

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: P218253

Luminaire Tested: **8TSNLED-LD5-75SL-LN-UNV-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218253  
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-L840-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7752.0 lumens  
Efficiency: N/A  
Efficacy: 140.0 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

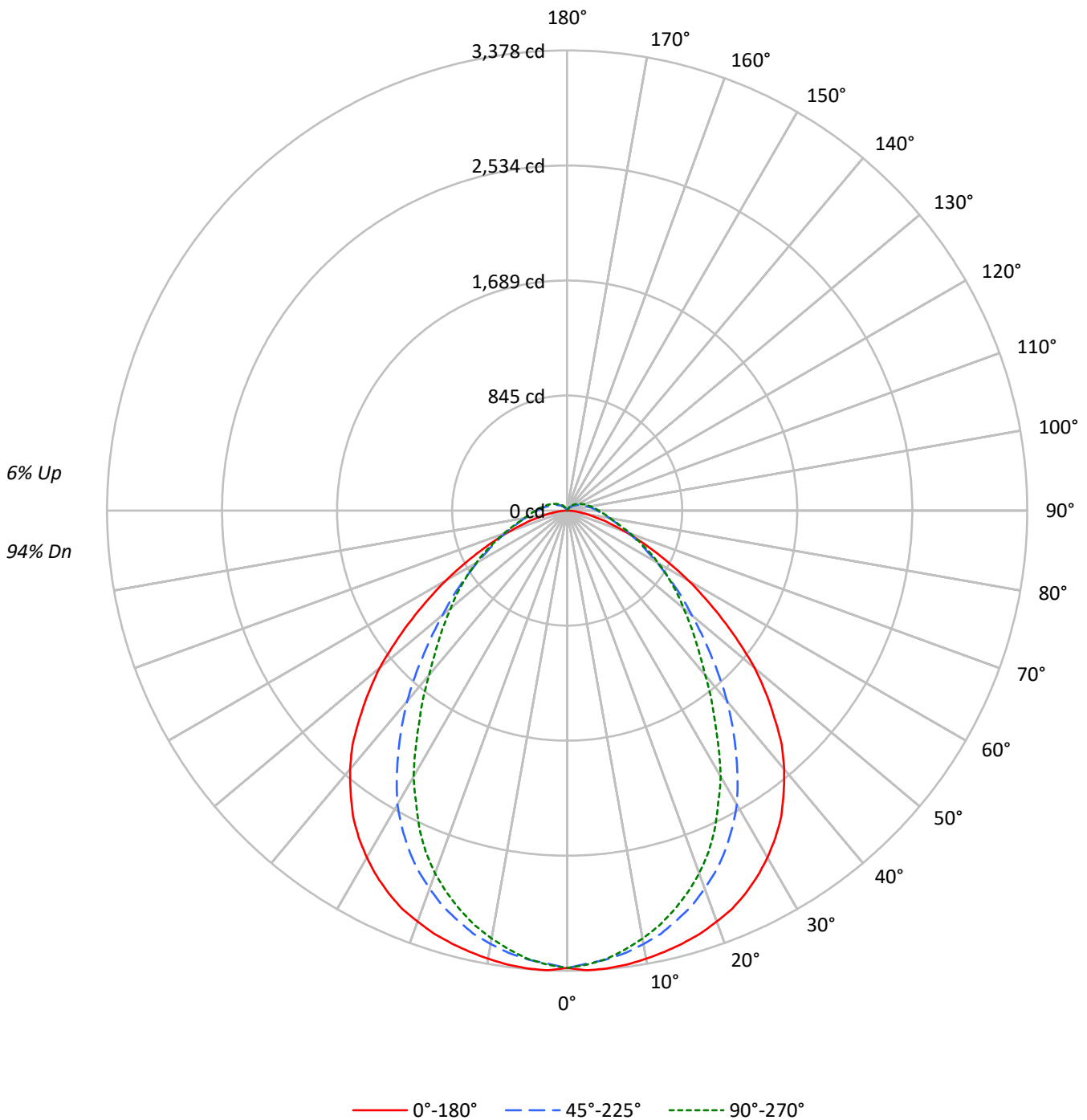
Input Watts (W): 55.38  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	27048	27048	27048
5°	27234	25166	24572
10°	27232	23446	22184
15°	27271	21752	19963
20°	27316	20050	17817
25°	27292	18281	15575
30°	27031	16360	13297
35°	26566	14115	10939
40°	25625	11958	9016
45°	24023	9837	7562
50°	21977	8035	6376
55°	18996	6638	5434
60°	16005	5440	4553
65°	12819	4523	3764
70°	10099	3805	3107
75°	7786	3235	2579
80°	5592	2865	2216
85°	3657	2612	2005



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	315.6	4.1
10°-20°	885.8	11.4
20°-30°	1282.7	16.5
30°-40°	1396.1	18.0
40°-50°	1239.9	16.0
50°-60°	943.8	12.2
60°-70°	626.6	8.1
70°-80°	381.8	4.9
80°-90°	236.6	3.1
90°-100°	161.6	2.1
100°-110°	113.4	1.5
110°-120°	77.3	1.0
120°-130°	49.0	0.6
130°-140°	27.9	0.4
140°-150°	13.1	0.2
150°-160°	0.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2484.1	32.0
0°-40°	3880.2	50.1
0°-60°	6063.8	78.2
0°-90°	7308.9	94.3
90°-120°	352.3	4.5
90°-150°	442.2	5.7
90°-180°	443.0	5.7
0°-180°	7752.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3357	3357	3357	3357	3357	
5°	3374	3353	3308	3324	3304	321
15°	3288	3231	3112	3075	3035	929
25°	3100	2961	2749	2638	2569	1427
35°	2740	2495	2160	1973	1891	1707
45°	2152	1830	1487	1360	1327	1658
55°	1393	1131	960	943	939	1249
65°	702	604	604	629	621	708
75°	270	306	384	404	392	291
85°	49	155	261	278	270	58
90°	0	114	220	241	233	3
95°	0	90	188	208	204	0
105°	0	57	135	155	155	0
115°	0	37	98	118	114	0
125°	0	24	65	82	82	0
135°	0	16	45	57	57	0
145°	0	8	24	33	33	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°	3357.2	3357.2	3357.2	3357.2	3357.2
2.5°	3377.6	3361.3	3328.6	3349.0	3336.8
5°	3373.5	3353.1	3308.2	3324.5	3304.1
7.5°	3361.3	3336.8	3275.5	3283.7	3251.0
10°	3340.9	3308.2	3230.6	3222.4	3189.8
12.5°	3316.4	3275.5	3181.6	3153.0	3120.3
15°	3287.8	3230.6	3112.2	3075.4	3034.6
17.5°	3255.1	3177.5	3042.7	2985.5	2940.6
20°	3210.2	3116.2	2952.9	2883.4	2834.4
22.5°	3165.2	3042.7	2858.9	2765.0	2711.9
25°	3099.9	2961.0	2748.7	2638.4	2569.0
27.5°	3026.4	2867.1	2626.1	2483.2	2405.6
30°	2940.6	2756.8	2491.4	2323.9	2254.5
32.5°	2846.7	2634.3	2328.0	2148.3	2070.7
35°	2740.5	2495.4	2160.5	1972.7	1891.0
37.5°	2609.8	2344.3	1993.1	1801.1	1735.8
40°	2479.1	2185.0	1825.6	1645.9	1576.5
42.5°	2332.1	2009.4	1654.1	1490.7	1441.7
45°	2152.4	1829.7	1486.6	1360.0	1327.4
47.5°	1976.7	1645.9	1335.5	1245.7	1217.1
50°	1797.0	1466.2	1192.6	1135.4	1115.0
52.5°	1588.7	1290.6	1074.1	1037.4	1029.2
55°	1392.7	1131.3	959.8	943.4	939.4
57.5°	1204.8	980.2	853.6	865.8	857.7
60°	1029.2	841.3	759.7	776.0	771.9
62.5°	857.7	714.7	673.9	706.6	698.4
65°	702.5	604.5	604.5	629.0	620.8
67.5°	567.7	514.6	539.1	563.6	555.4
70°	453.3	432.9	481.9	502.4	494.2
72.5°	351.2	363.5	424.8	449.3	437.0
75°	269.6	306.3	383.9	404.3	392.1
77.5°	192.0	257.3	347.2	363.5	351.2
80°	134.8	216.5	314.5	330.8	318.6
82.5°	85.8	183.8	285.9	302.2	294.1
85°	49.0	155.2	261.4	277.7	269.6
87.5°	24.5	134.8	236.9	257.3	249.1
90°	0.0	114.4	220.5	241.0	232.8
92.5°	0.0	102.1	204.2	224.6	216.5
95°	0.0	89.9	187.9	208.3	204.2
97.5°	0.0	81.7	175.6	196.0	187.9
100°	0.0	69.4	159.3	179.7	175.6
102.5°	0.0	65.3	147.0	167.5	163.4
105°	0.0	57.2	134.8	155.2	155.2
107.5°	0.0	53.1	126.6	147.0	142.9
110°	0.0	44.9	114.4	134.8	134.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	40.8	106.2	126.6	122.5
115°	0.0	36.8	98.0	118.4	114.4
117.5°	0.0	36.8	89.9	106.2	106.2
120°	0.0	32.7	81.7	98.0	98.0
122.5°	0.0	28.6	73.5	89.9	89.9
125°	0.0	24.5	65.3	81.7	81.7
127.5°	0.0	24.5	61.3	77.6	77.6
130°	0.0	20.4	53.1	69.4	69.4
132.5°	0.0	16.3	49.0	61.3	61.3
135°	0.0	16.3	44.9	57.2	57.2
137.5°	0.0	12.3	36.8	49.0	49.0
140°	0.0	12.3	32.7	44.9	44.9
142.5°	0.0	8.2	28.6	40.8	36.8
145°	0.0	8.2	24.5	32.7	32.7
147.5°	0.0	4.1	20.4	28.6	28.6
150°	0.0	4.1	16.3	24.5	20.4
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)