

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: P218270

Luminaire Tested: **8TSNLED-LD5-106SL-LN-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218270  
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-LD5-106SL-LN-UNV-L850-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11893.0 lumens  
Efficiency: N/A  
Efficacy: 138.9 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

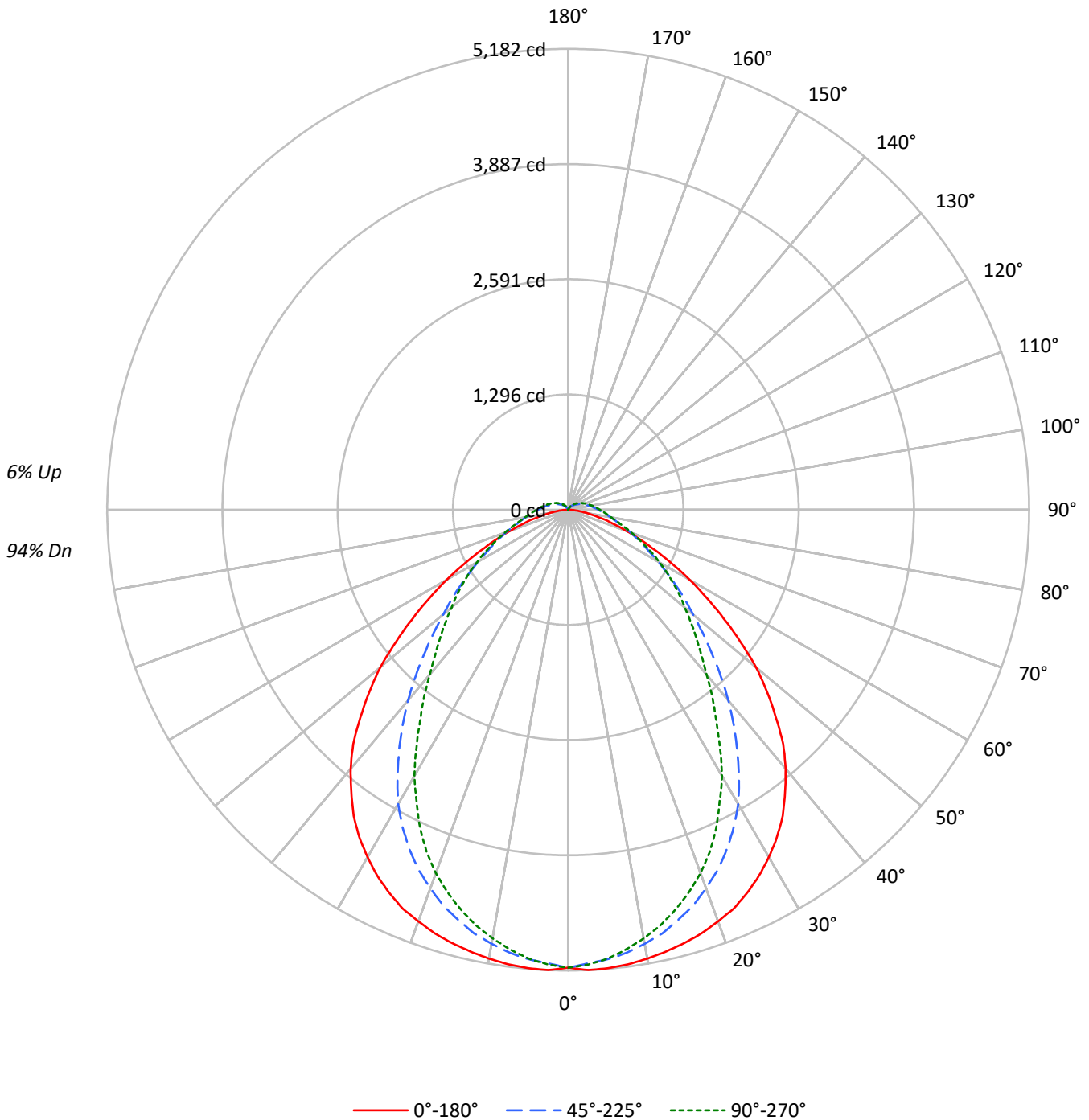
Input Watts (W): 85.64  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	41497	41497	41497
5°	41782	38609	37699
10°	41779	35970	34035
15°	41838	33370	30626
20°	41908	30760	27335
25°	41870	28047	23895
30°	41471	25098	20400
35°	40757	21656	16783
40°	39313	18346	13831
45°	36855	15093	11601
50°	33718	12327	9783
55°	29145	10184	8337
60°	24556	8346	6985
65°	19665	6939	5774
70°	15495	5838	4766
75°	11942	4963	3957
80°	8579	4395	3399
85°	5612	4007	3075



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	484.2	4.1
10°-20°	1359.0	11.4
20°-30°	1967.9	16.5
30°-40°	2141.8	18.0
40°-50°	1902.2	16.0
50°-60°	1447.9	12.2
60°-70°	961.4	8.1
70°-80°	585.8	4.9
80°-90°	363.0	3.1
90°-100°	247.9	2.1
100°-110°	174.0	1.5
110°-120°	118.5	1.0
120°-130°	75.2	0.6
130°-140°	42.7	0.4
140°-150°	20.1	0.2
150°-160°	1.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3811.1	32.0
0°-40°	5953.0	50.1
0°-60°	9303.1	78.2
0°-90°	11213.2	94.3
90°-120°	540.4	4.5
90°-150°	678.4	5.7
90°-180°	680.0	5.7
0°-180°	11893.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5151	5151	5151	5151	5151	
5°	5176	5144	5075	5100	5069	492
15°	5044	4956	4775	4718	4656	1425
25°	4756	4543	4217	4048	3941	2190
35°	4204	3828	3315	3026	2901	2619
45°	3302	2807	2281	2086	2036	2543
55°	2137	1736	1472	1447	1441	1917
65°	1078	927	927	965	952	1087
75°	414	470	589	620	602	447
85°	75	238	401	426	414	89
90°	0	175	338	370	357	5
95°	0	138	288	320	313	0
105°	0	88	207	238	238	0
115°	0	56	150	182	175	0
125°	0	38	100	125	125	0
135°	0	25	69	88	88	0
145°	0	12	38	50	50	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°	5150.6	5150.6	5150.6	5150.6	5150.6
2.5°	5181.9	5156.8	5106.7	5138.0	5119.2
5°	5175.6	5144.3	5075.4	5100.4	5069.1
7.5°	5156.8	5119.2	5025.3	5037.8	4987.7
10°	5125.5	5075.4	4956.3	4943.8	4893.7
12.5°	5087.9	5025.3	4881.1	4837.3	4787.1
15°	5044.0	4956.3	4774.6	4718.2	4655.6
17.5°	4993.9	4874.9	4668.1	4580.4	4511.4
20°	4925.0	4780.9	4530.2	4423.7	4348.5
22.5°	4856.1	4668.1	4386.1	4242.0	4160.6
25°	4755.8	4542.8	4217.0	4047.8	3941.3
27.5°	4643.0	4398.7	4029.0	3809.7	3690.6
30°	4511.4	4229.5	3822.2	3565.3	3458.8
32.5°	4367.3	4041.5	3571.6	3295.9	3176.8
35°	4204.4	3828.5	3314.7	3026.4	2901.1
37.5°	4003.9	3596.6	3057.8	2763.3	2663.0
40°	3803.4	3352.3	2800.9	2525.2	2418.6
42.5°	3577.8	3082.8	2537.7	2287.1	2211.9
45°	3302.1	2807.1	2280.8	2086.5	2036.4
47.5°	3032.7	2525.2	2048.9	1911.1	1867.2
50°	2757.0	2249.5	1829.6	1741.9	1710.6
52.5°	2437.4	1980.0	1647.9	1591.5	1579.0
55°	2136.7	1735.7	1472.5	1447.4	1441.2
57.5°	1848.4	1503.8	1309.6	1328.4	1315.8
60°	1579.0	1290.8	1165.5	1190.5	1184.3
62.5°	1315.8	1096.5	1033.9	1084.0	1071.5
65°	1077.7	927.4	927.4	964.9	952.4
67.5°	871.0	789.5	827.1	864.7	852.2
70°	695.5	664.2	739.4	770.7	758.2
72.5°	538.9	557.7	651.7	689.2	670.5
75°	413.5	469.9	589.0	620.3	601.5
77.5°	294.5	394.8	532.6	557.7	538.9
80°	206.8	332.1	482.5	507.5	488.7
82.5°	131.6	282.0	438.6	463.7	451.1
85°	75.2	238.1	401.0	426.1	413.5
87.5°	37.6	206.8	363.4	394.8	382.2
90°	0.0	175.4	338.4	369.7	357.2
92.5°	0.0	156.6	313.3	344.6	332.1
95°	0.0	137.8	288.2	319.6	313.3
97.5°	0.0	125.3	269.4	300.8	288.2
100°	0.0	106.5	244.4	275.7	269.4
102.5°	0.0	100.3	225.6	256.9	250.6
105°	0.0	87.7	206.8	238.1	238.1
107.5°	0.0	81.5	194.2	225.6	219.3
110°	0.0	68.9	175.4	206.8	206.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	62.7	162.9	194.2	188.0
115°	0.0	56.4	150.4	181.7	175.4
117.5°	0.0	56.4	137.8	162.9	162.9
120°	0.0	50.1	125.3	150.4	150.4
122.5°	0.0	43.9	112.8	137.8	137.8
125°	0.0	37.6	100.3	125.3	125.3
127.5°	0.0	37.6	94.0	119.1	119.1
130°	0.0	31.3	81.5	106.5	106.5
132.5°	0.0	25.1	75.2	94.0	94.0
135°	0.0	25.1	68.9	87.7	87.7
137.5°	0.0	18.8	56.4	75.2	75.2
140°	0.0	18.8	50.1	68.9	68.9
142.5°	0.0	12.5	43.9	62.7	56.4
145°	0.0	12.5	37.6	50.1	50.1
147.5°	0.0	6.3	31.3	43.9	43.9
150°	0.0	6.3	25.1	37.6	31.3
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)