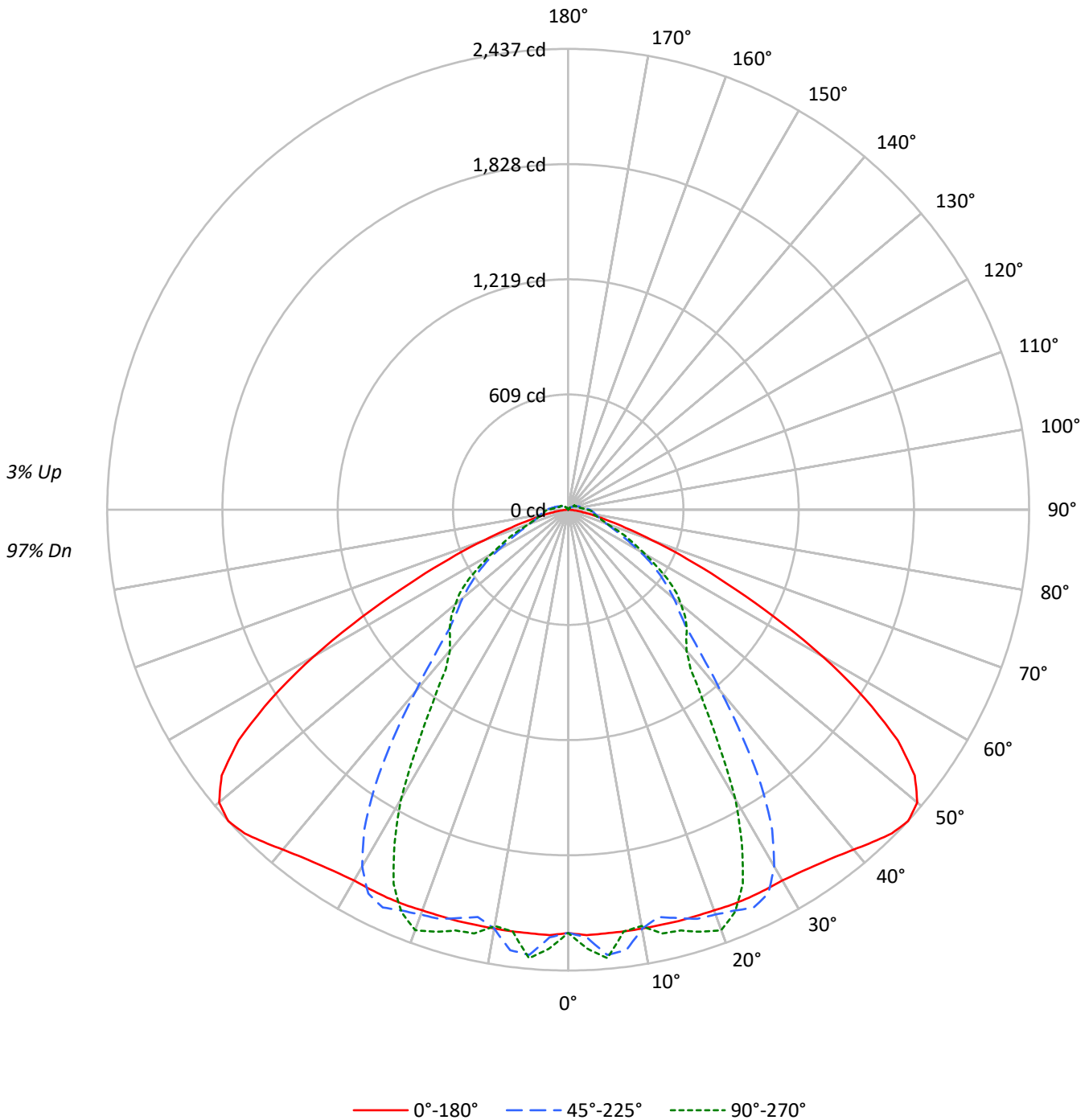
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	36061	36061	36061
5°	36250	35912	35406
10°	36535	32573	31088
15°	37154	31138	30305
20°	38089	30801	29748
25°	39475	30709	26478
30°	41124	28433	20849
35°	43806	23086	14446
40°	47682	16306	11118
45°	52944	11596	10102
50°	57525	9742	8902
55°	56384	8001	7421
60°	46779	6055	5549
65°	32325	4382	4079
70°	20122	3331	2796
75°	11366	2840	2213
80°	6415	2656	1903
85°	2854	2573	1908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.0	3.9
10°-20°	647.9	11.6
20°-30°	1029.5	18.5
30°-40°	1110.0	19.9
40°-50°	956.7	17.2
50°-60°	724.3	13.0
60°-70°	391.3	7.0
70°-80°	185.8	3.3
80°-90°	116.7	2.1
90°-100°	74.3	1.3
100°-110°	47.5	0.9
110°-120°	31.8	0.6
120°-130°	21.0	0.4
130°-140°	10.3	0.2
140°-150°	4.4	0.1
150°-160°	1.6	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1897.3	34.0
0°-40°	3007.3	54.0
0°-60°	4688.3	84.1
0°-90°	5382.1	96.6
90°-120°	153.6	2.8
90°-150°	189.3	3.4
90°-180°	191.0	3.4
0°-180°	5573.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2238	2238	2238	2238	2238	
5°	2249	2298	2363	2395	2380	215
15°	2252	2312	2235	2312	2303	638
25°	2264	2221	2320	2258	2184	1047
35°	2292	2206	1779	1360	1249	1444
45°	2420	1517	884	875	887	1863
55°	2127	656	584	639	641	1850
65°	924	279	296	334	336	949
75°	211	145	171	171	168	248
85°	23	88	131	131	128	33
90°	0	68	114	111	103	1
95°	0	54	91	83	77	0
105°	0	34	63	57	51	0
115°	0	20	43	43	43	0
125°	0	11	28	37	34	0
135°	0	6	17	20	20	0
145°	0	3	9	11	9	0
155°	0	3	3	6	3	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°	2237.9	2237.9	2237.9	2237.9	2237.9
2.5°	2252.1	2255.0	2263.5	2306.3	2323.4
5°	2249.3	2297.7	2363.3	2394.7	2380.4
7.5°	2249.3	2349.1	2349.1	2289.2	2249.3
10°	2249.3	2377.6	2249.3	2237.9	2235.0
12.5°	2249.3	2360.5	2206.5	2286.3	2294.9
15°	2252.1	2312.0	2235.0	2312.0	2303.4
17.5°	2252.1	2255.0	2269.2	2329.1	2340.5
20°	2255.0	2217.9	2277.8	2374.7	2366.2
22.5°	2260.7	2212.2	2294.9	2354.8	2303.4
25°	2263.5	2220.8	2320.5	2257.8	2183.7
27.5°	2263.5	2232.2	2289.2	2109.6	1987.0
30°	2263.5	2237.9	2178.0	1904.3	1767.5
32.5°	2274.9	2232.2	2007.0	1636.4	1488.1
35°	2292.0	2206.5	1778.9	1359.8	1248.6
37.5°	2314.8	2138.1	1510.9	1137.5	1063.3
40°	2346.2	1989.9	1254.3	994.9	972.1
42.5°	2383.3	1773.2	1043.4	923.7	923.7
45°	2420.3	1516.6	883.7	875.2	886.6
47.5°	2437.4	1265.8	795.4	826.7	838.1
50°	2408.9	1032.0	729.8	772.6	778.3
52.5°	2309.1	823.9	655.7	707.0	721.2
55°	2126.7	655.7	584.4	638.6	641.4
57.5°	1861.6	521.7	510.3	553.1	550.2
60°	1556.5	421.9	427.6	470.4	470.4
62.5°	1228.7	342.1	359.2	396.3	393.4
65°	923.7	279.4	296.5	333.5	336.4
67.5°	681.3	230.9	250.9	276.5	270.8
70°	476.1	193.9	213.8	228.1	222.4
72.5°	316.4	165.3	188.2	193.9	191.0
75°	211.0	145.4	171.0	171.0	168.2
77.5°	136.8	128.3	159.6	156.8	151.1
80°	85.5	114.0	148.2	142.5	136.8
82.5°	51.3	99.8	139.7	134.0	128.3
85°	22.8	88.4	131.1	131.1	128.3
87.5°	8.6	79.8	122.6	125.4	119.7
90°	0.0	68.4	114.0	111.2	102.6
92.5°	0.0	62.7	102.6	94.1	88.4
95°	0.0	54.2	91.2	82.7	77.0
97.5°	0.0	48.5	82.7	74.1	68.4
100°	0.0	42.8	74.1	65.6	59.9
102.5°	0.0	37.1	68.4	59.9	57.0
105°	0.0	34.2	62.7	57.0	51.3
107.5°	0.0	31.4	57.0	51.3	48.5
110°	0.0	25.7	51.3	48.5	45.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	22.8	45.6	45.6	45.6
115°	0.0	20.0	42.8	42.8	42.8
117.5°	0.0	17.1	37.1	42.8	42.8
120°	0.0	17.1	34.2	39.9	39.9
122.5°	0.0	14.3	31.4	39.9	39.9
125°	0.0	11.4	28.5	37.1	34.2
127.5°	0.0	8.6	25.7	31.4	31.4
130°	0.0	8.6	22.8	28.5	25.7
132.5°	0.0	5.7	20.0	22.8	22.8
135°	0.0	5.7	17.1	20.0	20.0
137.5°	0.0	5.7	14.3	17.1	14.3
140°	0.0	2.9	11.4	14.3	11.4
142.5°	0.0	2.9	11.4	14.3	11.4
145°	0.0	2.9	8.6	11.4	8.6
147.5°	0.0	2.9	5.7	8.6	8.6
150°	0.0	2.9	5.7	8.6	5.7
152.5°	0.0	2.9	5.7	5.7	2.9
155°	0.0	2.9	2.9	5.7	2.9
157.5°	0.0	2.9	2.9	2.9	2.9
160°	2.9	2.9	2.9	2.9	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)