

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: P709872

Luminaire Tested: **4AWS-L3C39-UNV-4000K-MID**

Issue Date: 9/26/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P709872  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-090-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/26/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4AWS-L3C39-UNV-4000K-MID  
Description: 4foot, Wide Adapt Surface Wrap with, RD lens and MID lumen setting, 4000K, 90CRI  
  
Light Source: -  
Ballast/Driver: -

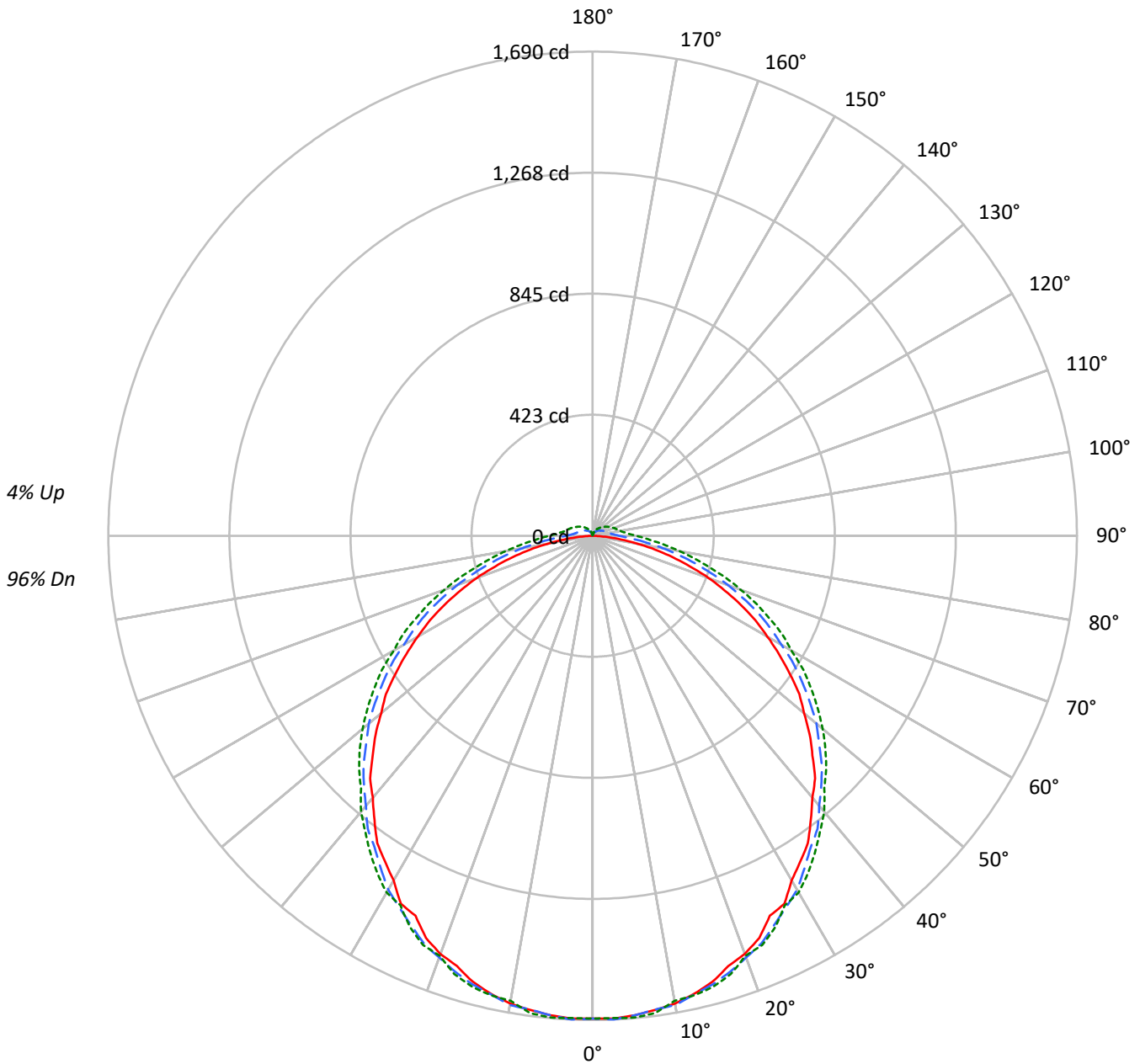
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5197.0 lumens  
Efficiency: N/A  
Efficacy: 136.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 3.71' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 38  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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									
RC	80									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	109	109	109	103	103	103	98	98	98	96																			
1	107	102	97	93	104	99	95	91	94	91	88	90	87	84	85	83	81	79																			
2	97	89	81	76	94	86	80	74	82	77	72	78	74	70	74	71	67	65																			
3	88	78	69	62	85	76	68	62	72	65	60	69	63	58	66	61	57	54																			
4	81	69	60	53	78	67	59	52	64	57	51	61	55	50	58	53	49	46																			
5	74	61	52	45	72	60	51	45	57	50	44	55	48	43	52	47	42	40																			
6	68	55	46	39	66	54	45	39	52	44	38	49	43	38	47	42	37	35																			
7	63	50	41	35	61	49	40	34	47	39	34	45	38	33	43	37	33	31																			
8	59	45	37	31	57	45	36	31	43	35	30	41	35	30	40	34	29	27																			
9	55	42	33	28	53	41	33	28	39	32	27	38	32	27	37	31	26	25																			
10	52	38	30	25	50	38	30	25	36	29	25	35	29	24	34	28	24	22																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5890	5890	5890
5°	5871	5805	5820
10°	5838	5724	5645
15°	5764	5599	5589
20°	5683	5474	5400
25°	5527	5340	5307
30°	5463	5223	5191
35°	5416	5036	5046
40°	5243	4887	4896
45°	5129	4748	4729
50°	4967	4576	4580
55°	4804	4348	4391
60°	4564	4068	4134
65°	4302	3818	3904
70°	3912	3450	3592
75°	3333	2995	3208
80°	2512	2494	2865
85°	1334	1994	2556



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.9	3.1
10°-20°	457.1	8.8
20°-30°	689.7	13.3
30°-40°	832.3	16.0
40°-50°	867.4	16.7
50°-60°	795.0	15.3
60°-70°	623.5	12.0
70°-80°	385.4	7.4
80°-90°	163.5	3.1
90°-100°	71.6	1.4
100°-110°	50.8	1.0
110°-120°	38.1	0.7
120°-130°	27.2	0.5
130°-140°	17.9	0.3
140°-150°	10.6	0.2
150°-160°	5.1	0.1
160°-170°	1.7	0.0
170°-180°	0.2	0.0
0°-30°	1306.7	25.1
0°-40°	2139.0	41.2
0°-60°	3801.4	73.1
0°-90°	4973.8	95.7
90°-120°	160.5	3.1
90°-150°	216.2	4.2
90°-180°	223.0	4.3
0°-180°	5197.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1685	1685	1685	1685	1685	
5°	1680	1683	1680	1680	1688	160
15°	1612	1616	1621	1626	1629	454
25°	1464	1489	1499	1501	1508	681
35°	1310	1315	1327	1349	1352	814
45°	1085	1098	1131	1148	1153	838
55°	840	862	894	913	931	750
65°	571	593	637	662	679	564
75°	289	319	368	409	419	307
85°	51	91	150	194	213	65
90°	3	39	93	134	150	3
95°	0	25	68	101	117	0
105°	0	19	51	78	88	0
115°	0	15	41	62	71	0
125°	0	14	32	47	56	0
135°	0	10	25	36	42	0
145°	2	8	19	25	29	1
155°	2	5	12	17	19	1
165°	2	3	5	8	8	0
175°	2	2	2	2	3	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1684.9	1684.9	1684.9	1684.9	1684.9
2.5°	1686.6	1693.4	1690.0	1686.6	1684.9
5°	1679.9	1683.3	1679.9	1679.9	1688.3
7.5°	1669.7	1674.8	1668.0	1678.2	1679.9
10°	1657.9	1664.7	1663.0	1666.4	1647.8
12.5°	1637.6	1646.1	1639.3	1647.8	1642.7
15°	1612.3	1615.7	1620.7	1625.8	1629.2
17.5°	1575.1	1590.3	1595.4	1600.4	1603.8
20°	1553.1	1561.6	1566.6	1565.0	1559.9
22.5°	1519.3	1524.4	1539.6	1536.2	1546.4
25°	1463.5	1488.9	1499.0	1500.7	1507.5
27.5°	1448.3	1450.0	1461.9	1472.0	1453.4
30°	1389.2	1409.5	1426.4	1431.4	1438.2
32.5°	1348.6	1365.5	1375.7	1394.3	1397.6
35°	1309.8	1314.8	1326.7	1348.6	1352.0
37.5°	1250.6	1265.8	1289.5	1301.3	1303.0
40°	1193.1	1211.7	1230.3	1243.8	1257.4
42.5°	1149.2	1159.3	1181.3	1198.2	1196.5
45°	1085.0	1098.5	1130.6	1147.5	1152.6
47.5°	1027.5	1047.8	1071.5	1096.8	1101.9
50°	963.3	985.3	1019.1	1037.7	1047.8
52.5°	909.2	922.7	956.5	975.1	990.3
55°	839.9	861.9	894.0	912.6	931.2
57.5°	772.3	799.4	831.5	861.9	872.0
60°	704.7	731.8	760.5	794.3	801.1
62.5°	640.5	669.2	699.7	733.5	747.0
65°	571.2	593.2	637.1	662.5	679.4
67.5°	498.6	525.6	567.8	596.6	616.9
70°	431.0	461.4	501.9	537.4	549.3
72.5°	356.6	393.8	432.6	469.8	486.7
75°	289.0	319.4	368.4	409.0	419.1
77.5°	224.8	253.5	305.9	346.5	361.7
80°	157.2	192.7	248.4	289.0	307.6
82.5°	99.7	136.9	194.4	238.3	258.6
85°	50.7	91.3	150.4	194.4	212.9
87.5°	16.9	57.5	114.9	160.6	179.1
90°	3.4	38.9	93.0	133.5	150.4
92.5°	0.0	28.7	77.7	114.9	130.1
95°	0.0	25.4	67.6	101.4	116.6
97.5°	0.0	23.7	62.5	93.0	104.8
100°	0.0	22.0	57.5	86.2	98.0
102.5°	0.0	20.3	54.1	81.1	93.0
105°	0.0	18.6	50.7	77.7	87.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	16.9	43.9	64.2	74.4
115°	0.0	15.2	40.6	62.5	71.0
117.5°	0.0	15.2	38.9	57.5	65.9
120°	0.0	13.5	35.5	54.1	62.5
122.5°	0.0	13.5	33.8	52.4	59.2
125°	0.0	13.5	32.1	47.3	55.8
127.5°	0.0	11.8	30.4	45.6	50.7
130°	0.0	11.8	28.7	42.3	47.3
132.5°	0.0	10.1	27.0	38.9	43.9
135°	0.0	10.1	25.4	35.5	42.3
137.5°	0.0	10.1	23.7	33.8	37.2
140°	0.0	8.5	22.0	30.4	35.5
142.5°	1.7	8.5	18.6	28.7	32.1
145°	1.7	8.5	18.6	25.4	28.7
147.5°	1.7	6.8	16.9	23.7	27.0
150°	1.7	6.8	15.2	20.3	23.7
152.5°	1.7	5.1	13.5	18.6	20.3
155°	1.7	5.1	11.8	16.9	18.6
157.5°	1.7	5.1	10.1	13.5	15.2
160°	1.7	3.4	8.5	11.8	13.5
162.5°	1.7	3.4	6.8	10.1	11.8
165°	1.7	3.4	5.1	8.5	8.5
167.5°	1.7	3.4	5.1	6.8	6.8
170°	1.7	1.7	3.4	5.1	5.1
172.5°	1.7	1.7	3.4	3.4	3.4
175°	1.7	1.7	1.7	1.7	3.4
177.5°	1.7	1.7	1.7	1.7	1.7
180°	1.7	1.7	1.7	1.7	1.7



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°    - - 45°-225°    - - - - 90°-270°







107.5°	0.0	18.6	49.0	72.7	82.8
110°	0.0	16.9	45.6	69.3	79.4



(END OF REPORT)