

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: P218131

Luminaire Tested: **8TSNLED-LD5-75SL-LC-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218131  
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-LD5-75SL-LC-UNV-L830-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7369.0 lumens  
Efficiency: N/A  
Efficacy: 133.1 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

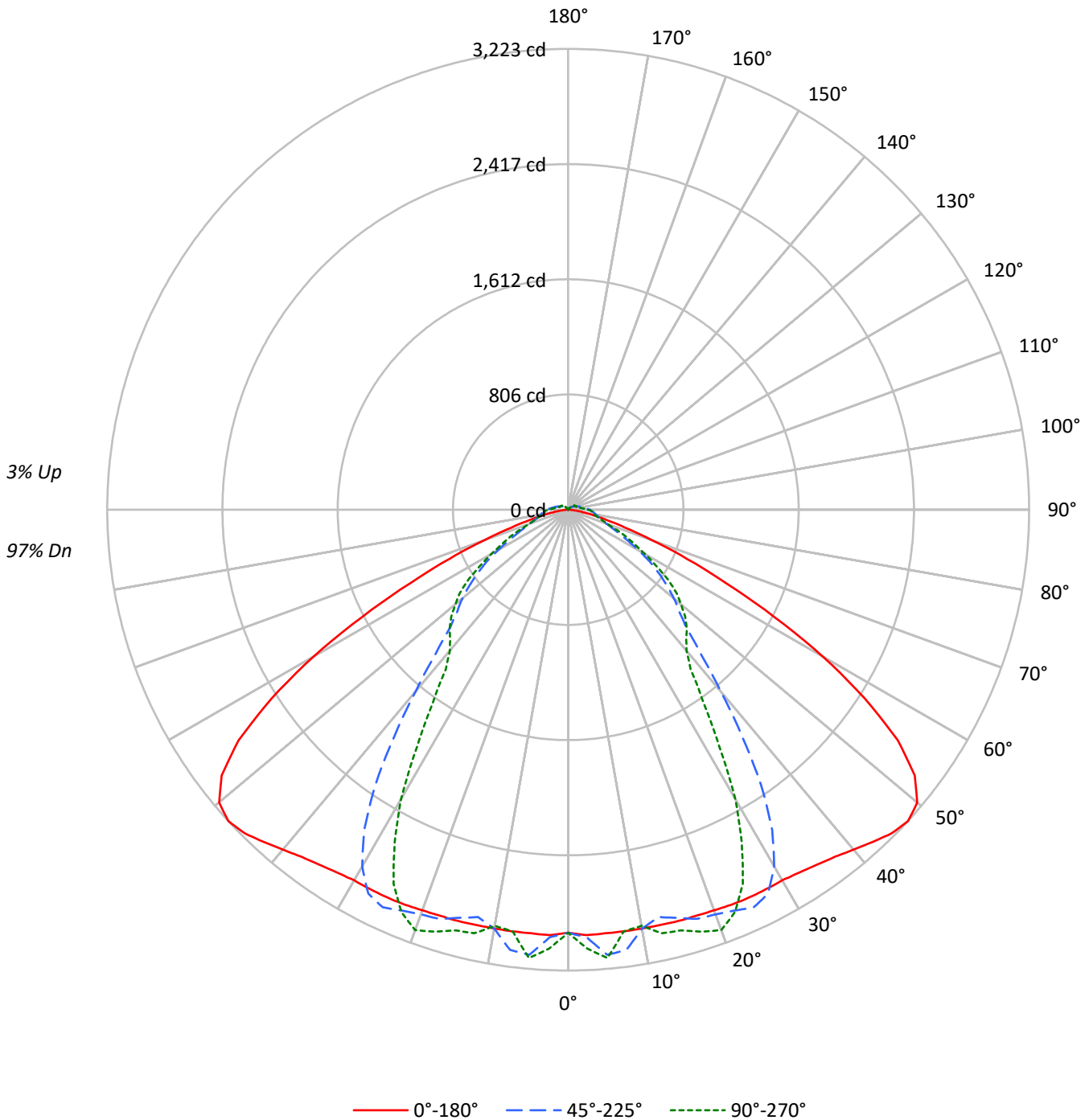
Input Watts (W): 55.38  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0	
RCR																						
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	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	83	
2	100	93	87	82	98	91	85	81	87	82	78	83	79	76	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	62	
4	85	75	67	60	83	73	66	60	70	64	59	68	62	58	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	48	
6	73	61	53	47	71	60	52	47	58	51	46	56	50	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	38	
8	64	51	43	38	62	50	43	37	49	42	37	47	41	37	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	31	
10	56	44	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	40	34	30	28	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	23841	23841	23841
5°	24009	23772	23408
10°	24242	21584	20554
15°	24701	20655	20036
20°	25372	20450	19667
25°	26350	20408	17505
30°	27513	18911	13784
35°	29379	15368	9551
40°	32067	10864	7351
45°	35719	7732	6679
50°	38955	6502	5885
55°	38357	5344	4906
60°	32008	4049	3669
65°	22285	2933	2697
70°	14025	2232	1848
75°	8054	1906	1463
80°	4692	1785	1258
85°	2254	1733	1261



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	290.8	3.9
10°-20°	856.7	11.6
20°-30°	1361.2	18.5
30°-40°	1467.7	19.9
40°-50°	1265.0	17.2
50°-60°	957.7	13.0
60°-70°	517.4	7.0
70°-80°	245.7	3.3
80°-90°	154.3	2.1
90°-100°	98.2	1.3
100°-110°	62.8	0.9
110°-120°	42.0	0.6
120°-130°	27.8	0.4
130°-140°	13.6	0.2
140°-150°	5.8	0.1
150°-160°	2.1	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	2508.7	34.0
0°-40°	3976.4	54.0
0°-60°	6199.2	84.1
0°-90°	7116.6	96.6
90°-120°	203.1	2.8
90°-150°	250.2	3.4
90°-180°	252.0	3.4
0°-180°	7369.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2959	2959	2959	2959	2959	
5°	2974	3038	3125	3166	3148	284
15°	2978	3057	2955	3057	3046	844
25°	2993	2936	3068	2986	2887	1384
35°	3031	2918	2352	1798	1651	1909
45°	3200	2005	1168	1157	1172	2464
55°	2812	867	773	844	848	2446
65°	1221	369	392	441	445	1254
75°	279	192	226	226	222	329
85°	30	117	173	173	170	44
90°	0	90	151	147	136	2
95°	0	72	121	109	102	0
105°	0	45	83	75	68	0
115°	0	26	56	56	56	0
125°	0	15	38	49	45	0
135°	0	8	23	26	26	0
145°	0	4	11	15	11	0
155°	0	4	4	8	4	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°	2959.1	2959.1	2959.1	2959.1	2959.1
2.5°	2977.9	2981.7	2993.0	3049.5	3072.1
5°	2974.1	3038.2	3124.9	3166.4	3147.5
7.5°	2974.1	3106.1	3106.1	3026.9	2974.1
10°	2974.1	3143.8	2974.1	2959.1	2955.3
12.5°	2974.1	3121.2	2917.6	3023.1	3034.5
15°	2977.9	3057.1	2955.3	3057.1	3045.8
17.5°	2977.9	2981.7	3000.5	3079.7	3094.8
20°	2981.7	2932.7	3011.8	3140.0	3128.7
22.5°	2989.2	2925.1	3034.5	3113.6	3045.8
25°	2993.0	2936.4	3068.4	2985.5	2887.4
27.5°	2993.0	2951.5	3026.9	2789.4	2627.3
30°	2993.0	2959.1	2879.9	2518.0	2337.1
32.5°	3008.1	2951.5	2653.7	2163.7	1967.7
35°	3030.7	2917.6	2352.2	1798.1	1651.0
37.5°	3060.8	2827.1	1997.8	1504.0	1406.0
40°	3102.3	2631.1	1658.6	1315.6	1285.4
42.5°	3151.3	2344.6	1379.6	1221.3	1221.3
45°	3200.3	2005.4	1168.5	1157.2	1172.3
47.5°	3222.9	1673.7	1051.7	1093.2	1108.2
50°	3185.2	1364.6	965.0	1021.5	1029.1
52.5°	3053.3	1089.4	867.0	934.8	953.7
55°	2812.1	867.0	772.7	844.4	848.1
57.5°	2461.5	689.8	674.7	731.3	727.5
60°	2058.2	557.9	565.4	622.0	622.0
62.5°	1624.7	452.3	475.0	524.0	520.2
65°	1221.3	369.4	392.0	441.0	444.8
67.5°	900.9	305.3	331.7	365.6	358.1
70°	629.5	256.3	282.7	301.6	294.0
72.5°	418.4	218.6	248.8	256.3	252.6
75°	278.9	192.2	226.2	226.2	222.4
77.5°	180.9	169.6	211.1	207.3	199.8
80°	113.1	150.8	196.0	188.5	180.9
82.5°	67.9	131.9	184.7	177.2	169.6
85°	30.2	116.9	173.4	173.4	169.6
87.5°	11.3	105.5	162.1	165.9	158.3
90°	0.0	90.5	150.8	147.0	135.7
92.5°	0.0	82.9	135.7	124.4	116.9
95°	0.0	71.6	120.6	109.3	101.8
97.5°	0.0	64.1	109.3	98.0	90.5
100°	0.0	56.5	98.0	86.7	79.2
102.5°	0.0	49.0	90.5	79.2	75.4
105°	0.0	45.2	82.9	75.4	67.9
107.5°	0.0	41.5	75.4	67.9	64.1
110°	0.0	33.9	67.9	64.1	60.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	30.2	60.3	60.3	60.3
115°	0.0	26.4	56.5	56.5	56.5
117.5°	0.0	22.6	49.0	56.5	56.5
120°	0.0	22.6	45.2	52.8	52.8
122.5°	0.0	18.8	41.5	52.8	52.8
125°	0.0	15.1	37.7	49.0	45.2
127.5°	0.0	11.3	33.9	41.5	41.5
130°	0.0	11.3	30.2	37.7	33.9
132.5°	0.0	7.5	26.4	30.2	30.2
135°	0.0	7.5	22.6	26.4	26.4
137.5°	0.0	7.5	18.8	22.6	18.8
140°	0.0	3.8	15.1	18.8	15.1
142.5°	0.0	3.8	15.1	18.8	15.1
145°	0.0	3.8	11.3	15.1	11.3
147.5°	0.0	3.8	7.5	11.3	11.3
150°	0.0	3.8	7.5	11.3	7.5
152.5°	0.0	3.8	7.5	7.5	3.8
155°	0.0	3.8	3.8	7.5	3.8
157.5°	0.0	3.8	3.8	3.8	3.8
160°	3.8	3.8	3.8	3.8	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)