

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: P236189

Luminaire Tested: **2SWLED-8SL-LN-UNV-L850-CD1-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P236189  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-316-5)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2SWLED-8SL-LN-UNV-L850-CD1-U  
Description: METALUX SWLED LINEAR LUMINAIRE  
2FT FIXTURE WITH 1 ROW LED, NARROW LENS  
Light Source: (56) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

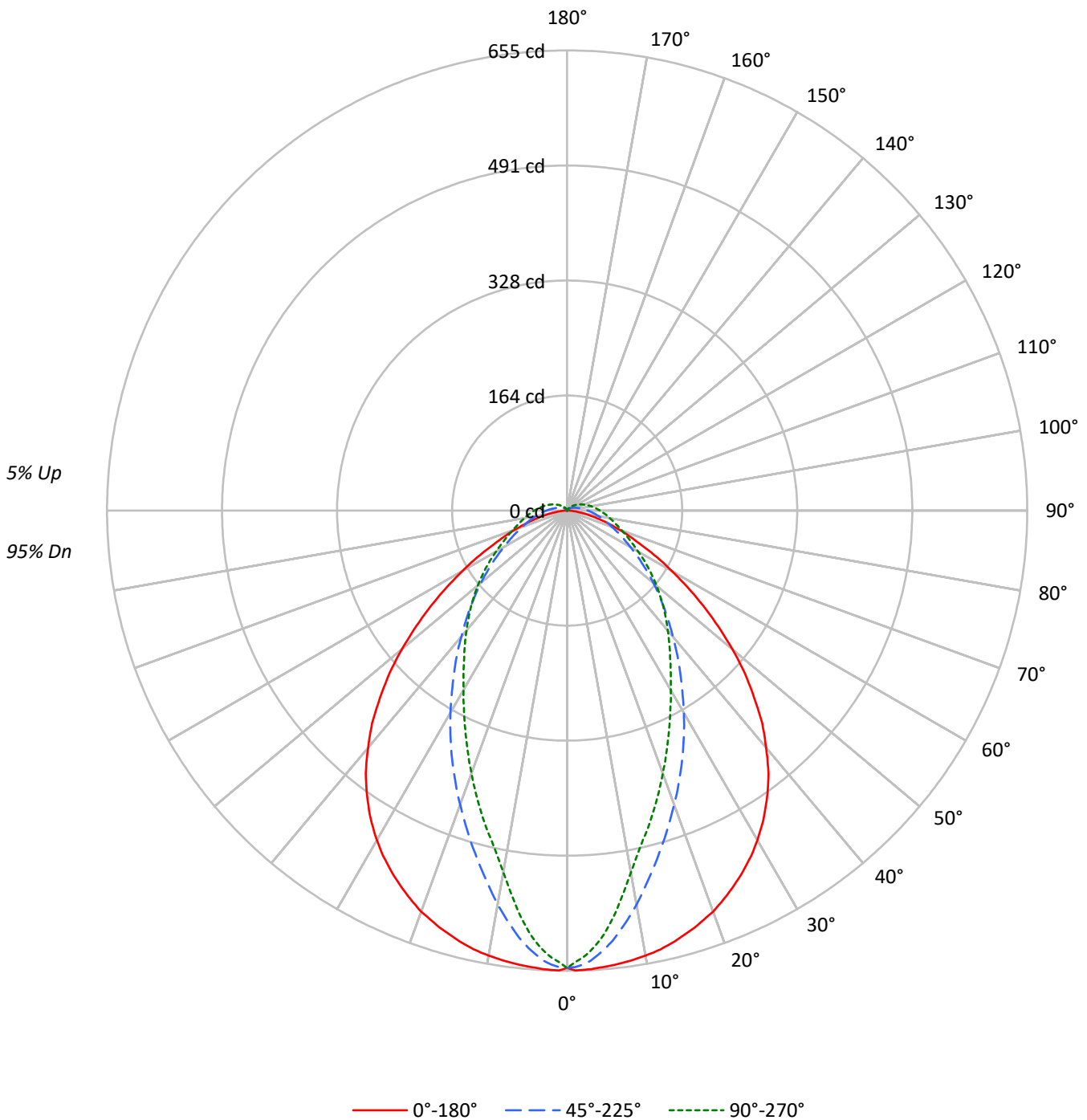
Lumens per Lamp: N/A  
Luminaire Lumens: 1165.0 lumens  
Efficiency: N/A  
Efficacy: 129.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 0.74 / 0.96  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 2' x H: 0.15')  
CIE Type: Direct

Input Watts (W): 8.98  
Input Voltage (V): 120  
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	0
RCR																		
0	118	118	118	118	114	114	114	114	108	108	108	103	103	103	97	97	97	95
1	108	103	99	96	105	101	97	93	95	92	90	91	88	86	86	84	83	80
2	99	91	85	80	96	89	83	78	85	80	76	81	77	73	77	74	71	69
3	91	81	74	68	88	79	72	67	76	70	65	72	67	63	69	65	62	59
4	84	73	65	59	82	71	64	58	68	62	57	65	60	55	63	58	54	52
5	78	66	58	52	76	65	57	51	62	55	50	60	54	49	57	52	48	46
6	73	60	52	46	70	59	51	45	57	50	45	55	49	44	53	47	43	41
7	68	55	47	41	66	54	46	41	52	45	40	50	44	40	49	43	39	37
8	63	51	43	37	62	50	42	37	48	41	36	47	40	36	45	40	35	34
9	59	47	39	34	58	46	39	34	45	38	33	43	37	33	42	36	32	31
10	56	44	36	31	55	43	36	31	42	35	31	40	34	30	39	34	30	28

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

	0°	45°	90°
0°	9342	9342	9342
5°	9325	8760	8431
10°	9256	7843	7131
15°	9155	6905	6159
20°	9038	6080	5328
25°	8847	5330	4603
30°	8616	4631	3990
35°	8275	3994	3518
40°	7780	3446	3150
45°	7122	2977	2831
50°	6307	2573	2530
55°	5353	2217	2257
60°	4394	1914	2002
65°	3454	1680	1811
70°	2723	1504	1686
75°	2057	1392	1604
80°	1438	1313	1583
85°	844	1280	1627



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.1	5.0
10°-20°	146.7	12.6
20°-30°	192.9	16.6
30°-40°	200.4	17.2
40°-50°	178.0	15.3
50°-60°	136.9	11.8
60°-70°	93.4	8.0
70°-80°	60.5	5.2
80°-90°	38.0	3.3
90°-100°	24.2	2.1
100°-110°	15.7	1.3
110°-120°	9.9	0.8
120°-130°	5.7	0.5
130°-140°	2.9	0.2
140°-150°	1.2	0.1
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	397.8	34.1
0°-40°	598.2	51.3
0°-60°	913.1	78.4
0°-90°	1105.1	94.9
90°-120°	49.7	4.3
90°-150°	59.5	5.1
90°-180°	60.0	5.2
0°-180°	1165.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	651	651	651	651	651	
5°	651	643	625	610	605	62
15°	628	578	505	466	458	177
25°	578	478	388	351	343	266
35°	496	366	280	258	256	310
45°	376	251	195	191	194	290
55°	236	155	130	136	140	212
65°	118	87	84	94	98	120
75°	47	44	56	68	71	51
85°	9	20	37	50	54	11
90°	0	13	29	42	47	1
95°	0	8	23	36	41	0
105°	0	4	15	25	30	0
115°	0	2	9	18	21	0
125°	0	1	6	11	14	0
135°	0	0	3	7	8	0
145°	0	0	1	3	4	0
155°	0	0	0	1	1	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°	650.9	650.9	650.9	650.9	650.9
1°	654.7	653.3	650.0	644.8	642.9
2°	654.2	651.9	646.7	639.6	636.7
3°	653.7	649.5	641.5	631.5	628.2
4°	652.3	646.7	633.9	621.6	617.4
5°	651.4	642.9	625.4	609.8	605.1
6°	650.0	638.6	616.0	596.1	590.0
7°	648.5	633.9	605.1	581.5	573.9
8°	647.1	628.7	593.3	565.4	556.4
9°	645.2	623.0	581.5	549.8	539.4
10°	643.3	616.9	569.2	534.2	522.9
11°	641.0	610.3	556.4	518.6	507.8
12°	638.6	602.7	543.2	504.5	493.6
13°	635.3	594.7	530.5	491.3	480.4
14°	632.0	586.7	518.2	478.5	469.5
15°	628.2	577.7	505.4	466.2	457.7
16°	624.5	568.7	493.6	453.9	445.4
17°	620.7	559.3	481.3	442.1	433.6
18°	616.0	549.8	469.0	430.3	421.8
19°	611.7	540.4	457.2	419.0	410.0
20°	607.5	530.5	445.4	407.2	398.2
22.5°	593.3	505.4	416.6	378.8	369.9
25°	577.7	478.5	387.8	351.4	343.4
26°	571.1	468.1	376.9	341.0	333.0
27°	564.0	457.2	365.6	330.6	323.1
28°	557.4	446.4	354.3	320.7	313.6
29°	549.4	435.5	343.4	310.8	304.7
30°	541.8	424.2	332.1	301.4	294.8
32.5°	520.5	395.4	305.1	278.7	274.4
35°	496.4	366.5	280.1	257.9	255.5
37.5°	470.9	337.3	257.0	240.4	239.0
40°	440.7	308.0	234.3	223.0	223.0
42.5°	410.9	278.7	213.5	206.9	207.8
45°	376.5	250.8	194.6	191.3	193.7
47.5°	342.9	223.9	176.7	176.7	179.5
50°	307.0	199.3	160.1	162.5	165.8
52.5°	271.1	176.2	144.1	149.3	153.0
55°	236.2	154.9	129.9	136.5	140.3
57.5°	203.1	135.6	116.2	124.7	128.5
60°	172.4	116.7	104.4	113.4	116.7
62.5°	144.5	101.1	93.5	103.0	106.8
65°	117.6	86.9	84.1	94.0	97.8
67.5°	96.8	74.6	75.6	86.4	89.7
70°	77.9	63.3	68.0	79.4	83.1
72.5°	61.9	53.4	61.4	73.2	76.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	47.2	44.4	55.7	67.5	70.9
77.5°	35.0	36.8	50.1	62.4	66.1
80°	24.6	30.2	45.3	57.6	61.4
82.5°	16.1	24.6	40.6	53.4	57.6
85°	9.4	19.8	36.8	49.6	53.8
87.5°	4.3	16.1	33.1	45.8	50.1
90°	0.0	13.2	29.3	42.0	46.8
92.5°	0.0	10.4	26.5	38.7	43.5
95°	0.0	8.5	23.1	35.9	40.6
97.5°	0.0	7.1	20.8	33.1	37.3
100°	0.0	5.7	18.4	30.2	35.0
102.5°	0.0	4.7	16.5	27.4	32.1
105°	0.0	4.3	14.6	25.0	29.8
107.5°	0.0	3.3	13.2	23.1	27.4
110°	0.0	2.8	11.8	21.3	25.0
112.5°	0.0	2.8	10.4	18.9	22.7
115°	0.0	2.4	9.4	17.5	20.8
117.5°	0.0	1.9	8.5	15.6	18.9
120°	0.0	1.4	7.6	14.2	17.0
122.5°	0.0	1.4	6.6	12.8	15.1
125°	0.0	0.9	6.1	11.3	13.7
127.5°	0.0	0.9	5.2	9.9	11.8
130°	0.0	0.5	4.7	9.0	10.4
132.5°	0.0	0.5	4.3	7.6	9.0
135°	0.5	0.5	3.3	6.6	8.0
137.5°	0.0	0.5	2.8	5.7	6.6
140°	0.5	0.5	2.4	4.7	5.7
142.5°	0.5	0.5	1.9	4.3	4.7
145°	0.5	0.5	1.4	3.3	3.8
147.5°	0.5	0.5	0.9	2.8	3.3
150°	0.5	0.5	0.9	1.9	2.4
152.5°	0.5	0.5	0.5	1.4	1.9
155°	0.5	0.5	0.5	0.9	1.4
157.5°	0.5	0.5	0.5	0.5	0.9
160°	0.5	0.5	0.5	0.5	0.5
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)