

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: P218278

Luminaire Tested: **8TSNLED-LD5-170HL-LN-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218278  
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: 8TSNLED-LD5-170HL-LN-UNV-L850-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16492.0 lumens  
Efficiency: N/A  
Efficacy: 133.4 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.04 / 1.17  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 8' x H: 0.17')  
CIE Type: Direct

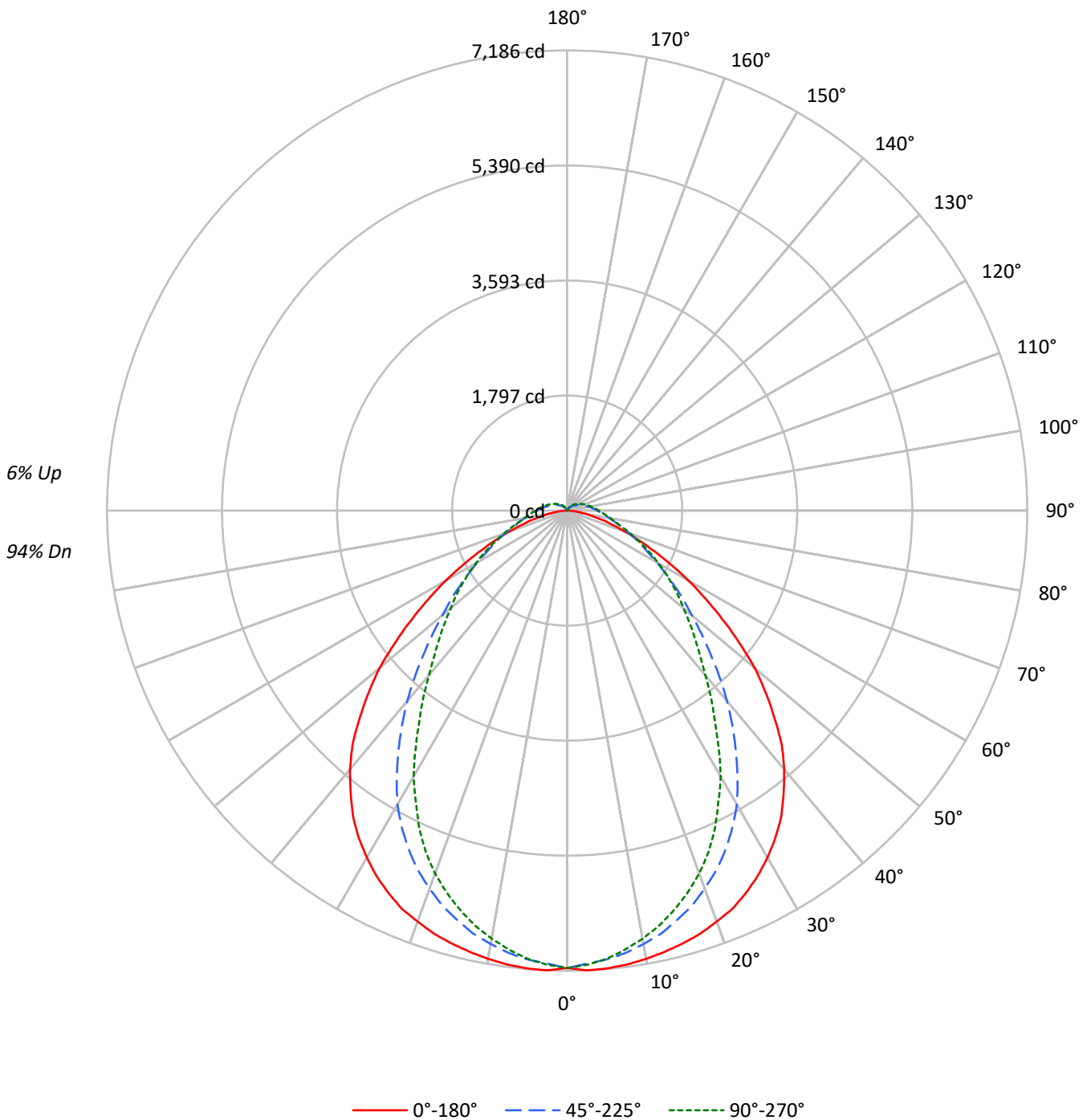
Input Watts (W): 123.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	114	114	114	108	108	108	102	102	102	97	97	97	94					94			
1	108	103	99	95	105	100	97	93	95	92	89	90	88	86	86	84	82	80					80			
2	99	91	85	79	96	89	83	78	84	79	75	80	76	73	77	73	70	68					68			
3	91	81	73	67	88	79	72	66	75	69	64	72	67	63	69	64	61	59					59			
4	84	73	64	58	81	71	63	57	68	61	56	65	59	55	62	57	53	51					51			
5	77	65	57	51	75	64	56	50	61	54	49	59	53	48	56	51	47	45					45			
6	72	59	51	45	70	58	50	44	56	49	44	54	47	43	52	46	42	40					40			
7	67	54	46	40	65	53	45	40	51	44	39	49	43	38	47	42	38	36					36			
8	63	50	42	36	61	49	41	36	47	40	35	45	39	35	44	38	34	32					32			
9	59	46	38	33	57	45	38	33	43	37	32	42	36	32	41	35	31	29					29			
10	55	42	35	30	54	42	35	30	40	34	29	39	33	29	38	32	29	27					27			

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

	0°	45°	90°
0°	57544	57544	57544
5°	57939	53539	52277
10°	57934	49879	47195
15°	58018	46275	42469
20°	58114	42655	37905
25°	58062	38892	33134
30°	57508	34804	28289
35°	56518	30030	23273
40°	54516	25439	19180
45°	51108	20929	16088
50°	46756	17095	13566
55°	40414	14122	11561
60°	34051	11572	9686
65°	27270	9622	8007
70°	21488	8096	6609
75°	16562	6883	5487
80°	11894	6094	4713
85°	7784	5557	4265



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	671.5	4.1
10°-20°	1884.5	11.4
20°-30°	2728.9	16.5
30°-40°	2970.1	18.0
40°-50°	2637.8	16.0
50°-60°	2007.8	12.2
60°-70°	1333.1	8.1
70°-80°	812.3	4.9
80°-90°	503.4	3.1
90°-100°	343.8	2.1
100°-110°	241.3	1.5
110°-120°	164.3	1.0
120°-130°	104.2	0.6
130°-140°	59.3	0.4
140°-150°	27.8	0.2
150°-160°	1.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5284.9	32.0
0°-40°	8255.0	50.1
0°-60°	12900.6	78.2
0°-90°	15549.3	94.3
90°-120°	749.4	4.5
90°-150°	940.7	5.7
90°-180°	943.0	5.7
0°-180°	16492.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7142	7142	7142	7142	7142	
5°	7177	7134	7038	7073	7029	683
15°	6995	6873	6621	6543	6456	1976
25°	6595	6300	5848	5613	5465	3037
35°	5830	5309	4596	4197	4023	3632
45°	4579	3893	3163	2893	2824	3526
55°	2963	2407	2042	2007	1998	2658
65°	1494	1286	1286	1338	1321	1507
75°	574	652	817	860	834	620
85°	104	330	556	591	574	124
90°	0	243	469	513	495	7
95°	0	191	400	443	434	0
105°	0	122	287	330	330	0
115°	0	78	208	252	243	0
125°	0	52	139	174	174	0
135°	0	35	96	122	122	0
145°	0	17	52	70	70	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



TEST NUMBER: P218278

CATALOG NUMBER: 8TSNLED-LD5-170HL-LN-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7142.3	7142.3	7142.3	7142.3	7142.3
2.5°	7185.7	7151.0	7081.5	7124.9	7098.8
5°	7177.0	7133.6	7038.0	7072.8	7029.3
7.5°	7151.0	7098.8	6968.5	6985.9	6916.4
10°	7107.5	7038.0	6872.9	6855.6	6786.0
12.5°	7055.4	6968.5	6768.7	6707.8	6638.3
15°	6994.6	6872.9	6621.0	6542.8	6455.9
17.5°	6925.1	6760.0	6473.2	6351.6	6256.0
20°	6829.5	6629.6	6282.1	6134.4	6030.1
22.5°	6733.9	6473.2	6082.2	5882.4	5769.4
25°	6594.9	6299.5	5847.6	5613.0	5465.3
27.5°	6438.5	6099.6	5587.0	5282.9	5117.8
30°	6256.0	5865.0	5300.2	4944.0	4796.3
32.5°	6056.2	5604.3	4952.7	4570.4	4405.3
35°	5830.3	5308.9	4596.4	4196.7	4023.0
37.5°	5552.2	4987.4	4240.2	3831.8	3692.8
40°	5274.2	4648.6	3883.9	3501.6	3353.9
42.5°	4961.4	4274.9	3519.0	3171.5	3067.2
45°	4579.1	3892.6	3162.8	2893.4	2823.9
47.5°	4205.4	3501.6	2841.3	2650.1	2589.3
50°	3823.1	3119.3	2537.2	2415.5	2372.1
52.5°	3380.0	2745.7	2285.2	2207.0	2189.6
55°	2962.9	2406.8	2041.9	2007.1	1998.4
57.5°	2563.2	2085.3	1816.0	1842.0	1824.7
60°	2189.6	1789.9	1616.1	1650.9	1642.2
62.5°	1824.7	1520.6	1433.7	1503.2	1485.8
65°	1494.5	1286.0	1286.0	1338.1	1320.7
67.5°	1207.8	1094.8	1146.9	1199.1	1181.7
70°	964.5	921.0	1025.3	1068.7	1051.4
72.5°	747.2	773.3	903.6	955.8	929.7
75°	573.5	651.7	816.8	860.2	834.1
77.5°	408.4	547.4	738.6	773.3	747.2
80°	286.7	460.5	669.0	703.8	677.7
82.5°	182.5	391.0	608.2	643.0	625.6
85°	104.3	330.2	556.1	590.8	573.5
87.5°	52.1	286.7	504.0	547.4	530.0
90°	0.0	243.3	469.2	512.6	495.3
92.5°	0.0	217.2	434.4	477.9	460.5
95°	0.0	191.2	399.7	443.1	434.4
97.5°	0.0	173.8	373.6	417.1	399.7
100°	0.0	147.7	338.9	382.3	373.6
102.5°	0.0	139.0	312.8	356.2	347.6
105°	0.0	121.6	286.7	330.2	330.2
107.5°	0.0	113.0	269.4	312.8	304.1
110°	0.0	95.6	243.3	286.7	286.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	86.9	225.9	269.4	260.7
115°	0.0	78.2	208.5	252.0	243.3
117.5°	0.0	78.2	191.2	225.9	225.9
120°	0.0	69.5	173.8	208.5	208.5
122.5°	0.0	60.8	156.4	191.2	191.2
125°	0.0	52.1	139.0	173.8	173.8
127.5°	0.0	52.1	130.3	165.1	165.1
130°	0.0	43.4	113.0	147.7	147.7
132.5°	0.0	34.8	104.3	130.3	130.3
135°	0.0	34.8	95.6	121.6	121.6
137.5°	0.0	26.1	78.2	104.3	104.3
140°	0.0	26.1	69.5	95.6	95.6
142.5°	0.0	17.4	60.8	86.9	78.2
145°	0.0	17.4	52.1	69.5	69.5
147.5°	0.0	8.7	43.4	60.8	60.8
150°	0.0	8.7	34.8	52.1	43.4
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)