

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: P218138

Luminaire Tested: **8TSNLED-LD5-83SL-LC-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218138  
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-LD5-83SL-LC-UNV-L850-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9403.0 lumens  
Efficiency: N/A  
Efficacy: 153.7 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

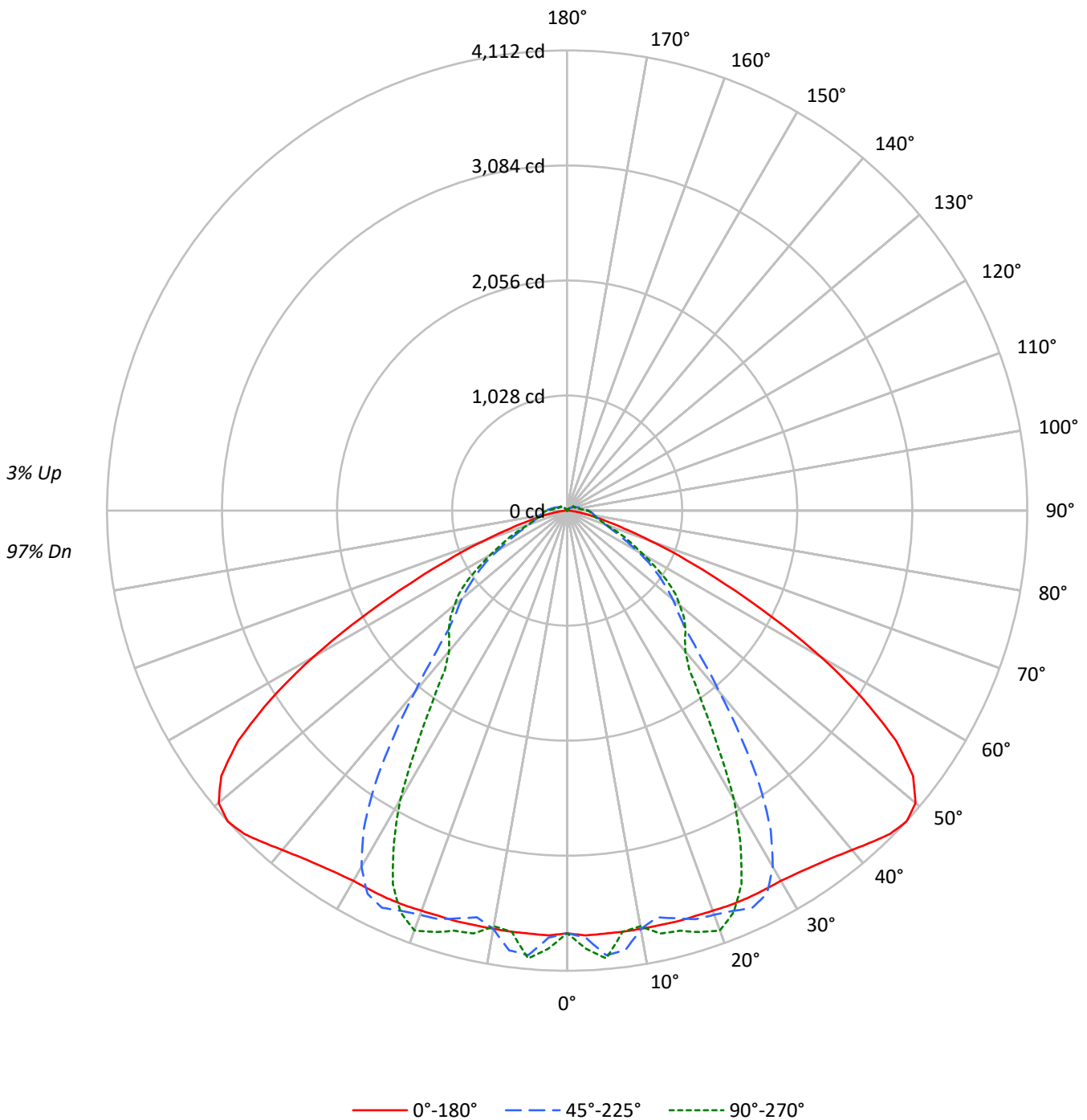
Input Watts (W): 61.16  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	109	105	101	98	106	102	99	96	97	95	92	93	91	89	89	87	85	83
2	100	93	87	82	98	91	85	81	87	82	78	83	79	76	80	77	74	72
3	93	83	76	70	90	81	75	69	78	72	67	75	70	66	72	68	64	62
4	85	75	67	60	83	73	66	60	70	64	59	68	62	58	65	60	57	54
5	79	67	59	53	77	66	58	53	64	57	52	61	55	51	59	54	50	48
6	73	61	53	47	71	60	52	47	58	51	46	56	50	45	54	49	45	43
7	68	56	48	42	66	55	47	42	53	46	41	51	45	41	50	44	40	38
8	64	51	43	38	62	50	43	37	49	42	37	47	41	37	46	40	36	34
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	31
10	56	44	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	28

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

	0°	45°	90°
0°	30421	30421	30421
5°	30637	30334	29869
10°	30934	27542	26227
15°	31519	26356	25567
20°	32375	26095	25096
25°	33623	26040	22337
30°	35107	24131	17589
35°	37488	19609	12188
40°	40918	13862	9380
45°	45579	9867	8522
50°	49707	8297	7509
55°	48943	6820	6260
60°	40841	5166	4681
65°	28436	3742	3441
70°	17897	2848	2359
75°	10278	2432	1867
80°	5986	2278	1606
85°	2873	2211	1609



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	371.1	3.9
10°-20°	1093.1	11.6
20°-30°	1737.0	18.5
30°-40°	1872.8	19.9
40°-50°	1614.2	17.2
50°-60°	1222.1	13.0
60°-70°	660.2	7.0
70°-80°	313.6	3.3
80°-90°	196.9	2.1
90°-100°	125.3	1.3
100°-110°	80.2	0.9
110°-120°	53.7	0.6
120°-130°	35.4	0.4
130°-140°	17.3	0.2
140°-150°	7.4	0.1
150°-160°	2.7	0.0
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	3201.2	34.0
0°-40°	5074.0	54.0
0°-60°	7910.3	84.1
0°-90°	9080.9	96.6
90°-120°	259.1	2.8
90°-150°	319.2	3.4
90°-180°	322.0	3.4
0°-180°	9403.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3776	3776	3776	3776	3776	
5°	3795	3877	3988	4040	4016	362
15°	3800	3901	3771	3901	3886	1077
25°	3819	3747	3915	3810	3684	1767
35°	3867	3723	3001	2294	2107	2436
45°	4084	2559	1491	1477	1496	3144
55°	3588	1106	986	1077	1082	3121
65°	1558	471	500	563	568	1600
75°	356	245	289	289	284	419
85°	38	149	221	221	216	56
90°	0	115	192	188	173	2
95°	0	91	154	140	130	0
105°	0	58	106	96	87	0
115°	0	34	72	72	72	0
125°	0	19	48	62	58	0
135°	0	10	29	34	34	0
145°	0	5	14	19	14	0
155°	0	5	5	10	5	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°	3775.8	3775.8	3775.8	3775.8	3775.8
2.5°	3799.9	3804.7	3819.1	3891.3	3920.1
5°	3795.1	3876.8	3987.5	4040.4	4016.3
7.5°	3795.1	3963.4	3963.4	3862.4	3795.1
10°	3795.1	4011.5	3795.1	3775.8	3771.0
12.5°	3795.1	3982.7	3722.9	3857.6	3872.0
15°	3799.9	3900.9	3771.0	3900.9	3886.5
17.5°	3799.9	3804.7	3828.7	3929.7	3949.0
20°	3804.7	3742.2	3843.2	4006.7	3992.3
22.5°	3814.3	3732.5	3872.0	3973.0	3886.5
25°	3819.1	3747.0	3915.3	3809.5	3684.4
27.5°	3819.1	3766.2	3862.4	3559.4	3352.6
30°	3819.1	3775.8	3674.8	3213.1	2982.2
32.5°	3838.4	3766.2	3386.2	2760.9	2510.8
35°	3867.2	3722.9	3001.4	2294.4	2106.8
37.5°	3905.7	3607.5	2549.3	1919.2	1794.1
40°	3958.6	3357.4	2116.4	1678.7	1640.2
42.5°	4021.1	2991.8	1760.4	1558.4	1558.4
45°	4083.7	2558.9	1491.1	1476.7	1495.9
47.5°	4112.5	2135.6	1342.0	1394.9	1414.1
50°	4064.4	1741.2	1231.4	1303.5	1313.1
52.5°	3896.1	1390.1	1106.3	1192.9	1216.9
55°	3588.2	1106.3	986.0	1077.4	1082.2
57.5°	3140.9	880.2	861.0	933.1	928.3
60°	2626.2	711.9	721.5	793.6	793.6
62.5°	2073.1	577.2	606.1	668.6	663.8
65°	1558.4	471.4	500.2	562.8	567.6
67.5°	1149.6	389.6	423.3	466.6	456.9
70°	803.3	327.1	360.7	384.8	375.2
72.5°	533.9	279.0	317.5	327.1	322.3
75°	355.9	245.3	288.6	288.6	283.8
77.5°	230.9	216.4	269.4	264.5	254.9
80°	144.3	192.4	250.1	240.5	230.9
82.5°	86.6	168.3	235.7	226.1	216.4
85°	38.5	149.1	221.3	221.3	216.4
87.5°	14.4	134.7	206.8	211.6	202.0
90°	0.0	115.4	192.4	187.6	173.2
92.5°	0.0	105.8	173.2	158.7	149.1
95°	0.0	91.4	153.9	139.5	129.9
97.5°	0.0	81.8	139.5	125.1	115.4
100°	0.0	72.1	125.1	110.6	101.0
102.5°	0.0	62.5	115.4	101.0	96.2
105°	0.0	57.7	105.8	96.2	86.6
107.5°	0.0	52.9	96.2	86.6	81.8
110°	0.0	43.3	86.6	81.8	77.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	38.5	77.0	77.0	77.0
115°	0.0	33.7	72.1	72.1	72.1
117.5°	0.0	28.9	62.5	72.1	72.1
120°	0.0	28.9	57.7	67.3	67.3
122.5°	0.0	24.0	52.9	67.3	67.3
125°	0.0	19.2	48.1	62.5	57.7
127.5°	0.0	14.4	43.3	52.9	52.9
130°	0.0	14.4	38.5	48.1	43.3
132.5°	0.0	9.6	33.7	38.5	38.5
135°	0.0	9.6	28.9	33.7	33.7
137.5°	0.0	9.6	24.0	28.9	24.0
140°	0.0	4.8	19.2	24.0	19.2
142.5°	0.0	4.8	19.2	24.0	19.2
145°	0.0	4.8	14.4	19.2	14.4
147.5°	0.0	4.8	9.6	14.4	14.4
150°	0.0	4.8	9.6	14.4	9.6
152.5°	0.0	4.8	9.6	9.6	4.8
155°	0.0	4.8	4.8	9.6	4.8
157.5°	0.0	4.8	4.8	4.8	4.8
160°	4.8	4.8	4.8	4.8	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)