

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: P218038

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218038  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35691)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8TSNLED-LD5-170HL-UNV-L850-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18510.0 lumens  
Efficiency: N/A  
Efficacy: 149.8 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.28 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 8' x H: 0.17')  
CIE Type: Direct

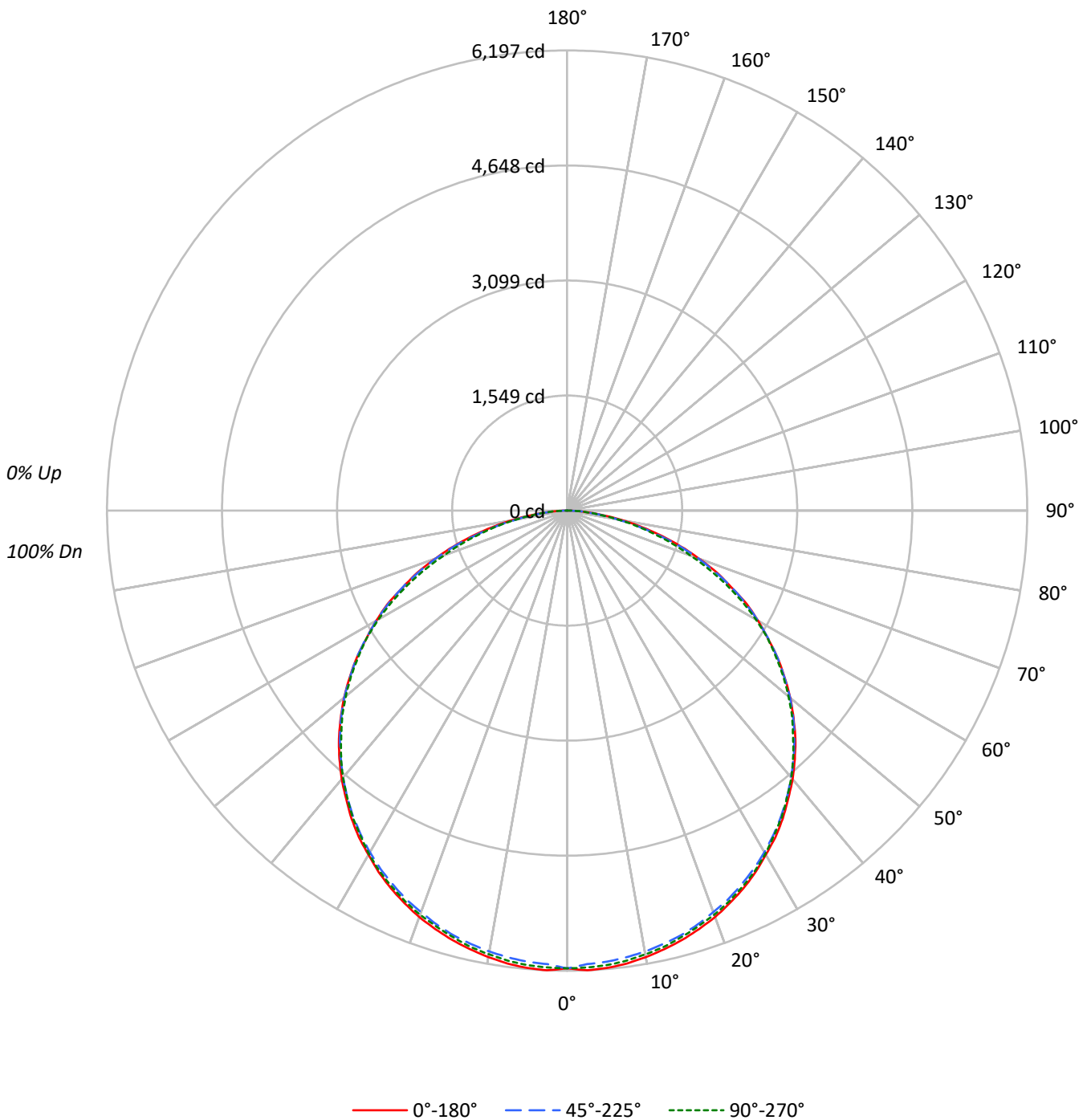
Input Watts (W): 123.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	70	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	36	29	25	23

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

	0°	45°	90°
0°	49667	49667	49667
5°	49921	46408	45703
10°	49779	43763	42206
15°	49647	41385	39122
20°	49569	39075	36417
25°	49427	36956	33881
30°	49194	34889	31488
35°	49086	32830	29144
40°	48832	30734	26871
45°	48513	28636	24508
50°	47991	26397	22258
55°	47238	23953	19849
60°	46192	21269	17330
65°	44505	18296	14359
70°	42071	14810	11106
75°	38268	10681	7959
80°	31604	6356	4942
85°	21024	2751	2000



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	584.2	3.2
10°-20°	1681.8	9.1
20°-30°	2576.8	13.9
30°-40°	3153.9	17.0
40°-50°	3337.6	18.0
50°-60°	3086.9	16.7
60°-70°	2397.0	12.9
70°-80°	1350.2	7.3
80°-90°	341.5	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4842.8	26.2
0°-40°	7996.8	43.2
0°-60°	14421.3	77.9
0°-90°	18510.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18510.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6165	6165	6165	6165	6165	
5°	6184	6158	6101	6158	6145	588
15°	5985	5966	5921	5973	5947	1690
25°	5614	5595	5556	5601	5588	2588
35°	5064	5044	5025	5038	5038	3166
45°	4347	4340	4327	4321	4302	3350
55°	3463	3476	3463	3450	3431	3089
65°	2439	2458	2445	2413	2368	2420
75°	1325	1325	1268	1236	1210	1396
85°	282	282	275	275	269	351
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6164.6	6164.6	6164.6	6164.6	6164.6
2.5°	6196.6	6171.0	6113.4	6171.0	6158.2
5°	6183.8	6158.2	6100.6	6158.2	6145.4
7.5°	6151.8	6132.6	6068.6	6126.2	6113.4
10°	6107.0	6087.8	6030.2	6087.8	6068.6
12.5°	6049.4	6030.2	5979.0	6030.2	6017.4
15°	5985.4	5966.2	5921.3	5972.6	5947.0
17.5°	5908.5	5895.7	5844.5	5895.7	5870.1
20°	5825.3	5799.7	5754.9	5806.1	5793.3
22.5°	5722.9	5710.1	5665.3	5710.1	5697.3
25°	5614.1	5594.9	5556.5	5601.3	5588.5
27.5°	5492.5	5479.6	5441.2	5473.2	5473.2
30°	5351.6	5345.2	5313.2	5345.2	5338.8
32.5°	5217.2	5204.4	5172.4	5198.0	5185.2
35°	5063.6	5044.3	5025.1	5037.9	5037.9
37.5°	4890.7	4884.3	4865.1	4884.3	4865.1
40°	4724.3	4711.5	4692.3	4698.7	4698.7
42.5°	4538.6	4532.2	4513.0	4513.0	4506.6
45°	4346.6	4340.2	4327.4	4321.0	4301.8
47.5°	4135.3	4128.9	4128.9	4122.5	4109.7
50°	3924.1	3924.1	3917.7	3898.5	3892.1
52.5°	3693.6	3706.4	3687.2	3674.4	3668.0
55°	3463.2	3476.0	3463.2	3450.4	3431.2
57.5°	3207.1	3232.7	3213.5	3207.1	3200.7
60°	2970.3	2983.1	2970.3	2951.1	2938.3
62.5°	2727.0	2727.0	2707.8	2695.0	2656.6
65°	2439.0	2458.2	2445.4	2413.4	2368.5
67.5°	2182.9	2170.1	2157.3	2118.9	2067.7
70°	1888.4	1894.8	1875.6	1818.0	1766.8
72.5°	1606.8	1619.6	1581.2	1504.3	1491.5
75°	1325.1	1325.1	1267.5	1235.5	1209.9
77.5°	1037.0	1043.4	966.6	960.2	953.8
80°	761.8	774.6	697.8	717.0	710.6
82.5°	518.5	505.7	473.7	473.7	467.3
85°	281.7	281.7	275.3	275.3	268.9
87.5°	108.8	115.2	128.0	140.8	134.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)