

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: P218259

Luminaire Tested: **8TSNLED-LD5-91SL-LN-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218259  
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-LD5-91SL-LN-UNV-L830-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8605.0 lumens  
Efficiency: N/A  
Efficacy: 124.4 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

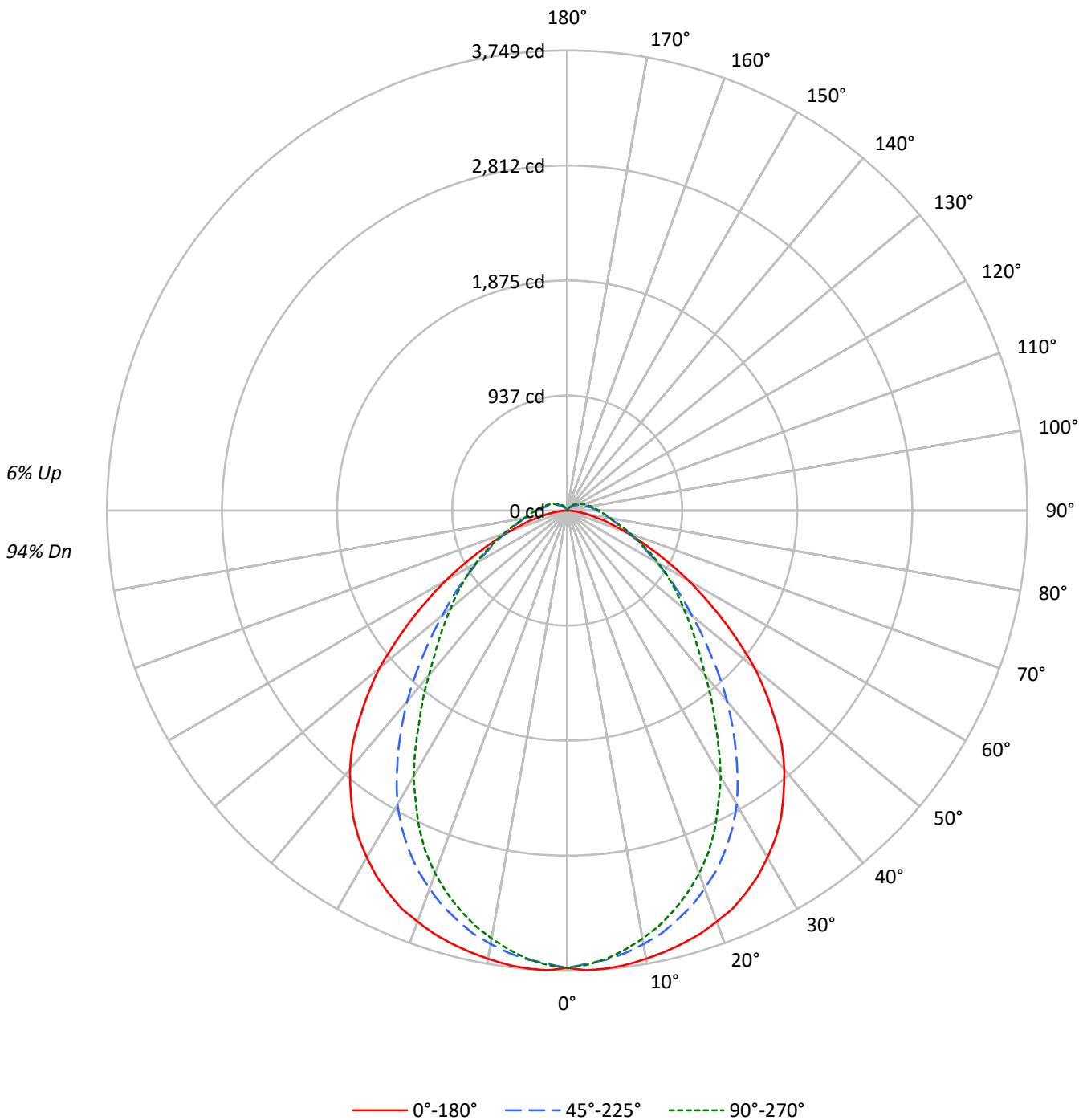
Input Watts (W): 69.18  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	30025	30025	30025
5°	30231	27935	27277
10°	30228	26026	24625
15°	30271	24145	22159
20°	30322	22256	19778
25°	30295	20293	17288
30°	30006	18160	14760
35°	29489	15669	12143
40°	28445	13274	10008
45°	26666	10920	8394
50°	24396	8919	7078
55°	21087	7369	6032
60°	17767	6038	5053
65°	14229	5020	4178
70°	11211	4224	3448
75°	8641	3592	2863
80°	6206	3180	2459
85°	4060	2900	2225



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	350.3	4.1
10°-20°	983.3	11.4
20°-30°	1423.9	16.5
30°-40°	1549.7	18.0
40°-50°	1376.3	16.0
50°-60°	1047.6	12.2
60°-70°	695.6	8.1
70°-80°	423.8	4.9
80°-90°	262.6	3.1
90°-100°	179.4	2.1
100°-110°	125.9	1.5
110°-120°	85.7	1.0
120°-130°	54.4	0.6
130°-140°	30.9	0.4
140°-150°	14.5	0.2
150°-160°	1.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2757.5	32.0
0°-40°	4307.2	50.1
0°-60°	6731.1	78.2
0°-90°	8113.1	94.3
90°-120°	391.0	4.5
90°-150°	490.8	5.7
90°-180°	492.0	5.7
0°-180°	8605.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3727	3727	3727	3727	3727	
5°	3745	3722	3672	3690	3668	356
15°	3650	3586	3455	3414	3368	1031
25°	3441	3287	3051	2929	2852	1584
35°	3042	2770	2398	2190	2099	1895
45°	2389	2031	1650	1510	1473	1840
55°	1546	1256	1065	1047	1043	1387
65°	780	671	671	698	689	786
75°	299	340	426	449	435	324
85°	54	172	290	308	299	65
90°	0	127	245	268	258	4
95°	0	100	208	231	227	0
105°	0	64	150	172	172	0
115°	0	41	109	132	127	0
125°	0	27	72	91	91	0
135°	0	18	50	64	64	0
145°	0	9	27	36	36	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°	3726.6	3726.6	3726.6	3726.6	3726.6
2.5°	3749.3	3731.2	3694.9	3717.5	3703.9
5°	3744.8	3722.1	3672.2	3690.3	3667.7
7.5°	3731.2	3703.9	3635.9	3645.0	3608.7
10°	3708.5	3672.2	3586.1	3577.0	3540.7
12.5°	3681.3	3635.9	3531.7	3499.9	3463.7
15°	3649.5	3586.1	3454.6	3413.8	3368.5
17.5°	3613.3	3527.1	3377.5	3314.1	3264.2
20°	3563.4	3459.1	3277.8	3200.7	3146.3
22.5°	3513.5	3377.5	3173.5	3069.2	3010.3
25°	3441.0	3286.9	3051.1	2928.7	2851.6
27.5°	3359.4	3182.6	2915.1	2756.4	2670.3
30°	3264.2	3060.2	2765.5	2579.6	2502.5
32.5°	3159.9	2924.2	2584.2	2384.7	2298.5
35°	3042.0	2770.0	2398.3	2189.7	2099.1
37.5°	2897.0	2602.3	2212.4	1999.3	1926.8
40°	2751.9	2425.5	2026.5	1827.0	1750.0
42.5°	2588.7	2230.5	1836.1	1654.8	1600.4
45°	2389.2	2031.1	1650.2	1509.7	1473.4
47.5°	2194.3	1827.0	1482.5	1382.7	1351.0
50°	1994.8	1627.6	1323.8	1260.3	1237.7
52.5°	1763.6	1432.6	1192.3	1151.5	1142.5
55°	1546.0	1255.8	1065.4	1047.3	1042.7
57.5°	1337.4	1088.1	947.5	961.1	952.1
60°	1142.5	933.9	843.2	861.4	856.8
62.5°	952.1	793.4	748.0	784.3	775.2
65°	779.8	671.0	671.0	698.2	689.1
67.5°	630.2	571.2	598.4	625.6	616.6
70°	503.2	480.6	535.0	557.6	548.6
72.5°	389.9	403.5	471.5	498.7	485.1
75°	299.2	340.0	426.2	448.8	435.2
77.5°	213.1	285.6	385.4	403.5	389.9
80°	149.6	240.3	349.1	367.2	353.6
82.5°	95.2	204.0	317.4	335.5	326.4
85°	54.4	172.3	290.2	308.3	299.2
87.5°	27.2	149.6	262.9	285.6	276.5
90°	0.0	126.9	244.8	267.5	258.4
92.5°	0.0	113.3	226.7	249.3	240.3
95°	0.0	99.7	208.5	231.2	226.7
97.5°	0.0	90.7	194.9	217.6	208.5
100°	0.0	77.1	176.8	199.5	194.9
102.5°	0.0	72.5	163.2	185.9	181.3
105°	0.0	63.5	149.6	172.3	172.3
107.5°	0.0	58.9	140.5	163.2	158.7
110°	0.0	49.9	126.9	149.6	149.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	45.3	117.9	140.5	136.0
115°	0.0	40.8	108.8	131.5	126.9
117.5°	0.0	40.8	99.7	117.9	117.9
120°	0.0	36.3	90.7	108.8	108.8
122.5°	0.0	31.7	81.6	99.7	99.7
125°	0.0	27.2	72.5	90.7	90.7
127.5°	0.0	27.2	68.0	86.1	86.1
130°	0.0	22.7	58.9	77.1	77.1
132.5°	0.0	18.1	54.4	68.0	68.0
135°	0.0	18.1	49.9	63.5	63.5
137.5°	0.0	13.6	40.8	54.4	54.4
140°	0.0	13.6	36.3	49.9	49.9
142.5°	0.0	9.1	31.7	45.3	40.8
145°	0.0	9.1	27.2	36.3	36.3
147.5°	0.0	4.5	22.7	31.7	31.7
150°	0.0	4.5	18.1	27.2	22.7
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)