

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: P218156

Luminaire Tested: **8TSNLED-LD5-170HL-LC-UNV-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218156  
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-L835-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15397.0 lumens  
Efficiency: N/A  
Efficacy: 124.6 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

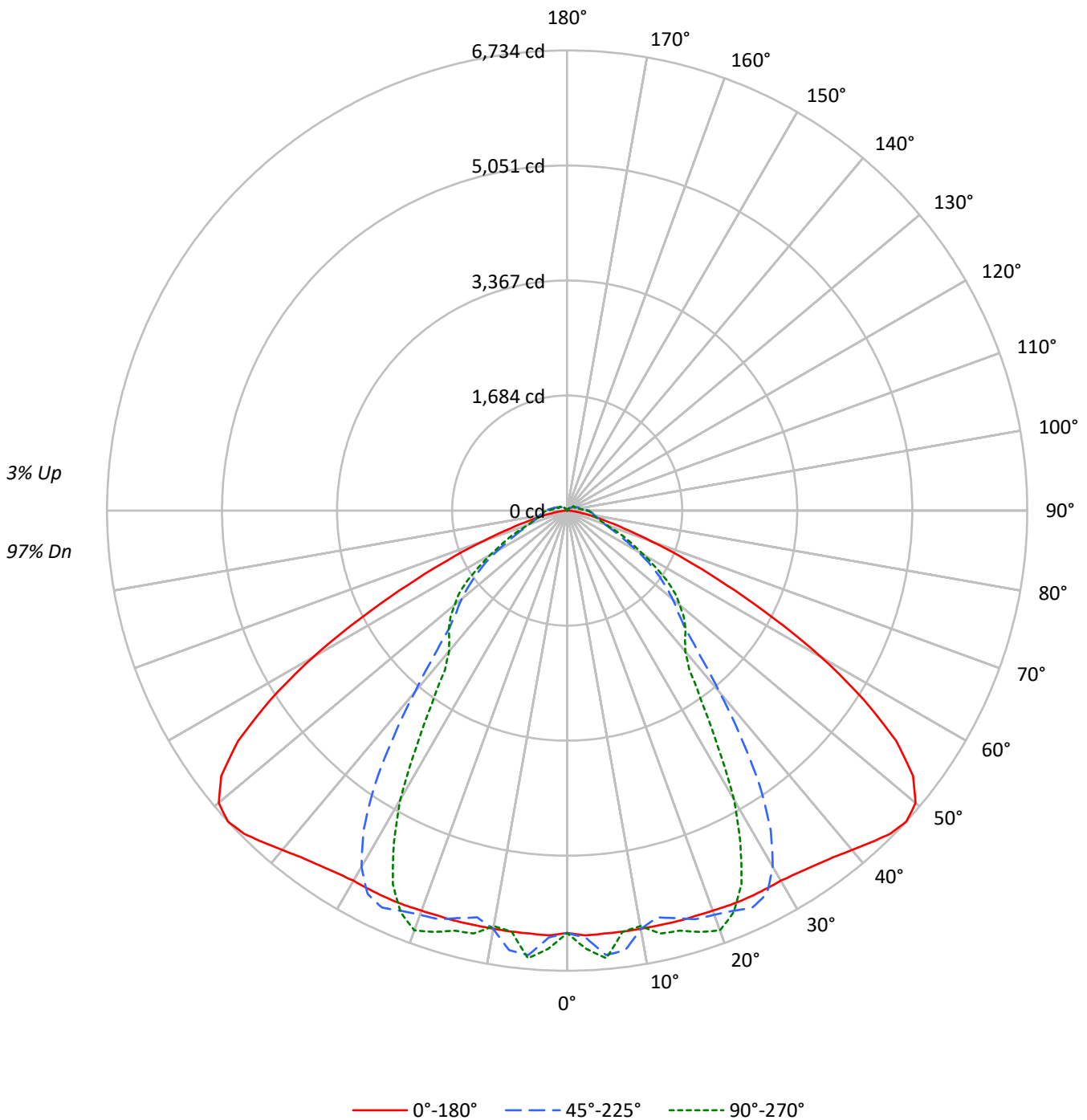
Input Watts (W): 123.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	49814	49814	49814
5°	50167	49669	48910
10°	50653	45099	42945
15°	51610	43157	41864
20°	53013	42729	41093
25°	55057	42640	36577
30°	57486	39513	28801
35°	61385	32109	19956
40°	67000	22699	15360
45°	74632	16157	13955
50°	81394	13585	12297
55°	80143	11167	10251
60°	66877	8460	7665
65°	46565	6128	5635
70°	29303	4664	3861
75°	16831	3983	3057
80°	9803	3731	2630
85°	4702	3620	2636



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	607.7	3.9
10°-20°	1789.9	11.6
20°-30°	2844.2	18.5
30°-40°	3066.7	19.9
40°-50°	2643.2	17.2
50°-60°	2001.1	13.0
60°-70°	1081.0	7.0
70°-80°	513.4	3.3
80°-90°	322.4	2.1
90°-100°	205.1	1.3
100°-110°	131.3	0.9
110°-120°	87.9	0.6
120°-130°	58.0	0.4
130°-140°	28.4	0.2
140°-150°	12.1	0.1
150°-160°	4.4	0.0
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	5241.8	34.0
0°-40°	8308.5	54.0
0°-60°	12952.8	84.1
0°-90°	14869.6	96.6
90°-120°	424.3	2.8
90°-150°	522.7	3.4
90°-180°	527.0	3.4
0°-180°	15397.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6183	6183	6183	6183	6183	
5°	6214	6348	6529	6616	6577	593
15°	6222	6388	6175	6388	6364	1763
25°	6254	6136	6411	6238	6033	2893
35°	6332	6096	4915	3757	3450	3989
45°	6687	4190	2442	2418	2450	5147
55°	5876	1812	1615	1764	1772	5110
65°	2552	772	819	922	929	2621
75°	583	402	473	473	465	686
85°	63	244	362	362	354	91
90°	0	189	315	307	284	3
95°	0	150	252	228	213	0
105°	0	94	173	158	142	0
115°	0	55	118	118	118	0
125°	0	32	79	102	94	0
135°	0	16	47	55	55	0
145°	0	8	24	32	24	0
155°	0	8	8	16	8	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°	6182.8	6182.8	6182.8	6182.8	6182.8
2.5°	6222.1	6230.0	6253.6	6371.8	6419.0
5°	6214.3	6348.2	6529.3	6615.9	6576.6
7.5°	6214.3	6489.9	6489.9	6324.5	6214.3
10°	6214.3	6568.7	6214.3	6182.8	6174.9
12.5°	6214.3	6521.4	6096.1	6316.6	6340.3
15°	6222.1	6387.5	6174.9	6387.5	6363.9
17.5°	6222.1	6230.0	6269.4	6434.8	6466.3
20°	6230.0	6127.6	6293.0	6560.8	6537.2
22.5°	6245.8	6111.9	6340.3	6505.7	6363.9
25°	6253.6	6135.5	6411.2	6237.9	6033.1
27.5°	6253.6	6167.0	6324.5	5828.3	5489.7
30°	6253.6	6182.8	6017.4	5261.2	4883.2
32.5°	6285.1	6167.0	5544.8	4520.9	4111.3
35°	6332.4	6096.1	4914.7	3756.9	3449.7
37.5°	6395.4	5907.1	4174.3	3142.6	2937.8
40°	6482.0	5497.5	3465.5	2748.8	2685.8
42.5°	6584.4	4898.9	2882.7	2551.9	2551.9
45°	6686.8	4190.1	2441.6	2418.0	2449.5
47.5°	6734.1	3497.0	2197.4	2284.1	2315.6
50°	6655.3	2851.2	2016.3	2134.4	2150.2
52.5°	6379.7	2276.2	1811.5	1953.3	1992.7
55°	5875.6	1811.5	1614.6	1764.3	1772.1
57.5°	5143.1	1441.3	1409.8	1528.0	1520.1
60°	4300.4	1165.7	1181.4	1299.6	1299.6
62.5°	3394.6	945.1	992.4	1094.8	1086.9
65°	2551.9	771.9	819.1	921.5	929.4
67.5°	1882.4	638.0	693.1	764.0	748.2
70°	1315.3	535.6	590.7	630.1	614.3
72.5°	874.2	456.8	519.8	535.6	527.7
75°	582.8	401.7	472.6	472.6	464.7
77.5°	378.1	354.4	441.1	433.2	417.4
80°	236.3	315.0	409.6	393.8	378.1
82.5°	141.8	275.7	385.9	370.2	354.4
85°	63.0	244.2	362.3	362.3	354.4
87.5°	23.6	220.5	338.7	346.5	330.8
90°	0.0	189.0	315.0	307.2	283.5
92.5°	0.0	173.3	283.5	259.9	244.2
95°	0.0	149.6	252.0	228.4	212.7
97.5°	0.0	133.9	228.4	204.8	189.0
100°	0.0	118.1	204.8	181.2	165.4
102.5°	0.0	102.4	189.0	165.4	157.5
105°	0.0	94.5	173.3	157.5	141.8
107.5°	0.0	86.6	157.5	141.8	133.9
110°	0.0	70.9	141.8	133.9	126.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	63.0	126.0	126.0	126.0
115°	0.0	55.1	118.1	118.1	118.1
117.5°	0.0	47.3	102.4	118.1	118.1
120°	0.0	47.3	94.5	110.3	110.3
122.5°	0.0	39.4	86.6	110.3	110.3
125°	0.0	31.5	78.8	102.4	94.5
127.5°	0.0	23.6	70.9	86.6	86.6
130°	0.0	23.6	63.0	78.8	70.9
132.5°	0.0	15.8	55.1	63.0	63.0
135°	0.0	15.8	47.3	55.1	55.1
137.5°	0.0	15.8	39.4	47.3	39.4
140°	0.0	7.9	31.5	39.4	31.5
142.5°	0.0	7.9	31.5	39.4	31.5
145°	0.0	7.9	23.6	31.5	23.6
147.5°	0.0	7.9	15.8	23.6	23.6
150°	0.0	7.9	15.8	23.6	15.8
152.5°	0.0	7.9	15.8	15.8	7.9
155°	0.0	7.9	7.9	15.8	7.9
157.5°	0.0	7.9	7.9	7.9	7.9
160°	7.9	7.9	7.9	7.9	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)