

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: P236238

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236238
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-316-16)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SWLED-40SL-LC-UNV-L835-CD1-U
Description: METALUX SWLED LINEAR LUMINAIRE
4FT FIXTURE WITH 1 ROW LED, CLEAR LENS
Light Source: (112) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

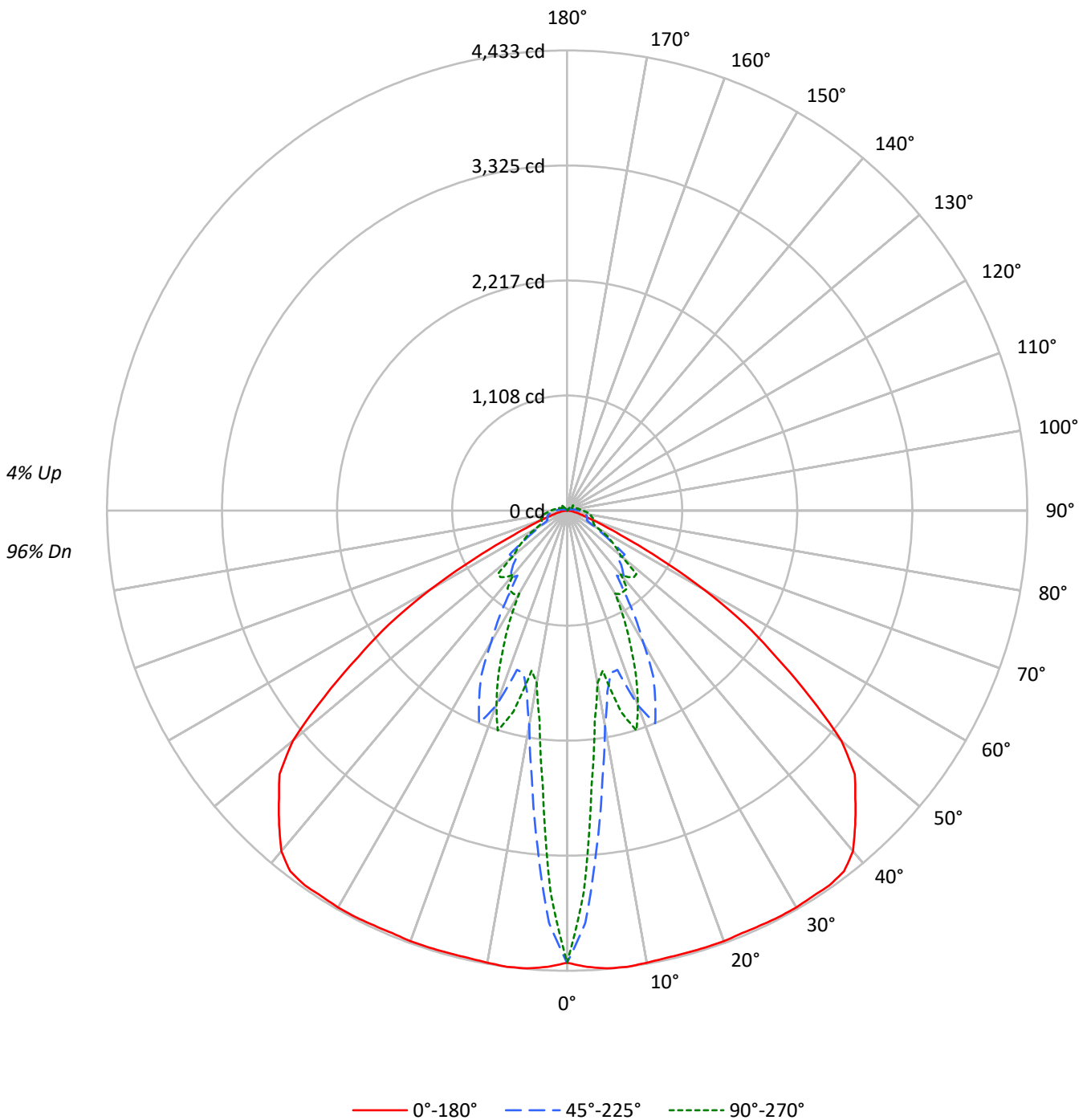
Lumens per Lamp: N/A
Luminaire Lumens: 5323.0 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Spacing Criteria (0/90/45): 1.54 / 0.24 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

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

TEST NUMBER: P236238

CATALOG NUMBER: 4SWLED-40SL-LC-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P236238

CATALOG NUMBER: 4SWLED-40SL-LC-UNV-L835-CD1-U

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	109	109	109	104	104	104	99	99	99	96				
1	109	105	101	97	106	102	99	95	97	94	92	93	90	88	89	87	85	83				
2	100	93	87	82	98	91	85	81	87	82	78	83	79	76	80	77	74	72				
3	93	83	76	70	90	82	75	69	78	72	68	75	70	66	72	68	65	62				
4	86	75	67	61	83	73	66	61	71	64	59	68	63	58	65	61	57	55				
5	80	68	60	54	77	67	59	53	64	58	52	62	56	52	60	55	51	49				
6	74	62	54	48	72	61	53	47	59	52	47	57	51	46	55	50	45	44				
7	69	57	49	43	67	56	48	43	54	47	42	52	46	42	51	45	41	39				
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	36				
9	61	48	41	35	59	47	40	35	46	39	35	45	39	34	44	38	34	32				
10	57	45	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31259	31259	31259
5°	31786	22910	18635
10°	32022	14556	11483
15°	32460	11140	13493
20°	33266	13764	13318
25°	34326	13926	9737
30°	35828	10332	6248
35°	37638	6930	6540
40°	38936	6357	5684
45°	38449	5720	6632
50°	36905	5680	5137
55°	29188	4487	4242
60°	20576	2729	2984
65°	9602	2166	2623
70°	4823	2342	2655
75°	2943	2536	2816
80°	1914	2635	2982
85°	971	2727	2890



TEST NUMBER: P236238

CATALOG NUMBER: 4SWLED-40SL-LC-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.8	5.6
10°-20°	652.3	12.3
20°-30°	931.3	17.5
30°-40°	994.5	18.7
40°-50°	925.0	17.4
50°-60°	680.1	12.8
60°-70°	302.5	5.7
70°-80°	199.3	3.7
80°-90°	138.1	2.6
90°-100°	81.4	1.5
100°-110°	47.1	0.9
110°-120°	28.7	0.5
120°-130°	20.6	0.4
130°-140°	17.5	0.3
140°-150°	5.1	0.1
150°-160°	1.5	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1881.3	35.3
0°-40°	2875.9	54.0
0°-60°	4481.0	84.2
0°-90°	5120.9	96.2
90°-120°	157.3	3.0
90°-150°	200.5	3.8
90°-180°	202.0	3.8
0°-180°	5323.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4356	4356	4356	4356	4356	
5°	4427	3948	3264	2840	2675	422
15°	4412	2392	1620	1790	2006	1251
25°	4409	1542	2006	1578	1453	2042
35°	4406	1858	958	972	950	2754
45°	3927	798	733	815	908	3023
55°	2454	475	513	518	527	2209
65°	610	184	210	266	283	709
75°	121	119	194	257	249	139
85°	17	70	147	184	191	22
90°	0	52	114	145	154	1
95°	0	37	83	109	126	0
105°	0	21	47	65	87	0
115°	1	12	29	44	57	1
125°	1	5	18	35	59	1
135°	1	2	16	48	59	1
145°	2	2	7	13	13	1
155°	2	2	3	5	4	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P236238

CATALOG NUMBER: 4SWLED-40SL-LC-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4356.1	4356.1	4356.1	4356.1	4356.1
2.5°	4400.2	4209.1	3975.8	3769.9	3681.7
5°	4426.7	3948.3	3264.1	2839.7	2675.0
7.5°	4432.6	3582.7	2602.5	2134.9	2037.9
10°	4422.8	3153.4	2103.6	1736.0	1684.0
12.5°	4413.0	2754.4	1786.0	1603.6	1579.1
15°	4412.0	2391.7	1620.3	1789.9	2005.5
17.5°	4414.0	2040.8	1608.5	2227.1	2222.2
20°	4414.0	1783.0	1999.7	2126.1	1990.8
22.5°	4405.1	1600.7	2217.3	1886.0	1737.0
25°	4409.0	1541.9	2005.5	1578.2	1452.7
27.5°	4414.0	1621.3	1793.8	1320.4	1196.9
30°	4414.9	1845.8	1463.5	1068.4	923.4
32.5°	4404.1	1961.4	1217.4	850.8	953.8
35°	4406.1	1857.5	957.7	972.4	949.8
37.5°	4381.6	1620.3	788.1	902.8	946.9
40°	4283.6	1305.7	849.9	846.9	804.8
42.5°	4107.1	1013.6	795.0	771.4	869.5
45°	3926.8	797.9	733.2	814.6	907.7
47.5°	3758.2	643.0	651.8	894.0	905.7
50°	3449.4	603.8	691.1	756.7	673.4
52.5°	2950.5	549.9	696.9	592.1	602.8
55°	2454.5	475.4	512.7	518.5	527.4
57.5°	2030.0	449.9	387.2	468.5	455.8
60°	1524.2	392.1	289.2	368.6	348.0
62.5°	1007.7	247.0	222.5	285.2	288.2
65°	609.7	184.3	209.8	265.6	283.3
67.5°	384.2	162.7	206.8	268.6	264.7
70°	252.9	147.0	203.9	268.6	261.7
72.5°	170.6	133.3	200.0	265.6	266.6
75°	120.6	118.6	194.1	256.8	249.0
77.5°	84.3	105.9	186.2	240.2	233.3
80°	55.9	93.1	172.5	222.5	231.3
82.5°	33.3	80.4	160.8	203.9	212.7
85°	16.7	69.6	147.0	184.3	191.1
87.5°	6.9	60.8	130.4	163.7	169.6
90°	0.0	52.0	113.7	145.1	153.9
92.5°	0.0	44.1	98.0	126.4	140.2
95°	0.0	37.2	83.3	108.8	126.4
97.5°	0.0	32.3	71.6	95.1	114.7
100°	0.0	27.4	61.8	82.3	104.9
102.5°	0.0	24.5	52.9	72.5	96.1
105°	0.0	20.6	47.1	64.7	87.2
107.5°	0.0	17.6	41.2	57.8	78.4
110°	0.0	15.7	36.3	52.9	70.6



TEST NUMBER: P236238

CATALOG NUMBER: 4SWLED-40SL-LC-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	13.7	33.3	48.0	62.7
115°	1.0	11.8	29.4	44.1	56.9
117.5°	1.0	9.8	26.5	40.2	52.9
120°	1.0	7.8	23.5	37.2	52.0
122.5°	1.0	5.9	20.6	35.3	53.9
125°	1.0	4.9	17.6	35.3	58.8
127.5°	1.0	3.9	14.7	39.2	67.6
130°	1.0	2.9	14.7	47.1	76.5
132.5°	1.0	2.0	14.7	52.0	73.5
135°	1.0	2.0	15.7	48.0	58.8
137.5°	1.0	2.0	15.7	37.2	42.1
140°	1.0	2.0	12.7	26.5	29.4
142.5°	1.0	2.0	8.8	18.6	19.6
145°	2.0	2.0	6.9	12.7	12.7
147.5°	2.0	2.0	4.9	8.8	8.8
150°	2.0	2.0	3.9	6.9	6.9
152.5°	2.0	2.0	2.9	5.9	4.9
155°	2.0	2.0	2.9	4.9	3.9
157.5°	2.0	2.0	2.0	3.9	2.9
160°	2.0	2.9	2.9	3.9	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)