

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: P218275

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218275
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-L830-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14070.0 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: 8' x H: 0.17')
CIE Type: Direct

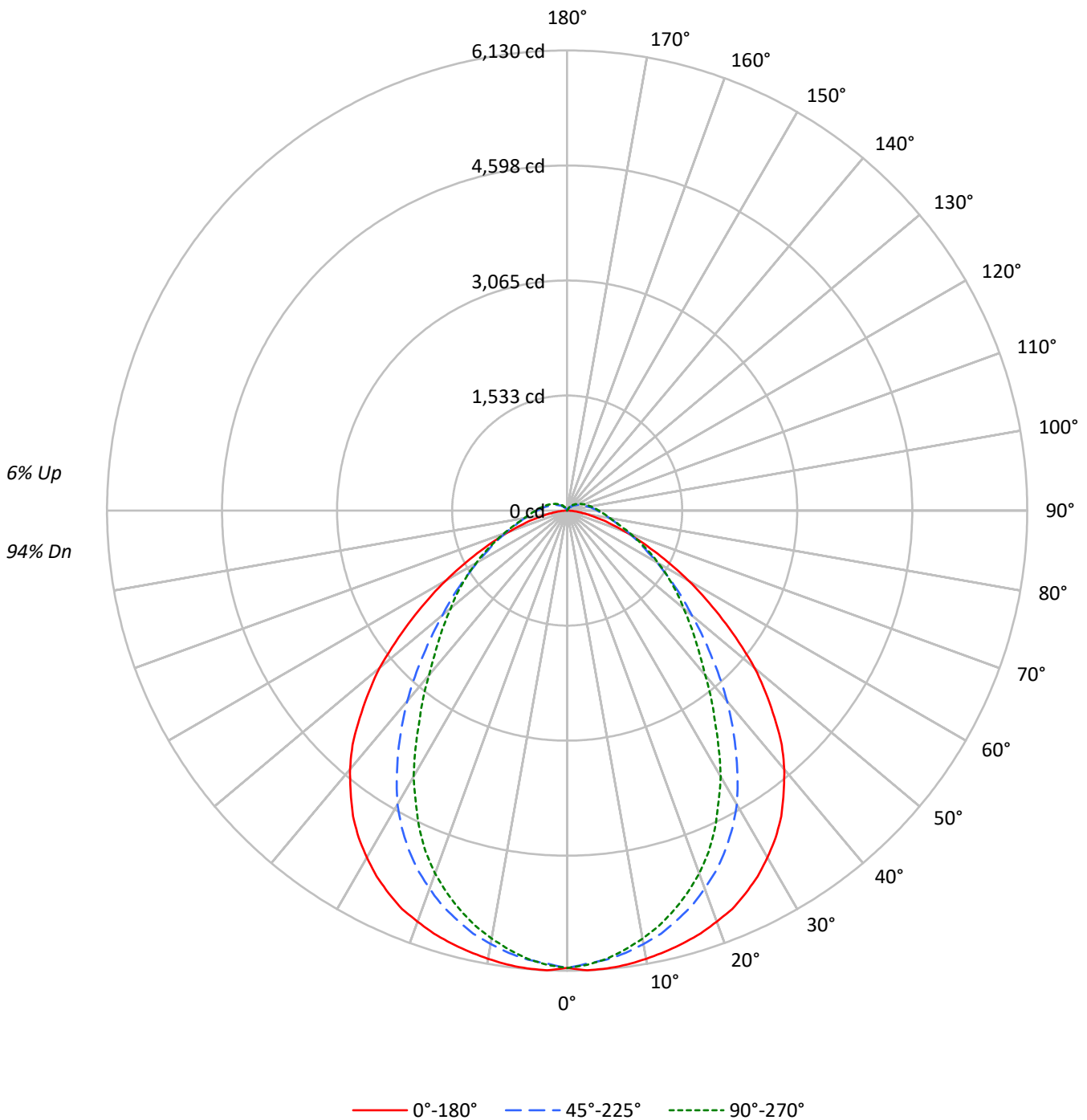
Input Watts (W): 123.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	49430	45676	44599
10°	49426	42554	40264
15°	49497	39479	36232
20°	49579	36391	32338
25°	49535	33181	28268
30°	49063	29692	24134
35°	48217	25620	19855
40°	46510	21704	16364
45°	43602	17855	13725
50°	39890	14585	11573
55°	34479	12048	9863
60°	29050	9873	8263
65°	23265	8208	6831
70°	18331	6907	5639
75°	14128	5872	4681
80°	10147	5199	4021
85°	6642	4741	3638



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.9	4.1
10°-20°	1607.7	11.4
20°-30°	2328.2	16.5
30°-40°	2533.9	18.0
40°-50°	2250.4	16.0
50°-60°	1713.0	12.2
60°-70°	1137.3	8.1
70°-80°	693.0	4.9
80°-90°	429.4	3.1
90°-100°	293.3	2.1
100°-110°	205.8	1.5
110°-120°	140.2	1.0
120°-130°	88.9	0.6
130°-140°	50.6	0.4
140°-150°	23.7	0.2
150°-160°	1.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4508.8	32.0
0°-40°	7042.6	50.1
0°-60°	11006.0	78.2
0°-90°	13265.8	94.3
90°-120°	639.4	4.5
90°-150°	802.6	5.7
90°-180°	804.0	5.7
0°-180°	14070.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6093	6093	6093	6093	6093	
5°	6123	6086	6004	6034	5997	582
15°	5967	5864	5649	5582	5508	1686
25°	5626	5374	4989	4789	4663	2591
35°	4974	4529	3921	3580	3432	3099
45°	3907	3321	2698	2468	2409	3009
55°	2528	2053	1742	1712	1705	2268
65°	1275	1097	1097	1142	1127	1286
75°	489	556	697	734	712	529
85°	89	282	474	504	489	106
90°	0	208	400	437	422	6
95°	0	163	341	378	371	0
105°	0	104	245	282	282	0
115°	0	67	178	215	208	0
125°	0	44	119	148	148	0
135°	0	30	82	104	104	0
145°	0	15	44	59	59	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°	6093.4	6093.4	6093.4	6093.4	6093.4
2.5°	6130.4	6100.8	6041.5	6078.5	6056.3
5°	6123.0	6086.0	6004.4	6034.1	5997.0
7.5°	6100.8	6056.3	5945.1	5959.9	5900.6
10°	6063.7	6004.4	5863.6	5848.8	5789.4
12.5°	6019.2	5945.1	5774.6	5722.7	5663.4
15°	5967.4	5863.6	5648.6	5581.9	5507.8
17.5°	5908.1	5767.2	5522.6	5418.8	5337.3
20°	5826.5	5656.0	5359.5	5233.5	5144.5
22.5°	5745.0	5522.6	5189.0	5018.5	4922.1
25°	5626.4	5374.3	4988.9	4788.7	4662.7
27.5°	5492.9	5203.8	4766.5	4507.0	4366.2
30°	5337.3	5003.7	4521.8	4217.9	4091.9
32.5°	5166.8	4781.3	4225.3	3899.2	3758.3
35°	4974.0	4529.3	3921.4	3580.4	3432.2
37.5°	4736.8	4255.0	3617.5	3269.1	3150.5
40°	4499.6	3965.9	3313.6	2987.4	2861.4
42.5°	4232.7	3647.1	3002.2	2705.7	2616.7
45°	3906.6	3321.0	2698.3	2468.5	2409.2
47.5°	3587.8	2987.4	2424.0	2260.9	2209.0
50°	3261.7	2661.2	2164.6	2060.8	2023.7
52.5°	2883.6	2342.5	1949.6	1882.9	1868.0
55°	2527.8	2053.4	1742.0	1712.4	1705.0
57.5°	2186.8	1779.1	1549.3	1571.5	1556.7
60°	1868.0	1527.1	1378.8	1408.4	1401.0
62.5°	1556.7	1297.3	1223.1	1282.4	1267.6
65°	1275.0	1097.1	1097.1	1141.6	1126.8
67.5°	1030.4	934.0	978.5	1023.0	1008.1
70°	822.8	785.8	874.7	911.8	897.0
72.5°	637.5	659.7	770.9	815.4	793.2
75°	489.2	556.0	696.8	733.9	711.6
77.5°	348.4	467.0	630.1	659.7	637.5
80°	244.6	392.9	570.8	600.4	578.2
82.5°	155.7	333.6	518.9	548.6	533.7
85°	89.0	281.7	474.4	504.1	489.2
87.5°	44.5	244.6	429.9	467.0	452.2
90°	0.0	207.6	400.3	437.4	422.5
92.5°	0.0	185.3	370.6	407.7	392.9
95°	0.0	163.1	341.0	378.1	370.6
97.5°	0.0	148.3	318.8	355.8	341.0
100°	0.0	126.0	289.1	326.2	318.8
102.5°	0.0	118.6	266.9	303.9	296.5
105°	0.0	103.8	244.6	281.7	281.7
107.5°	0.0	96.4	229.8	266.9	259.5
110°	0.0	81.5	207.6	244.6	244.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	74.1	192.7	229.8	222.4
115°	0.0	66.7	177.9	215.0	207.6
117.5°	0.0	66.7	163.1	192.7	192.7
120°	0.0	59.3	148.3	177.9	177.9
122.5°	0.0	51.9	133.4	163.1	163.1
125°	0.0	44.5	118.6	148.3	148.3
127.5°	0.0	44.5	111.2	140.8	140.8
130°	0.0	37.1	96.4	126.0	126.0
132.5°	0.0	29.7	89.0	111.2	111.2
135°	0.0	29.7	81.5	103.8	103.8
137.5°	0.0	22.2	66.7	89.0	89.0
140°	0.0	22.2	59.3	81.5	81.5
142.5°	0.0	14.8	51.9	74.1	66.7
145°	0.0	14.8	44.5	59.3	59.3
147.5°	0.0	7.4	37.1	51.9	51.9
150°	0.0	7.4	29.7	44.5	37.1
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)