

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: P218239

Luminaire Tested: **4SNLED-LD5-74HL-LN-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218239
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-LD5-74HL-LN-UNV-L830-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7035.0 lumens
Efficiency: N/A
Efficacy: 113.8 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

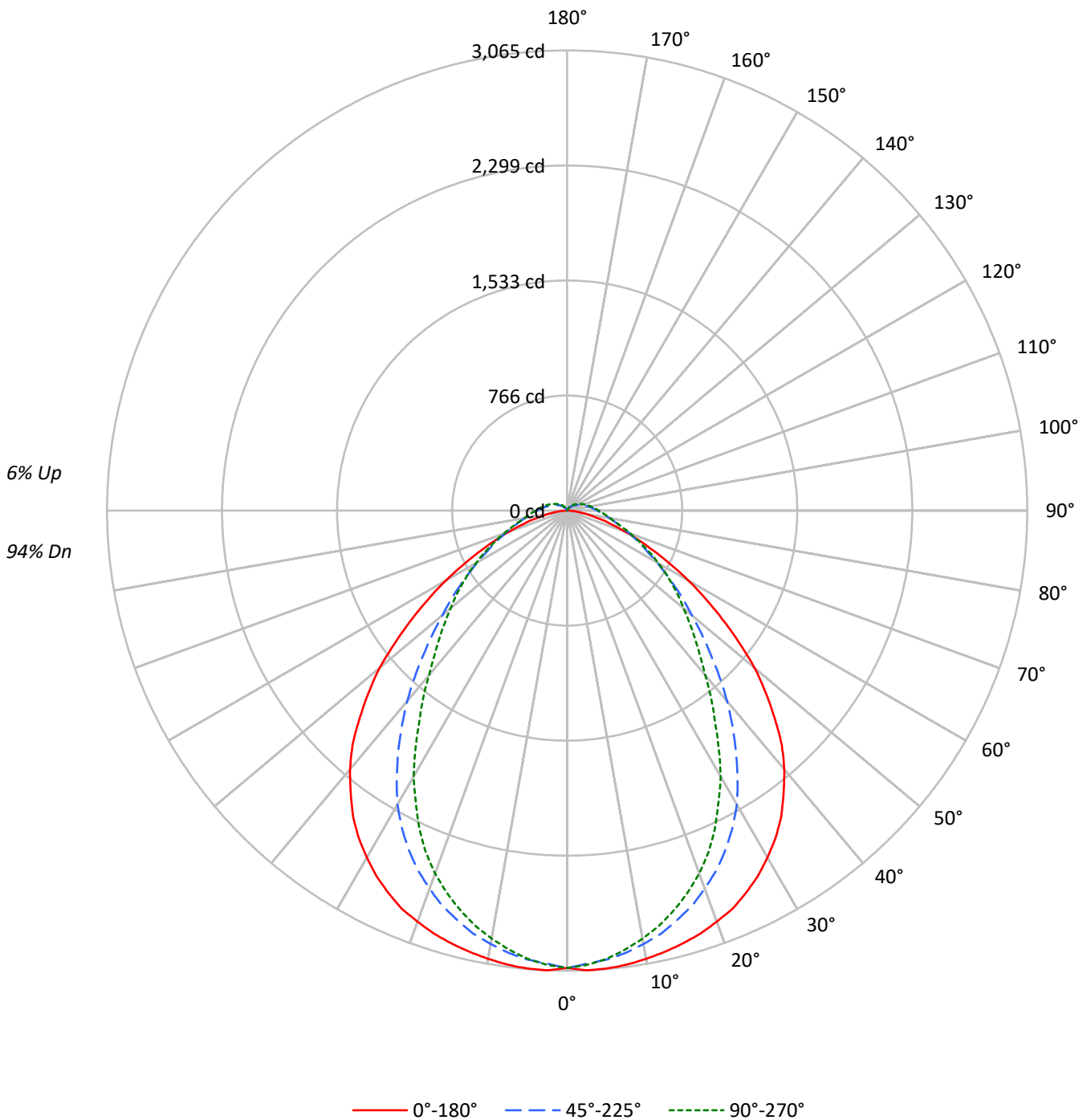
Input Watts (W): 61.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	49093	49093	49093
5°	49340	45621	44599
10°	49246	42456	40264
15°	49224	39349	36232
20°	49209	36237	32339
25°	49062	33010	28268
30°	48484	29515	24135
35°	47533	25445	19855
40°	45722	21538	16364
45°	42728	17703	13725
50°	38944	14448	11574
55°	33509	11925	9863
60°	28070	9762	8263
65°	22309	8108	6831
70°	17388	6815	5639
75°	13175	5786	4681
80°	9176	5115	4021
85°	5570	4656	3638



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.4	4.1
10°-20°	803.9	11.4
20°-30°	1164.1	16.5
30°-40°	1266.9	18.0
40°-50°	1125.2	16.0
50°-60°	856.5	12.2
60°-70°	568.7	8.1
70°-80°	346.5	4.9
80°-90°	214.7	3.1
90°-100°	146.6	2.1
100°-110°	102.9	1.5
110°-120°	70.1	1.0
120°-130°	44.5	0.6
130°-140°	25.3	0.4
140°-150°	11.9	0.2
150°-160°	0.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2254.4	32.0
0°-40°	3521.3	50.1
0°-60°	5503.0	78.2
0°-90°	6632.9	94.3
90°-120°	319.7	4.5
90°-150°	401.3	5.7
90°-180°	402.0	5.7
0°-180°	7035.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3047	3047	3047	3047	3047	
5°	3062	3043	3002	3017	2998	291
15°	2984	2932	2824	2791	2754	843
25°	2813	2687	2494	2394	2331	1295
35°	2487	2265	1961	1790	1716	1549
45°	1953	1660	1349	1234	1205	1504
55°	1264	1027	871	856	852	1134
65°	638	549	549	571	563	643
75°	245	278	348	367	356	265
85°	44	141	237	252	245	53
90°	0	104	200	219	211	3
95°	0	82	170	189	185	0
105°	0	52	122	141	141	0
115°	0	33	89	108	104	0
125°	0	22	59	74	74	0
135°	0	15	41	52	52	0
145°	0	7	22	30	30	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°	3046.7	3046.7	3046.7	3046.7	3046.7
2.5°	3065.2	3050.4	3020.7	3039.3	3028.2
5°	3061.5	3043.0	3002.2	3017.0	2998.5
7.5°	3050.4	3028.2	2972.6	2980.0	2950.3
10°	3031.9	3002.2	2931.8	2924.4	2894.7
12.5°	3009.6	2972.6	2887.3	2861.4	2831.7
15°	2983.7	2931.8	2824.3	2790.9	2753.9
17.5°	2954.0	2883.6	2761.3	2709.4	2668.6
20°	2913.3	2828.0	2679.8	2616.7	2572.3
22.5°	2872.5	2761.3	2594.5	2509.3	2461.1
25°	2813.2	2687.2	2494.4	2394.4	2331.3
27.5°	2746.5	2601.9	2383.2	2253.5	2183.1
30°	2668.6	2501.8	2260.9	2109.0	2046.0
32.5°	2583.4	2390.6	2112.7	1949.6	1879.2
35°	2487.0	2264.6	1960.7	1790.2	1716.1
37.5°	2368.4	2127.5	1808.7	1634.5	1575.2
40°	2249.8	1982.9	1656.8	1493.7	1430.7
42.5°	2116.4	1823.6	1501.1	1352.8	1308.4
45°	1953.3	1660.5	1349.1	1234.2	1204.6
47.5°	1793.9	1493.7	1212.0	1130.5	1104.5
50°	1630.8	1330.6	1082.3	1030.4	1011.9
52.5°	1441.8	1171.2	974.8	941.4	934.0
55°	1263.9	1026.7	871.0	856.2	852.5
57.5°	1093.4	889.5	774.6	785.8	778.4
60°	934.0	763.5	689.4	704.2	700.5
62.5°	778.4	648.6	611.6	641.2	633.8
65°	637.5	548.6	548.6	570.8	563.4
67.5°	515.2	467.0	489.2	511.5	504.1
70°	411.4	392.9	437.4	455.9	448.5
72.5°	318.8	329.9	385.5	407.7	396.6
75°	244.6	278.0	348.4	366.9	355.8
77.5°	174.2	233.5	315.0	329.9	318.8
80°	122.3	196.4	285.4	300.2	289.1
82.5°	77.8	166.8	259.5	274.3	266.9
85°	44.5	140.8	237.2	252.0	244.6
87.5°	22.2	122.3	215.0	233.5	226.1
90°	0.0	103.8	200.1	218.7	211.3
92.5°	0.0	92.7	185.3	203.9	196.4
95°	0.0	81.5	170.5	189.0	185.3
97.5°	0.0	74.1	159.4	177.9	170.5
100°	0.0	63.0	144.6	163.1	159.4
102.5°	0.0	59.3	133.4	152.0	148.3
105°	0.0	51.9	122.3	140.8	140.8
107.5°	0.0	48.2	114.9	133.4	129.7
110°	0.0	40.8	103.8	122.3	122.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	37.1	96.4	114.9	111.2
115°	0.0	33.4	89.0	107.5	103.8
117.5°	0.0	33.4	81.5	96.4	96.4
120°	0.0	29.7	74.1	89.0	89.0
122.5°	0.0	25.9	66.7	81.5	81.5
125°	0.0	22.2	59.3	74.1	74.1
127.5°	0.0	22.2	55.6	70.4	70.4
130°	0.0	18.5	48.2	63.0	63.0
132.5°	0.0	14.8	44.5	55.6	55.6
135°	0.0	14.8	40.8	51.9	51.9
137.5°	0.0	11.1	33.4	44.5	44.5
140°	0.0	11.1	29.7	40.8	40.8
142.5°	0.0	7.4	25.9	37.1	33.4
145°	0.0	7.4	22.2	29.7	29.7
147.5°	0.0	3.7	18.5	25.9	25.9
150°	0.0	3.7	14.8	22.2	18.5
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)