

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: P218251

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218251  
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-LD5-75SL-LN-UNV-L830-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7154.0 lumens  
Efficiency: N/A  
Efficacy: 129.2 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

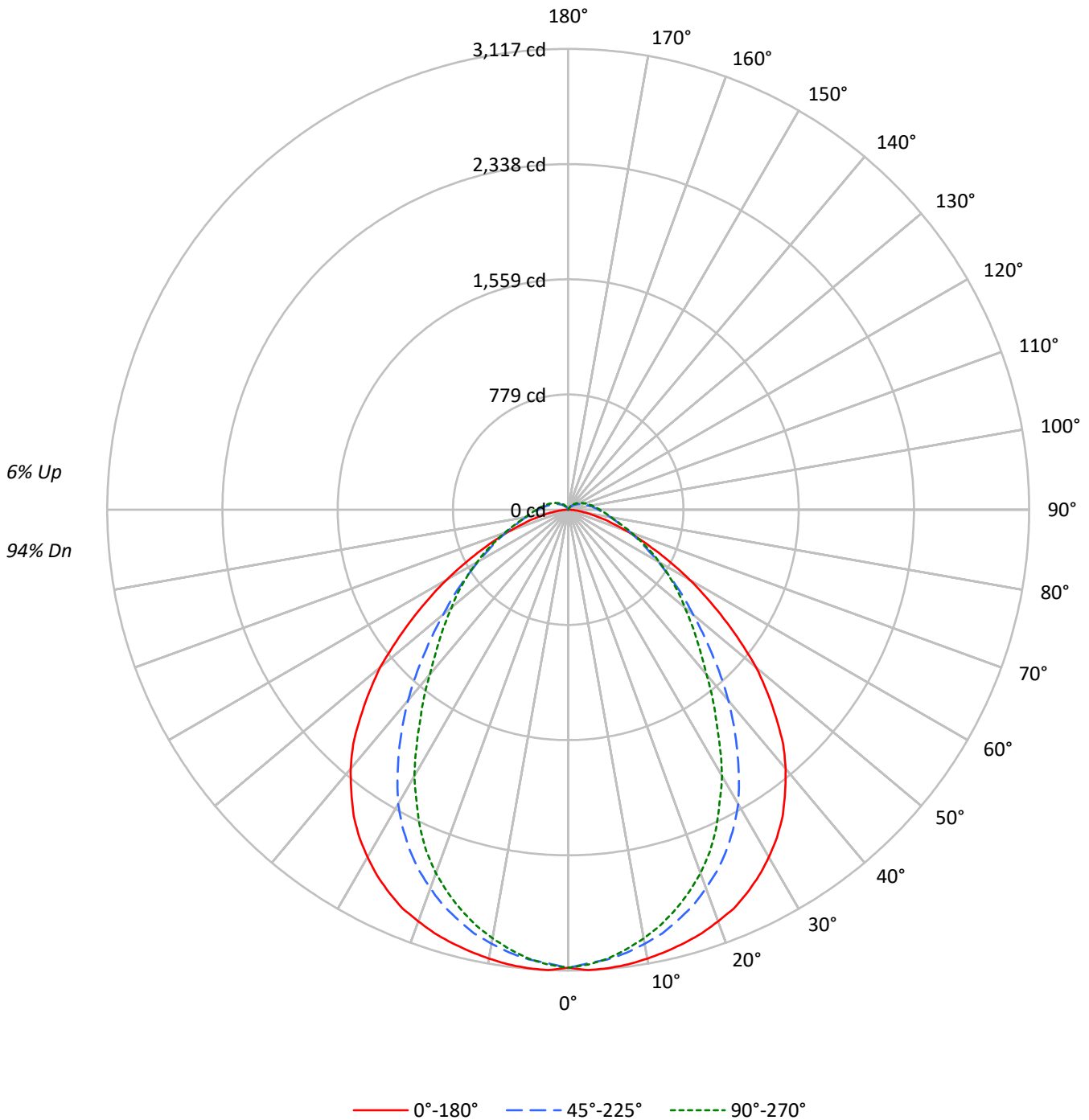
Input Watts (W): 55.38  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P218251

CATALOG NUMBER: 8TSNLED-LD5-75SL-LN-UNV-L830-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P218251

CATALOG NUMBER: 8TSNLED-LD5-75SL-LN-UNV-L830-CD1-U

**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	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°	24962	24962	24962
5°	25133	23225	22677
10°	25131	21637	20473
15°	25167	20074	18423
20°	25209	18503	16443
25°	25187	16871	14373
30°	24946	15098	12271
35°	24517	13027	10095
40°	23649	11035	8320
45°	22169	9079	6979
50°	20282	7416	5885
55°	17531	6126	5015
60°	14771	5020	4202
65°	11830	4173	3473
70°	9321	3512	2867
75°	7185	2986	2380
80°	5161	2643	2045
85°	3373	2410	1850



TEST NUMBER: P218251

CATALOG NUMBER: 8TSNLED-LD5-75SL-LN-UNV-L830-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	291.3	4.1
10°-20°	817.5	11.4
20°-30°	1183.8	16.5
30°-40°	1288.4	18.0
40°-50°	1144.2	16.0
50°-60°	871.0	12.2
60°-70°	578.3	8.1
70°-80°	352.4	4.9
80°-90°	218.3	3.1
90°-100°	149.1	2.1
100°-110°	104.7	1.5
110°-120°	71.3	1.0
120°-130°	45.2	0.6
130°-140°	25.7	0.4
140°-150°	12.1	0.2
150°-160°	0.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2292.5	32.0
0°-40°	3580.9	50.1
0°-60°	5596.1	78.2
0°-90°	6745.1	94.3
90°-120°	325.1	4.5
90°-150°	408.1	5.7
90°-180°	409.0	5.7
0°-180°	7154.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3098	3098	3098	3098	3098	
5°	3113	3094	3053	3068	3049	296
15°	3034	2981	2872	2838	2800	857
25°	2861	2733	2537	2435	2371	1317
35°	2529	2303	1994	1820	1745	1576
45°	1986	1689	1372	1255	1225	1530
55°	1285	1044	886	871	867	1153
65°	648	558	558	580	573	654
75°	249	283	354	373	362	269
85°	45	143	241	256	249	54
90°	0	106	204	222	215	3
95°	0	83	173	192	188	0
105°	0	53	124	143	143	0
115°	0	34	90	109	106	0
125°	0	23	60	75	75	0
135°	0	15	42	53	53	0
145°	0	8	23	30	30	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



TEST NUMBER: P218251

CATALOG NUMBER: 8TSNLED-LD5-75SL-LN-UNV-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3098.2	3098.2	3098.2	3098.2	3098.2
2.5°	3117.1	3102.0	3071.8	3090.7	3079.4
5°	3113.3	3094.5	3053.0	3068.1	3049.2
7.5°	3102.0	3079.4	3022.8	3030.4	3000.2
10°	3083.1	3053.0	2981.4	2973.8	2943.7
12.5°	3060.5	3022.8	2936.2	2909.8	2879.6
15°	3034.1	2981.4	2872.1	2838.2	2800.5
17.5°	3004.0	2932.4	2808.0	2755.2	2713.8
20°	2962.5	2875.8	2725.1	2661.0	2615.8
22.5°	2921.1	2808.0	2638.4	2551.7	2502.7
25°	2860.8	2732.6	2536.6	2434.9	2370.8
27.5°	2792.9	2645.9	2423.5	2291.6	2220.0
30°	2713.8	2544.2	2299.2	2144.6	2080.6
32.5°	2627.1	2431.1	2148.4	1982.6	1910.9
35°	2529.1	2302.9	1993.9	1820.5	1745.1
37.5°	2408.5	2163.5	1839.3	1662.2	1601.9
40°	2287.9	2016.5	1684.8	1519.0	1454.9
42.5°	2152.2	1854.4	1526.5	1375.7	1330.5
45°	1986.3	1688.6	1372.0	1255.1	1225.0
47.5°	1824.3	1519.0	1232.5	1149.6	1123.2
50°	1658.4	1353.1	1100.6	1047.8	1029.0
52.5°	1466.2	1191.0	991.3	957.4	949.8
55°	1285.3	1044.0	885.7	870.7	866.9
57.5°	1111.9	904.6	787.7	799.1	791.5
60°	949.8	776.4	701.1	716.1	712.4
62.5°	791.5	659.6	621.9	652.1	644.5
65°	648.3	557.8	557.8	580.4	572.9
67.5°	523.9	474.9	497.5	520.1	512.6
70°	418.4	399.5	444.8	463.6	456.1
72.5°	324.1	335.5	392.0	414.6	403.3
75°	248.8	282.7	354.3	373.1	361.8
77.5°	177.1	237.5	320.4	335.5	324.1
80°	124.4	199.8	290.2	305.3	294.0
82.5°	79.2	169.6	263.8	278.9	271.4
85°	45.2	143.2	241.2	256.3	248.8
87.5°	22.6	124.4	218.6	237.5	229.9
90°	0.0	105.5	203.5	222.4	214.8
92.5°	0.0	94.2	188.5	207.3	199.8
95°	0.0	82.9	173.4	192.2	188.5
97.5°	0.0	75.4	162.1	180.9	173.4
100°	0.0	64.1	147.0	165.8	162.1
102.5°	0.0	60.3	135.7	154.5	150.8
105°	0.0	52.8	124.4	143.2	143.2
107.5°	0.0	49.0	116.8	135.7	131.9
110°	0.0	41.5	105.5	124.4	124.4



TEST NUMBER: P218251

CATALOG NUMBER: 8TSNLED-LD5-75SL-LN-UNV-L830-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	37.7	98.0	116.8	113.1
115°	0.0	33.9	90.5	109.3	105.5
117.5°	0.0	33.9	82.9	98.0	98.0
120°	0.0	30.2	75.4	90.5	90.5
122.5°	0.0	26.4	67.8	82.9	82.9
125°	0.0	22.6	60.3	75.4	75.4
127.5°	0.0	22.6	56.5	71.6	71.6
130°	0.0	18.8	49.0	64.1	64.1
132.5°	0.0	15.1	45.2	56.5	56.5
135°	0.0	15.1	41.5	52.8	52.8
137.5°	0.0	11.3	33.9	45.2	45.2
140°	0.0	11.3	30.2	41.5	41.5
142.5°	0.0	7.5	26.4	37.7	33.9
145°	0.0	7.5	22.6	30.2	30.2
147.5°	0.0	3.8	18.8	26.4	26.4
150°	0.0	3.8	15.1	22.6	18.8
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)