

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: P236252

Luminaire Tested: **4SWLED-32SL-LN-UNV-L850-CD1-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P236252  
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-32SL-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**

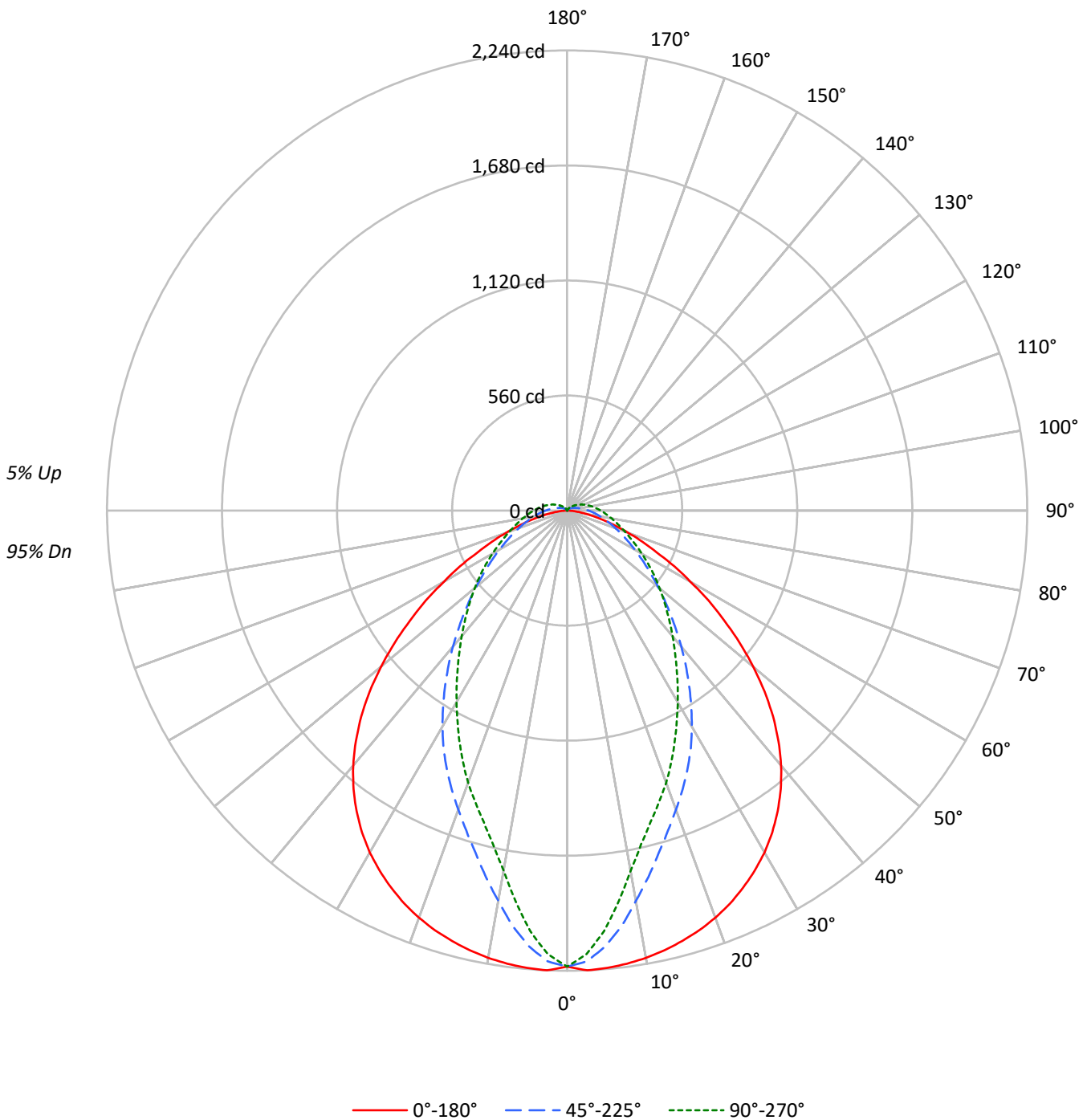
Lumens per Lamp: N/A  
Luminaire Lumens: 4164.0 lumens  
Efficiency: N/A  
Efficacy: 145.6 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 0.78 / 1  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')  
CIE Type: Direct

Input Watts (W): 28.6  
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°	15931	15931	15931
5°	16047	14947	14314
10°	16008	13348	12133
15°	15952	11854	10560
20°	15894	10662	9428
25°	15773	9632	8310
30°	15594	8568	7283
35°	15262	7479	6386
40°	14730	6464	5639
45°	13879	5536	5004
50°	12650	4750	4479
55°	11097	4102	4008
60°	9346	3585	3603
65°	7550	3182	3265
70°	6005	2881	3028
75°	4534	2631	2883
80°	3267	2499	2830
85°	2005	2442	2847



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.8	4.8
10°-20°	503.0	12.1
20°-30°	681.9	16.4
30°-40°	724.4	17.4
40°-50°	647.7	15.6
50°-60°	501.9	12.1
60°-70°	346.9	8.3
70°-80°	221.7	5.3
80°-90°	135.8	3.3
90°-100°	84.4	2.0
100°-110°	53.0	1.3
110°-120°	32.5	0.8
120°-130°	18.4	0.4
130°-140°	9.4	0.2
140°-150°	3.9	0.1
150°-160°	1.3	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1382.7	33.2
0°-40°	2107.0	50.6
0°-60°	3256.6	78.2
0°-90°	3961.0	95.1
90°-120°	169.9	4.1
90°-150°	201.6	4.8
90°-180°	203.0	4.9
0°-180°	4164.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2220	2220	2220	2220	2220	
5°	2235	2181	2130	2072	2055	212
15°	2168	1955	1724	1598	1570	612
25°	2026	1647	1387	1270	1240	933
35°	1787	1303	1034	943	928	1115
45°	1418	914	710	680	685	1088
55°	933	562	469	486	498	836
65°	479	319	308	342	353	486
75°	186	161	201	245	255	204
85°	34	72	132	175	188	41
90°	1	47	104	149	164	2
95°	0	30	81	125	141	0
105°	0	13	48	86	101	0
115°	0	7	30	57	69	0
125°	0	4	19	36	44	0
135°	1	2	12	21	26	1
145°	1	1	5	12	13	1
155°	2	1	2	4	5	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°	2220.0	2220.0	2220.0	2220.0	2220.0
2.5°	2239.8	2203.6	2196.2	2174.8	2160.8
5°	2234.8	2180.6	2129.6	2072.0	2054.8
7.5°	2225.0	2141.1	2038.3	1941.3	1919.1
10°	2211.0	2087.7	1929.0	1809.7	1779.3
12.5°	2192.1	2025.2	1826.2	1694.6	1664.2
15°	2168.2	1955.3	1724.2	1598.4	1569.6
17.5°	2141.9	1883.7	1633.0	1512.9	1487.4
20°	2109.0	1804.0	1549.1	1430.7	1409.3
22.5°	2071.2	1728.3	1468.5	1349.3	1324.6
25°	2026.0	1646.9	1387.1	1270.4	1239.9
27.5°	1976.6	1564.7	1303.2	1184.8	1156.1
30°	1921.6	1481.7	1213.6	1098.5	1076.3
32.5°	1858.2	1394.5	1123.2	1018.7	999.8
35°	1786.7	1303.2	1033.5	943.1	927.5
37.5°	1708.6	1207.9	947.2	869.9	860.1
40°	1620.6	1110.0	864.2	802.5	798.4
42.5°	1522.8	1012.2	783.6	740.0	740.0
45°	1417.5	913.5	709.6	680.0	684.9
47.5°	1303.2	815.7	641.3	626.5	634.8
50°	1182.4	724.4	578.0	576.4	587.1
52.5°	1059.0	639.7	519.7	529.5	541.9
55°	933.2	562.4	468.7	485.9	498.3
57.5°	815.7	491.7	422.6	446.5	458.0
60°	692.3	428.4	379.9	408.7	420.2
62.5°	588.7	370.0	343.7	373.3	384.8
65°	479.4	319.0	308.3	342.0	352.7
67.5°	395.5	273.0	277.9	314.1	324.0
70°	314.9	231.0	250.8	288.6	298.5
72.5°	249.1	192.4	226.1	265.6	275.4
75°	185.8	161.2	201.4	245.0	254.9
77.5°	135.7	134.0	181.7	226.1	236.8
80°	95.4	109.4	163.6	207.2	219.5
82.5°	61.7	88.8	147.2	189.9	202.3
85°	34.5	72.4	131.6	175.1	188.3
87.5°	16.4	58.4	117.6	162.0	176.0
90°	0.8	46.9	104.4	148.8	163.6
92.5°	0.0	37.0	92.9	136.5	152.1
95°	0.0	29.6	81.4	125.0	140.6
97.5°	0.0	23.8	71.5	114.3	129.9
100°	0.0	18.9	63.3	103.6	120.0
102.5°	0.0	15.6	55.1	94.6	111.0
105°	0.0	13.2	48.5	85.5	101.1
107.5°	0.0	11.5	42.8	77.3	92.9
110°	0.0	9.9	38.6	69.9	84.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	9.0	33.7	63.3	77.3
115°	0.0	7.4	30.4	56.7	69.1
117.5°	0.0	6.6	27.1	51.0	62.5
120°	0.0	5.8	23.8	46.0	55.9
122.5°	0.0	4.9	21.4	40.3	49.3
125°	0.0	4.1	18.9	36.2	43.6
127.5°	0.8	3.3	17.3	32.1	37.8
130°	0.8	2.5	14.8	28.0	33.7
132.5°	0.8	2.5	13.2	24.7	28.8
135°	0.8	1.6	11.5	21.4	25.5
137.5°	0.8	1.6	9.9	18.9	21.4
140°	0.8	0.8	8.2	15.6	18.9
142.5°	0.8	0.8	6.6	13.2	15.6
145°	0.8	0.8	4.9	11.5	13.2
147.5°	0.8	0.8	4.1	9.0	10.7
150°	0.8	0.8	3.3	7.4	8.2
152.5°	0.8	0.8	2.5	5.8	6.6
155°	1.6	0.8	1.6	4.1	4.9
157.5°	1.6	1.6	1.6	3.3	3.3
160°	1.6	1.6	1.6	1.6	2.5
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)