

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: P236274

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236274
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-L835-CD1-U
Description: METALUX SWLED LINEAR LUMINAIRE
4FT FIXTURE WITH 1 ROW LED, WIDE LENS
Light Source: (112) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

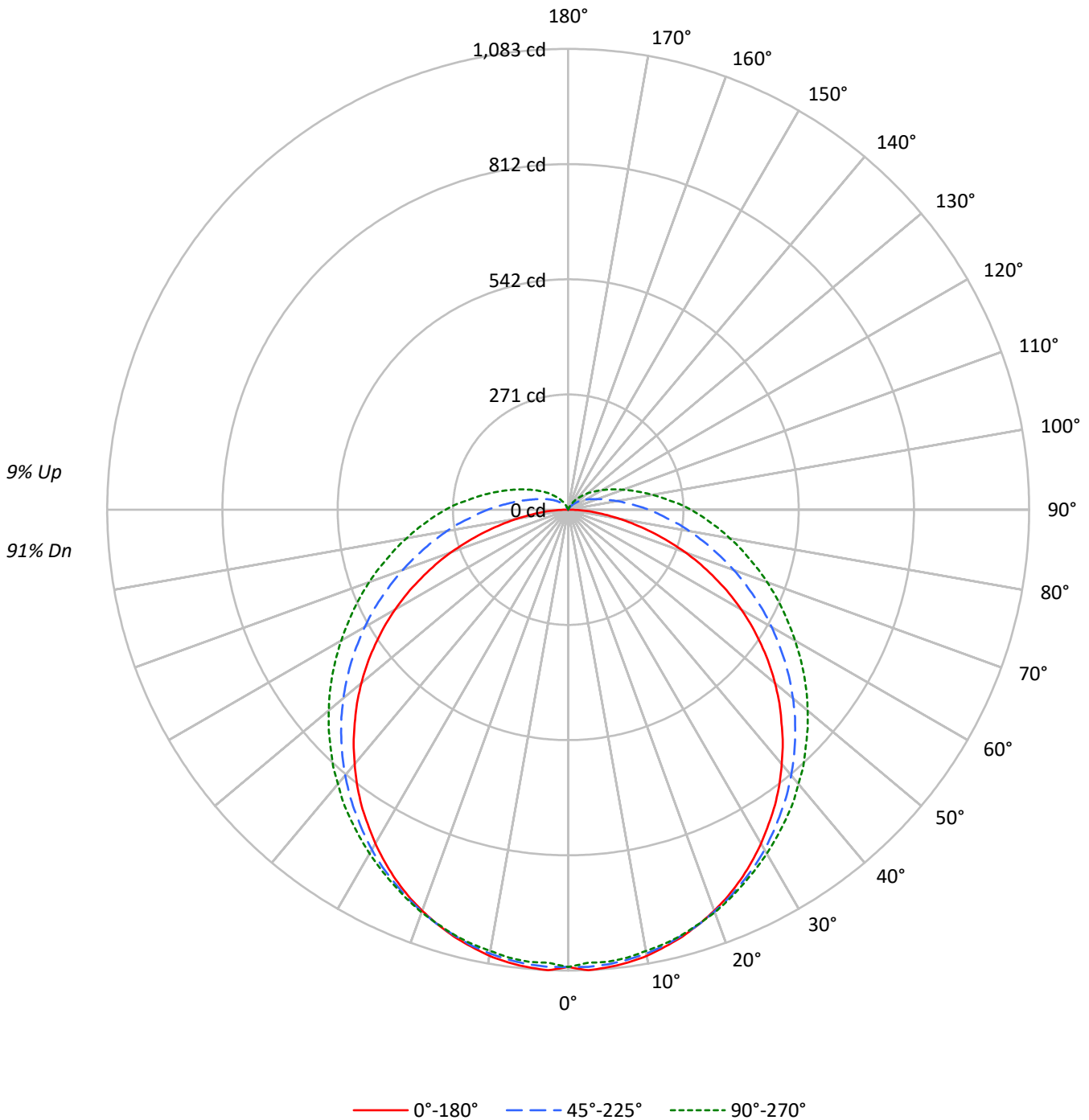
Lumens per Lamp: N/A
Luminaire Lumens: 3936.0 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

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

TEST NUMBER: P236274

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

Luminous Intensity Polar Plot





TEST NUMBER: P236274

CATALOG NUMBER: 4SWLED-40SL-LW-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	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°	7711	7711	7711
5°	7751	7528	7431
10°	7709	7327	7180
15°	7639	7118	6959
20°	7559	6917	6736
25°	7465	6713	6512
30°	7352	6514	6316
35°	7236	6300	6129
40°	7093	6094	5941
45°	6941	5883	5767
50°	6786	5664	5602
55°	6587	5440	5441
60°	6339	5209	5280
65°	6006	4969	5147
70°	5572	4753	5042
75°	4930	4547	4968
80°	4164	4417	4967
85°	3249	4328	5055



TEST NUMBER: P236274

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.7	2.6
10°-20°	291.6	7.4
20°-30°	444.0	11.3
30°-40°	542.4	13.8
40°-50°	578.9	14.7
50°-60°	552.3	14.0
60°-70°	471.2	12.0
70°-80°	355.9	9.0
80°-90°	238.8	6.1
90°-100°	149.8	3.8
100°-110°	93.3	2.4
110°-120°	57.2	1.5
120°-130°	33.4	0.8
130°-140°	17.0	0.4
140°-150°	6.7	0.2
150°-160°	1.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	837.4	21.3
0°-40°	1379.8	35.1
0°-60°	2511.0	63.8
0°-90°	3577.0	90.9
90°-120°	300.3	7.6
90°-150°	357.4	9.1
90°-180°	359.0	9.1
0°-180°	3936.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1075	1075	1075	1075	1075	
5°	1080	1068	1073	1068	1067	103
15°	1038	1028	1035	1033	1034	293
25°	959	952	967	968	972	442
35°	847	846	871	880	890	530
45°	709	721	754	776	789	547
55°	554	576	622	657	676	495
65°	381	417	481	533	556	378
75°	202	259	348	417	439	215
85°	56	130	233	309	334	59
90°	1	88	189	263	288	4
95°	0	57	148	216	240	0
105°	0	28	91	146	167	0
115°	0	16	59	97	113	0
125°	0	9	37	64	74	0
135°	0	3	21	39	46	0
145°	0	1	9	20	24	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



TEST NUMBER: P236274

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1074.6	1074.6	1074.6	1074.6	1074.6
2.5°	1083.4	1070.6	1075.5	1071.6	1065.7
5°	1079.5	1067.7	1072.6	1067.7	1066.7
7.5°	1073.6	1061.8	1066.7	1062.8	1061.8
10°	1064.8	1052.0	1058.9	1054.0	1053.0
12.5°	1052.0	1041.2	1049.1	1044.2	1045.1
15°	1038.3	1027.5	1035.3	1033.4	1034.4
17.5°	1021.6	1011.8	1021.6	1019.7	1020.6
20°	1003.0	994.2	1004.9	1004.0	1006.9
22.5°	982.4	973.6	987.3	985.3	990.2
25°	958.9	952.0	966.7	967.7	971.6
27.5°	933.4	928.5	946.1	947.1	953.0
30°	905.9	902.0	922.6	926.5	933.4
32.5°	876.5	875.5	897.1	904.0	911.8
35°	847.1	846.1	870.6	879.5	890.2
37.5°	814.7	816.7	844.2	855.9	867.7
40°	780.4	783.4	814.7	829.4	841.2
42.5°	746.1	754.0	785.3	804.0	817.7
45°	708.9	720.6	754.0	775.5	789.3
47.5°	672.6	686.3	722.6	747.1	762.8
50°	634.3	650.0	689.2	717.7	734.3
52.5°	595.1	612.8	655.9	688.3	705.9
55°	553.9	575.5	621.6	656.9	676.5
57.5°	512.8	537.3	586.3	627.5	646.1
60°	469.6	497.1	552.0	595.1	615.7
62.5°	426.5	457.9	517.7	565.7	585.3
65°	381.4	416.7	481.4	533.4	555.9
67.5°	337.3	377.5	447.1	503.0	526.5
70°	292.2	336.3	413.7	473.6	497.1
72.5°	247.1	297.1	380.4	445.1	468.6
75°	202.0	258.8	348.1	416.7	439.2
77.5°	159.8	220.6	317.7	387.3	412.8
80°	121.6	187.3	289.2	360.8	385.3
82.5°	86.3	157.9	261.8	334.3	359.8
85°	55.9	130.4	233.3	308.8	334.3
87.5°	27.5	106.9	210.8	285.3	310.8
90°	1.0	88.2	189.2	262.8	288.2
92.5°	0.0	70.6	167.7	238.2	265.7
95°	0.0	56.9	148.0	215.7	240.2
97.5°	0.0	47.1	131.4	197.1	220.6
100°	0.0	38.2	116.7	178.4	201.0
102.5°	0.0	32.4	102.9	161.8	183.3
105°	0.0	27.5	91.2	146.1	166.7
107.5°	0.0	24.5	81.4	132.4	151.0
110°	0.0	21.6	72.6	119.6	137.3



TEST NUMBER: P236274

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	18.6	64.7	107.8	124.5
115°	0.0	15.7	58.8	97.1	112.8
117.5°	0.0	13.7	52.9	87.3	102.0
120°	0.0	11.8	47.1	79.4	92.2
122.5°	0.0	9.8	42.2	71.6	83.3
125°	0.0	8.8	37.3	63.7	74.5
127.5°	0.0	6.9	33.3	56.9	67.7
130°	0.0	5.9	28.4	51.0	59.8
132.5°	0.0	3.9	24.5	45.1	52.9
135°	0.0	2.9	20.6	39.2	46.1
137.5°	0.0	2.0	17.6	34.3	40.2
140°	0.0	2.0	13.7	29.4	34.3
142.5°	0.0	1.0	10.8	24.5	29.4
145°	0.0	1.0	8.8	19.6	24.5
147.5°	1.0	0.0	5.9	15.7	19.6
150°	1.0	0.0	4.9	11.8	15.7
152.5°	1.0	0.0	2.9	8.8	11.8
155°	1.0	0.0	2.0	5.9	7.8
157.5°	1.0	1.0	1.0	2.9	4.9
160°	1.0	0.0	0.0	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)