

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: P236202

Luminaire Tested: **2SWLED-20SL-LW-UNV-L835-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236202
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-20SL-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

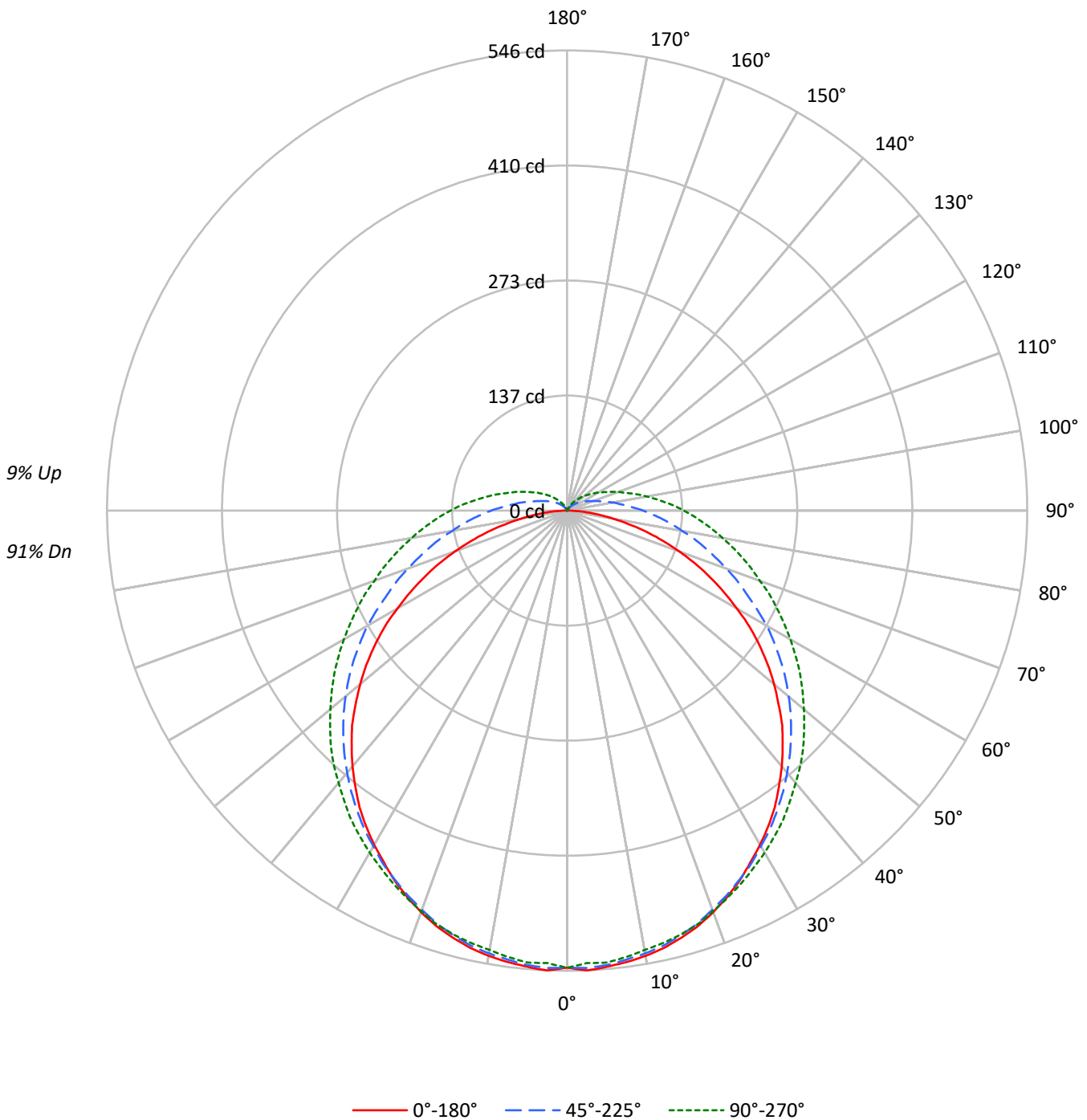
Lumens per Lamp: N/A
Luminaire Lumens: 1948.0 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 2' x H: 0.15')
CIE Type: Direct

Input Watts (W): 20.6
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	75	75	75	72	
2	94	85	78	71	91	83	76	70	78	72	67	73	68	64	69	65	61	61	61	61	59	
3	86	74	65	58	82	72	64	57	68	61	55	64	58	53	60	55	51	51	51	51	49	
4	78	65	56	49	75	64	55	48	60	52	47	56	50	45	53	48	44	44	44	44	41	
5	72	58	49	42	69	57	48	41	53	46	40	51	44	39	48	42	38	38	38	38	35	
6	66	52	43	36	64	51	42	36	48	41	35	46	39	34	43	37	33	33	33	33	31	
7	61	47	38	32	59	46	38	32	44	36	31	42	35	30	39	34	29	29	29	29	27	
8	57	43	34	28	55	42	34	28	40	33	27	38	31	27	36	30	26	26	26	26	24	
9	53	39	31	25	51	39	31	25	37	30	25	35	29	24	33	28	23	23	23	23	21	
10	50	36	28	23	48	36	28	23	34	27	22	32	26	22	31	25	21	21	21	21	19	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7783	7783	7783
5°	7778	7582	7501
10°	7718	7352	7221
15°	7645	7128	7007
20°	7543	6880	6770
25°	7419	6643	6546
30°	7282	6413	6343
35°	7159	6195	6158
40°	6995	5970	5957
45°	6827	5747	5790
50°	6588	5516	5596
55°	6311	5271	5426
60°	5923	5016	5248
65°	5500	4700	5085
70°	4936	4446	4934
75°	4233	4216	4859
80°	3268	4008	4829
85°	2111	3925	4893



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.4	2.6
10°-20°	147.3	7.6
20°-30°	223.6	11.5
30°-40°	272.9	14.0
40°-50°	290.8	14.9
50°-60°	275.8	14.2
60°-70°	231.9	11.9
70°-80°	172.7	8.9
80°-90°	114.5	5.9
90°-100°	71.0	3.6
100°-110°	43.6	2.2
110°-120°	26.3	1.3
120°-130°	15.2	0.8
130°-140°	7.6	0.4
140°-150°	2.9	0.2
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	422.3	21.7
0°-40°	695.2	35.7
0°-60°	1261.8	64.8
0°-90°	1780.9	91.4
90°-120°	140.9	7.2
90°-150°	166.5	8.5
90°-180°	167.0	8.6
0°-180°	1948.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	542	542	542	542	542	
5°	543	543	541	538	538	52
15°	525	524	522	521	521	148
25°	484	483	483	486	488	223
35°	430	428	434	442	447	268
45°	361	364	376	390	396	278
55°	278	287	309	330	337	249
65°	187	205	235	265	275	185
75°	97	126	169	203	215	103
85°	24	62	113	149	162	26
90°	1	40	90	126	138	2
95°	0	26	70	103	116	0
105°	0	13	42	69	78	0
115°	0	7	26	45	52	0
125°	0	3	17	29	34	0
135°	0	1	9	18	21	0
145°	0	0	4	9	11	0
155°	0	0	0	2	3	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°	542.3	542.3	542.3	542.3	542.3
2.5°	546.2	545.2	543.3	539.3	537.4
5°	543.3	543.3	541.3	538.4	538.4
7.5°	540.3	539.3	537.4	535.4	534.4
10°	536.4	536.4	533.5	530.5	529.5
12.5°	531.5	530.5	528.6	525.6	525.6
15°	524.6	523.7	521.7	520.7	520.7
17.5°	516.8	515.8	513.8	513.8	514.8
20°	507.0	506.0	504.0	505.0	506.0
22.5°	496.2	495.2	494.2	495.2	497.2
25°	484.4	483.4	483.4	486.4	488.3
27.5°	470.7	470.7	472.7	476.6	478.5
30°	457.9	457.0	459.9	465.8	468.7
32.5°	444.2	443.2	448.1	455.0	457.9
35°	429.5	428.5	434.4	442.3	447.2
37.5°	412.8	413.8	420.7	430.5	434.4
40°	396.2	397.2	406.0	417.7	421.7
42.5°	378.5	380.5	391.3	404.0	409.9
45°	360.9	363.8	375.6	390.3	396.2
47.5°	340.3	345.2	359.9	375.6	381.5
50°	320.7	326.5	343.2	360.9	366.8
52.5°	300.1	306.9	326.5	345.2	352.0
55°	278.5	287.3	308.9	329.5	337.3
57.5°	256.9	267.7	291.2	313.8	321.6
60°	232.4	245.2	273.6	297.1	306.0
62.5°	209.9	224.6	254.0	281.4	290.3
65°	187.3	204.9	235.3	264.8	274.6
67.5°	164.7	184.4	218.7	247.1	259.9
70°	141.2	163.8	201.0	231.4	243.2
72.5°	118.7	144.2	184.4	216.7	229.5
75°	97.1	125.5	168.7	203.0	214.8
77.5°	75.5	106.9	154.0	188.3	201.0
80°	55.9	90.2	138.3	174.6	187.3
82.5°	38.2	75.5	125.5	161.8	174.6
85°	23.5	61.8	112.8	149.1	161.8
87.5°	10.8	50.0	101.0	137.3	150.0
90°	1.0	40.2	90.2	125.5	138.3
92.5°	0.0	32.4	79.4	113.8	127.5
95°	0.0	25.5	69.6	103.0	115.7
97.5°	0.0	20.6	61.8	94.1	105.9
100°	0.0	17.7	54.9	84.3	96.1
102.5°	0.0	14.7	48.1	76.5	87.3
105°	0.0	12.7	42.2	68.6	78.4
107.5°	0.0	10.8	37.3	61.8	70.6
110°	0.0	9.8	33.3	55.9	64.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	7.8	29.4	50.0	57.9
115°	0.0	6.9	26.5	45.1	52.0
117.5°	0.0	5.9	23.5	40.2	47.1
120°	0.0	4.9	21.6	37.3	43.1
122.5°	0.0	3.9	18.6	33.3	38.2
125°	0.0	2.9	16.7	29.4	34.3
127.5°	0.0	2.9	14.7	26.5	30.4
130°	0.0	2.0	12.7	23.5	27.5
132.5°	0.0	2.0	10.8	20.6	24.5
135°	0.0	1.0	8.8	17.7	20.6
137.5°	0.0	1.0	7.8	14.7	17.7
140°	0.0	1.0	5.9	12.7	15.7
142.5°	0.0	0.0	4.9	10.8	12.7
145°	0.0	0.0	3.9	8.8	10.8
147.5°	0.0	0.0	2.9	6.9	8.8
150°	0.0	0.0	2.0	4.9	6.9
152.5°	1.0	0.0	1.0	3.9	4.9
155°	0.0	0.0	0.0	2.0	2.9
157.5°	0.0	0.0	0.0	1.0	2.0
160°	0.0	0.0	0.0	0.0	1.0
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)