

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: P236255

Luminaire Tested: **4SWLED-36SL-LN-UNV-L850-CD1-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P236255  
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-36SL-LN-UNV-L850-CD1-U  
Description: METALUX SWLED LINEAR LUMINAIRE  
4FT FIXTURE WITH 1 ROW LED, NARROW LENS  
Light Source: (112) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

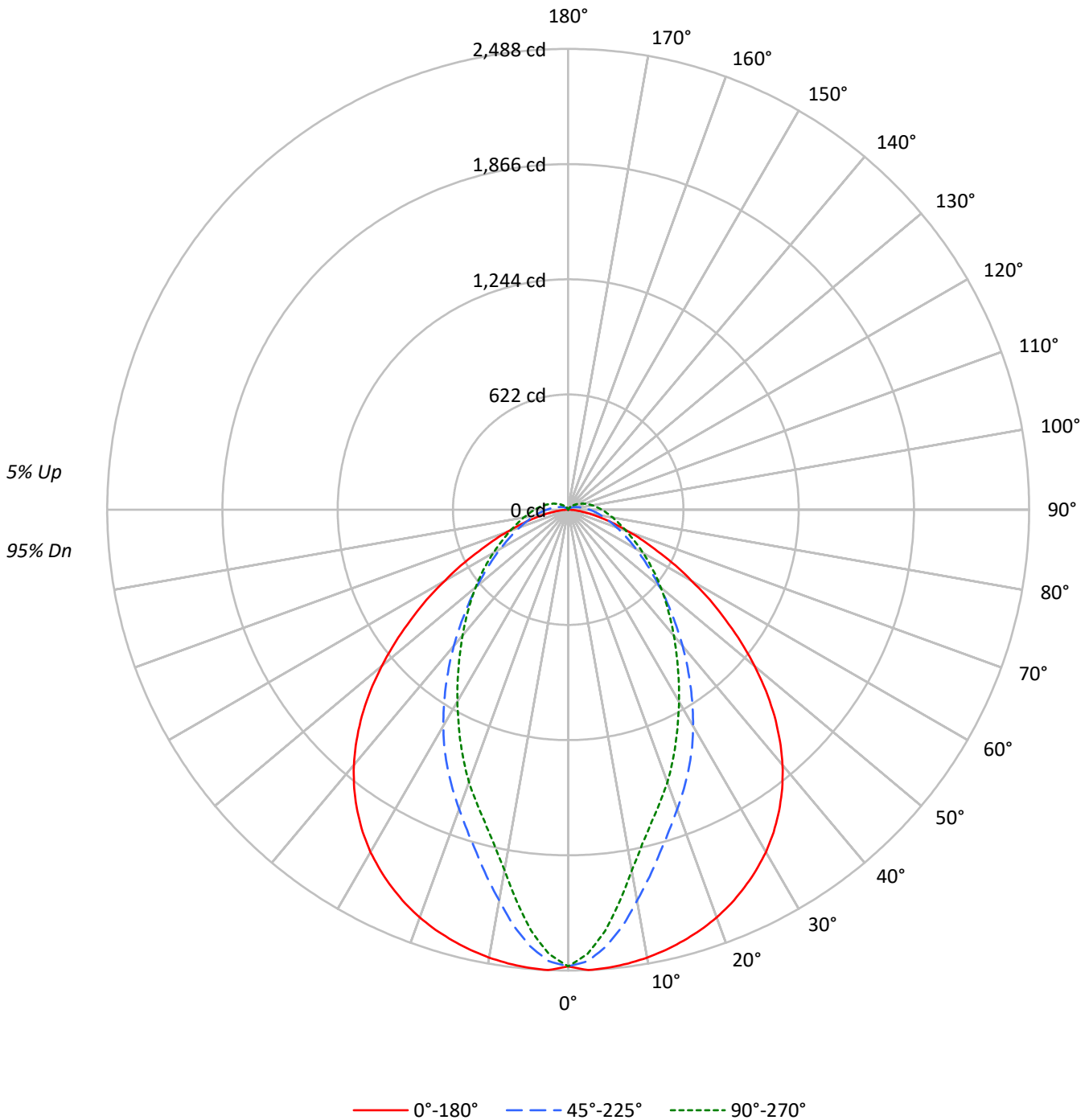
Lumens per Lamp: N/A  
Luminaire Lumens: 4624.9 lumens  
Efficiency: N/A  
Efficacy: 141.0 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 0.78 / 1  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')  
CIE Type: Direct

Input Watts (W): 32.8  
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: P236255

CATALOG NUMBER: 4SWLED-36SL-LN-UNV-L850-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P236255

CATALOG NUMBER: 4SWLED-36SL-LN-UNV-L850-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	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°	17694	17694	17694
5°	17824	16602	15899
10°	17780	14825	13476
15°	17718	13166	11730
20°	17654	11843	10471
25°	17520	10698	9230
30°	17320	9517	8090
35°	16952	8307	7093
40°	16361	7179	6263
45°	15416	6149	5558
50°	14051	5276	4974
55°	12327	4556	4451
60°	10381	3981	4002
65°	8384	3535	3627
70°	6671	3199	3363
75°	5037	2922	3202
80°	3626	2775	3143
85°	2232	2711	3162



TEST NUMBER: P236255

CATALOG NUMBER: 4SWLED-36SL-LN-UNV-L850-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.7	4.8
10°-20°	558.6	12.1
20°-30°	757.4	16.4
30°-40°	804.6	17.4
40°-50°	719.4	15.6
50°-60°	557.4	12.1
60°-70°	385.3	8.3
70°-80°	246.3	5.3
80°-90°	150.8	3.3
90°-100°	93.8	2.0
100°-110°	58.8	1.3
110°-120°	36.0	0.8
120°-130°	20.5	0.4
130°-140°	10.4	0.2
140°-150°	4.3	0.1
150°-160°	1.4	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1535.8	33.2
0°-40°	2340.3	50.6
0°-60°	3617.2	78.2
0°-90°	4399.5	95.1
90°-120°	188.7	4.1
90°-150°	223.9	4.8
90°-180°	225.0	4.9
0°-180°	4624.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2466	2466	2466	2466	2466	
5°	2482	2422	2365	2301	2282	236
15°	2408	2172	1915	1775	1743	680
25°	2250	1829	1541	1411	1377	1037
35°	1984	1448	1148	1048	1030	1239
45°	1574	1015	788	755	761	1209
55°	1037	625	521	540	553	928
65°	532	354	342	380	392	540
75°	206	179	224	272	283	227
85°	38	80	146	194	209	46
90°	1	52	116	165	182	3
95°	0	33	90	139	156	0
105°	0	15	54	95	112	0
115°	0	8	34	63	77	0
125°	0	5	21	40	48	0
135°	1	2	13	24	28	1
145°	1	1	6	13	15	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



TEST NUMBER: P236255

CATALOG NUMBER: 4SWLED-36SL-LN-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2465.8	2465.8	2465.8	2465.8	2465.8
2.5°	2487.7	2447.5	2439.3	2415.6	2400.1
5°	2482.3	2422.0	2365.4	2301.4	2282.2
7.5°	2471.3	2378.1	2264.0	2156.2	2131.6
10°	2455.8	2318.8	2142.5	2010.1	1976.3
12.5°	2434.8	2249.4	2028.4	1882.2	1848.4
15°	2408.3	2171.7	1915.1	1775.4	1743.4
17.5°	2379.1	2092.3	1813.7	1680.4	1652.1
20°	2342.5	2003.7	1720.6	1589.1	1565.3
22.5°	2300.5	1919.7	1631.1	1498.7	1471.3
25°	2250.3	1829.3	1540.7	1411.0	1377.2
27.5°	2195.5	1737.9	1447.5	1316.0	1284.0
30°	2134.3	1645.7	1348.0	1220.1	1195.5
32.5°	2064.0	1548.9	1247.5	1131.5	1110.5
35°	1984.5	1447.5	1148.0	1047.5	1030.2
37.5°	1897.8	1341.6	1052.1	966.2	955.3
40°	1800.0	1232.9	959.8	891.3	886.8
42.5°	1691.4	1124.2	870.3	821.9	821.9
45°	1574.5	1014.6	788.1	755.3	760.7
47.5°	1447.5	906.0	712.3	695.9	705.0
50°	1313.3	804.6	642.0	640.2	652.1
52.5°	1176.3	710.5	577.2	588.1	601.8
55°	1036.6	624.7	520.6	539.7	553.4
57.5°	906.0	546.1	469.4	495.9	508.7
60°	769.0	475.8	421.9	453.9	466.7
62.5°	653.9	411.0	381.7	414.6	427.4
65°	532.4	354.3	342.5	379.9	391.8
67.5°	439.3	303.2	308.7	348.9	359.8
70°	349.8	256.6	278.5	320.6	331.5
72.5°	276.7	213.7	251.1	295.0	305.9
75°	206.4	179.0	223.7	272.2	283.1
77.5°	150.7	148.9	201.8	251.1	263.0
80°	105.9	121.5	181.7	230.1	243.8
82.5°	68.5	98.6	163.5	211.0	224.7
85°	38.4	80.4	146.1	194.5	209.1
87.5°	18.3	64.8	130.6	179.9	195.4
90°	0.9	52.1	116.0	165.3	181.7
92.5°	0.0	41.1	103.2	151.6	169.0
95°	0.0	32.9	90.4	138.8	156.2
97.5°	0.0	26.5	79.5	126.9	144.3
100°	0.0	21.0	70.3	115.1	133.3
102.5°	0.0	17.4	61.2	105.0	123.3
105°	0.0	14.6	53.9	95.0	112.3
107.5°	0.0	12.8	47.5	85.8	103.2
110°	0.0	11.0	42.9	77.6	94.1



TEST NUMBER: P236255

CATALOG NUMBER: 4SWLED-36SL-LN-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	10.0	37.4	70.3	85.8
115°	0.0	8.2	33.8	63.0	76.7
117.5°	0.0	7.3	30.1	56.6	69.4
120°	0.0	6.4	26.5	51.1	62.1
122.5°	0.0	5.5	23.7	44.7	54.8
125°	0.0	4.6	21.0	40.2	48.4
127.5°	0.9	3.7	19.2	35.6	42.0
130°	0.9	2.7	16.4	31.1	37.4
132.5°	0.9	2.7	14.6	27.4	32.0
135°	0.9	1.8	12.8	23.7	28.3
137.5°	0.9	1.8	11.0	21.0	23.7
140°	0.9	0.9	9.1	17.4	21.0
142.5°	0.9	0.9	7.3	14.6	17.4
145°	0.9	0.9	5.5	12.8	14.6
147.5°	0.9	0.9	4.6	10.0	11.9
150°	0.9	0.9	3.7	8.2	9.1
152.5°	0.9	0.9	2.7	6.4	7.3
155°	1.8	0.9	1.8	4.6	5.5
157.5°	1.8	1.8	1.8	3.7	3.7
160°	1.8	1.8	1.8	1.8	2.7
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)