

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: P236196

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236196
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-L835-CD1-U
Description: METALUX SWLED LINEAR LUMINAIRE
2FT FIXTURE WITH 1 ROW LED, WIDE LENS
Light Source: (56) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

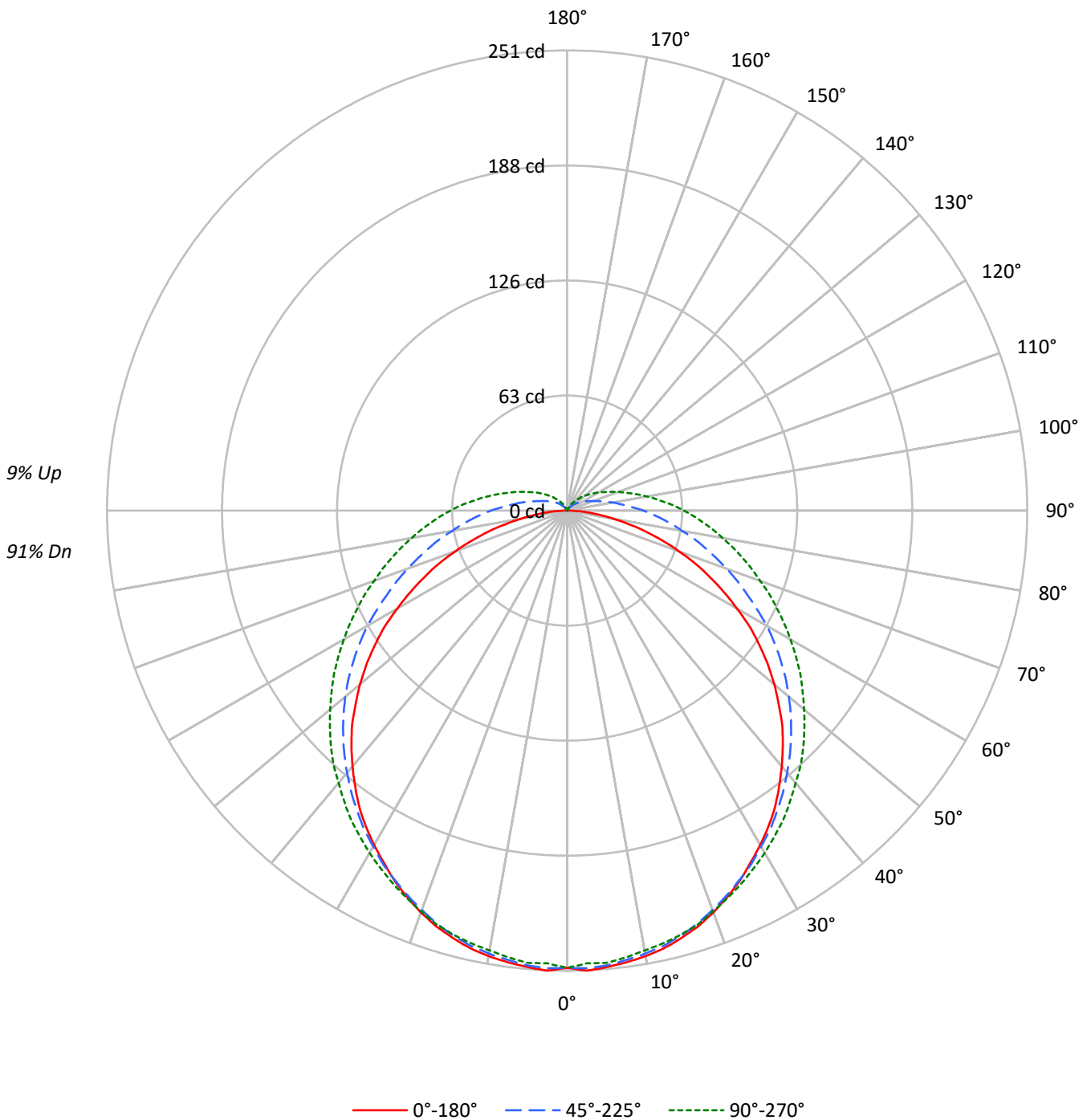
Lumens per Lamp: N/A
Luminaire Lumens: 896.0 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 2' x H: 0.15')
CIE Type: Direct

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°	3579	3579	3579
5°	3577	3488	3450
10°	3550	3382	3322
15°	3517	3279	3223
20°	3470	3164	3113
25°	3412	3056	3011
30°	3349	2949	2918
35°	3294	2849	2833
40°	3217	2746	2739
45°	3140	2644	2663
50°	3030	2538	2574
55°	2903	2425	2497
60°	2724	2306	2413
65°	2529	2163	2339
70°	2272	2046	2270
75°	1948	1939	2235
80°	1503	1843	2220
85°	970	1806	2250



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.6	2.6
10°-20°	67.8	7.6
20°-30°	102.8	11.5
30°-40°	125.5	14.0
40°-50°	133.8	14.9
50°-60°	126.9	14.2
60°-70°	106.7	11.9
70°-80°	79.5	8.9
80°-90°	52.6	5.9
90°-100°	32.6	3.6
100°-110°	20.1	2.2
110°-120°	12.1	1.3
120°-130°	7.0	0.8
130°-140°	3.5	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°	194.2	21.7
0°-40°	319.8	35.7
0°-60°	580.4	64.8
0°-90°	819.1	91.4
90°-120°	64.8	7.2
90°-150°	76.6	8.6
90°-180°	77.0	8.6
0°-180°	896.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	249	249	249	249	249	
5°	250	250	249	248	248	24
15°	241	241	240	240	240	68
25°	223	222	222	224	225	103
35°	198	197	200	203	206	123
45°	166	167	173	180	182	128
55°	128	132	142	152	155	114
65°	86	94	108	122	126	85
75°	45	58	78	93	99	47
85°	11	28	52	69	74	12
90°	0	18	42	58	64	1
95°	0	12	32	47	53	0
105°	0	6	19	32	36	0
115°	0	3	12	21	24	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°	249.4	249.4	249.4	249.4	249.4
2.5°	251.2	250.8	249.9	248.1	247.2
5°	249.9	249.9	249.0	247.6	247.6
7.5°	248.5	248.1	247.2	246.3	245.8
10°	246.7	246.7	245.4	244.0	243.6
12.5°	244.5	244.0	243.1	241.8	241.8
15°	241.3	240.9	240.0	239.5	239.5
17.5°	237.7	237.2	236.3	236.3	236.8
20°	233.2	232.7	231.8	232.3	232.7
22.5°	228.2	227.8	227.3	227.8	228.7
25°	222.8	222.4	222.4	223.7	224.6
27.5°	216.5	216.5	217.4	219.2	220.1
30°	210.6	210.2	211.5	214.2	215.6
32.5°	204.3	203.9	206.1	209.3	210.6
35°	197.6	197.1	199.8	203.4	205.7
37.5°	189.9	190.3	193.5	198.0	199.8
40°	182.2	182.7	186.7	192.1	193.9
42.5°	174.1	175.0	180.0	185.8	188.5
45°	166.0	167.3	172.8	179.5	182.2
47.5°	156.5	158.8	165.5	172.8	175.5
50°	147.5	150.2	157.9	166.0	168.7
52.5°	138.0	141.2	150.2	158.8	161.9
55°	128.1	132.2	142.1	151.6	155.2
57.5°	118.2	123.1	134.0	144.3	147.9
60°	106.9	112.8	125.8	136.7	140.7
62.5°	96.5	103.3	116.8	129.4	133.5
65°	86.1	94.3	108.3	121.8	126.3
67.5°	75.8	84.8	100.6	113.7	119.5
70°	65.0	75.3	92.5	106.4	111.9
72.5°	54.6	66.3	84.8	99.7	105.5
75°	44.7	57.7	77.6	93.4	98.8
77.5°	34.7	49.2	70.8	86.6	92.5
80°	25.7	41.5	63.6	80.3	86.1
82.5°	17.6	34.7	57.7	74.4	80.3
85°	10.8	28.4	51.9	68.6	74.4
87.5°	5.0	23.0	46.5	63.1	69.0
90°	0.5	18.5	41.5	57.7	63.6
92.5°	0.0	14.9	36.5	52.3	58.6
95°	0.0	11.7	32.0	47.4	53.2
97.5°	0.0	9.5	28.4	43.3	48.7
100°	0.0	8.1	25.3	38.8	44.2
102.5°	0.0	6.8	22.1	35.2	40.1
105°	0.0	5.9	19.4	31.6	36.1
107.5°	0.0	5.0	17.1	28.4	32.5
110°	0.0	4.5	15.3	25.7	29.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	3.6	13.5	23.0	26.6
115°	0.0	3.2	12.2	20.7	23.9
117.5°	0.0	2.7	10.8	18.5	21.7
120°	0.0	2.3	9.9	17.1	19.8
122.5°	0.0	1.8	8.6	15.3	17.6
125°	0.0	1.4	7.7	13.5	15.8
127.5°	0.0	1.4	6.8	12.2	14.0
130°	0.0	0.9	5.9	10.8	12.6
132.5°	0.0	0.9	5.0	9.5	11.3
135°	0.0	0.5	4.1	8.1	9.5
137.5°	0.0	0.5	3.6	6.8	8.1
140°	0.0	0.5	2.7	5.9	7.2
142.5°	0.0	0.0	2.3	5.0	5.9
145°	0.0	0.0	1.8	4.1	5.0
147.5°	0.0	0.0	1.4	3.2	4.1
150°	0.0	0.0	0.9	2.3	3.2
152.5°	0.5	0.0	0.5	1.8	2.3
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)