

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: P218249

Luminaire Tested: **8TSNLED-LD5-68SL-LN-UNV-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218249  
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-LD5-68SL-LN-UNV-L840-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7064.0 lumens  
Efficiency: N/A  
Efficacy: 142.1 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

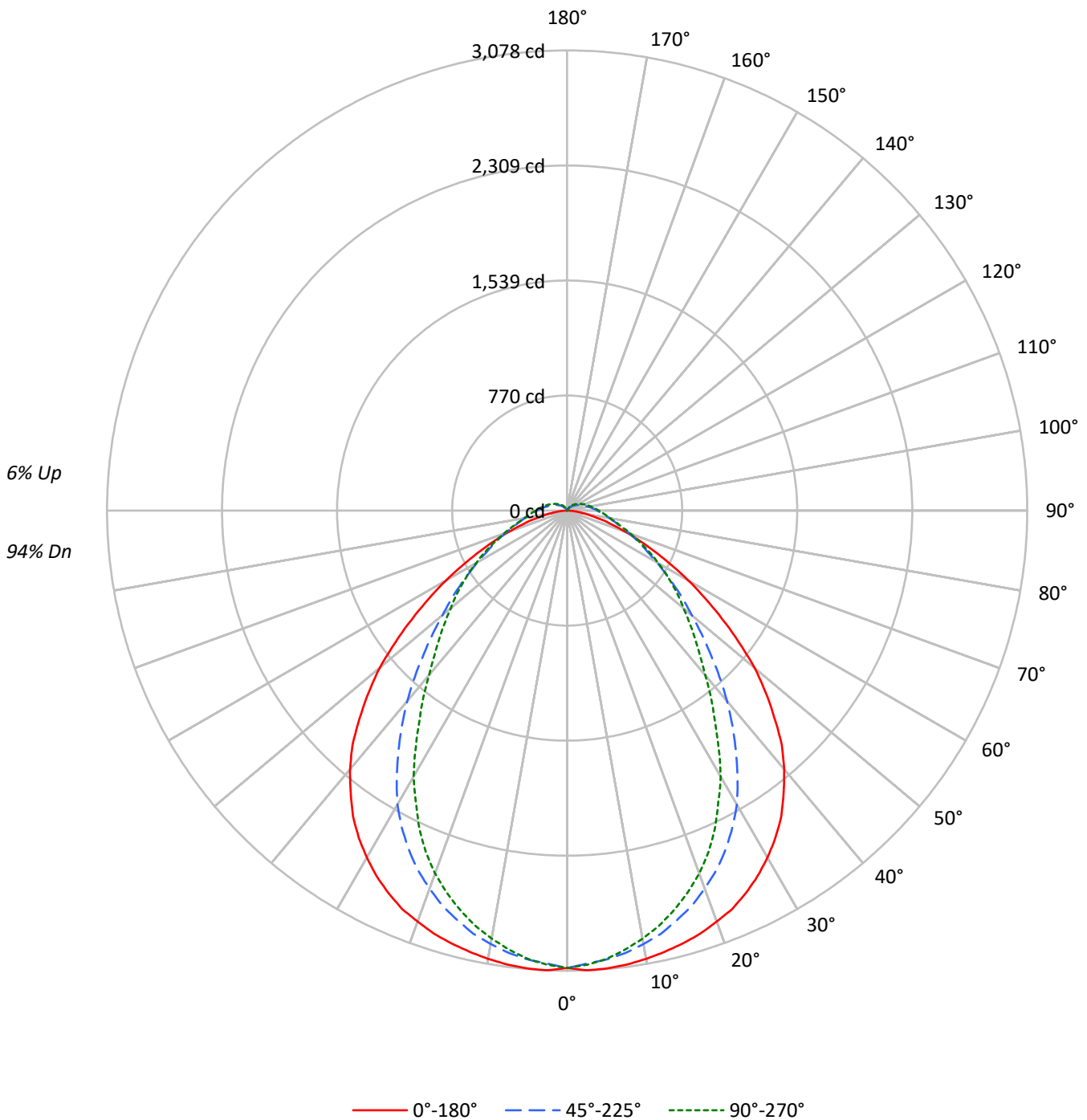
Input Watts (W): 49.72  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	24647	24647	24647
5°	24817	22933	22392
10°	24815	21365	20216
15°	24851	19821	18191
20°	24892	18270	16236
25°	24870	16659	14193
30°	24632	14907	12117
35°	24209	12863	9969
40°	23351	10897	8216
45°	21890	8964	6891
50°	20028	7322	5810
55°	17311	6049	4952
60°	14586	4957	4149
65°	11680	4121	3430
70°	9203	3468	2831
75°	7093	2948	2350
80°	5094	2610	2019
85°	3336	2380	1827



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	287.6	4.1
10°-20°	807.2	11.4
20°-30°	1168.9	16.5
30°-40°	1272.2	18.0
40°-50°	1129.8	16.0
50°-60°	860.0	12.2
60°-70°	571.0	8.1
70°-80°	347.9	4.9
80°-90°	215.6	3.1
90°-100°	147.2	2.1
100°-110°	103.3	1.5
110°-120°	70.4	1.0
120°-130°	44.6	0.6
130°-140°	25.4	0.4
140°-150°	11.9	0.2
150°-160°	0.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2263.7	32.0
0°-40°	3535.8	50.1
0°-60°	5525.7	78.2
0°-90°	6660.2	94.3
90°-120°	321.0	4.5
90°-150°	402.9	5.7
90°-180°	404.0	5.7
0°-180°	7064.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3059	3059	3059	3059	3059	
5°	3074	3056	3015	3030	3011	292
15°	2996	2944	2836	2802	2765	847
25°	2825	2698	2505	2404	2341	1301
35°	2497	2274	1969	1798	1723	1556
45°	1961	1667	1355	1239	1210	1510
55°	1269	1031	875	860	856	1138
65°	640	551	551	573	566	645
75°	246	279	350	368	357	266
85°	45	141	238	253	246	53
90°	0	104	201	220	212	3
95°	0	82	171	190	186	0
105°	0	52	123	141	141	0
115°	0	34	89	108	104	0
125°	0	22	60	74	74	0
135°	0	15	41	52	52	0
145°	0	7	22	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3059.2	3059.2	3059.2	3059.2	3059.2
2.5°	3077.9	3063.0	3033.2	3051.8	3040.6
5°	3074.1	3055.5	3014.6	3029.5	3010.9
7.5°	3063.0	3040.6	2984.8	2992.3	2962.5
10°	3044.4	3014.6	2943.9	2936.4	2906.7
12.5°	3022.0	2984.8	2899.2	2873.2	2843.4
15°	2996.0	2943.9	2835.9	2802.4	2765.2
17.5°	2966.2	2895.5	2772.7	2720.6	2679.6
20°	2925.3	2839.7	2690.8	2627.5	2582.9
22.5°	2884.3	2772.7	2605.2	2519.6	2471.2
25°	2824.8	2698.2	2504.7	2404.2	2341.0
27.5°	2757.8	2612.6	2393.1	2262.8	2192.1
30°	2679.6	2512.2	2270.2	2117.7	2054.4
32.5°	2594.0	2400.5	2121.4	1957.6	1886.9
35°	2497.3	2274.0	1968.8	1797.6	1723.2
37.5°	2378.2	2136.3	1816.2	1641.3	1581.7
40°	2259.1	1991.1	1663.6	1499.8	1436.6
42.5°	2125.1	1831.1	1507.3	1358.4	1313.8
45°	1961.3	1667.3	1354.7	1239.3	1209.6
47.5°	1801.3	1499.8	1217.0	1135.1	1109.1
50°	1637.6	1336.1	1086.7	1034.6	1016.0
52.5°	1447.7	1176.1	978.8	945.3	937.9
55°	1269.1	1030.9	874.6	859.7	856.0
57.5°	1097.9	893.2	777.8	789.0	781.6
60°	937.9	766.7	692.2	707.1	703.4
62.5°	781.6	651.3	614.1	643.9	636.4
65°	640.1	550.8	550.8	573.1	565.7
67.5°	517.3	468.9	491.3	513.6	506.2
70°	413.1	394.5	439.2	457.8	450.3
72.5°	320.1	331.2	387.1	409.4	398.2
75°	245.6	279.1	349.8	368.4	357.3
77.5°	174.9	234.5	316.3	331.2	320.1
80°	122.8	197.3	286.6	301.5	290.3
82.5°	78.2	167.5	260.5	275.4	268.0
85°	44.7	141.4	238.2	253.1	245.6
87.5°	22.3	122.8	215.9	234.5	227.0
90°	0.0	104.2	201.0	219.6	212.1
92.5°	0.0	93.0	186.1	204.7	197.3
95°	0.0	81.9	171.2	189.8	186.1
97.5°	0.0	74.4	160.0	178.6	171.2
100°	0.0	63.3	145.1	163.8	160.0
102.5°	0.0	59.5	134.0	152.6	148.9
105°	0.0	52.1	122.8	141.4	141.4
107.5°	0.0	48.4	115.4	134.0	130.3
110°	0.0	40.9	104.2	122.8	122.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	37.2	96.8	115.4	111.7
115°	0.0	33.5	89.3	107.9	104.2
117.5°	0.0	33.5	81.9	96.8	96.8
120°	0.0	29.8	74.4	89.3	89.3
122.5°	0.0	26.1	67.0	81.9	81.9
125°	0.0	22.3	59.5	74.4	74.4
127.5°	0.0	22.3	55.8	70.7	70.7
130°	0.0	18.6	48.4	63.3	63.3
132.5°	0.0	14.9	44.7	55.8	55.8
135°	0.0	14.9	40.9	52.1	52.1
137.5°	0.0	11.2	33.5	44.7	44.7
140°	0.0	11.2	29.8	40.9	40.9
142.5°	0.0	7.4	26.1	37.2	33.5
145°	0.0	7.4	22.3	29.8	29.8
147.5°	0.0	3.7	18.6	26.1	26.1
150°	0.0	3.7	14.9	22.3	18.6
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)