

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: P236256

Luminaire Tested: **4SWLED-40SL-LN-UNV-L835-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236256
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-316-17)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SWLED-40SL-LN-UNV-L835-CD1-U
Description: METALUX SWLED LINEAR LUMINAIRE
4FT FIXTURE WITH 1 ROW LED, NARROW LENS
Light Source: (112) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

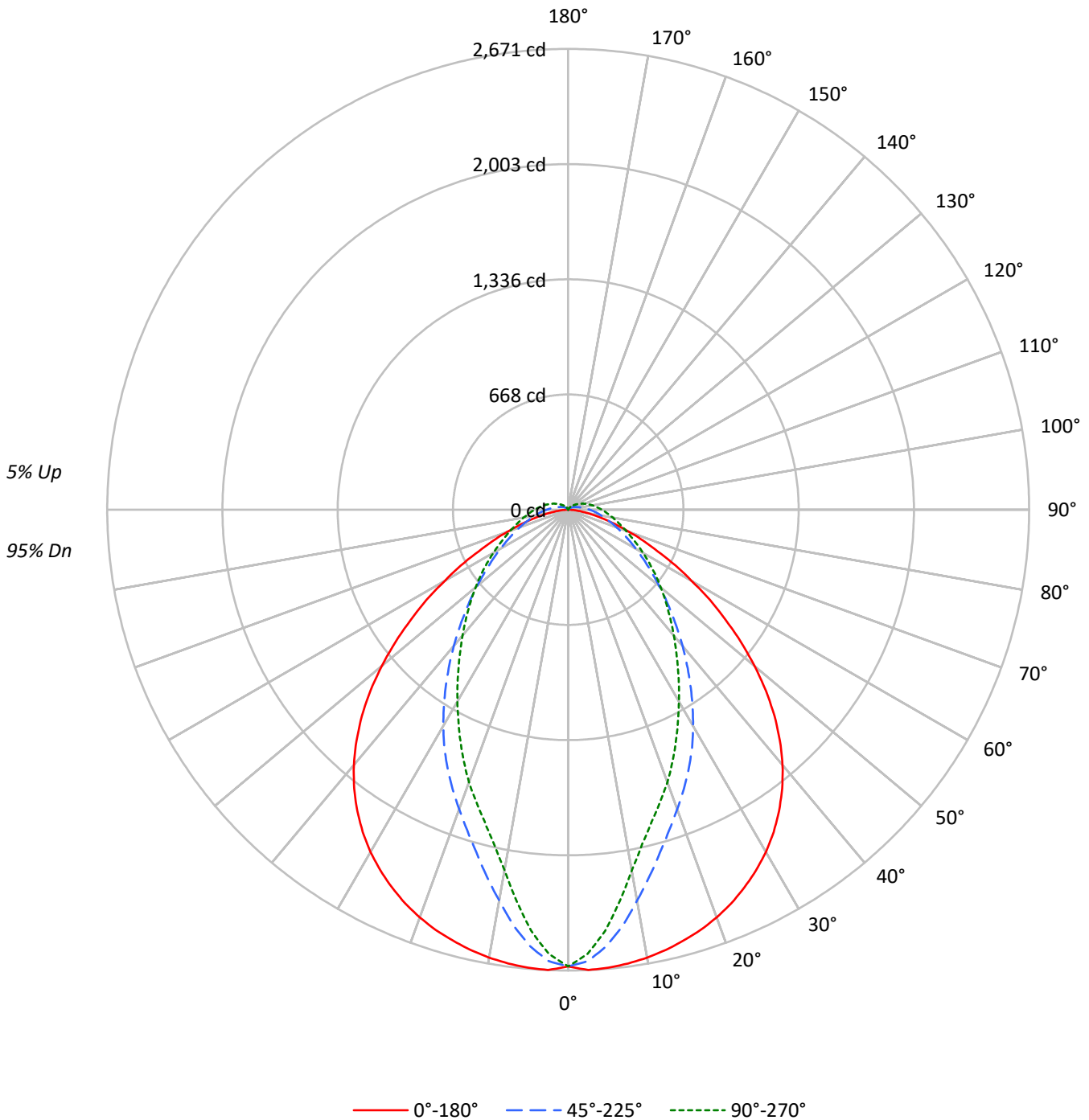
Lumens per Lamp: N/A
Luminaire Lumens: 4965.0 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 0.78 / 1
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

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	118	118	118	118	115	115	115	115	108	108	108	103	103	103	98	98	98	95				
1	108	103	99	95	105	101	97	93	95	92	90	91	88	86	86	84	83	80				
2	99	91	85	79	96	89	83	78	85	80	75	81	77	73	77	74	71	68				
3	91	81	73	67	88	79	72	66	76	70	65	72	67	63	69	65	61	59				
4	84	73	65	58	81	71	63	58	68	61	56	65	60	55	63	58	54	52				
5	78	66	57	51	75	64	56	51	62	55	50	59	53	49	57	52	48	46				
6	72	60	51	45	70	59	51	45	56	49	44	54	48	43	52	47	43	41				
7	67	55	46	41	65	54	46	40	52	45	40	50	44	39	48	43	38	37				
8	63	50	42	37	61	49	42	36	48	41	36	46	40	35	45	39	35	33				
9	59	46	39	33	57	46	38	33	44	37	33	43	37	32	41	36	32	30				
10	56	43	36	31	54	42	35	30	41	35	30	40	34	30	39	33	29	28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18995	18995	18995
5°	19134	17822	17068
10°	19087	15915	14467
15°	19021	14134	12592
20°	18952	12714	11241
25°	18807	11485	9909
30°	18594	10217	8684
35°	18198	8918	7614
40°	17564	7707	6724
45°	16549	6601	5967
50°	15083	5664	5340
55°	13233	4890	4779
60°	11144	4274	4296
65°	9002	3795	3894
70°	7161	3435	3610
75°	5408	3138	3437
80°	3894	2980	3375
85°	2394	2911	3395



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.9	4.8
10°-20°	599.7	12.1
20°-30°	813.1	16.4
30°-40°	863.7	17.4
40°-50°	772.3	15.6
50°-60°	598.4	12.1
60°-70°	413.6	8.3
70°-80°	264.4	5.3
80°-90°	161.9	3.3
90°-100°	100.7	2.0
100°-110°	63.2	1.3
110°-120°	38.7	0.8
120°-130°	22.0	0.4
130°-140°	11.2	0.2
140°-150°	4.7	0.1
150°-160°	1.5	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1648.7	33.2
0°-40°	2512.4	50.6
0°-60°	3883.1	78.2
0°-90°	4723.0	95.1
90°-120°	202.5	4.1
90°-150°	240.4	4.8
90°-180°	242.0	4.9
0°-180°	4965.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2647	2647	2647	2647	2647	
5°	2665	2600	2539	2471	2450	253
15°	2585	2331	2056	1906	1872	730
25°	2416	1964	1654	1515	1478	1113
35°	2130	1554	1232	1124	1106	1330
45°	1690	1089	846	811	817	1298
55°	1113	671	559	579	594	997
65°	572	380	368	408	421	579
75°	222	192	240	292	304	244
85°	41	86	157	209	224	49
90°	1	56	124	178	195	3
95°	0	35	97	149	168	0
105°	0	16	58	102	121	0
115°	0	9	36	68	82	0
125°	0	5	22	43	52	1
135°	1	2	14	26	30	1
145°	1	1	6	14	16	1
155°	2	1	2	5	6	1
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°	2647.1	2647.1	2647.1	2647.1	2647.1
2.5°	2670.6	2627.5	2618.7	2593.2	2576.5
5°	2664.7	2600.0	2539.2	2470.6	2450.0
7.5°	2653.0	2553.0	2430.4	2314.7	2288.3
10°	2636.3	2489.2	2300.0	2157.9	2121.6
12.5°	2613.7	2414.7	2177.5	2020.6	1984.3
15°	2585.3	2331.4	2055.9	1905.9	1871.6
17.5°	2553.9	2246.1	1947.1	1803.9	1773.5
20°	2514.7	2151.0	1847.1	1705.9	1680.4
22.5°	2469.6	2060.8	1751.0	1608.8	1579.4
25°	2415.7	1963.7	1653.9	1514.7	1478.4
27.5°	2356.9	1865.7	1553.9	1412.8	1378.4
30°	2291.2	1766.7	1447.1	1309.8	1283.3
32.5°	2215.7	1662.8	1339.2	1214.7	1192.2
35°	2130.4	1553.9	1232.4	1124.5	1105.9
37.5°	2037.3	1440.2	1129.4	1037.3	1025.5
40°	1932.4	1323.5	1030.4	956.9	952.0
42.5°	1815.7	1206.9	934.3	882.4	882.4
45°	1690.2	1089.2	846.1	810.8	816.7
47.5°	1553.9	972.6	764.7	747.1	756.9
50°	1409.8	863.7	689.2	687.3	700.0
52.5°	1262.8	762.8	619.6	631.4	646.1
55°	1112.8	670.6	558.8	579.4	594.1
57.5°	972.6	586.3	503.9	532.4	546.1
60°	825.5	510.8	452.9	487.3	501.0
62.5°	702.0	441.2	409.8	445.1	458.8
65°	571.6	380.4	367.7	407.8	420.6
67.5°	471.6	325.5	331.4	374.5	386.3
70°	375.5	275.5	299.0	344.1	355.9
72.5°	297.1	229.4	269.6	316.7	328.4
75°	221.6	192.2	240.2	292.2	303.9
77.5°	161.8	159.8	216.7	269.6	282.4
80°	113.7	130.4	195.1	247.1	261.8
82.5°	73.5	105.9	175.5	226.5	241.2
85°	41.2	86.3	156.9	208.8	224.5
87.5°	19.6	69.6	140.2	193.1	209.8
90°	1.0	55.9	124.5	177.5	195.1
92.5°	0.0	44.1	110.8	162.7	181.4
95°	0.0	35.3	97.1	149.0	167.6
97.5°	0.0	28.4	85.3	136.3	154.9
100°	0.0	22.5	75.5	123.5	143.1
102.5°	0.0	18.6	65.7	112.7	132.4
105°	0.0	15.7	57.8	102.0	120.6
107.5°	0.0	13.7	51.0	92.2	110.8
110°	0.0	11.8	46.1	83.3	101.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	10.8	40.2	75.5	92.2
115°	0.0	8.8	36.3	67.6	82.4
117.5°	0.0	7.8	32.4	60.8	74.5
120°	0.0	6.9	28.4	54.9	66.7
122.5°	0.0	5.9	25.5	48.0	58.8
125°	0.0	4.9	22.5	43.1	52.0
127.5°	1.0	3.9	20.6	38.2	45.1
130°	1.0	2.9	17.6	33.3	40.2
132.5°	1.0	2.9	15.7	29.4	34.3
135°	1.0	2.0	13.7	25.5	30.4
137.5°	1.0	2.0	11.8	22.5	25.5
140°	1.0	1.0	9.8	18.6	22.5
142.5°	1.0	1.0	7.8	15.7	18.6
145°	1.0	1.0	5.9	13.7	15.7
147.5°	1.0	1.0	4.9	10.8	12.7
150°	1.0	1.0	3.9	8.8	9.8
152.5°	1.0	1.0	2.9	6.9	7.8
155°	2.0	1.0	2.0	4.9	5.9
157.5°	2.0	2.0	2.0	3.9	3.9
160°	2.0	2.0	2.0	2.0	2.9
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)