

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: P236197

Luminaire Tested: **2SWLED-8SL-LW-UNV-L840-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236197
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-L840-CD1-U
Description: METALUX SWLED LINEAR LUMINAIRE
2FT FIXTURE WITH 1 ROW LED, WIDE LENS
Light Source: (56) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

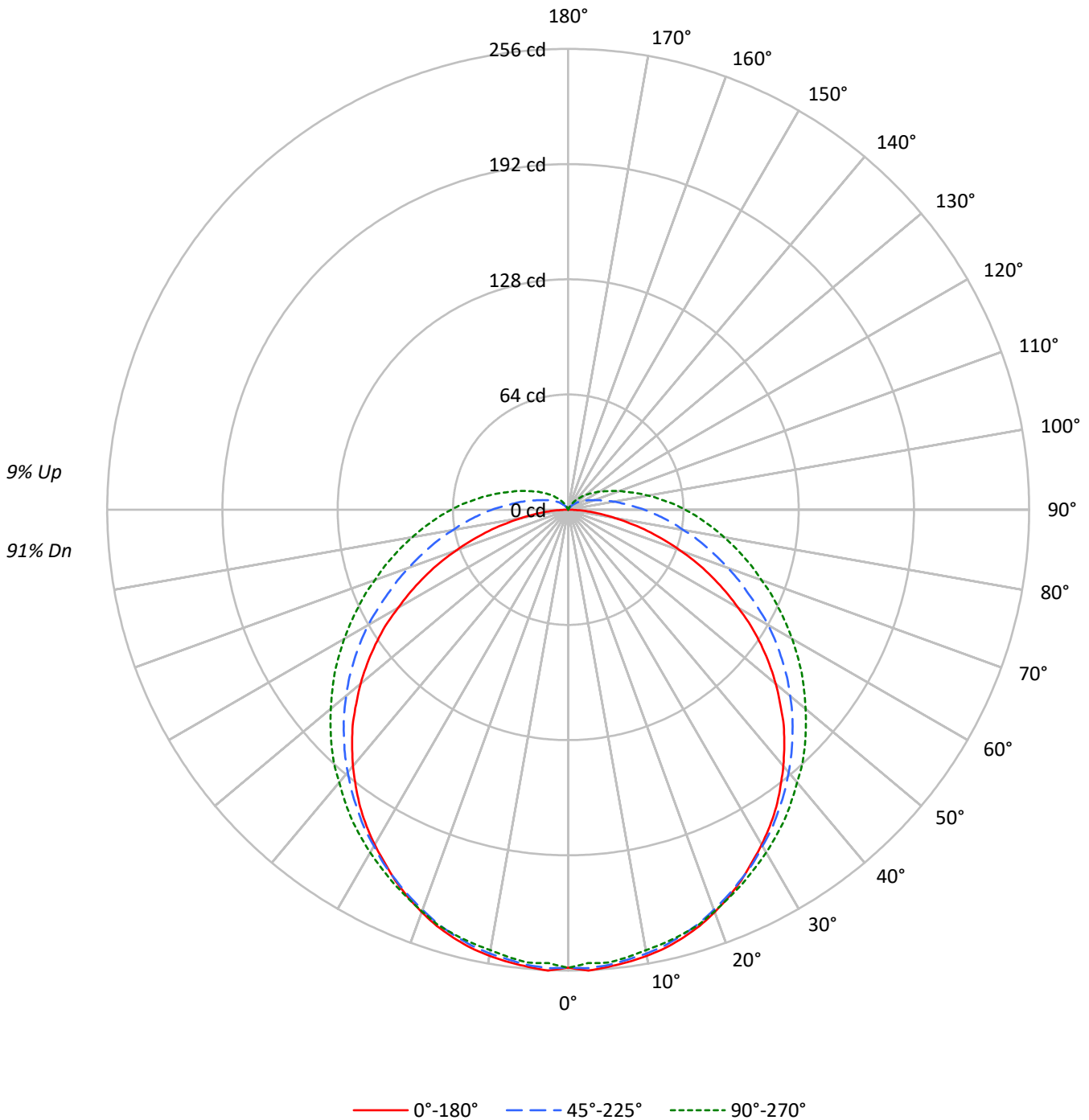
Lumens per Lamp: N/A
Luminaire Lumens: 914.0 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 2' x H: 0.15')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3651	3651	3651
5°	3649	3558	3519
10°	3622	3449	3389
15°	3588	3345	3287
20°	3540	3228	3176
25°	3481	3117	3071
30°	3417	3009	2976
35°	3359	2906	2889
40°	3282	2801	2794
45°	3203	2696	2717
50°	3092	2588	2626
55°	2962	2473	2547
60°	2778	2354	2463
65°	2581	2205	2385
70°	2318	2086	2315
75°	1988	1977	2280
80°	1532	1881	2266
85°	988	1841	2295



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.1	2.6
10°-20°	69.1	7.6
20°-30°	104.9	11.5
30°-40°	128.0	14.0
40°-50°	136.4	14.9
50°-60°	129.4	14.2
60°-70°	108.8	11.9
70°-80°	81.0	8.9
80°-90°	53.7	5.9
90°-100°	33.3	3.6
100°-110°	20.5	2.2
110°-120°	12.3	1.3
120°-130°	7.1	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°	198.1	21.7
0°-40°	326.2	35.7
0°-60°	592.1	64.8
0°-90°	835.6	91.4
90°-120°	66.1	7.2
90°-150°	78.2	8.6
90°-180°	78.0	8.5
0°-180°	914.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	254	254	254	254	254	
5°	255	255	254	253	253	24
15°	246	246	245	244	244	69
25°	227	227	227	228	229	105
35°	202	201	204	208	210	126
45°	169	171	176	183	186	130
55°	131	135	145	155	158	117
65°	88	96	110	124	129	87
75°	46	59	79	95	101	48
85°	11	29	53	70	76	12
90°	0	19	42	59	65	1
95°	0	12	33	48	54	0
105°	0	6	20	32	37	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°	254.4	254.4	254.4	254.4	254.4
2.5°	256.3	255.8	254.9	253.1	252.1
5°	254.9	254.9	254.0	252.6	252.6
7.5°	253.5	253.1	252.1	251.2	250.8
10°	251.7	251.7	250.3	248.9	248.5
12.5°	249.4	248.9	248.0	246.6	246.6
15°	246.2	245.7	244.8	244.3	244.3
17.5°	242.5	242.0	241.1	241.1	241.6
20°	237.9	237.4	236.5	237.0	237.4
22.5°	232.8	232.4	231.9	232.4	233.3
25°	227.3	226.8	226.8	228.2	229.1
27.5°	220.9	220.9	221.8	223.6	224.5
30°	214.9	214.4	215.8	218.6	219.9
32.5°	208.4	208.0	210.3	213.5	214.9
35°	201.5	201.1	203.8	207.5	209.8
37.5°	193.7	194.2	197.4	202.0	203.8
40°	185.9	186.3	190.5	196.0	197.8
42.5°	177.6	178.5	183.6	189.6	192.3
45°	169.3	170.7	176.2	183.1	185.9
47.5°	159.7	162.0	168.9	176.2	179.0
50°	150.5	153.2	161.0	169.3	172.1
52.5°	140.8	144.0	153.2	162.0	165.2
55°	130.7	134.8	144.9	154.6	158.3
57.5°	120.5	125.6	136.7	147.2	150.9
60°	109.0	115.0	128.4	139.4	143.6
62.5°	98.5	105.4	119.2	132.1	136.2
65°	87.9	96.2	110.4	124.2	128.8
67.5°	77.3	86.5	102.6	115.9	121.9
70°	66.3	76.8	94.3	108.6	114.1
72.5°	55.7	67.6	86.5	101.7	107.7
75°	45.6	58.9	79.1	95.2	100.8
77.5°	35.4	50.2	72.2	88.3	94.3
80°	26.2	42.3	64.9	81.9	87.9
82.5°	17.9	35.4	58.9	75.9	81.9
85°	11.0	29.0	52.9	69.9	75.9
87.5°	5.1	23.5	47.4	64.4	70.4
90°	0.5	18.9	42.3	58.9	64.9
92.5°	0.0	15.2	37.3	53.4	59.8
95°	0.0	12.0	32.7	48.3	54.3
97.5°	0.0	9.7	29.0	44.2	49.7
100°	0.0	8.3	25.8	39.6	45.1
102.5°	0.0	6.9	22.5	35.9	40.9
105°	0.0	6.0	19.8	32.2	36.8
107.5°	0.0	5.1	17.5	29.0	33.1
110°	0.0	4.6	15.6	26.2	30.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	3.7	13.8	23.5	27.1
115°	0.0	3.2	12.4	21.2	24.4
117.5°	0.0	2.8	11.0	18.9	22.1
120°	0.0	2.3	10.1	17.5	20.2
122.5°	0.0	1.8	8.7	15.6	17.9
125°	0.0	1.4	7.8	13.8	16.1
127.5°	0.0	1.4	6.9	12.4	14.3
130°	0.0	0.9	6.0	11.0	12.9
132.5°	0.0	0.9	5.1	9.7	11.5
135°	0.0	0.5	4.1	8.3	9.7
137.5°	0.0	0.5	3.7	6.9	8.3
140°	0.0	0.5	2.8	6.0	7.4
142.5°	0.0	0.0	2.3	5.1	6.0
145°	0.0	0.0	1.8	4.1	5.1
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)