

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: P218150

Luminaire Tested: **8TSNLED-LD5-105SL-LC-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218150
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-LD5-105SL-LC-UNV-L850-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12250.0 lumens
Efficiency: N/A
Efficacy: 143.0 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

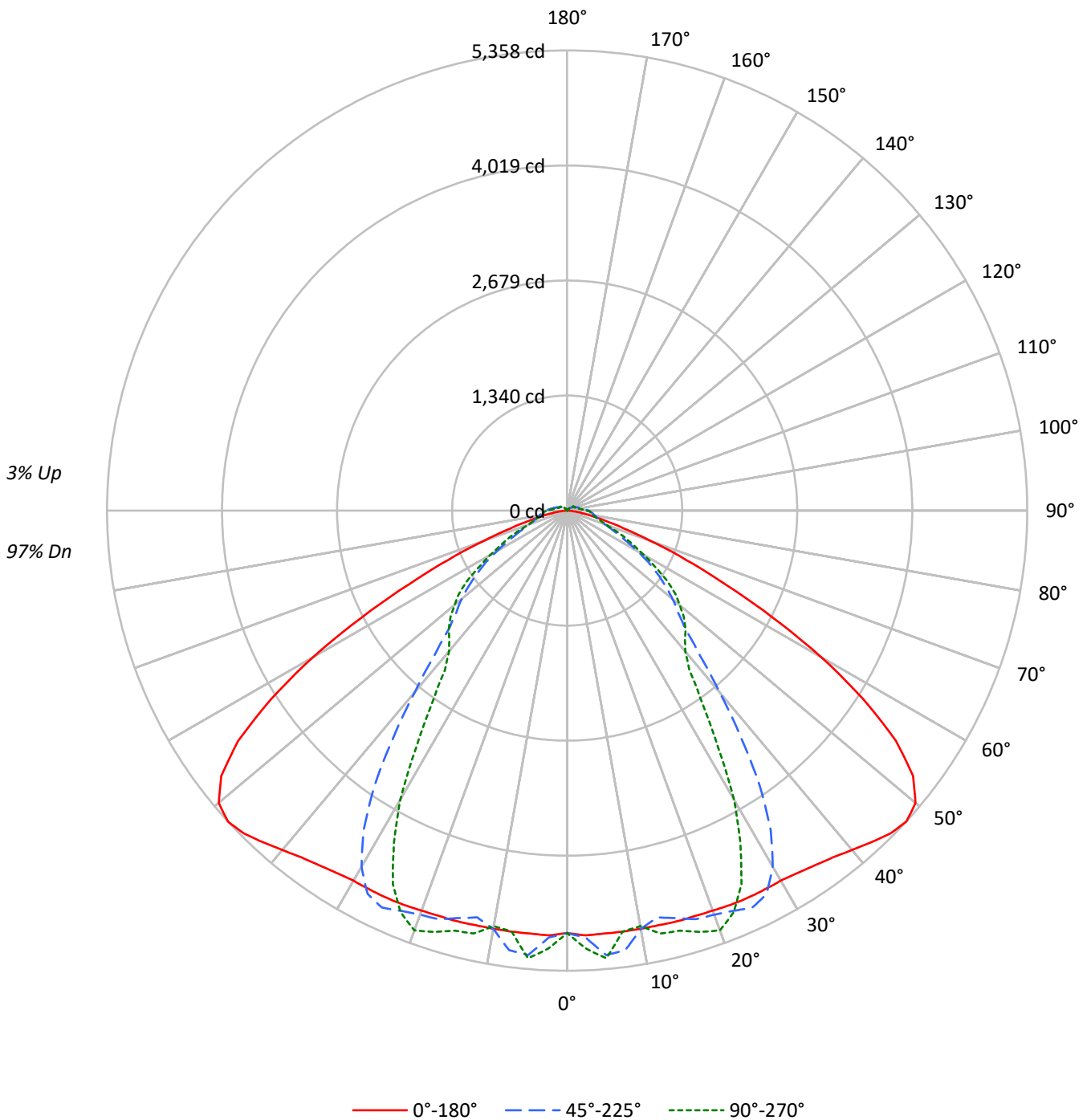
Input Watts (W): 85.64
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	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	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	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	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	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	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	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	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	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	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	40	34	30	28		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	39632	39632	39632
5°	39913	39518	38913
10°	40300	35881	34168
15°	41062	34336	33308
20°	42178	33996	32693
25°	43804	33925	29101
30°	45737	31437	22914
35°	48839	25546	15877
40°	53307	18060	12220
45°	59378	12855	11102
50°	64758	10809	9783
55°	63763	8885	8156
60°	53207	6730	6098
65°	37047	4876	4483
70°	23315	3711	3073
75°	13391	3168	2432
80°	7799	2968	2092
85°	3739	2881	2097



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.5	3.9
10°-20°	1424.1	11.6
20°-30°	2262.9	18.5
30°-40°	2439.9	19.9
40°-50°	2102.9	17.2
50°-60°	1592.1	13.0
60°-70°	860.1	7.0
70°-80°	408.5	3.3
80°-90°	256.5	2.1
90°-100°	163.2	1.3
100°-110°	104.4	0.9
110°-120°	69.9	0.6
120°-130°	46.1	0.4
130°-140°	22.6	0.2
140°-150°	9.6	0.1
150°-160°	3.5	0.0
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	4170.5	34.0
0°-40°	6610.3	54.0
0°-60°	10305.4	84.1
0°-90°	11830.4	96.6
90°-120°	337.6	2.8
90°-150°	415.9	3.4
90°-180°	420.0	3.4
0°-180°	12250.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4919	4919	4919	4919	4919	
5°	4944	5051	5195	5264	5232	472
15°	4950	5082	4913	5082	5063	1403
25°	4976	4882	5101	4963	4800	2301
35°	5038	4850	3910	2989	2745	3174
45°	5320	3334	1943	1924	1949	4095
55°	4675	1441	1285	1404	1410	4066
65°	2030	614	652	733	739	2085
75°	464	320	376	376	370	546
85°	50	194	288	288	282	72
90°	0	150	251	244	226	3
95°	0	119	200	182	169	0
105°	0	75	138	125	113	0
115°	0	44	94	94	94	0
125°	0	25	63	82	75	0
135°	0	12	38	44	44	0
145°	0	6	19	25	19	0
155°	0	6	6	12	6	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°	4919.1	4919.1	4919.1	4919.1	4919.1
2.5°	4950.4	4956.7	4975.5	5069.4	5107.0
5°	4944.1	5050.6	5194.8	5263.7	5232.4
7.5°	4944.1	5163.4	5163.4	5031.9	4944.1
10°	4944.1	5226.1	4944.1	4919.1	4912.8
12.5°	4944.1	5188.5	4850.1	5025.6	5044.4
15°	4950.4	5082.0	4912.8	5082.0	5063.2
17.5°	4950.4	4956.7	4988.0	5119.6	5144.6
20°	4956.7	4875.2	5006.8	5219.8	5201.0
22.5°	4969.2	4862.7	5044.4	5176.0	5063.2
25°	4975.5	4881.5	5100.8	4962.9	4800.0
27.5°	4975.5	4906.5	5031.9	4637.1	4367.6
30°	4975.5	4919.1	4787.5	4185.9	3885.1
32.5°	5000.5	4906.5	4411.5	3596.9	3271.0
35°	5038.1	4850.1	3910.2	2989.0	2744.6
37.5°	5088.2	4699.7	3321.1	2500.3	2337.3
40°	5157.2	4373.9	2757.2	2186.9	2136.8
42.5°	5238.6	3897.6	2293.5	2030.3	2030.3
45°	5320.1	3333.7	1942.6	1923.8	1948.8
47.5°	5357.7	2782.2	1748.3	1817.2	1842.3
50°	5295.0	2268.4	1604.2	1698.2	1710.7
52.5°	5075.7	1811.0	1441.3	1554.0	1585.4
55°	4674.7	1441.3	1284.6	1403.7	1409.9
57.5°	4091.9	1146.7	1121.7	1215.7	1209.4
60°	3421.4	927.4	939.9	1033.9	1033.9
62.5°	2700.8	752.0	789.6	871.0	864.8
65°	2030.3	614.1	651.7	733.2	739.4
67.5°	1497.6	507.6	551.4	607.8	595.3
70°	1046.5	426.1	470.0	501.3	488.8
72.5°	695.6	363.4	413.6	426.1	419.8
75°	463.7	319.6	376.0	376.0	369.7
77.5°	300.8	282.0	350.9	344.6	332.1
80°	188.0	250.7	325.8	313.3	300.8
82.5°	112.8	219.3	307.0	294.5	282.0
85°	50.1	194.3	288.3	288.3	282.0
87.5°	18.8	175.5	269.5	275.7	263.2
90°	0.0	150.4	250.7	244.4	225.6
92.5°	0.0	137.9	225.6	206.8	194.3
95°	0.0	119.1	200.5	181.7	169.2
97.5°	0.0	106.5	181.7	162.9	150.4
100°	0.0	94.0	162.9	144.1	131.6
102.5°	0.0	81.5	150.4	131.6	125.3
105°	0.0	75.2	137.9	125.3	112.8
107.5°	0.0	68.9	125.3	112.8	106.5
110°	0.0	56.4	112.8	106.5	100.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	50.1	100.3	100.3	100.3
115°	0.0	43.9	94.0	94.0	94.0
117.5°	0.0	37.6	81.5	94.0	94.0
120°	0.0	37.6	75.2	87.7	87.7
122.5°	0.0	31.3	68.9	87.7	87.7
125°	0.0	25.1	62.7	81.5	75.2
127.5°	0.0	18.8	56.4	68.9	68.9
130°	0.0	18.8	50.1	62.7	56.4
132.5°	0.0	12.5	43.9	50.1	50.1
135°	0.0	12.5	37.6	43.9	43.9
137.5°	0.0	12.5	31.3	37.6	31.3
140°	0.0	6.3	25.1	31.3	25.1
142.5°	0.0	6.3	25.1	31.3	25.1
145°	0.0	6.3	18.8	25.1	18.8
147.5°	0.0	6.3	12.5	18.8	18.8
150°	0.0	6.3	12.5	18.8	12.5
152.5°	0.0	6.3	12.5	12.5	6.3
155°	0.0	6.3	6.3	12.5	6.3
157.5°	0.0	6.3	6.3	6.3	6.3
160°	6.3	6.3	6.3	6.3	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)