

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: P236276

Luminaire Tested: **4SWLED-40SL-LW-UNV-L850-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236276
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-40SL-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

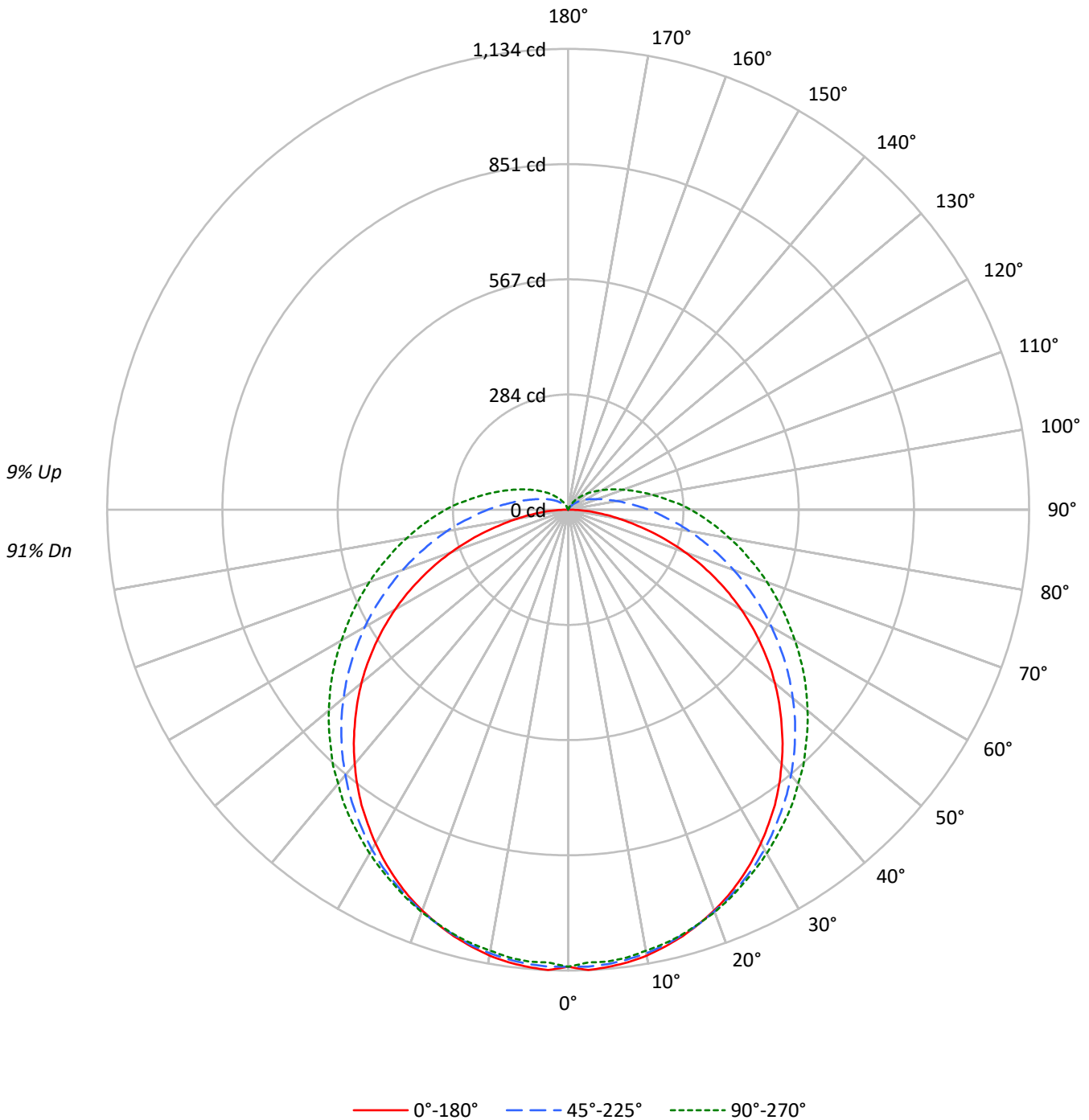
Lumens per Lamp: N/A
Luminaire Lumens: 4119.0 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

Input Watts (W): 37.9
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°	8069	8069	8069
5°	8111	7878	7777
10°	8068	7668	7514
15°	7994	7449	7283
20°	7910	7239	7049
25°	7812	7025	6815
30°	7693	6817	6610
35°	7573	6593	6414
40°	7423	6377	6217
45°	7263	6156	6035
50°	7102	5928	5862
55°	6894	5693	5695
60°	6635	5450	5525
65°	6285	5200	5387
70°	5832	4974	5277
75°	5159	4758	5199
80°	4356	4623	5198
85°	3400	4531	5291



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.4	2.6
10°-20°	305.2	7.4
20°-30°	464.7	11.3
30°-40°	567.6	13.8
40°-50°	605.8	14.7
50°-60°	578.0	14.0
60°-70°	493.1	12.0
70°-80°	372.5	9.0
80°-90°	250.0	6.1
90°-100°	156.7	3.8
100°-110°	97.6	2.4
110°-120°	59.9	1.5
120°-130°	34.9	0.8
130°-140°	17.8	0.4
140°-150°	7.0	0.2
150°-160°	1.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	876.3	21.3
0°-40°	1443.9	35.1
0°-60°	2627.8	63.8
0°-90°	3743.3	90.9
90°-120°	314.2	7.6
90°-150°	374.0	9.1
90°-180°	376.0	9.1
0°-180°	4119.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1124	1124	1124	1124	1124	
5°	1130	1117	1122	1117	1116	107
15°	1087	1075	1084	1081	1082	307
25°	1003	996	1012	1013	1017	462
35°	886	886	911	920	932	554
45°	742	754	789	812	826	573
55°	580	602	650	687	708	518
65°	399	436	504	558	582	395
75°	211	271	364	436	460	225
85°	58	136	244	323	350	62
90°	1	92	198	275	302	4
95°	0	60	155	226	251	0
105°	0	29	95	153	174	0
115°	0	16	62	102	118	0
125°	0	9	39	67	78	0
135°	0	3	22	41	48	0
145°	0	1	9	20	26	0
155°	1	0	2	6	8	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°	1124.5	1124.5	1124.5	1124.5	1124.5
2.5°	1133.8	1120.4	1125.5	1121.4	1115.3
5°	1129.6	1117.3	1122.5	1117.3	1116.3
7.5°	1123.5	1111.2	1116.3	1112.2	1111.2
10°	1114.3	1100.9	1108.1	1103.0	1101.9
12.5°	1100.9	1089.6	1097.8	1092.7	1093.7
15°	1086.6	1075.3	1083.5	1081.4	1082.5
17.5°	1069.1	1058.9	1069.1	1067.1	1068.1
20°	1049.6	1040.4	1051.7	1050.6	1053.7
22.5°	1028.1	1018.8	1033.2	1031.2	1036.3
25°	1003.4	996.3	1011.7	1012.7	1016.8
27.5°	976.8	971.6	990.1	991.1	997.3
30°	948.0	943.9	965.5	969.6	976.8
32.5°	917.3	916.2	938.8	946.0	954.2
35°	886.5	885.5	911.1	920.3	931.6
37.5°	852.6	854.7	883.4	895.7	908.0
40°	816.7	819.8	852.6	868.0	880.3
42.5°	780.8	789.0	821.8	841.3	855.7
45°	741.8	754.1	789.0	811.6	825.9
47.5°	703.9	718.2	756.2	781.8	798.2
50°	663.8	680.3	721.3	751.0	768.5
52.5°	622.8	641.3	686.4	720.3	738.7
55°	579.7	602.3	650.5	687.4	708.0
57.5°	536.6	562.3	613.6	656.7	676.1
60°	491.5	520.2	577.6	622.8	644.3
62.5°	446.3	479.2	541.7	592.0	612.5
65°	399.1	436.1	503.8	558.2	581.8
67.5°	353.0	395.0	467.9	526.3	551.0
70°	305.8	351.9	433.0	495.6	520.2
72.5°	258.6	310.9	398.1	465.8	490.4
75°	211.4	270.9	364.2	436.1	459.7
77.5°	167.2	230.9	332.4	405.3	432.0
80°	127.2	196.0	302.7	377.6	403.2
82.5°	90.3	165.2	273.9	349.9	376.5
85°	58.5	136.5	244.2	323.2	349.9
87.5°	28.7	111.8	220.6	298.6	325.2
90°	1.0	92.3	198.0	275.0	301.7
92.5°	0.0	73.9	175.4	249.3	278.1
95°	0.0	59.5	154.9	225.7	251.4
97.5°	0.0	49.2	137.5	206.2	230.9
100°	0.0	40.0	122.1	186.7	210.3
102.5°	0.0	33.9	107.7	169.3	191.9
105°	0.0	28.7	95.4	152.9	174.4
107.5°	0.0	25.7	85.2	138.5	158.0
110°	0.0	22.6	75.9	125.2	143.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	19.5	67.7	112.9	130.3
115°	0.0	16.4	61.6	101.6	118.0
117.5°	0.0	14.4	55.4	91.3	106.7
120°	0.0	12.3	49.2	83.1	96.4
122.5°	0.0	10.3	44.1	74.9	87.2
125°	0.0	9.2	39.0	66.7	78.0
127.5°	0.0	7.2	34.9	59.5	70.8
130°	0.0	6.2	29.8	53.4	62.6
132.5°	0.0	4.1	25.7	47.2	55.4
135°	0.0	3.1	21.5	41.0	48.2
137.5°	0.0	2.1	18.5	35.9	42.1
140°	0.0	2.1	14.4	30.8	35.9
142.5°	0.0	1.0	11.3	25.7	30.8
145°	0.0	1.0	9.2	20.5	25.7
147.5°	1.0	0.0	6.2	16.4	20.5
150°	1.0	0.0	5.1	12.3	16.4
152.5°	1.0	0.0	3.1	9.2	12.3
155°	1.0	0.0	2.1	6.2	8.2
157.5°	1.0	1.0	1.0	3.1	5.1
160°	1.0	0.0	0.0	2.1	3.1
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)