

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: P218143

Luminaire Tested: **8TSNLED-LD5-98SL-LC-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218143  
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-LD5-98SL-LC-UNV-L830-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9674.9 lumens  
Efficiency: N/A  
Efficacy: 125.0 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

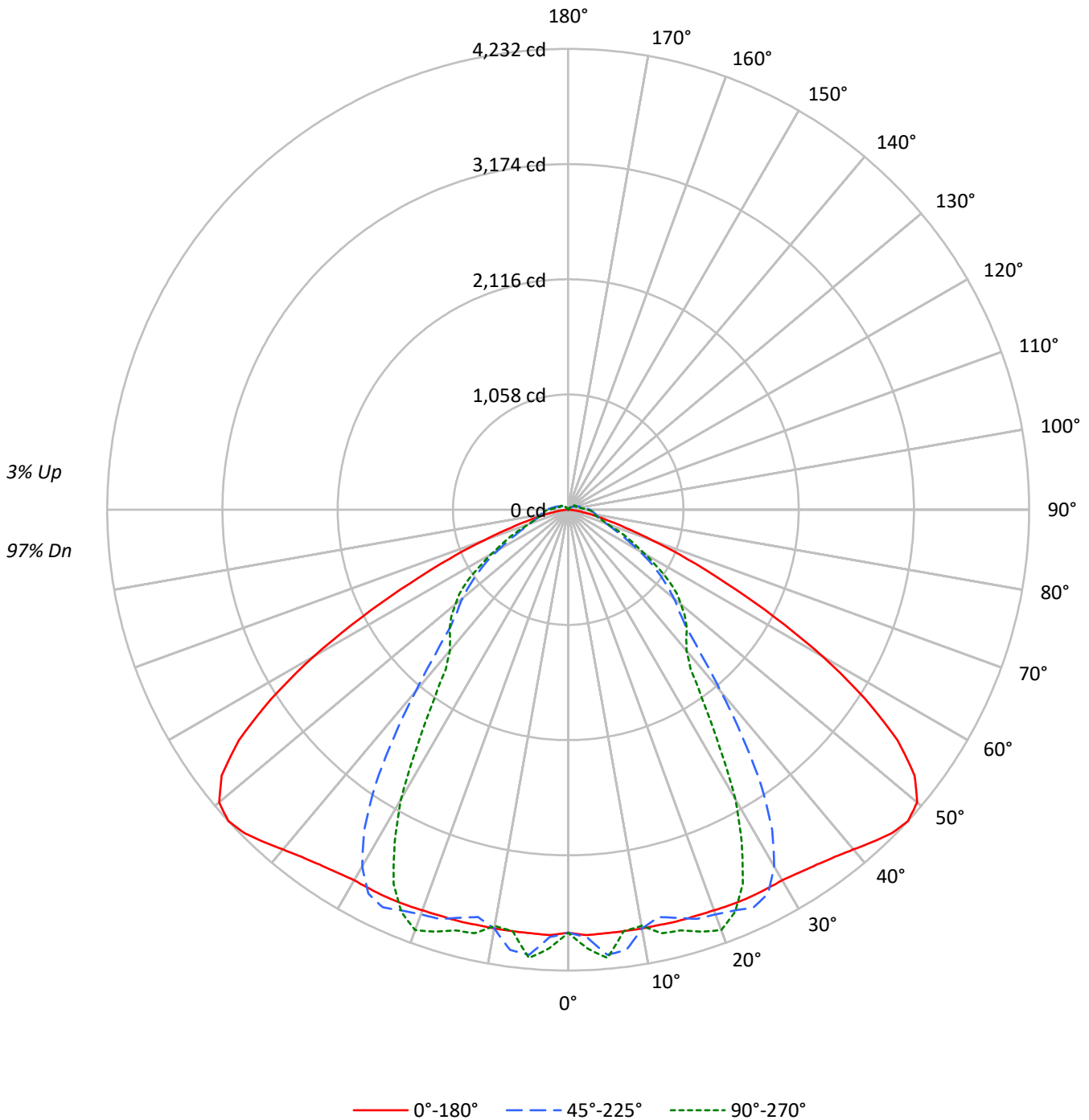
Input Watts (W): 77.38  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	31302	31302	31302
5°	31523	31211	30733
10°	31828	28339	26985
15°	32430	27119	26306
20°	33311	26849	25822
25°	34596	26794	22984
30°	36123	24829	18097
35°	38573	20176	12540
40°	42101	14263	9651
45°	46897	10152	8769
50°	51146	8537	7727
55°	50359	7017	6442
60°	42023	5316	4816
65°	29259	3851	3541
70°	18413	2931	2426
75°	10576	2502	1921
80°	6161	2345	1652
85°	2956	2275	1656



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	381.9	3.9
10°-20°	1124.7	11.6
20°-30°	1787.2	18.5
30°-40°	1927.0	19.9
40°-50°	1660.9	17.2
50°-60°	1257.4	13.0
60°-70°	679.3	7.0
70°-80°	322.6	3.3
80°-90°	202.6	2.1
90°-100°	128.9	1.3
100°-110°	82.5	0.9
110°-120°	55.2	0.6
120°-130°	36.4	0.4
130°-140°	17.8	0.2
140°-150°	7.6	0.1
150°-160°	2.7	0.0
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	3293.8	34.0
0°-40°	5220.8	54.0
0°-60°	8139.1	84.1
0°-90°	9343.6	96.6
90°-120°	266.6	2.8
90°-150°	328.4	3.4
90°-180°	331.0	3.4
0°-180°	9674.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3885	3885	3885	3885	3885	
5°	3905	3989	4103	4157	4132	373
15°	3910	4014	3880	4014	3999	1108
25°	3930	3855	4029	3920	3791	1818
35°	3979	3831	3088	2361	2168	2506
45°	4202	2633	1534	1519	1539	3234
55°	3692	1138	1015	1109	1114	3211
65°	1604	485	515	579	584	1647
75°	366	252	297	297	292	431
85°	40	153	228	228	223	57
90°	0	119	198	193	178	2
95°	0	94	158	144	134	0
105°	0	59	109	99	89	0
115°	0	35	74	74	74	0
125°	0	20	50	64	59	0
135°	0	10	30	35	35	0
145°	0	5	15	20	15	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°	3885.1	3885.1	3885.1	3885.1	3885.1
2.5°	3909.8	3914.7	3929.6	4003.8	4033.5
5°	3904.8	3989.0	4102.8	4157.3	4132.5
7.5°	3904.8	4078.1	4078.1	3974.1	3904.8
10°	3904.8	4127.6	3904.8	3885.1	3880.1
12.5°	3904.8	4097.9	3830.6	3969.2	3984.0
15°	3909.8	4013.7	3880.1	4013.7	3998.9
17.5°	3909.8	3914.7	3939.5	4043.4	4063.2
20°	3914.7	3850.4	3954.3	4122.6	4107.8
22.5°	3924.6	3840.5	3984.0	4088.0	3998.9
25°	3929.6	3855.4	4028.6	3919.7	3791.0
27.5°	3929.6	3875.2	3974.1	3662.3	3449.5
30°	3929.6	3885.1	3781.1	3306.0	3068.4
32.5°	3949.4	3875.2	3484.2	2840.8	2583.4
35°	3979.1	3830.6	3088.2	2360.7	2167.7
37.5°	4018.7	3711.8	2623.0	1974.7	1846.0
40°	4073.1	3454.5	2177.6	1727.2	1687.6
42.5°	4137.5	3078.3	1811.4	1603.5	1603.5
45°	4201.8	2632.9	1534.2	1519.4	1539.2
47.5°	4231.5	2197.4	1380.8	1435.2	1455.0
50°	4182.0	1791.6	1267.0	1341.2	1351.1
52.5°	4008.8	1430.3	1138.3	1227.4	1252.1
55°	3692.0	1138.3	1014.6	1108.6	1113.5
57.5°	3231.8	905.7	885.9	960.1	955.2
60°	2702.2	732.5	742.4	816.6	816.6
62.5°	2133.1	593.9	623.6	687.9	683.0
65°	1603.5	485.0	514.7	579.0	584.0
67.5°	1182.8	400.9	435.5	480.1	470.2
70°	826.5	336.5	371.2	395.9	386.0
72.5°	549.4	287.0	326.6	336.5	331.6
75°	366.2	252.4	296.9	296.9	292.0
77.5°	237.6	222.7	277.2	272.2	262.3
80°	148.5	198.0	257.4	247.5	237.6
82.5°	89.1	173.2	242.5	232.6	222.7
85°	39.6	153.4	227.7	227.7	222.7
87.5°	14.8	138.6	212.8	217.8	207.9
90°	0.0	118.8	198.0	193.0	178.2
92.5°	0.0	108.9	178.2	163.3	153.4
95°	0.0	94.0	158.4	143.5	133.6
97.5°	0.0	84.1	143.5	128.7	118.8
100°	0.0	74.2	128.7	113.8	103.9
102.5°	0.0	64.3	118.8	103.9	99.0
105°	0.0	59.4	108.9	99.0	89.1
107.5°	0.0	54.4	99.0	89.1	84.1
110°	0.0	44.5	89.1	84.1	79.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	39.6	79.2	79.2	79.2
115°	0.0	34.6	74.2	74.2	74.2
117.5°	0.0	29.7	64.3	74.2	74.2
120°	0.0	29.7	59.4	69.3	69.3
122.5°	0.0	24.7	54.4	69.3	69.3
125°	0.0	19.8	49.5	64.3	59.4
127.5°	0.0	14.8	44.5	54.4	54.4
130°	0.0	14.8	39.6	49.5	44.5
132.5°	0.0	9.9	34.6	39.6	39.6
135°	0.0	9.9	29.7	34.6	34.6
137.5°	0.0	9.9	24.7	29.7	24.7
140°	0.0	4.9	19.8	24.7	19.8
142.5°	0.0	4.9	19.8	24.7	19.8
145°	0.0	4.9	14.8	19.8	14.8
147.5°	0.0	4.9	9.9	14.8	14.8
150°	0.0	4.9	9.9	14.8	9.9
152.5°	0.0	4.9	9.9	9.9	4.9
155°	0.0	4.9	4.9	9.9	4.9
157.5°	0.0	4.9	4.9	4.9	4.9
160°	4.9	4.9	4.9	4.9	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)