

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: P236260

Luminaire Tested: **4SWLED-16SL-LW-UNV-L840-CD1-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P236260  
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-16SL-LW-UNV-L840-CD1-U  
Description: METALUX SWLED LINEAR LUMINAIRE  
4FT FIXTURE WITH 1 ROW LED, WIDE LENS  
Light Source: (112) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

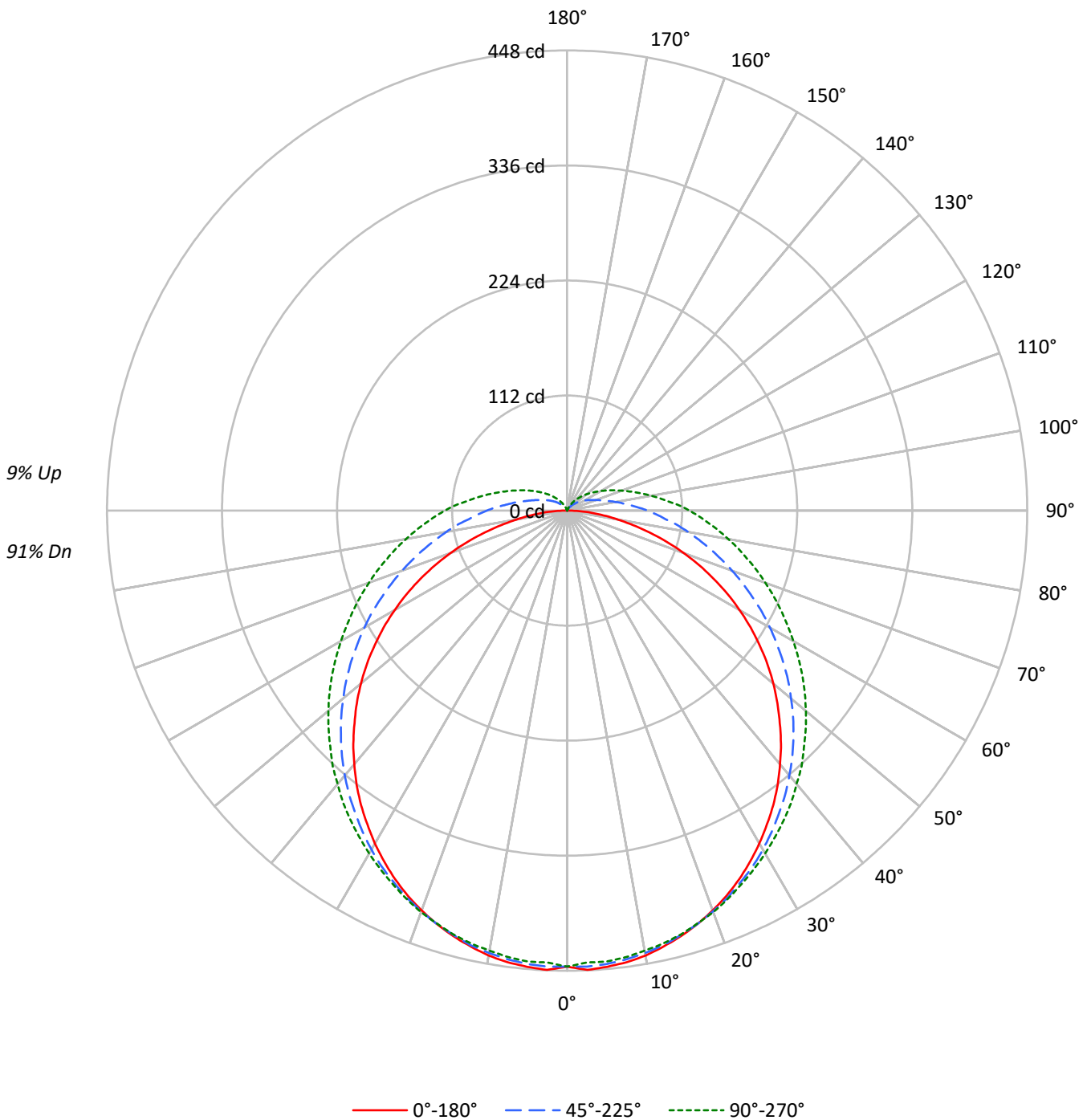
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1626.0 lumens  
Efficiency: N/A  
Efficacy: 113.7 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): 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	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°	3185	3185	3185
5°	3202	3110	3070
10°	3185	3027	2966
15°	3156	2940	2875
20°	3122	2858	2783
25°	3084	2773	2690
30°	3037	2691	2609
35°	2989	2603	2532
40°	2930	2518	2454
45°	2867	2430	2382
50°	2804	2340	2314
55°	2721	2247	2248
60°	2619	2151	2182
65°	2482	2053	2127
70°	2302	1963	2082
75°	2035	1878	2053
80°	1719	1825	2052
85°	1342	1789	2088



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.0	2.6
10°-20°	120.5	7.4
20°-30°	183.4	11.3
30°-40°	224.1	13.8
40°-50°	239.2	14.7
50°-60°	228.2	14.0
60°-70°	194.6	12.0
70°-80°	147.0	9.0
80°-90°	98.7	6.1
90°-100°	61.9	3.8
100°-110°	38.5	2.4
110°-120°	23.6	1.5
120°-130°	13.8	0.8
130°-140°	7.0	0.4
140°-150°	2.8	0.2
150°-160°	0.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	345.9	21.3
0°-40°	570.0	35.1
0°-60°	1037.3	63.8
0°-90°	1477.7	90.9
90°-120°	124.0	7.6
90°-150°	147.6	9.1
90°-180°	148.0	9.1
0°-180°	1626.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	444	444	444	444	444	
5°	446	441	443	441	441	42
15°	429	424	428	427	427	121
25°	396	393	399	400	401	182
35°	350	350	360	363	368	219
45°	293	298	312	320	326	226
55°	229	238	257	271	280	205
65°	158	172	199	220	230	156
75°	83	107	144	172	182	89
85°	23	54	96	128	138	24
90°	0	36	78	108	119	2
95°	0	24	61	89	99	0
105°	0	11	38	60	69	0
115°	0	6	24	40	47	0
125°	0	4	15	26	31	0
135°	0	1	8	16	19	0
145°	0	0	4	8	10	0
155°	0	0	1	2	3	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°	443.9	443.9	443.9	443.9	443.9
2.5°	447.6	442.3	444.3	442.7	440.3
5°	445.9	441.1	443.1	441.1	440.7
7.5°	443.5	438.6	440.7	439.1	438.6
10°	439.9	434.6	437.4	435.4	435.0
12.5°	434.6	430.1	433.4	431.4	431.8
15°	428.9	424.5	427.7	426.9	427.3
17.5°	422.0	418.0	422.0	421.2	421.6
20°	414.3	410.7	415.2	414.7	416.0
22.5°	405.8	402.2	407.9	407.1	409.1
25°	396.1	393.3	399.4	399.8	401.4
27.5°	385.6	383.6	390.9	391.3	393.7
30°	374.2	372.6	381.1	382.8	385.6
32.5°	362.1	361.7	370.6	373.4	376.7
35°	349.9	349.5	359.7	363.3	367.8
37.5°	336.6	337.4	348.7	353.6	358.4
40°	322.4	323.6	336.6	342.7	347.5
42.5°	308.2	311.5	324.4	332.1	337.8
45°	292.8	297.7	311.5	320.4	326.0
47.5°	277.8	283.5	298.5	308.6	315.1
50°	262.1	268.5	284.7	296.5	303.4
52.5°	245.9	253.1	271.0	284.3	291.6
55°	228.8	237.8	256.8	271.4	279.5
57.5°	211.8	222.0	242.2	259.2	266.9
60°	194.0	205.3	228.0	245.9	254.4
62.5°	176.2	189.1	213.9	233.7	241.8
65°	157.6	172.1	198.9	220.3	229.7
67.5°	139.3	155.9	184.7	207.8	217.5
70°	120.7	138.9	170.9	195.6	205.3
72.5°	102.1	122.7	157.2	183.9	193.6
75°	83.4	106.9	143.8	172.1	181.5
77.5°	66.0	91.1	131.2	160.0	170.5
80°	50.2	77.4	119.5	149.1	159.2
82.5°	35.6	65.2	108.1	138.1	148.6
85°	23.1	53.9	96.4	127.6	138.1
87.5°	11.3	44.1	87.1	117.9	128.4
90°	0.4	36.5	78.2	108.5	119.1
92.5°	0.0	29.2	69.3	98.4	109.8
95°	0.0	23.5	61.2	89.1	99.2
97.5°	0.0	19.4	54.3	81.4	91.1
100°	0.0	15.8	48.2	73.7	83.0
102.5°	0.0	13.4	42.5	66.8	75.7
105°	0.0	11.3	37.7	60.3	68.9
107.5°	0.0	10.1	33.6	54.7	62.4
110°	0.0	8.9	30.0	49.4	56.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	7.7	26.7	44.6	51.4
115°	0.0	6.5	24.3	40.1	46.6
117.5°	0.0	5.7	21.9	36.0	42.1
120°	0.0	4.9	19.4	32.8	38.1
122.5°	0.0	4.1	17.4	29.6	34.4
125°	0.0	3.6	15.4	26.3	30.8
127.5°	0.0	2.8	13.8	23.5	27.9
130°	0.0	2.4	11.7	21.1	24.7
132.5°	0.0	1.6	10.1	18.6	21.9
135°	0.0	1.2	8.5	16.2	19.0
137.5°	0.0	0.8	7.3	14.2	16.6
140°	0.0	0.8	5.7	12.2	14.2
142.5°	0.0	0.4	4.5	10.1	12.2
145°	0.0	0.4	3.6	8.1	10.1
147.5°	0.4	0.0	2.4	6.5	8.1
150°	0.4	0.0	2.0	4.9	6.5
152.5°	0.4	0.0	1.2	3.6	4.9
155°	0.4	0.0	0.8	2.4	3.2
157.5°	0.4	0.4	0.4	1.2	2.0
160°	0.4	0.0	0.0	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)