

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: P218155

Luminaire Tested: **8TSNLED-LD5-170HL-LC-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218155  
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: 8TSNLED-LD5-170HL-LC-UNV-L830-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14494.0 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Spacing Criteria (0/90/45): 1.59 / 1.17 / 1.18  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 8' x H: 0.17')  
CIE Type: Direct

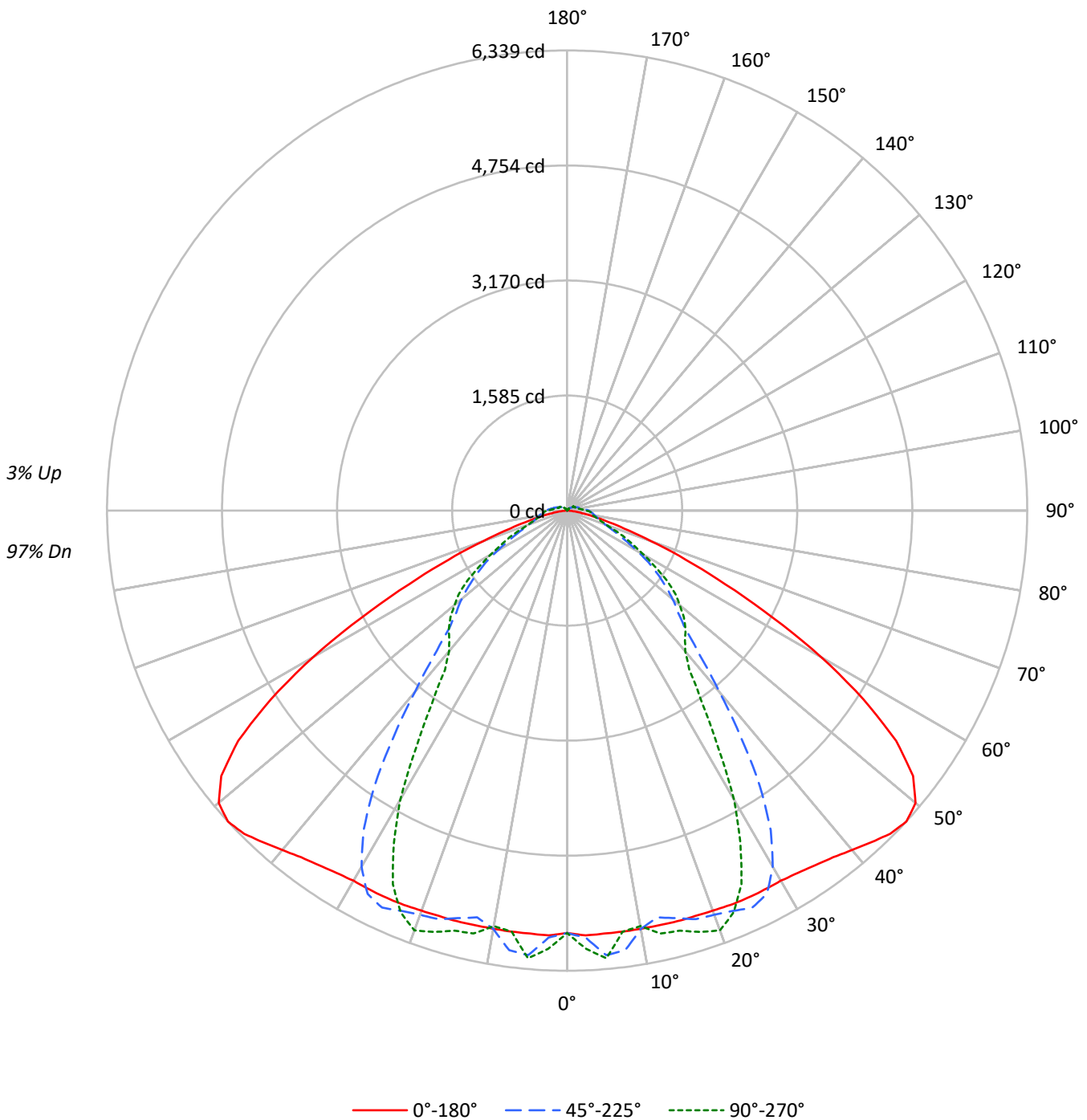
Input Watts (W): 123.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	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	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	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	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	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	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	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	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	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	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	40	34	30	28		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	46892	46892	46892
5°	47225	46757	46041
10°	47682	42454	40426
15°	48583	40626	39409
20°	49903	40223	38683
25°	51828	40140	34432
30°	54115	37195	27112
35°	57785	30226	18786
40°	63072	21367	14458
45°	70256	15209	13136
50°	76621	12788	11575
55°	75443	10512	9650
60°	62955	7963	7215
65°	43833	5769	5304
70°	27586	4391	3635
75°	15846	3749	2877
80°	9226	3511	2475
85°	4426	3408	2481



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	572.1	3.9
10°-20°	1685.0	11.6
20°-30°	2677.4	18.5
30°-40°	2886.8	19.9
40°-50°	2488.2	17.2
50°-60°	1883.7	13.0
60°-70°	1017.6	7.0
70°-80°	483.3	3.3
80°-90°	303.5	2.1
90°-100°	193.1	1.3
100°-110°	123.6	0.9
110°-120°	82.7	0.6
120°-130°	54.6	0.4
130°-140°	26.7	0.2
140°-150°	11.4	0.1
150°-160°	4.1	0.0
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	4934.4	34.0
0°-40°	7821.2	54.0
0°-60°	12193.1	84.1
0°-90°	13997.5	96.6
90°-120°	399.4	2.8
90°-150°	492.1	3.4
90°-180°	496.0	3.4
0°-180°	14494.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5820	5820	5820	5820	5820	
5°	5850	5976	6146	6228	6191	558
15°	5857	6013	5813	6013	5991	1660
25°	5887	5776	6035	5872	5679	2723
35°	5961	5739	4626	3537	3247	3755
45°	6295	3944	2298	2276	2306	4846
55°	5531	1705	1520	1661	1668	4811
65°	2402	727	771	868	875	2467
75°	549	378	445	445	437	646
85°	59	230	341	341	334	86
90°	0	178	297	289	267	3
95°	0	141	237	215	200	0
105°	0	89	163	148	134	0
115°	0	52	111	111	111	0
125°	0	30	74	96	89	0
135°	0	15	44	52	52	0
145°	0	7	22	30	22	0
155°	0	7	7	15	7	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°	5820.1	5820.1	5820.1	5820.1	5820.1
2.5°	5857.2	5864.6	5886.9	5998.1	6042.6
5°	5849.8	5975.8	6146.4	6227.9	6190.9
7.5°	5849.8	6109.3	6109.3	5953.6	5849.8
10°	5849.8	6183.4	5849.8	5820.1	5812.7
12.5°	5849.8	6139.0	5738.6	5946.2	5968.4
15°	5857.2	6012.9	5812.7	6012.9	5990.7
17.5°	5857.2	5864.6	5901.7	6057.4	6087.1
20°	5864.6	5768.2	5923.9	6176.0	6153.8
22.5°	5879.5	5753.4	5968.4	6124.1	5990.7
25°	5886.9	5775.7	6035.2	5872.0	5679.3
27.5°	5886.9	5805.3	5953.6	5486.5	5167.7
30°	5886.9	5820.1	5664.4	4952.7	4596.8
32.5°	5916.5	5805.3	5219.6	4255.8	3870.2
35°	5961.0	5738.6	4626.5	3536.6	3247.4
37.5°	6020.3	5560.7	3929.5	2958.3	2765.5
40°	6101.9	5175.1	3262.2	2587.6	2528.2
42.5°	6198.3	4611.6	2713.6	2402.2	2402.2
45°	6294.7	3944.4	2298.4	2276.2	2305.8
47.5°	6339.1	3291.9	2068.6	2150.1	2179.8
50°	6265.0	2683.9	1898.0	2009.2	2024.1
52.5°	6005.5	2142.7	1705.3	1838.7	1875.8
55°	5531.0	1705.3	1519.9	1660.8	1668.2
57.5°	4841.5	1356.8	1327.1	1438.4	1430.9
60°	4048.2	1097.3	1112.1	1223.3	1223.3
62.5°	3195.5	889.7	934.2	1030.6	1023.2
65°	2402.2	726.6	771.1	867.5	874.9
67.5°	1772.0	600.6	652.4	719.2	704.3
70°	1238.2	504.2	556.1	593.1	578.3
72.5°	823.0	430.0	489.3	504.2	496.8
75°	548.7	378.1	444.9	444.9	437.4
77.5°	355.9	333.6	415.2	407.8	393.0
80°	222.4	296.6	385.5	370.7	355.9
82.5°	133.5	259.5	363.3	348.5	333.6
85°	59.3	229.8	341.1	341.1	333.6
87.5°	22.2	207.6	318.8	326.2	311.4
90°	0.0	177.9	296.6	289.2	266.9
92.5°	0.0	163.1	266.9	244.7	229.8
95°	0.0	140.9	237.3	215.0	200.2
97.5°	0.0	126.0	215.0	192.8	177.9
100°	0.0	111.2	192.8	170.5	155.7
102.5°	0.0	96.4	177.9	155.7	148.3
105°	0.0	89.0	163.1	148.3	133.5
107.5°	0.0	81.6	148.3	133.5	126.0
110°	0.0	66.7	133.5	126.0	118.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	59.3	118.6	118.6	118.6
115°	0.0	51.9	111.2	111.2	111.2
117.5°	0.0	44.5	96.4	111.2	111.2
120°	0.0	44.5	89.0	103.8	103.8
122.5°	0.0	37.1	81.6	103.8	103.8
125°	0.0	29.7	74.1	96.4	89.0
127.5°	0.0	22.2	66.7	81.6	81.6
130°	0.0	22.2	59.3	74.1	66.7
132.5°	0.0	14.8	51.9	59.3	59.3
135°	0.0	14.8	44.5	51.9	51.9
137.5°	0.0	14.8	37.1	44.5	37.1
140°	0.0	7.4	29.7	37.1	29.7
142.5°	0.0	7.4	29.7	37.1	29.7
145°	0.0	7.4	22.2	29.7	22.2
147.5°	0.0	7.4	14.8	22.2	22.2
150°	0.0	7.4	14.8	22.2	14.8
152.5°	0.0	7.4	14.8	14.8	7.4
155°	0.0	7.4	7.4	14.8	7.4
157.5°	0.0	7.4	7.4	7.4	7.4
160°	7.4	7.4	7.4	7.4	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)