

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: P236262

Luminaire Tested: **4SWLED-20SL-LW-UNV-L835-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236262
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-316-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SWLED-20SL-LW-UNV-L835-CD1-U
Description: METALUX SWLED LINEAR LUMINAIRE
4FT FIXTURE WITH 1 ROW LED, WIDE LENS
Light Source: (112) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

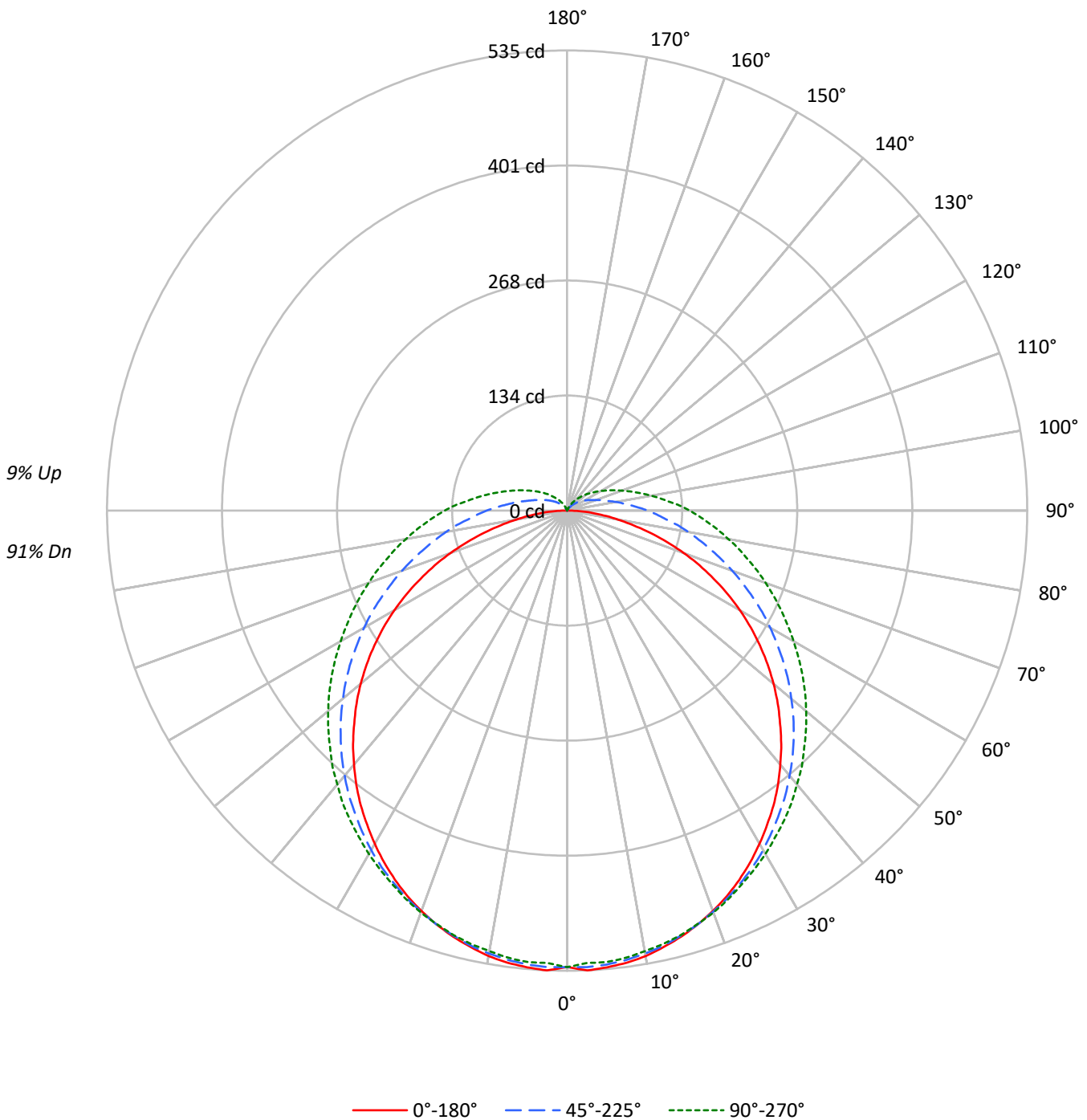
Lumens per Lamp: N/A
Luminaire Lumens: 1944.0 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

Input Watts (W): 17.6
Input Voltage (V): 120
Input Current (A_{in}): 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	104	99	94	89	101	96	91	87	90	86	82	84	81	78	79	76	74	74	74	74	71	
2	94	85	77	71	91	82	75	69	77	71	66	72	68	63	68	64	61	61	61	61	58	
3	85	74	65	58	82	72	63	57	67	60	55	63	57	53	60	55	51	51	51	51	48	
4	78	65	56	49	75	63	55	48	59	52	46	56	50	45	53	47	43	43	43	43	40	
5	71	58	49	42	69	56	47	41	53	45	40	50	43	38	47	42	37	37	37	37	35	
6	66	52	43	36	63	51	42	35	48	40	34	45	39	33	43	37	32	32	32	32	30	
7	61	47	38	32	59	46	37	31	43	36	30	41	34	29	39	33	29	29	29	29	26	
8	57	43	34	28	55	42	33	28	40	32	27	38	31	26	36	30	26	26	26	26	23	
9	53	39	31	25	51	38	30	25	36	29	24	35	28	24	33	27	23	23	23	23	21	
10	50	36	28	23	48	35	28	22	34	27	22	32	26	21	31	25	21	21	21	21	19	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3808	3808	3808
5°	3828	3718	3671
10°	3808	3619	3547
15°	3773	3516	3437
20°	3734	3416	3327
25°	3687	3316	3216
30°	3631	3217	3119
35°	3574	3112	3027
40°	3504	3010	2935
45°	3428	2905	2848
50°	3352	2797	2767
55°	3254	2687	2687
60°	3132	2572	2608
65°	2967	2455	2542
70°	2752	2347	2490
75°	2436	2246	2453
80°	2055	2183	2453
85°	1604	2137	2496



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	2.6
10°-20°	144.0	7.4
20°-30°	219.3	11.3
30°-40°	267.9	13.8
40°-50°	285.9	14.7
50°-60°	272.8	14.0
60°-70°	232.7	12.0
70°-80°	175.8	9.0
80°-90°	118.0	6.1
90°-100°	74.0	3.8
100°-110°	46.1	2.4
110°-120°	28.3	1.5
120°-130°	16.5	0.8
130°-140°	8.4	0.4
140°-150°	3.3	0.2
150°-160°	0.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	413.6	21.3
0°-40°	681.5	35.1
0°-60°	1240.2	63.8
0°-90°	1766.7	90.9
90°-120°	148.3	7.6
90°-150°	176.5	9.1
90°-180°	177.0	9.1
0°-180°	1944.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	531	531	531	531	531	
5°	533	527	530	527	527	51
15°	513	508	511	510	511	145
25°	474	470	478	478	480	218
35°	418	418	430	434	440	262
45°	350	356	372	383	390	270
55°	274	284	307	324	334	245
65°	188	206	238	263	275	186
75°	100	128	172	206	217	106
85°	28	64	115	152	165	29
90°	0	44	94	130	142	2
95°	0	28	73	106	119	0
105°	0	14	45	72	82	0
115°	0	8	29	48	56	0
125°	0	4	18	32	37	0
135°	0	2	10	19	23	0
145°	0	0	4	10	12	0
155°	0	0	1	3	4	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°	530.7	530.7	530.7	530.7	530.7
2.5°	535.1	528.8	531.2	529.3	526.4
5°	533.1	527.3	529.8	527.3	526.9
7.5°	530.2	524.4	526.9	524.9	524.4
10°	525.9	519.6	523.0	520.6	520.1
12.5°	519.6	514.3	518.1	515.7	516.2
15°	512.8	507.5	511.4	510.4	510.9
17.5°	504.6	499.7	504.6	503.6	504.1
20°	495.4	491.0	496.3	495.9	497.3
22.5°	485.2	480.9	487.6	486.7	489.1
25°	473.6	470.2	477.5	477.9	479.9
27.5°	461.0	458.6	467.3	467.8	470.7
30°	447.4	445.5	455.7	457.6	461.0
32.5°	432.9	432.4	443.1	446.5	450.3
35°	418.4	417.9	430.0	434.4	439.7
37.5°	402.4	403.4	416.9	422.7	428.6
40°	385.5	386.9	402.4	409.7	415.5
42.5°	368.5	372.4	387.9	397.1	403.9
45°	350.1	355.9	372.4	383.0	389.8
47.5°	332.2	339.0	356.9	369.0	376.7
50°	313.3	321.1	340.4	354.5	362.7
52.5°	293.9	302.7	324.0	339.9	348.7
55°	273.6	284.2	307.0	324.4	334.1
57.5°	253.3	265.4	289.6	309.9	319.1
60°	232.0	245.5	272.6	293.9	304.1
62.5°	210.6	226.1	255.7	279.4	289.1
65°	188.4	205.8	237.8	263.4	274.6
67.5°	166.6	186.4	220.8	248.4	260.0
70°	144.3	166.1	204.3	233.9	245.5
72.5°	122.0	146.7	187.9	219.8	231.5
75°	99.8	127.8	171.9	205.8	216.9
77.5°	78.9	109.0	156.9	191.3	203.9
80°	60.0	92.5	142.9	178.2	190.3
82.5°	42.6	78.0	129.3	165.1	177.7
85°	27.6	64.4	115.2	152.5	165.1
87.5°	13.6	52.8	104.1	140.9	153.5
90°	0.5	43.6	93.5	129.8	142.4
92.5°	0.0	34.9	82.8	117.7	131.2
95°	0.0	28.1	73.1	106.5	118.6
97.5°	0.0	23.2	64.9	97.3	109.0
100°	0.0	18.9	57.6	88.1	99.3
102.5°	0.0	16.0	50.8	79.9	90.6
105°	0.0	13.6	45.0	72.2	82.3
107.5°	0.0	12.1	40.2	65.4	74.6
110°	0.0	10.7	35.8	59.1	67.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	9.2	32.0	53.3	61.5
115°	0.0	7.7	29.1	47.9	55.7
117.5°	0.0	6.8	26.1	43.1	50.4
120°	0.0	5.8	23.2	39.2	45.5
122.5°	0.0	4.8	20.8	35.3	41.2
125°	0.0	4.4	18.4	31.5	36.8
127.5°	0.0	3.4	16.5	28.1	33.4
130°	0.0	2.9	14.0	25.2	29.5
132.5°	0.0	1.9	12.1	22.3	26.1
135°	0.0	1.5	10.2	19.4	22.8
137.5°	0.0	1.0	8.7	16.9	19.9
140°	0.0	1.0	6.8	14.5	16.9
142.5°	0.0	0.5	5.3	12.1	14.5
145°	0.0	0.5	4.4	9.7	12.1
147.5°	0.5	0.0	2.9	7.7	9.7
150°	0.5	0.0	2.4	5.8	7.7
152.5°	0.5	0.0	1.5	4.4	5.8
155°	0.5	0.0	1.0	2.9	3.9
157.5°	0.5	0.5	0.5	1.5	2.4
160°	0.5	0.0	0.0	1.0	1.5
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)