

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: P218158

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218158
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-L850-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16988.0 lumens
Efficiency: N/A
Efficacy: 137.4 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

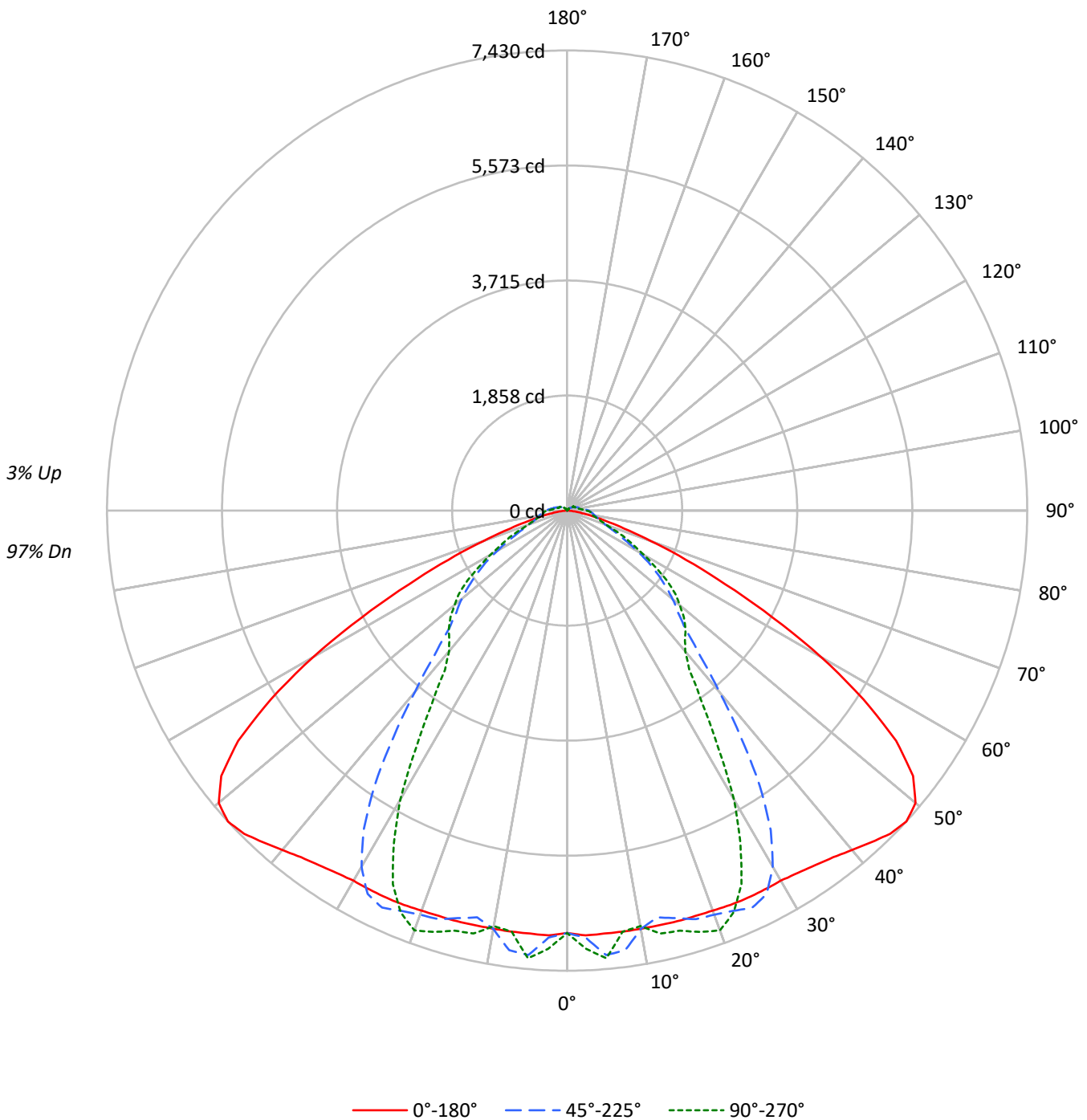
Input Watts (W): 123.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	54960	54960	54960
5°	55351	54802	53963
10°	55887	49759	47382
15°	56944	47616	46190
20°	58491	47144	45339
25°	60746	47046	40356
30°	63426	43596	31777
35°	67728	35427	22019
40°	73924	25045	16947
45°	82344	17826	15397
50°	89804	14989	13567
55°	88424	12321	11311
60°	73787	9334	8457
65°	51377	6762	6217
70°	32331	5146	4261
75°	18572	4394	3373
80°	10815	4116	2901
85°	5187	3994	2908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	670.5	3.9
10°-20°	1974.9	11.6
20°-30°	3138.1	18.5
30°-40°	3383.6	19.9
40°-50°	2916.3	17.2
50°-60°	2207.9	13.0
60°-70°	1192.7	7.0
70°-80°	566.5	3.3
80°-90°	355.7	2.1
90°-100°	226.3	1.3
100°-110°	144.8	0.9
110°-120°	96.9	0.6
120°-130°	64.0	0.4
130°-140°	31.3	0.2
140°-150°	13.3	0.1
150°-160°	4.8	0.0
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	5783.5	34.0
0°-40°	9167.0	54.0
0°-60°	14291.2	84.1
0°-90°	16406.1	96.6
90°-120°	468.1	2.8
90°-150°	576.7	3.4
90°-180°	582.0	3.4
0°-180°	16988.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6822	6822	6822	6822	6822	
5°	6856	7004	7204	7300	7256	654
15°	6865	7048	6813	7048	7022	1946
25°	6900	6770	7074	6882	6656	3191
35°	6987	6726	5422	4145	3806	4401
45°	7378	4623	2694	2668	2703	5679
55°	6483	1999	1781	1947	1955	5638
65°	2816	852	904	1017	1025	2891
75°	643	443	521	521	513	757
85°	70	269	400	400	391	100
90°	0	209	348	339	313	4
95°	0	165	278	252	235	0
105°	0	104	191	174	156	0
115°	0	61	130	130	130	0
125°	0	35	87	113	104	0
135°	0	17	52	61	61	0
145°	0	9	26	35	26	0
155°	0	9	9	17	9	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°	6821.6	6821.6	6821.6	6821.6	6821.6
2.5°	6865.1	6873.8	6899.8	7030.2	7082.3
5°	6856.4	7004.1	7204.0	7299.6	7256.1
7.5°	6856.4	7160.5	7160.5	6978.0	6856.4
10°	6856.4	7247.4	6856.4	6821.6	6812.9
12.5°	6856.4	7195.3	6726.0	6969.4	6995.4
15°	6865.1	7047.6	6812.9	7047.6	7021.5
17.5°	6865.1	6873.8	6917.2	7099.7	7134.5
20°	6873.8	6760.8	6943.3	7238.7	7212.7
22.5°	6891.1	6743.4	6995.4	7177.9	7021.5
25°	6899.8	6769.5	7073.6	6882.5	6656.5
27.5°	6899.8	6804.2	6978.0	6430.6	6056.9
30°	6899.8	6821.6	6639.1	5804.9	5387.8
32.5°	6934.6	6804.2	6117.7	4988.0	4536.2
35°	6986.7	6726.0	5422.5	4145.1	3806.2
37.5°	7056.3	6517.5	4605.7	3467.3	3241.4
40°	7151.8	6065.6	3823.6	3032.8	2963.3
42.5°	7264.8	5405.2	3180.5	2815.6	2815.6
45°	7377.8	4623.1	2693.9	2667.8	2702.6
47.5°	7429.9	3858.3	2424.5	2520.1	2554.9
50°	7343.0	3145.8	2224.6	2355.0	2372.4
52.5°	7038.9	2511.4	1998.7	2155.1	2198.6
55°	6482.7	1998.7	1781.4	1946.6	1955.2
57.5°	5674.6	1590.3	1555.5	1685.9	1677.2
60°	4744.7	1286.1	1303.5	1433.8	1433.8
62.5°	3745.4	1042.8	1094.9	1207.9	1199.2
65°	2815.6	851.6	903.8	1016.7	1025.4
67.5°	2076.9	703.9	764.7	842.9	825.5
70°	1451.2	590.9	651.7	695.2	677.8
72.5°	964.6	504.0	573.5	590.9	582.2
75°	643.1	443.2	521.4	521.4	512.7
77.5°	417.1	391.0	486.6	477.9	460.6
80°	260.7	347.6	451.9	434.5	417.1
82.5°	156.4	304.1	425.8	408.4	391.0
85°	69.5	269.4	399.7	399.7	391.0
87.5°	26.1	243.3	373.7	382.4	365.0
90°	0.0	208.6	347.6	338.9	312.8
92.5°	0.0	191.2	312.8	286.8	269.4
95°	0.0	165.1	278.1	252.0	234.6
97.5°	0.0	147.7	252.0	225.9	208.6
100°	0.0	130.3	225.9	199.9	182.5
102.5°	0.0	113.0	208.6	182.5	173.8
105°	0.0	104.3	191.2	173.8	156.4
107.5°	0.0	95.6	173.8	156.4	147.7
110°	0.0	78.2	156.4	147.7	139.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	69.5	139.0	139.0	139.0
115°	0.0	60.8	130.3	130.3	130.3
117.5°	0.0	52.1	113.0	130.3	130.3
120°	0.0	52.1	104.3	121.7	121.7
122.5°	0.0	43.4	95.6	121.7	121.7
125°	0.0	34.8	86.9	113.0	104.3
127.5°	0.0	26.1	78.2	95.6	95.6
130°	0.0	26.1	69.5	86.9	78.2
132.5°	0.0	17.4	60.8	69.5	69.5
135°	0.0	17.4	52.1	60.8	60.8
137.5°	0.0	17.4	43.4	52.1	43.4
140°	0.0	8.7	34.8	43.4	34.8
142.5°	0.0	8.7	34.8	43.4	34.8
145°	0.0	8.7	26.1	34.8	26.1
147.5°	0.0	8.7	17.4	26.1	26.1
150°	0.0	8.7	17.4	26.1	17.4
152.5°	0.0	8.7	17.4	17.4	8.7
155°	0.0	8.7	8.7	17.4	8.7
157.5°	0.0	8.7	8.7	8.7	8.7
160°	8.7	8.7	8.7	8.7	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)