

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: P218258

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218258  
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-LD5-83SL-LN-UNV-L850-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9128.0 lumens  
Efficiency: N/A  
Efficacy: 149.2 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

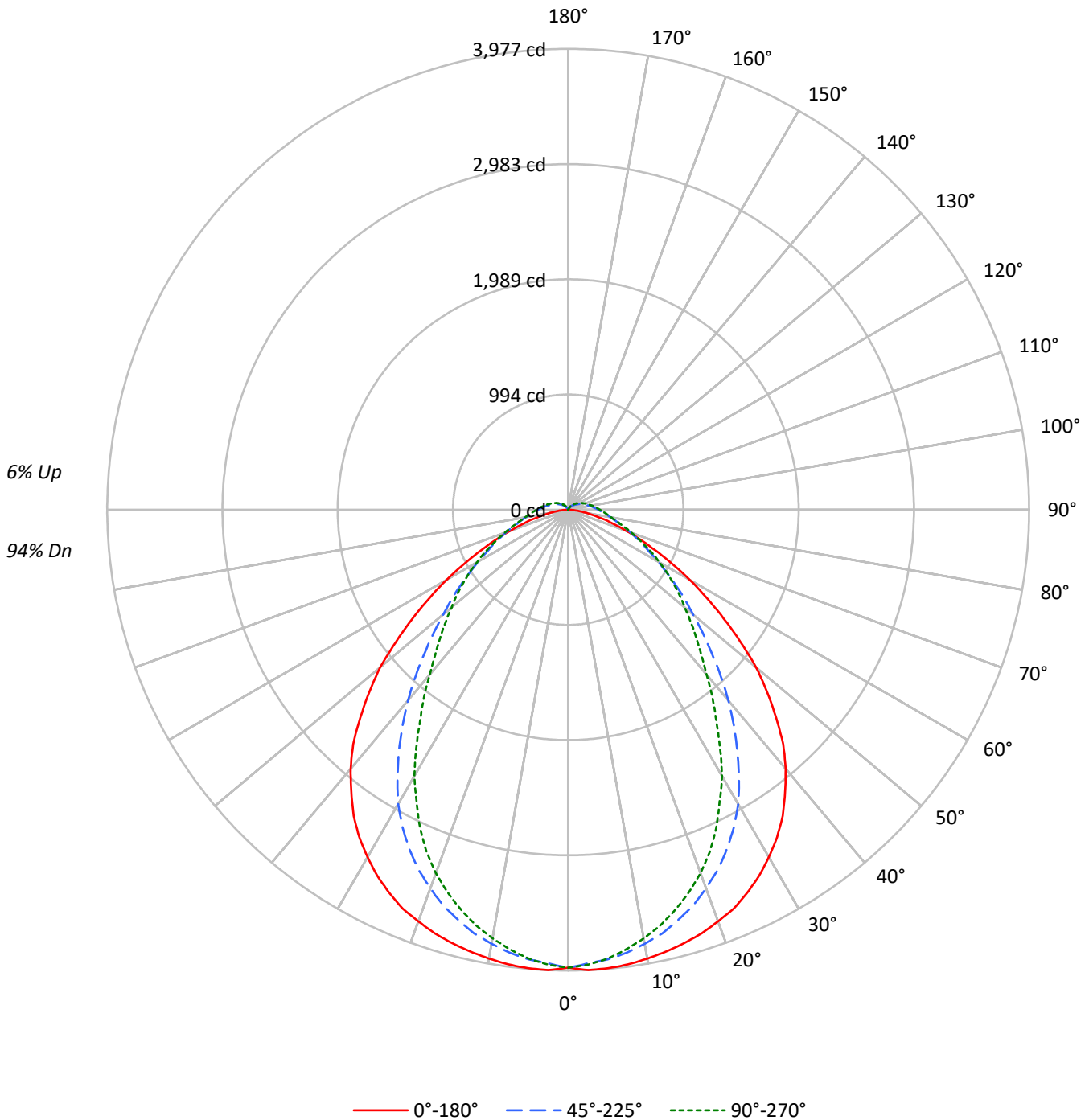
Input Watts (W): 61.16  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	31849	31849	31849
5°	32069	29633	28934
10°	32066	27607	26122
15°	32112	25612	23506
20°	32165	23609	20979
25°	32136	21526	18340
30°	31830	19263	15657
35°	31281	16621	12881
40°	30173	14081	10616
45°	28287	11584	8904
50°	25879	9462	7508
55°	22368	7816	6399
60°	18847	6405	5361
65°	15094	5326	4432
70°	11892	4481	3658
75°	9166	3810	3037
80°	6584	3373	2609
85°	4306	3076	2360



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	371.6	4.1
10°-20°	1043.0	11.4
20°-30°	1510.4	16.5
30°-40°	1643.9	18.0
40°-50°	1460.0	16.0
50°-60°	1111.3	12.2
60°-70°	737.9	8.1
70°-80°	449.6	4.9
80°-90°	278.6	3.1
90°-100°	190.3	2.1
100°-110°	133.5	1.5
110°-120°	91.0	1.0
120°-130°	57.7	0.6
130°-140°	32.8	0.4
140°-150°	15.4	0.2
150°-160°	1.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2925.1	32.0
0°-40°	4569.0	50.1
0°-60°	7140.2	78.2
0°-90°	8606.2	94.3
90°-120°	414.8	4.5
90°-150°	520.7	5.7
90°-180°	522.0	5.7
0°-180°	9128.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3953	3953	3953	3953	3953	
5°	3972	3948	3895	3915	3891	378
15°	3871	3804	3665	3621	3573	1094
25°	3650	3487	3237	3107	3025	1681
35°	3227	2938	2544	2323	2227	2010
45°	2534	2154	1750	1601	1563	1952
55°	1640	1332	1130	1111	1106	1471
65°	827	712	712	741	731	834
75°	317	361	452	476	462	343
85°	58	183	308	327	317	69
90°	0	135	260	284	274	4
95°	0	106	221	245	240	0
105°	0	67	159	183	183	0
115°	0	43	115	140	135	0
125°	0	29	77	96	96	0
135°	0	19	53	67	67	0
145°	0	10	29	38	38	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°	3953.1	3953.1	3953.1	3953.1	3953.1
2.5°	3977.2	3957.9	3919.5	3943.5	3929.1
5°	3972.4	3948.3	3895.4	3914.6	3890.6
7.5°	3957.9	3929.1	3856.9	3866.6	3828.1
10°	3933.9	3895.4	3804.0	3794.4	3755.9
12.5°	3905.0	3856.9	3746.3	3712.7	3674.2
15°	3871.4	3804.0	3664.6	3621.3	3573.2
17.5°	3832.9	3741.5	3582.8	3515.5	3462.6
20°	3780.0	3669.4	3477.0	3395.3	3337.5
22.5°	3727.1	3582.8	3366.4	3255.8	3193.3
25°	3650.1	3486.6	3236.6	3106.7	3025.0
27.5°	3563.6	3376.0	3092.3	2924.0	2832.6
30°	3462.6	3246.2	2933.6	2736.4	2654.6
32.5°	3352.0	3101.9	2741.2	2529.6	2438.2
35°	3226.9	2938.4	2544.0	2322.8	2226.6
37.5°	3073.0	2760.4	2346.9	2120.8	2043.9
40°	2919.1	2572.9	2149.7	1938.1	1856.3
42.5°	2746.0	2366.1	1947.7	1755.3	1697.6
45°	2534.4	2154.5	1750.5	1601.4	1563.0
47.5°	2327.6	1938.1	1572.6	1466.8	1433.1
50°	2116.0	1726.5	1404.3	1336.9	1312.9
52.5°	1870.8	1519.7	1264.8	1221.5	1211.9
55°	1639.9	1332.1	1130.1	1110.9	1106.1
57.5°	1418.7	1154.2	1005.1	1019.5	1009.9
60°	1211.9	990.7	894.5	913.7	908.9
62.5°	1009.9	841.6	793.5	832.0	822.4
65°	827.2	711.8	711.8	740.6	731.0
67.5°	668.5	606.0	634.8	663.7	654.0
70°	533.8	509.8	567.5	591.5	581.9
72.5°	413.6	428.0	500.2	529.0	514.6
75°	317.4	360.7	452.1	476.1	461.7
77.5°	226.0	303.0	408.8	428.0	413.6
80°	158.7	254.9	370.3	389.5	375.1
82.5°	101.0	216.4	336.6	355.9	346.3
85°	57.7	182.7	307.8	327.0	317.4
87.5°	28.9	158.7	278.9	303.0	293.4
90°	0.0	134.7	259.7	283.7	274.1
92.5°	0.0	120.2	240.5	264.5	254.9
95°	0.0	105.8	221.2	245.3	240.5
97.5°	0.0	96.2	206.8	230.8	221.2
100°	0.0	81.8	187.6	211.6	206.8
102.5°	0.0	76.9	173.1	197.2	192.4
105°	0.0	67.3	158.7	182.7	182.7
107.5°	0.0	62.5	149.1	173.1	168.3
110°	0.0	52.9	134.7	158.7	158.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	48.1	125.0	149.1	144.3
115°	0.0	43.3	115.4	139.5	134.7
117.5°	0.0	43.3	105.8	125.0	125.0
120°	0.0	38.5	96.2	115.4	115.4
122.5°	0.0	33.7	86.6	105.8	105.8
125°	0.0	28.9	76.9	96.2	96.2
127.5°	0.0	28.9	72.1	91.4	91.4
130°	0.0	24.0	62.5	81.8	81.8
132.5°	0.0	19.2	57.7	72.1	72.1
135°	0.0	19.2	52.9	67.3	67.3
137.5°	0.0	14.4	43.3	57.7	57.7
140°	0.0	14.4	38.5	52.9	52.9
142.5°	0.0	9.6	33.7	48.1	43.3
145°	0.0	9.6	28.9	38.5	38.5
147.5°	0.0	4.8	24.0	33.7	33.7
150°	0.0	4.8	19.2	28.9	24.0
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)