

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: P236198

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236198
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-316-3)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2SWLED-8SL-LW-UNV-L850-CD1-U
Description: METALUX SWLED LINEAR LUMINAIRE
2FT FIXTURE WITH 1 ROW LED, WIDE LENS
Light Source: (56) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

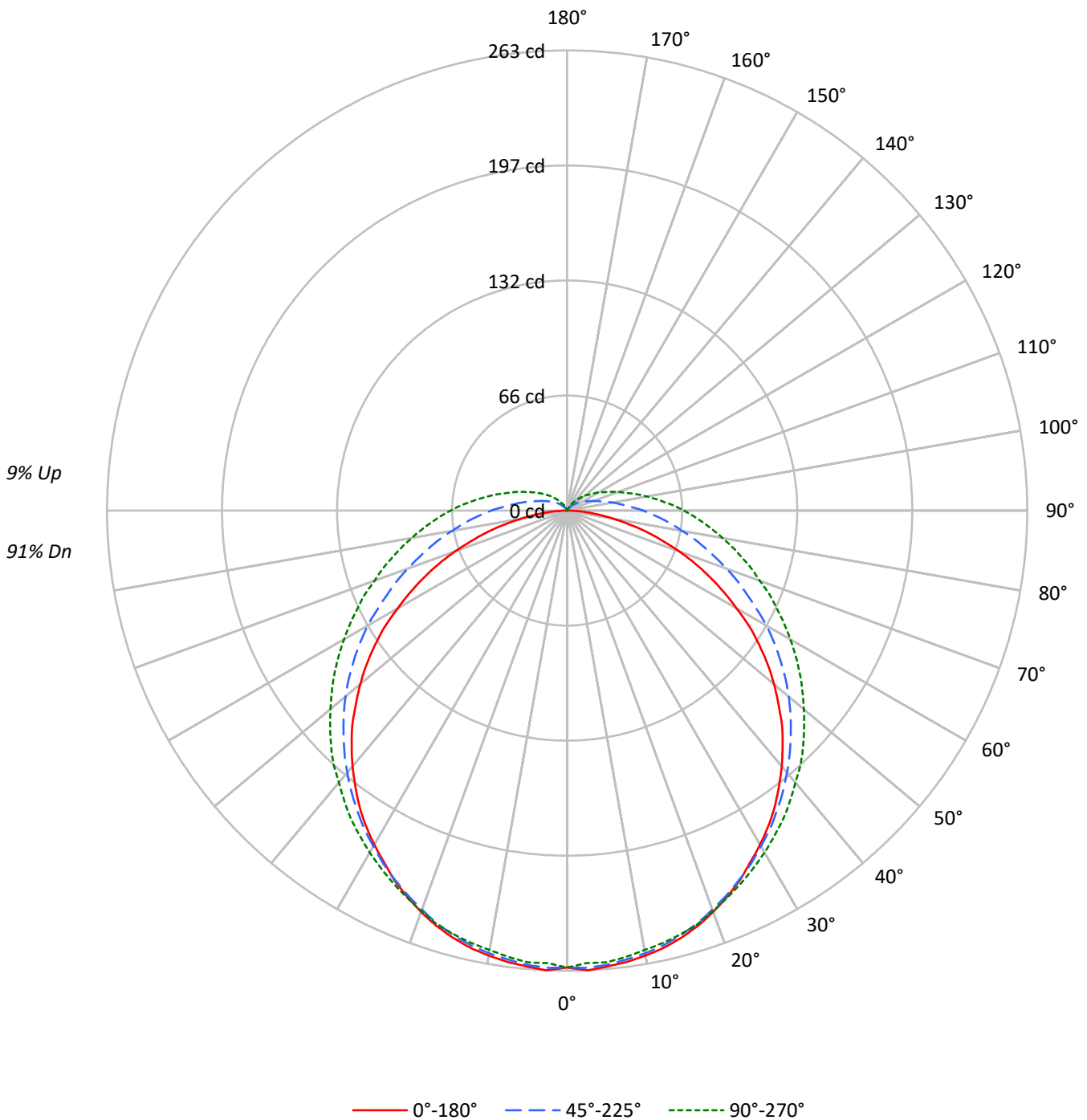
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 937.9 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.4
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	50	30	10	0	
RCR																						
0	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	94	94	94	91	
1	105	99	94	89	101	96	91	87	90	86	83	85	82	79	80	77	75	80	77	75	72	
2	94	85	78	71	91	83	76	70	78	72	67	73	68	64	69	65	61	69	65	61	59	
3	86	74	65	58	82	72	64	57	68	61	55	64	58	53	60	55	51	60	55	51	49	
4	78	65	56	49	75	64	55	48	60	52	47	56	50	45	53	48	44	53	48	44	41	
5	72	58	49	42	69	57	48	41	53	46	40	51	44	39	48	42	38	48	42	38	35	
6	66	52	43	36	64	51	42	36	48	41	35	46	39	34	43	37	33	43	37	33	31	
7	61	47	38	32	59	46	38	32	44	36	31	42	35	30	39	34	29	39	34	29	27	
8	57	43	34	28	55	42	34	28	40	33	27	38	31	27	36	30	26	36	30	26	24	
9	53	39	31	25	51	39	31	25	37	30	25	35	29	24	33	28	23	33	28	23	21	
10	50	36	28	23	48	36	28	23	34	27	22	32	26	22	31	25	21	31	25	21	19	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3747	3747	3747
5°	3745	3650	3611
10°	3716	3540	3478
15°	3681	3432	3373
20°	3632	3313	3259
25°	3573	3199	3151
30°	3507	3088	3055
35°	3447	2983	2965
40°	3369	2875	2868
45°	3288	2766	2788
50°	3172	2657	2694
55°	3039	2537	2613
60°	2852	2415	2526
65°	2649	2263	2448
70°	2377	2141	2376
75°	2036	2029	2339
80°	1573	1930	2326
85°	1015	1889	2356



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.7	2.6
10°-20°	70.9	7.6
20°-30°	107.7	11.5
30°-40°	131.4	14.0
40°-50°	140.0	14.9
50°-60°	132.8	14.2
60°-70°	111.7	11.9
70°-80°	83.2	8.9
80°-90°	55.1	5.9
90°-100°	34.2	3.6
100°-110°	21.0	2.2
110°-120°	12.6	1.3
120°-130°	7.3	0.8
130°-140°	3.6	0.4
140°-150°	1.4	0.2
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	203.3	21.7
0°-40°	334.8	35.7
0°-60°	607.6	64.8
0°-90°	857.5	91.4
90°-120°	67.8	7.2
90°-150°	80.2	8.5
90°-180°	80.0	8.5
0°-180°	937.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	261	261	261	261	261	
5°	262	262	261	259	259	25
15°	253	252	251	251	251	71
25°	233	233	233	234	235	107
35°	207	206	209	213	215	129
45°	174	175	181	188	191	134
55°	134	138	149	159	162	120
65°	90	99	113	128	132	89
75°	47	60	81	98	103	49
85°	11	30	54	72	78	12
90°	0	19	43	60	67	1
95°	0	12	34	50	56	0
105°	0	6	20	33	38	0
115°	0	3	13	22	25	0
125°	0	1	8	14	16	0
135°	0	0	4	8	10	0
145°	0	0	2	4	5	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°	261.1	261.1	261.1	261.1	261.1
2.5°	263.0	262.5	261.6	259.7	258.8
5°	261.6	261.6	260.6	259.2	259.2
7.5°	260.2	259.7	258.8	257.8	257.3
10°	258.3	258.3	256.9	255.5	255.0
12.5°	255.9	255.5	254.5	253.1	253.1
15°	252.6	252.1	251.2	250.7	250.7
17.5°	248.8	248.4	247.4	247.4	247.9
20°	244.1	243.6	242.7	243.2	243.6
22.5°	238.9	238.5	238.0	238.5	239.4
25°	233.3	232.8	232.8	234.2	235.1
27.5°	226.6	226.6	227.6	229.5	230.4
30°	220.5	220.0	221.5	224.3	225.7
32.5°	213.9	213.4	215.8	219.1	220.5
35°	206.8	206.3	209.2	213.0	215.3
37.5°	198.8	199.3	202.6	207.3	209.2
40°	190.8	191.2	195.5	201.2	203.0
42.5°	182.3	183.2	188.4	194.5	197.4
45°	173.8	175.2	180.8	187.9	190.8
47.5°	163.8	166.2	173.3	180.8	183.7
50°	154.4	157.2	165.3	173.8	176.6
52.5°	144.5	147.8	157.2	166.2	169.5
55°	134.1	138.4	148.7	158.7	162.4
57.5°	123.7	128.9	140.2	151.1	154.9
60°	111.9	118.0	131.7	143.1	147.3
62.5°	101.0	108.1	122.3	135.5	139.8
65°	90.2	98.7	113.3	127.5	132.2
67.5°	79.3	88.8	105.3	119.0	125.1
70°	68.0	78.9	96.8	111.4	117.1
72.5°	57.1	69.4	88.8	104.4	110.5
75°	46.7	60.4	81.2	97.7	103.4
77.5°	36.4	51.5	74.1	90.7	96.8
80°	26.9	43.4	66.6	84.0	90.2
82.5°	18.4	36.4	60.4	77.9	84.0
85°	11.3	29.7	54.3	71.8	77.9
87.5°	5.2	24.1	48.6	66.1	72.2
90°	0.5	19.4	43.4	60.4	66.6
92.5°	0.0	15.6	38.2	54.8	61.4
95°	0.0	12.3	33.5	49.6	55.7
97.5°	0.0	9.9	29.7	45.3	51.0
100°	0.0	8.5	26.4	40.6	46.3
102.5°	0.0	7.1	23.1	36.8	42.0
105°	0.0	6.1	20.3	33.1	37.8
107.5°	0.0	5.2	17.9	29.7	34.0
110°	0.0	4.7	16.1	26.9	31.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	3.8	14.2	24.1	27.9
115°	0.0	3.3	12.7	21.7	25.0
117.5°	0.0	2.8	11.3	19.4	22.7
120°	0.0	2.4	10.4	17.9	20.8
122.5°	0.0	1.9	9.0	16.1	18.4
125°	0.0	1.4	8.0	14.2	16.5
127.5°	0.0	1.4	7.1	12.7	14.6
130°	0.0	0.9	6.1	11.3	13.2
132.5°	0.0	0.9	5.2	9.9	11.8
135°	0.0	0.5	4.2	8.5	9.9
137.5°	0.0	0.5	3.8	7.1	8.5
140°	0.0	0.5	2.8	6.1	7.6
142.5°	0.0	0.0	2.4	5.2	6.1
145°	0.0	0.0	1.9	4.2	5.2
147.5°	0.0	0.0	1.4	3.3	4.2
150°	0.0	0.0	0.9	2.4	3.3
152.5°	0.5	0.0	0.5	1.9	2.4
155°	0.0	0.0	0.0	0.9	1.4
157.5°	0.0	0.0	0.0	0.5	0.9
160°	0.0	0.0	0.0	0.0	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)