

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: P709869

Luminaire Tested: **4AWWS-L3C39-UNV-3500K-MID**

Issue Date: 9/26/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P709869  
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-3500K-MID  
Description: 4foot, Wide Adapt Surface Wrap with, RD lens and MID lumen setting, 3500K, 90CRI  
  
Light Source: -  
Ballast/Driver: -

**Summary**

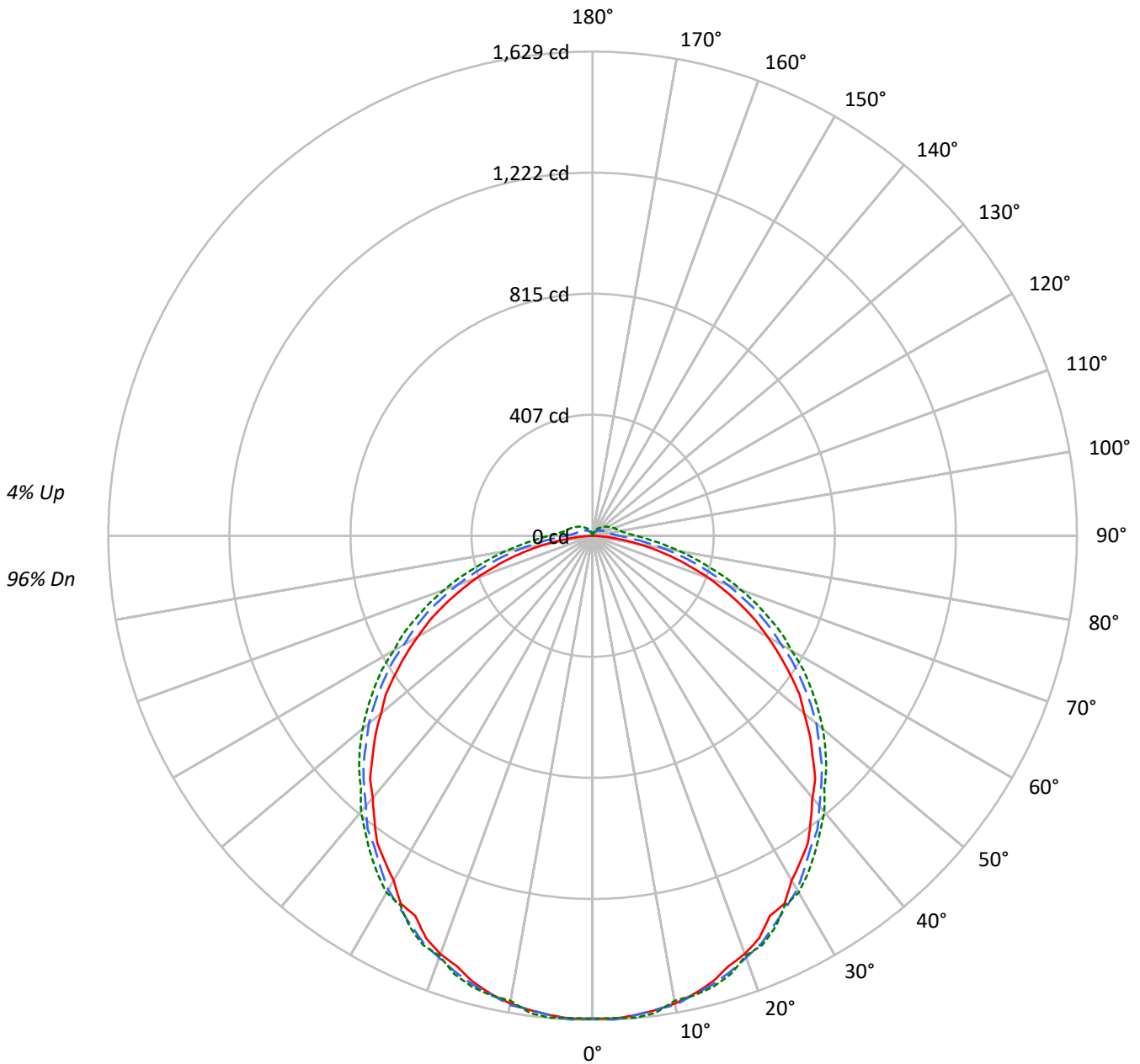
Lumens per Lamp: N/A  
Luminaire Lumens: 5010.0 lumens  
Efficiency: N/A  
Efficacy: 125.2 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 3.71' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 40  
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

TEST NUMBER: P709869

CATALOG NUMBER: 4AWWS-L3C39-UNV-3500K-MID

### Luminous Intensity Polar Plot





TEST NUMBER: P709869

CATALOG NUMBER: 4AWWS-L3C39-UNV-3500K-MID

**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°	5678	5678	5678
5°	5660	5596	5611
10°	5627	5518	5442
15°	5557	5398	5388
20°	5478	5278	5206
25°	5328	5148	5116
30°	5266	5035	5004
35°	5220	4855	4864
40°	5054	4712	4720
45°	4944	4577	4559
50°	4788	4411	4415
55°	4632	4191	4233
60°	4401	3921	3985
65°	4147	3681	3764
70°	3771	3326	3463
75°	3213	2887	3092
80°	2421	2404	2761
85°	1287	1922	2464



TEST NUMBER: P709869

CATALOG NUMBER: 4AWWS-L3C39-UNV-3500K-MID

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.2	3.1
10°-20°	440.6	8.8
20°-30°	664.8	13.3
30°-40°	802.4	16.0
40°-50°	836.2	16.7
50°-60°	766.4	15.3
60°-70°	601.0	12.0
70°-80°	371.6	7.4
80°-90°	157.6	3.1
90°-100°	69.0	1.4
100°-110°	49.0	1.0
110°-120°	36.8	0.7
120°-130°	26.2	0.5
130°-140°	17.3	0.3
140°-150°	10.2	0.2
150°-160°	4.9	0.1
160°-170°	1.6	0.0
170°-180°	0.2	0.0
0°-30°	1259.6	25.1
0°-40°	2062.0	41.2
0°-60°	3664.6	73.1
0°-90°	4794.8	95.7
90°-120°	154.7	3.1
90°-150°	208.4	4.2
90°-180°	215.0	4.3
0°-180°	5010.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1624	1624	1624	1624	1624	
5°	1619	1623	1619	1619	1628	154
15°	1554	1558	1562	1567	1570	438
25°	1411	1435	1445	1447	1453	656
35°	1263	1268	1279	1300	1303	785
45°	1046	1059	1090	1106	1111	808
55°	810	831	862	880	898	723
65°	551	572	614	639	655	543
75°	279	308	355	394	404	296
85°	49	88	145	187	205	62
90°	3	38	90	129	145	3
95°	0	24	65	98	112	0
105°	0	18	49	75	85	0
115°	0	15	39	60	68	0
125°	0	13	31	46	54	0
135°	0	10	24	34	41	0
145°	2	8	18	24	28	1
155°	2	5	11	16	18	1
165°	2	3	5	8	8	0
175°	2	2	2	2	3	0
180°	2	2	2	2	2	



TEST NUMBER: P709869

CATALOG NUMBER: 4AWWS-L3C39-UNV-3500K-MID

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1624.3	1624.3	1624.3	1624.3	1624.3
2.5°	1625.9	1632.5	1629.2	1625.9	1624.3
5°	1619.4	1622.7	1619.4	1619.4	1627.6
7.5°	1609.7	1614.5	1608.0	1617.8	1619.4
10°	1598.2	1604.8	1603.1	1606.4	1588.5
12.5°	1578.7	1586.8	1580.3	1588.5	1583.6
15°	1554.3	1557.5	1562.4	1567.3	1570.5
17.5°	1518.4	1533.1	1538.0	1542.9	1546.1
20°	1497.2	1505.4	1510.3	1508.6	1503.8
22.5°	1464.7	1469.5	1484.2	1480.9	1490.7
25°	1410.9	1435.3	1445.1	1446.7	1453.2
27.5°	1396.2	1397.9	1409.3	1419.0	1401.1
30°	1339.2	1358.8	1375.0	1379.9	1386.4
32.5°	1300.1	1316.4	1326.2	1344.1	1347.3
35°	1262.6	1267.5	1278.9	1300.1	1303.4
37.5°	1205.6	1220.3	1243.1	1254.5	1256.1
40°	1150.2	1168.1	1186.1	1199.1	1212.1
42.5°	1107.9	1117.6	1138.8	1155.1	1153.5
45°	1045.9	1059.0	1089.9	1106.2	1111.1
47.5°	990.6	1010.1	1032.9	1057.4	1062.2
50°	928.6	949.8	982.4	1000.3	1010.1
52.5°	876.5	889.5	922.1	940.0	954.7
55°	809.7	830.9	861.8	879.8	897.7
57.5°	744.5	770.6	801.6	830.9	840.7
60°	679.4	705.4	733.1	765.7	772.2
62.5°	617.5	645.2	674.5	707.1	720.1
65°	550.7	571.8	614.2	638.6	654.9
67.5°	480.6	506.7	547.4	575.1	594.7
70°	415.4	444.8	483.9	518.1	529.5
72.5°	343.8	379.6	417.1	452.9	469.2
75°	278.6	307.9	355.2	394.3	404.0
77.5°	216.7	244.4	294.9	334.0	348.6
80°	151.5	185.7	239.5	278.6	296.5
82.5°	96.1	132.0	187.4	229.7	249.3
85°	48.9	88.0	145.0	187.4	205.3
87.5°	16.3	55.4	110.8	154.8	172.7
90°	3.3	37.5	89.6	128.7	145.0
92.5°	0.0	27.7	74.9	110.8	125.4
95°	0.0	24.4	65.2	97.8	112.4
97.5°	0.0	22.8	60.3	89.6	101.0
100°	0.0	21.2	55.4	83.1	94.5
102.5°	0.0	19.6	52.1	78.2	89.6
105°	0.0	17.9	48.9	74.9	84.7



TEST NUMBER: P709869

CATALOG NUMBER: 4AWWS-L3C39-UNV-3500K-MID

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	16.3	42.4	61.9	71.7
115°	0.0	14.7	39.1	60.3	68.4
117.5°	0.0	14.7	37.5	55.4	63.5
120°	0.0	13.0	34.2	52.1	60.3
122.5°	0.0	13.0	32.6	50.5	57.0
125°	0.0	13.0	31.0	45.6	53.8
127.5°	0.0	11.4	29.3	44.0	48.9
130°	0.0	11.4	27.7	40.7	45.6
132.5°	0.0	9.8	26.1	37.5	42.4
135°	0.0	9.8	24.4	34.2	40.7
137.5°	0.0	9.8	22.8	32.6	35.8
140°	0.0	8.1	21.2	29.3	34.2
142.5°	1.6	8.1	17.9	27.7	31.0
145°	1.6	8.1	17.9	24.4	27.7
147.5°	1.6	6.5	16.3	22.8	26.1
150°	1.6	6.5	14.7	19.6	22.8
152.5°	1.6	4.9	13.0	17.9	19.6
155°	1.6	4.9	11.4	16.3	17.9
157.5°	1.6	4.9	9.8	13.0	14.7
160°	1.6	3.3	8.1	11.4	13.0
162.5°	1.6	3.3	6.5	9.8	11.4
165°	1.6	3.3	4.9	8.1	8.1
167.5°	1.6	3.3	4.9	6.5	6.5
170°	1.6	1.6	3.3	4.9	4.9
172.5°	1.6	1.6	3.3	3.3	3.3
175°	1.6	1.6	1.6	1.6	3.3
177.5°	1.6	1.6	1.6	1.6	1.6
180°	1.6	1.6	1.6	1.6	1.6



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	0.0	17.9	47.2	70.1	79.8
110°	0.0	16.3	44.0	66.8	76.6



(END OF REPORT)