

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: P218277

Luminaire Tested: **8TSNLED-LD5-170HL-LN-UNV-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218277  
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-L840-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15246.0 lumens  
Efficiency: N/A  
Efficacy: 123.3 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

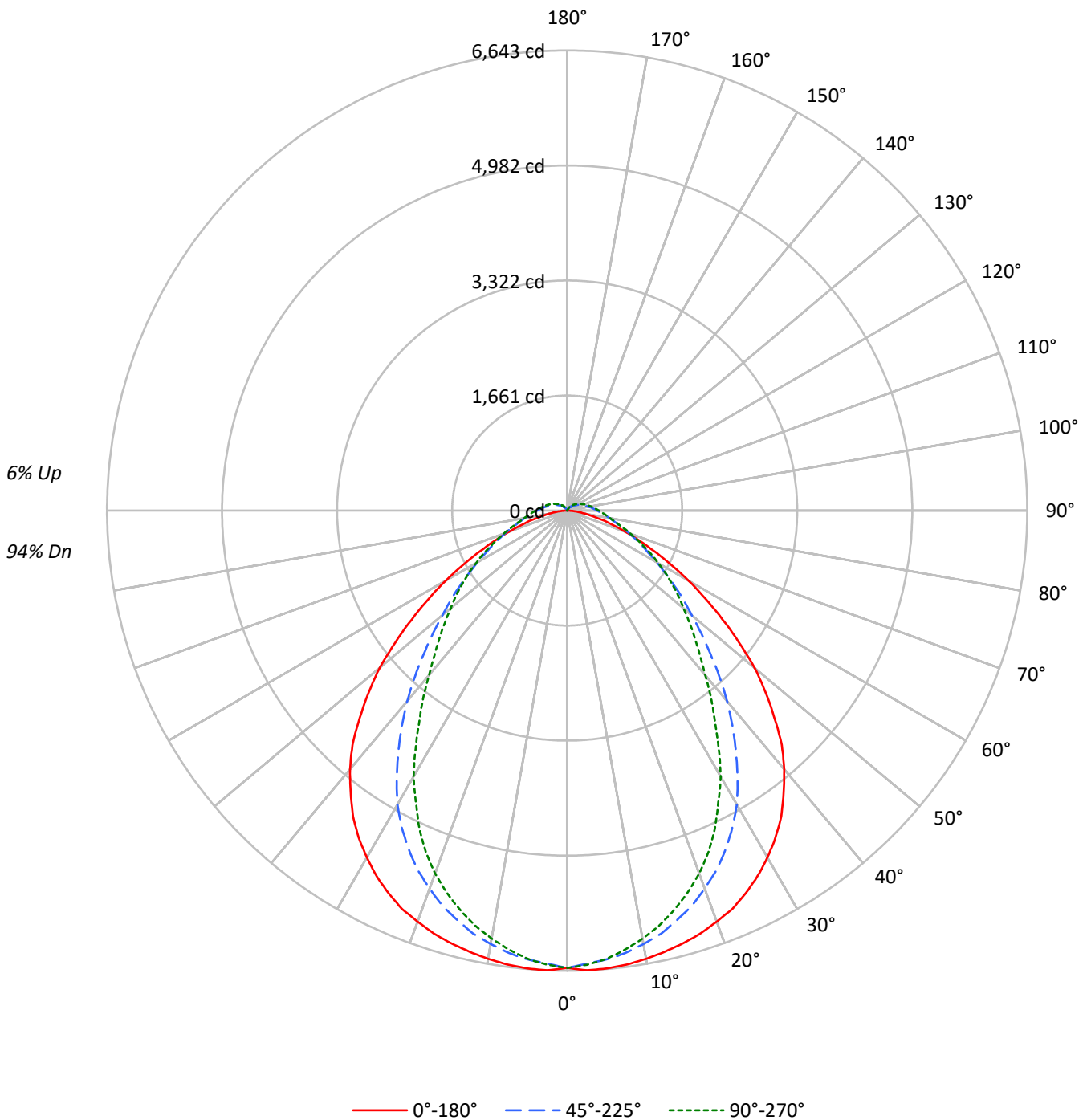
Input Watts (W): 123.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	53197	53197	53197
5°	53562	49495	48328
10°	53557	46111	43630
15°	53634	42779	39260
20°	53723	39432	35041
25°	53675	35954	30631
30°	53163	32175	26151
35°	52248	27761	21514
40°	50397	23518	17731
45°	47246	19348	14872
50°	43224	15803	12541
55°	37361	13055	10688
60°	31479	10698	8954
65°	25210	8894	7402
70°	19864	7484	6109
75°	15309	6363	5073
80°	10998	5634	4357
85°	7195	5137	3942



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	620.7	4.1
10°-20°	1742.1	11.4
20°-30°	2522.8	16.5
30°-40°	2745.7	18.0
40°-50°	2438.5	16.0
50°-60°	1856.1	12.2
60°-70°	1232.4	8.1
70°-80°	750.9	4.9
80°-90°	465.3	3.1
90°-100°	317.8	2.1
100°-110°	223.1	1.5
110°-120°	151.9	1.0
120°-130°	96.4	0.6
130°-140°	54.8	0.4
140°-150°	25.7	0.2
150°-160°	1.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4885.6	32.0
0°-40°	7631.3	50.1
0°-60°	11925.9	78.2
0°-90°	14374.5	94.3
90°-120°	692.8	4.5
90°-150°	869.7	5.7
90°-180°	871.0	5.7
0°-180°	15246.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6603	6603	6603	6603	6603	
5°	6635	6595	6506	6538	6498	631
15°	6466	6354	6121	6048	5968	1827
25°	6097	5824	5406	5189	5052	2807
35°	5390	4908	4249	3880	3719	3358
45°	4233	3598	2924	2675	2610	3260
55°	2739	2225	1888	1856	1848	2457
65°	1382	1189	1189	1237	1221	1393
75°	530	602	755	795	771	573
85°	96	305	514	546	530	115
90°	0	225	434	474	458	7
95°	0	177	370	410	402	0
105°	0	112	265	305	305	0
115°	0	72	193	233	225	0
125°	0	48	128	161	161	0
135°	0	32	88	112	112	0
145°	0	16	48	64	64	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°	6602.7	6602.7	6602.7	6602.7	6602.7
2.5°	6642.8	6610.7	6546.4	6586.6	6562.5
5°	6634.8	6594.6	6506.3	6538.4	6498.3
7.5°	6610.7	6562.5	6442.0	6458.1	6393.8
10°	6570.5	6506.3	6353.7	6337.6	6273.3
12.5°	6522.3	6442.0	6257.3	6201.1	6136.8
15°	6466.1	6353.7	6120.7	6048.4	5968.1
17.5°	6401.9	6249.2	5984.2	5871.7	5783.4
20°	6313.5	6128.8	5807.5	5670.9	5574.5
22.5°	6225.1	5984.2	5622.7	5438.0	5333.5
25°	6096.6	5823.5	5405.8	5189.0	5052.4
27.5°	5952.0	5638.8	5164.9	4883.7	4731.1
30°	5783.4	5421.9	4899.8	4570.5	4433.9
32.5°	5598.6	5180.9	4578.5	4225.1	4072.5
35°	5389.8	4907.8	4249.2	3879.7	3719.0
37.5°	5132.7	4610.6	3919.8	3542.3	3413.8
40°	4875.7	4297.4	3590.5	3237.1	3100.5
42.5°	4586.5	3952.0	3253.1	2931.8	2835.5
45°	4233.1	3598.5	2923.8	2674.8	2610.5
47.5°	3887.7	3237.1	2626.6	2449.9	2393.7
50°	3534.3	2883.6	2345.5	2233.0	2192.9
52.5°	3124.6	2538.3	2112.5	2040.2	2024.2
55°	2739.1	2225.0	1887.6	1855.5	1847.5
57.5°	2369.6	1927.8	1678.8	1702.9	1686.8
60°	2024.2	1654.7	1494.0	1526.2	1518.1
62.5°	1686.8	1405.7	1325.4	1389.6	1373.5
65°	1381.6	1188.8	1188.8	1237.0	1220.9
67.5°	1116.5	1012.1	1060.3	1108.5	1092.4
70°	891.6	851.4	947.8	988.0	971.9
72.5°	690.8	714.9	835.4	883.6	859.5
75°	530.1	602.4	755.1	795.2	771.1
77.5°	377.5	506.0	682.8	714.9	690.8
80°	265.1	425.7	618.5	650.6	626.5
82.5°	168.7	361.5	562.3	594.4	578.3
85°	96.4	305.2	514.1	546.2	530.1
87.5°	48.2	265.1	465.9	506.0	490.0
90°	0.0	224.9	433.8	473.9	457.8
92.5°	0.0	200.8	401.6	441.8	425.7
95°	0.0	176.7	369.5	409.7	401.6
97.5°	0.0	160.6	345.4	385.6	369.5
100°	0.0	136.6	313.3	353.4	345.4
102.5°	0.0	128.5	289.2	329.3	321.3
105°	0.0	112.5	265.1	305.2	305.2
107.5°	0.0	104.4	249.0	289.2	281.1
110°	0.0	88.4	224.9	265.1	265.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	80.3	208.8	249.0	241.0
115°	0.0	72.3	192.8	232.9	224.9
117.5°	0.0	72.3	176.7	208.8	208.8
120°	0.0	64.3	160.6	192.8	192.8
122.5°	0.0	56.2	144.6	176.7	176.7
125°	0.0	48.2	128.5	160.6	160.6
127.5°	0.0	48.2	120.5	152.6	152.6
130°	0.0	40.2	104.4	136.6	136.6
132.5°	0.0	32.1	96.4	120.5	120.5
135°	0.0	32.1	88.4	112.5	112.5
137.5°	0.0	24.1	72.3	96.4	96.4
140°	0.0	24.1	64.3	88.4	88.4
142.5°	0.0	16.1	56.2	80.3	72.3
145°	0.0	16.1	48.2	64.3	64.3
147.5°	0.0	8.0	40.2	56.2	56.2
150°	0.0	8.0	32.1	48.2	40.2
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)