

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: P236273

Luminaire Tested: **4SWLED-36SL-LW-UNV-L850-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236273
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-36SL-LW-UNV-L850-CD1-U
Description: METALUX SWLED LINEAR LUMINAIRE
4FT FIXTURE WITH 1 ROW LED, WIDE LENS
Light Source: (112) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

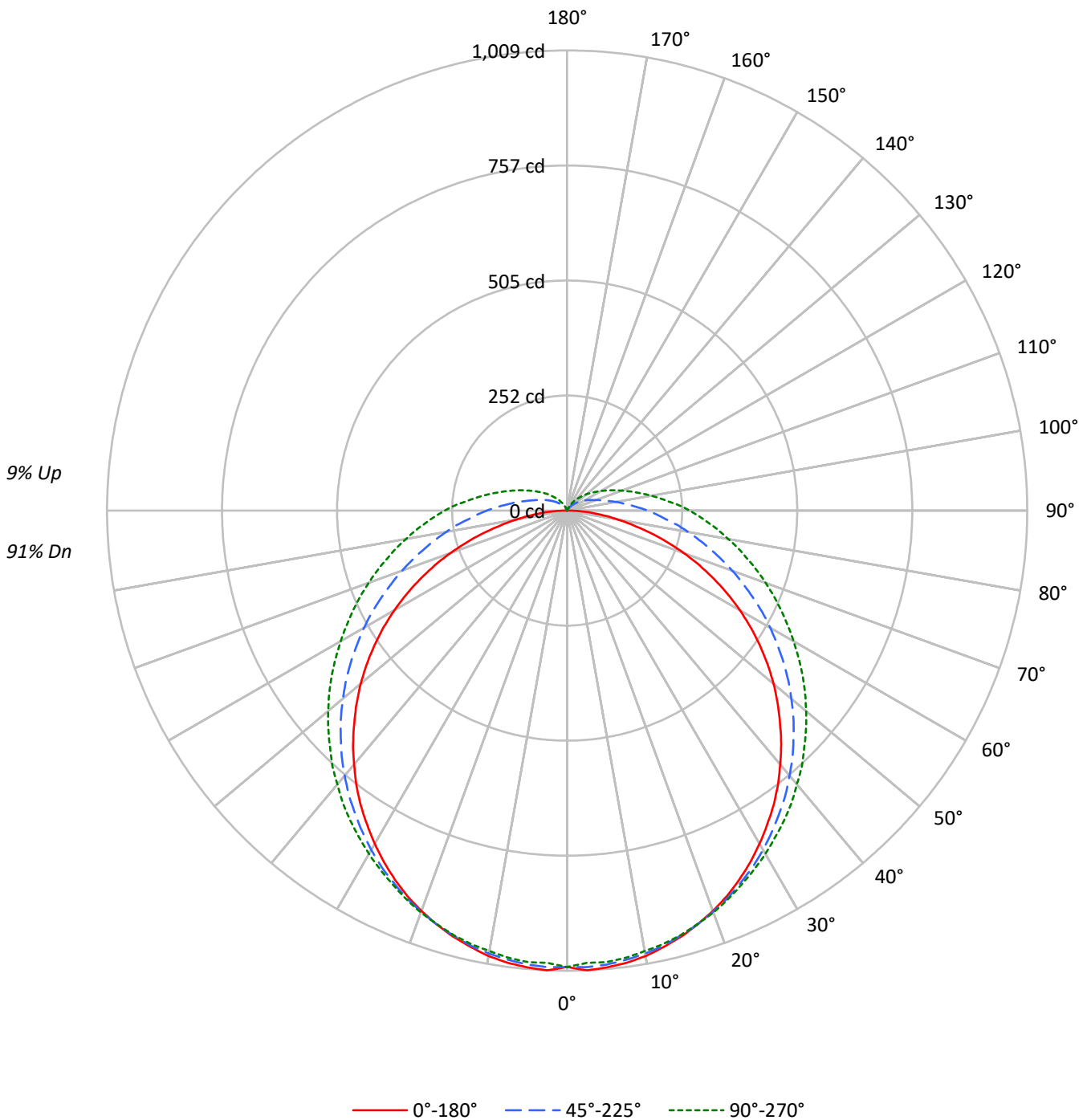
Lumens per Lamp: N/A
Luminaire Lumens: 3666.0 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

Input Watts (W): 32.8
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	104	99	94	89	101	96	91	87	90	86	82	84	81	78	79	76	74	71
2	94	85	77	71	91	82	75	69	77	71	66	72	68	63	68	64	61	58
3	85	74	65	58	82	72	63	57	67	60	55	63	57	53	60	55	51	48
4	78	65	56	49	75	63	55	48	59	52	46	56	50	45	53	47	43	40
5	71	58	49	42	69	56	47	41	53	45	40	50	43	38	47	42	37	35
6	66	52	43	36	63	51	42	35	48	40	34	45	39	33	43	37	32	30
7	61	47	38	32	59	46	37	31	43	36	30	41	34	29	39	33	29	26
8	57	43	34	28	55	42	33	28	40	32	27	38	31	26	36	30	26	23
9	53	39	31	25	51	38	30	25	36	29	24	35	28	24	33	27	23	21
10	50	36	28	23	48	35	28	22	34	27	22	32	26	21	31	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7182	7182	7182
5°	7219	7012	6921
10°	7180	6824	6688
15°	7115	6630	6482
20°	7041	6442	6274
25°	6953	6252	6066
30°	6848	6067	5882
35°	6740	5868	5709
40°	6607	5676	5534
45°	6464	5478	5371
50°	6321	5276	5218
55°	6135	5067	5068
60°	5905	4851	4918
65°	5594	4628	4794
70°	5189	4427	4696
75°	4591	4235	4627
80°	3876	4115	4627
85°	3028	4032	4709



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.7	2.6
10°-20°	271.6	7.4
20°-30°	413.6	11.3
30°-40°	505.2	13.8
40°-50°	539.2	14.7
50°-60°	514.4	14.0
60°-70°	438.9	12.0
70°-80°	331.5	9.0
80°-90°	222.5	6.1
90°-100°	139.5	3.8
100°-110°	86.9	2.4
110°-120°	53.3	1.5
120°-130°	31.1	0.8
130°-140°	15.8	0.4
140°-150°	6.3	0.2
150°-160°	1.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	779.9	21.3
0°-40°	1285.1	35.1
0°-60°	2338.8	63.8
0°-90°	3331.6	90.9
90°-120°	279.7	7.6
90°-150°	332.9	9.1
90°-180°	334.0	9.1
0°-180°	3666.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1001	1001	1001	1001	1001	
5°	1005	994	999	994	994	96
15°	967	957	964	962	963	273
25°	893	887	900	901	905	411
35°	789	788	811	819	829	493
45°	660	671	702	722	735	510
55°	516	536	579	612	630	461
65°	355	388	448	497	518	352
75°	188	241	324	388	409	200
85°	52	122	217	288	311	55
90°	1	82	176	245	268	4
95°	0	53	138	201	224	0
105°	0	26	85	136	155	0
115°	0	15	55	90	105	0
125°	0	8	35	59	69	0
135°	0	3	19	36	43	0
145°	0	1	8	18	23	0
155°	1	0	2	6	7	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°	1000.8	1000.8	1000.8	1000.8	1000.8
2.5°	1009.1	997.2	1001.8	998.1	992.6
5°	1005.4	994.5	999.0	994.5	993.5
7.5°	999.9	989.0	993.5	989.9	989.0
10°	991.7	979.8	986.2	981.7	980.8
12.5°	979.8	969.8	977.1	972.5	973.5
15°	967.1	957.0	964.3	962.5	963.4
17.5°	951.5	942.4	951.5	949.7	950.6
20°	934.2	926.0	936.0	935.1	937.8
22.5°	915.0	906.8	919.6	917.7	922.3
25°	893.1	886.7	900.4	901.3	905.0
27.5°	869.3	864.8	881.2	882.1	887.6
30°	843.8	840.1	859.3	863.0	869.3
32.5°	816.4	815.5	835.6	842.0	849.3
35°	789.0	788.1	810.9	819.1	829.2
37.5°	758.9	760.7	786.2	797.2	808.2
40°	726.9	729.6	758.9	772.6	783.5
42.5°	694.9	702.2	731.5	748.8	761.6
45°	660.2	671.2	702.2	722.3	735.1
47.5°	626.4	639.2	673.0	695.8	710.5
50°	590.8	605.4	642.0	668.4	684.0
52.5°	554.3	570.7	610.9	641.1	657.5
55°	515.9	536.0	579.0	611.8	630.1
57.5°	477.6	500.4	546.1	584.4	601.8
60°	437.4	463.0	514.1	554.3	573.5
62.5°	397.2	426.5	482.2	526.9	545.2
65°	355.2	388.1	448.4	496.8	517.8
67.5°	314.1	351.6	416.4	468.5	490.4
70°	272.1	313.2	385.4	441.1	463.0
72.5°	230.1	276.7	354.3	414.6	436.5
75°	188.1	241.1	324.2	388.1	409.1
77.5°	148.8	205.5	295.9	360.7	384.4
80°	113.2	174.4	269.4	336.1	358.9
82.5°	80.4	147.0	243.8	311.4	335.1
85°	52.1	121.5	217.3	287.7	311.4
87.5°	25.6	99.5	196.3	265.7	289.5
90°	0.9	82.2	176.2	244.7	268.5
92.5°	0.0	65.7	156.2	221.9	247.5
95°	0.0	53.0	137.9	200.9	223.7
97.5°	0.0	43.8	122.4	183.5	205.5
100°	0.0	35.6	108.7	166.2	187.2
102.5°	0.0	30.1	95.9	150.7	170.8
105°	0.0	25.6	84.9	136.1	155.2
107.5°	0.0	22.8	75.8	123.3	140.6
110°	0.0	20.1	67.6	111.4	127.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	17.4	60.3	100.4	116.0
115°	0.0	14.6	54.8	90.4	105.0
117.5°	0.0	12.8	49.3	81.3	95.0
120°	0.0	11.0	43.8	74.0	85.8
122.5°	0.0	9.1	39.3	66.7	77.6
125°	0.0	8.2	34.7	59.4	69.4
127.5°	0.0	6.4	31.0	53.0	63.0
130°	0.0	5.5	26.5	47.5	55.7
132.5°	0.0	3.7	22.8	42.0	49.3
135°	0.0	2.7	19.2	36.5	42.9
137.5°	0.0	1.8	16.4	32.0	37.4
140°	0.0	1.8	12.8	27.4	32.0
142.5°	0.0	0.9	10.0	22.8	27.4
145°	0.0	0.9	8.2	18.3	22.8
147.5°	0.9	0.0	5.5	14.6	18.3
150°	0.9	0.0	4.6	11.0	14.6
152.5°	0.9	0.0	2.7	8.2	11.0
155°	0.9	0.0	1.8	5.5	7.3
157.5°	0.9	0.9	0.9	2.7	4.6
160°	0.9	0.0	0.0	1.8	2.7
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)