

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: P236243

Luminaire Tested: **4SWLED-16SL-LN-UNV-L850-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236243
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-16SL-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

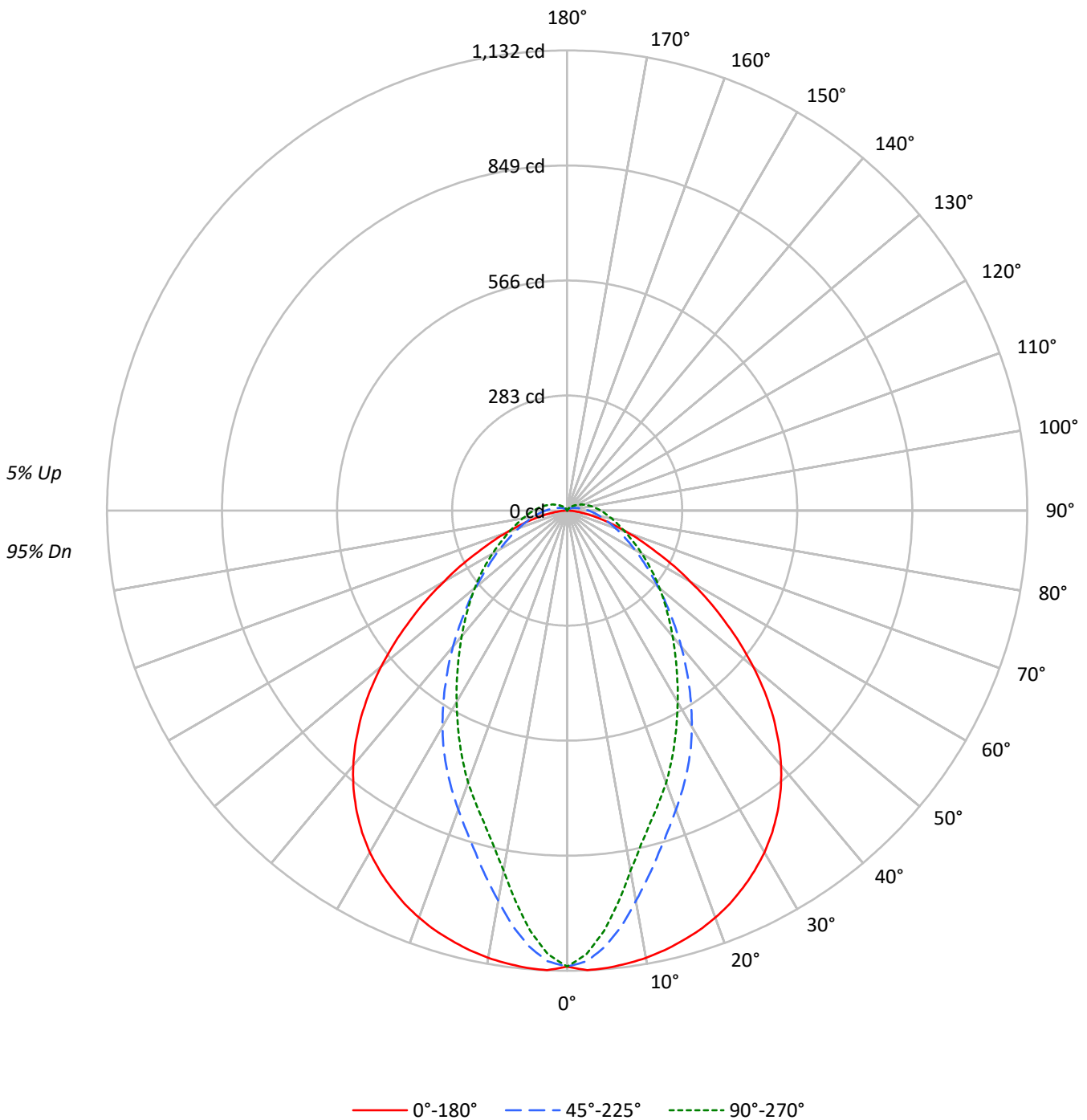
Lumens per Lamp: N/A
Luminaire Lumens: 2104.0 lumens
Efficiency: N/A
Efficacy: 147.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 0.78 / 1
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

Input Watts (W): 14.3
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	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°	8049	8049	8049
5°	8108	7552	7232
10°	8089	6745	6131
15°	8061	5990	5336
20°	8032	5387	4764
25°	7970	4867	4199
30°	7879	4329	3680
35°	7712	3779	3226
40°	7443	3266	2849
45°	7014	2797	2529
50°	6392	2401	2263
55°	5607	2072	2025
60°	4722	1811	1821
65°	3814	1608	1650
70°	3034	1456	1530
75°	2292	1330	1457
80°	1651	1263	1430
85°	1011	1234	1438



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.0	4.8
10°-20°	254.1	12.1
20°-30°	344.6	16.4
30°-40°	366.0	17.4
40°-50°	327.3	15.6
50°-60°	253.6	12.1
60°-70°	175.3	8.3
70°-80°	112.0	5.3
80°-90°	68.6	3.3
90°-100°	42.7	2.0
100°-110°	26.8	1.3
110°-120°	16.4	0.8
120°-130°	9.3	0.4
130°-140°	4.7	0.2
140°-150°	2.0	0.1
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	698.7	33.2
0°-40°	1064.7	50.6
0°-60°	1645.5	78.2
0°-90°	2001.4	95.1
90°-120°	85.8	4.1
90°-150°	101.9	4.8
90°-180°	103.0	4.9
0°-180°	2104.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1122	1122	1122	1122	1122	
5°	1129	1102	1076	1047	1038	107
15°	1096	988	871	808	793	309
25°	1024	832	701	642	626	472
35°	903	658	522	476	469	564
45°	716	462	358	344	346	550
55°	472	284	237	246	252	422
65°	242	161	156	173	178	245
75°	94	81	102	124	129	103
85°	17	37	66	88	95	21
90°	0	24	53	75	83	1
95°	0	15	41	63	71	0
105°	0	7	24	43	51	0
115°	0	4	15	29	35	0
125°	0	2	10	18	22	0
135°	0	1	6	11	13	0
145°	0	0	2	6	7	0
155°	1	0	1	2	2	0
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°	1121.7	1121.7	1121.7	1121.7	1121.7
2.5°	1131.7	1113.4	1109.7	1098.9	1091.8
5°	1129.2	1101.8	1076.0	1047.0	1038.2
7.5°	1124.2	1081.9	1029.9	980.9	969.7
10°	1117.2	1054.9	974.7	914.4	899.1
12.5°	1107.6	1023.3	922.7	856.3	840.9
15°	1095.6	988.0	871.2	807.7	793.1
17.5°	1082.3	951.8	825.1	764.4	751.6
20°	1065.7	911.5	782.7	722.9	712.1
22.5°	1046.5	873.3	742.0	681.8	669.3
25°	1023.7	832.2	700.9	641.9	626.5
27.5°	998.8	790.6	658.5	598.7	584.1
30°	970.9	748.7	613.2	555.1	543.8
32.5°	938.9	704.6	567.5	514.8	505.2
35°	902.8	658.5	522.2	476.5	468.6
37.5°	863.3	610.3	478.6	439.6	434.6
40°	818.9	560.9	436.6	405.5	403.4
42.5°	769.4	511.4	395.9	373.9	373.9
45°	716.3	461.6	358.5	343.6	346.1
47.5°	658.5	412.1	324.1	316.6	320.7
50°	597.4	366.0	292.1	291.2	296.6
52.5°	535.1	323.2	262.6	267.6	273.8
55°	471.5	284.2	236.8	245.5	251.8
57.5°	412.1	248.4	213.5	225.6	231.4
60°	349.8	216.5	191.9	206.5	212.3
62.5°	297.5	187.0	173.7	188.6	194.4
65°	242.2	161.2	155.8	172.8	178.2
67.5°	199.8	137.9	140.4	158.7	163.7
70°	159.1	116.7	126.7	145.8	150.8
72.5°	125.9	97.2	114.3	134.2	139.2
75°	93.9	81.4	101.8	123.8	128.8
77.5°	68.6	67.7	91.8	114.3	119.7
80°	48.2	55.3	82.7	104.7	110.9
82.5°	31.2	44.9	74.4	96.0	102.2
85°	17.4	36.6	66.5	88.5	95.1
87.5°	8.3	29.5	59.4	81.8	88.9
90°	0.4	23.7	52.8	75.2	82.7
92.5°	0.0	18.7	46.9	69.0	76.9
95°	0.0	15.0	41.1	63.2	71.0
97.5°	0.0	12.0	36.1	57.7	65.6
100°	0.0	9.6	32.0	52.3	60.7
102.5°	0.0	7.9	27.8	47.8	56.1
105°	0.0	6.6	24.5	43.2	51.1
107.5°	0.0	5.8	21.6	39.1	46.9
110°	0.0	5.0	19.5	35.3	42.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	4.6	17.0	32.0	39.1
115°	0.0	3.7	15.4	28.7	34.9
117.5°	0.0	3.3	13.7	25.8	31.6
120°	0.0	2.9	12.0	23.3	28.3
122.5°	0.0	2.5	10.8	20.4	24.9
125°	0.0	2.1	9.6	18.3	22.0
127.5°	0.4	1.7	8.7	16.2	19.1
130°	0.4	1.2	7.5	14.1	17.0
132.5°	0.4	1.2	6.6	12.5	14.5
135°	0.4	0.8	5.8	10.8	12.9
137.5°	0.4	0.8	5.0	9.6	10.8
140°	0.4	0.4	4.2	7.9	9.6
142.5°	0.4	0.4	3.3	6.6	7.9
145°	0.4	0.4	2.5	5.8	6.6
147.5°	0.4	0.4	2.1	4.6	5.4
150°	0.4	0.4	1.7	3.7	4.2
152.5°	0.4	0.4	1.2	2.9	3.3
155°	0.8	0.4	0.8	2.1	2.5
157.5°	0.8	0.8	0.8	1.7	1.7
160°	0.8	0.8	0.8	0.8	1.2
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)