

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: P236187

Luminaire Tested: **2SWLED-8SL-LN-UNV-L835-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236187
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-L835-CD1-U
Description: METALUX SWLED LINEAR LUMINAIRE
2FT FIXTURE WITH 1 ROW LED, NARROW LENS
Light Source: (56) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

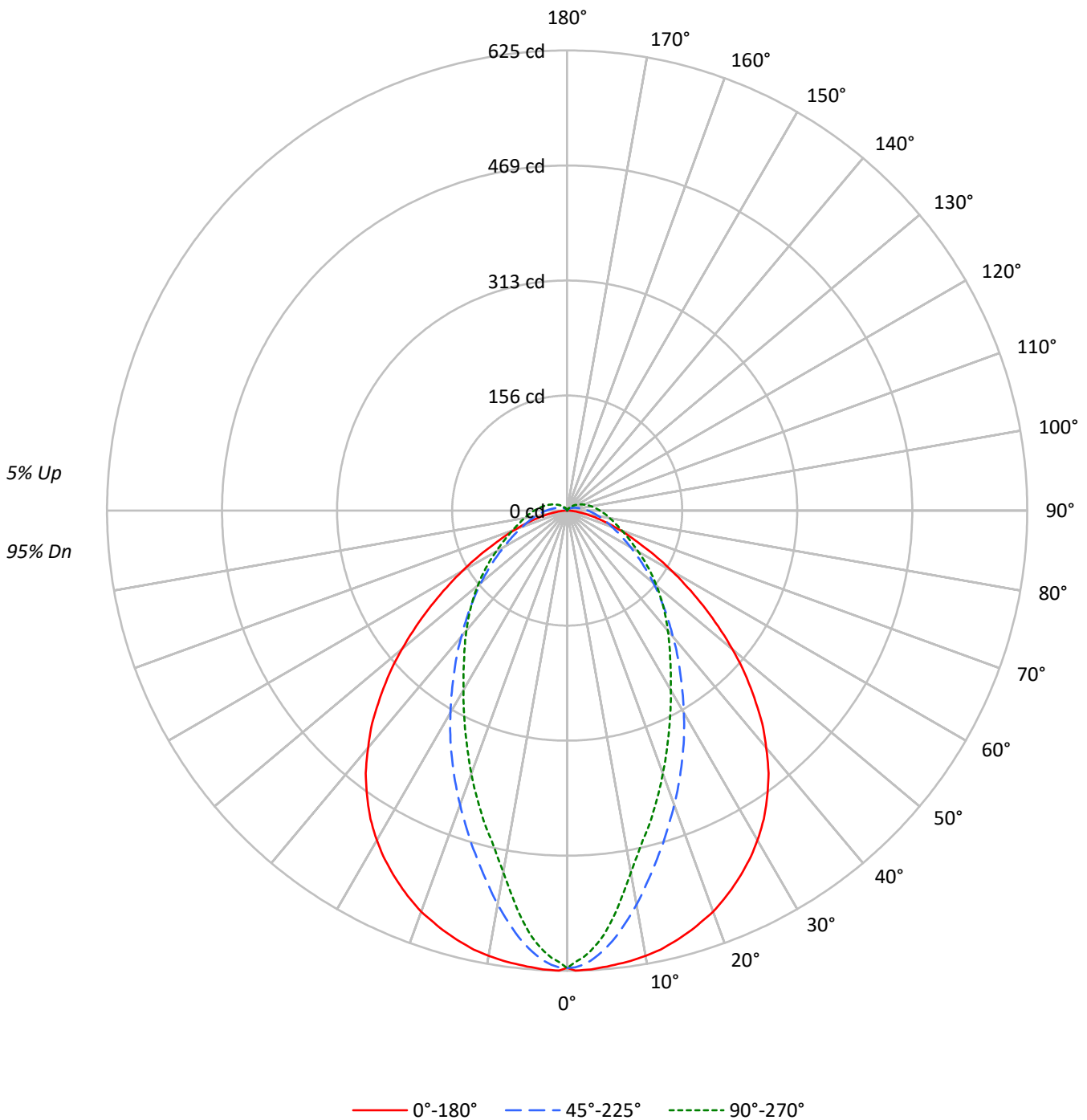
Lumens per Lamp: N/A
Luminaire Lumens: 1112.1 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 0.74 / 0.96
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 2' x H: 0.15')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8917	8917	8917
5°	8900	8361	8048
10°	8836	7487	6807
15°	8740	6591	5879
20°	8626	5804	5085
25°	8445	5088	4394
30°	8223	4420	3807
35°	7900	3813	3359
40°	7427	3288	3006
45°	6797	2843	2702
50°	6021	2456	2415
55°	5108	2116	2154
60°	4195	1826	1911
65°	3298	1604	1728
70°	2601	1435	1611
75°	1966	1330	1529
80°	1368	1255	1511
85°	808	1225	1554



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.5	5.0
10°-20°	140.1	12.6
20°-30°	184.2	16.6
30°-40°	191.3	17.2
40°-50°	169.9	15.3
50°-60°	130.7	11.8
60°-70°	89.2	8.0
70°-80°	57.8	5.2
80°-90°	36.3	3.3
90°-100°	23.1	2.1
100°-110°	15.0	1.3
110°-120°	9.4	0.8
120°-130°	5.4	0.5
130°-140°	2.7	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°	379.7	34.1
0°-40°	571.0	51.3
0°-60°	871.6	78.4
0°-90°	1054.8	94.9
90°-120°	47.5	4.3
90°-150°	56.9	5.1
90°-180°	57.0	5.1
0°-180°	1112.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	621	621	621	621	621	
5°	622	614	597	582	578	59
15°	600	551	482	445	437	169
25°	551	457	370	335	328	254
35°	474	350	267	246	244	296
45°	359	239	186	183	185	277
55°	225	148	124	130	134	202
65°	112	83	80	90	93	114
75°	45	42	53	64	68	49
85°	9	19	35	47	51	10
90°	0	13	28	40	45	1
95°	0	8	22	34	39	0
105°	0	4	14	24	28	0
115°	0	2	9	17	20	0
125°	0	1	6	11	13	0
135°	0	0	3	6	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°	621.3	621.3	621.3	621.3	621.3
1°	624.9	623.5	620.4	615.4	613.6
2°	624.5	622.2	617.2	610.5	607.8
3°	624.0	619.9	612.3	602.8	599.7
4°	622.6	617.2	605.1	593.3	589.3
5°	621.7	613.6	596.9	582.1	577.6
6°	620.4	609.6	587.9	569.0	563.1
7°	619.0	605.1	577.6	555.0	547.8
8°	617.7	600.1	566.3	539.7	531.1
9°	615.9	594.7	555.0	524.8	514.9
10°	614.1	588.8	543.3	509.9	499.1
11°	611.8	582.5	531.1	495.1	484.7
12°	609.6	575.3	518.5	481.5	471.2
13°	606.4	567.6	506.3	468.9	458.5
14°	603.3	560.0	494.6	456.7	448.2
15°	599.7	551.4	482.4	445.0	436.9
16°	596.0	542.8	471.2	433.3	425.2
17°	592.4	533.8	459.4	422.0	413.9
18°	587.9	524.8	447.7	410.7	402.6
19°	583.9	515.8	436.4	399.9	391.4
20°	579.8	506.3	425.2	388.6	380.1
22.5°	566.3	482.4	397.7	361.6	353.0
25°	551.4	456.7	370.2	335.4	327.8
26°	545.1	446.8	359.8	325.5	317.9
27°	538.3	436.4	349.0	315.6	308.4
28°	532.0	426.1	338.2	306.1	299.4
29°	524.4	415.7	327.8	296.7	290.8
30°	517.1	404.9	317.0	287.7	281.3
32.5°	496.9	377.4	291.3	266.0	262.0
35°	473.9	349.9	267.4	246.2	243.9
37.5°	449.5	321.9	245.3	229.5	228.1
40°	420.7	294.0	223.6	212.8	212.8
42.5°	392.3	266.0	203.8	197.5	198.4
45°	359.3	239.4	185.8	182.6	184.9
47.5°	327.3	213.7	168.6	168.6	171.3
50°	293.1	190.3	152.8	155.1	158.3
52.5°	258.8	168.2	137.5	142.5	146.1
55°	225.4	147.9	124.0	130.3	133.9
57.5°	193.9	129.4	110.9	119.0	122.6
60°	164.6	111.4	99.6	108.2	111.4
62.5°	138.0	96.5	89.3	98.3	101.9
65°	112.3	83.0	80.3	89.7	93.3
67.5°	92.4	71.2	72.1	82.5	85.7
70°	74.4	60.4	64.9	75.7	79.4
72.5°	59.1	50.9	58.6	69.9	73.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	45.1	42.4	53.2	64.5	67.6
77.5°	33.4	35.2	47.8	59.5	63.1
80°	23.4	28.9	43.3	55.0	58.6
82.5°	15.3	23.4	38.8	50.9	55.0
85°	9.0	18.9	35.2	47.3	51.4
87.5°	4.1	15.3	31.6	43.7	47.8
90°	0.0	12.6	28.0	40.1	44.6
92.5°	0.0	9.9	25.2	37.0	41.5
95°	0.0	8.1	22.1	34.3	38.8
97.5°	0.0	6.8	19.8	31.6	35.6
100°	0.0	5.4	17.6	28.9	33.4
102.5°	0.0	4.5	15.8	26.2	30.7
105°	0.0	4.1	14.0	23.9	28.4
107.5°	0.0	3.2	12.6	22.1	26.2
110°	0.0	2.7	11.3	20.3	23.9
112.5°	0.0	2.7	9.9	18.0	21.6
115°	0.0	2.3	9.0	16.7	19.8
117.5°	0.0	1.8	8.1	14.9	18.0
120°	0.0	1.4	7.2	13.5	16.2
122.5°	0.0	1.4	6.3	12.2	14.4
125°	0.0	0.9	5.9	10.8	13.1
127.5°	0.0	0.9	5.0	9.5	11.3
130°	0.0	0.5	4.5	8.6	9.9
132.5°	0.0	0.5	4.1	7.2	8.6
135°	0.5	0.5	3.2	6.3	7.7
137.5°	0.0	0.5	2.7	5.4	6.3
140°	0.5	0.5	2.3	4.5	5.4
142.5°	0.5	0.5	1.8	4.1	4.5
145°	0.5	0.5	1.4	3.2	3.6
147.5°	0.5	0.5	0.9	2.7	3.2
150°	0.5	0.5	0.9	1.8	2.3
152.5°	0.5	0.5	0.5	1.4	1.8
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)