

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: P236275

Luminaire Tested: **4SWLED-40SL-LW-UNV-L840-CD1-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P236275  
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-L840-CD1-U  
Description: METALUX SWLED LINEAR LUMINAIRE  
4FT FIXTURE WITH 1 ROW LED, WIDE LENS  
Light Source: (112) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

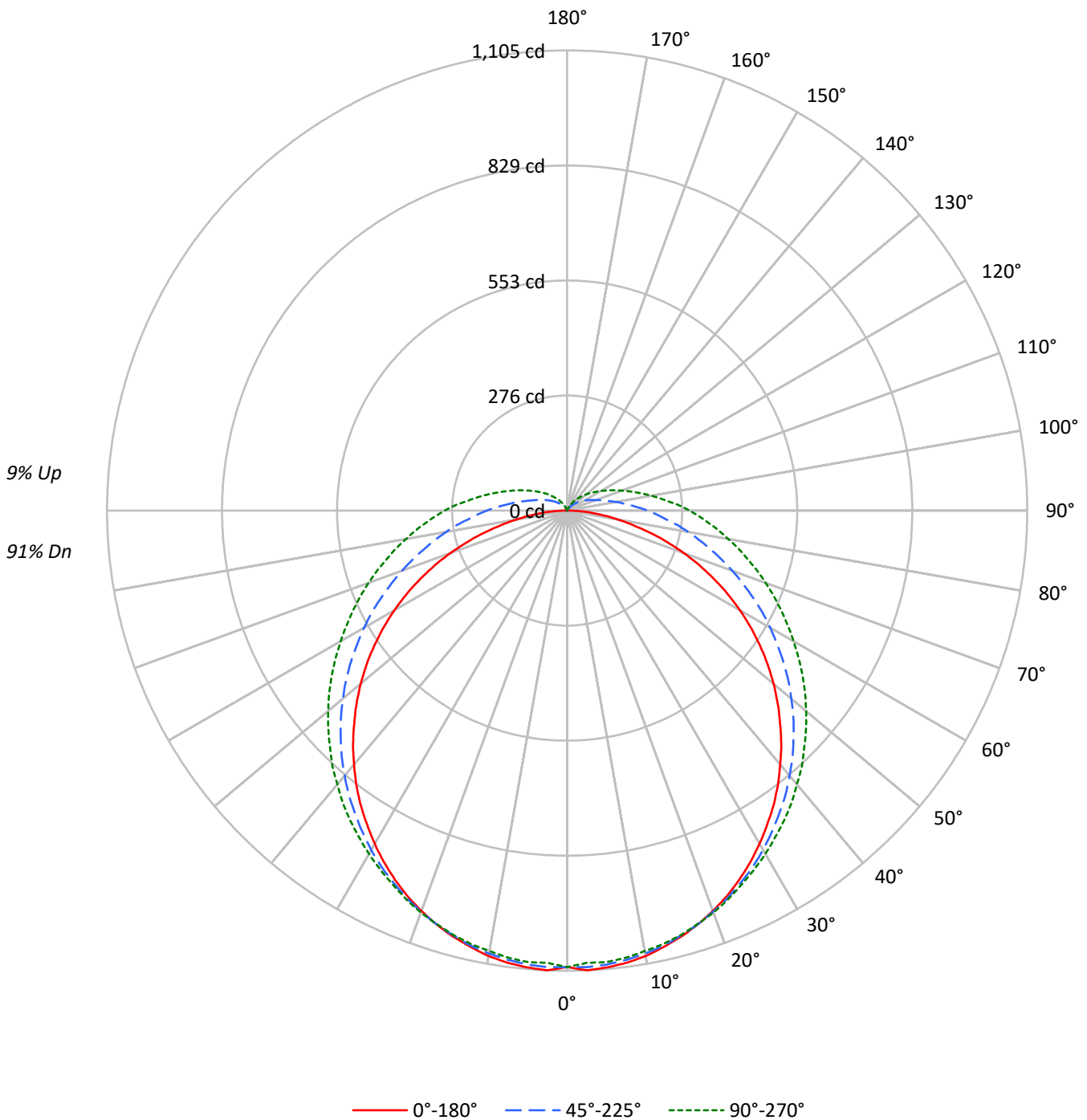
Lumens per Lamp: N/A  
Luminaire Lumens: 4014.9 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')  
CIE Type: Direct

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	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°	7866	7866	7866
5°	7906	7679	7580
10°	7863	7474	7324
15°	7792	7261	7099
20°	7711	7056	6871
25°	7615	6847	6643
30°	7499	6644	6443
35°	7381	6427	6253
40°	7236	6216	6061
45°	7080	6000	5883
50°	6923	5778	5714
55°	6720	5549	5551
60°	6468	5314	5386
65°	6126	5069	5250
70°	5683	4848	5144
75°	5027	4637	5068
80°	4246	4506	5066
85°	3313	4416	5156



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.8	2.6
10°-20°	297.5	7.4
20°-30°	452.9	11.3
30°-40°	553.3	13.8
40°-50°	590.6	14.7
50°-60°	563.4	14.0
60°-70°	480.6	12.0
70°-80°	363.1	9.0
80°-90°	243.6	6.1
90°-100°	152.8	3.8
100°-110°	95.1	2.4
110°-120°	58.3	1.5
120°-130°	34.1	0.8
130°-140°	17.3	0.4
140°-150°	6.9	0.2
150°-160°	1.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	854.2	21.3
0°-40°	1407.5	35.1
0°-60°	2561.5	63.8
0°-90°	3648.8	90.9
90°-120°	306.3	7.6
90°-150°	364.5	9.1
90°-180°	366.0	9.1
0°-180°	4014.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1096	1096	1096	1096	1096	
5°	1101	1089	1094	1089	1088	105
15°	1059	1048	1056	1054	1055	299
25°	978	971	986	987	991	451
35°	864	863	888	897	908	540
45°	723	735	769	791	805	558
55°	565	587	634	670	690	505
65°	389	425	491	544	567	385
75°	206	264	355	425	448	219
85°	57	133	238	315	341	60
90°	1	90	193	268	294	4
95°	0	58	151	220	245	0
105°	0	28	93	149	170	0
115°	0	16	60	99	115	0
125°	0	9	38	65	76	0
135°	0	3	21	40	47	0
145°	0	1	9	20	25	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°	1096.1	1096.1	1096.1	1096.1	1096.1
2.5°	1105.1	1092.1	1097.1	1093.1	1087.1
5°	1101.1	1089.1	1094.1	1089.1	1088.1
7.5°	1095.1	1083.1	1088.1	1084.1	1083.1
10°	1086.1	1073.1	1080.1	1075.1	1074.1
12.5°	1073.1	1062.1	1070.1	1065.1	1066.1
15°	1059.1	1048.1	1056.1	1054.1	1055.1
17.5°	1042.1	1032.1	1042.1	1040.1	1041.1
20°	1023.1	1014.1	1025.1	1024.1	1027.1
22.5°	1002.1	993.1	1007.1	1005.1	1010.1
25°	978.1	971.1	986.1	987.1	991.1
27.5°	952.1	947.1	965.1	966.1	972.1
30°	924.1	920.1	941.1	945.1	952.1
32.5°	894.1	893.1	915.1	922.1	930.1
35°	864.1	863.1	888.1	897.1	908.1
37.5°	831.1	833.1	861.1	873.1	885.1
40°	796.1	799.1	831.1	846.1	858.1
42.5°	761.1	769.1	801.1	820.1	834.1
45°	723.1	735.1	769.1	791.1	805.1
47.5°	686.1	700.1	737.1	762.1	778.1
50°	647.1	663.1	703.1	732.1	749.1
52.5°	607.1	625.1	669.1	702.1	720.1
55°	565.1	587.1	634.1	670.1	690.1
57.5°	523.1	548.1	598.1	640.1	659.1
60°	479.1	507.1	563.1	607.1	628.1
62.5°	435.1	467.1	528.1	577.1	597.1
65°	389.0	425.0	491.1	544.1	567.1
67.5°	344.0	385.0	456.1	513.1	537.1
70°	298.0	343.0	422.0	483.1	507.1
72.5°	252.0	303.0	388.0	454.1	478.1
75°	206.0	264.0	355.0	425.0	448.1
77.5°	163.0	225.0	324.0	395.0	421.0
80°	124.0	191.0	295.0	368.0	393.0
82.5°	88.0	161.0	267.0	341.0	367.0
85°	57.0	133.0	238.0	315.0	341.0
87.5°	28.0	109.0	215.0	291.0	317.0
90°	1.0	90.0	193.0	268.0	294.0
92.5°	0.0	72.0	171.0	243.0	271.0
95°	0.0	58.0	151.0	220.0	245.0
97.5°	0.0	48.0	134.0	201.0	225.0
100°	0.0	39.0	119.0	182.0	205.0
102.5°	0.0	33.0	105.0	165.0	187.0
105°	0.0	28.0	93.0	149.0	170.0
107.5°	0.0	25.0	83.0	135.0	154.0
110°	0.0	22.0	74.0	122.0	140.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	19.0	66.0	110.0	127.0
115°	0.0	16.0	60.0	99.0	115.0
117.5°	0.0	14.0	54.0	89.0	104.0
120°	0.0	12.0	48.0	81.0	94.0
122.5°	0.0	10.0	43.0	73.0	85.0
125°	0.0	9.0	38.0	65.0	76.0
127.5°	0.0	7.0	34.0	58.0	69.0
130°	0.0	6.0	29.0	52.0	61.0
132.5°	0.0	4.0	25.0	46.0	54.0
135°	0.0	3.0	21.0	40.0	47.0
137.5°	0.0	2.0	18.0	35.0	41.0
140°	0.0	2.0	14.0	30.0	35.0
142.5°	0.0	1.0	11.0	25.0	30.0
145°	0.0	1.0	9.0	20.0	25.0
147.5°	1.0	0.0	6.0	16.0	20.0
150°	1.0	0.0	5.0	12.0	16.0
152.5°	1.0	0.0	3.0	9.0	12.0
155°	1.0	0.0	2.0	6.0	8.0
157.5°	1.0	1.0	1.0	3.0	5.0
160°	1.0	0.0	0.0	2.0	3.0
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)