

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: P709851

Luminaire Tested: **4AWWS-L3C3-SQR-UNV-3500K-MID**

Issue Date: 9/26/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P709851  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-090-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/26/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4AWS-L3C3-SQR-UNV-3500K-MID  
Description: 4foot, Wide Adapt Surface Wrap with, SQR lens and MID lumen setting,  
3500K, 80CRI  
  
Light Source: -  
Ballast/Driver: -

**Summary**

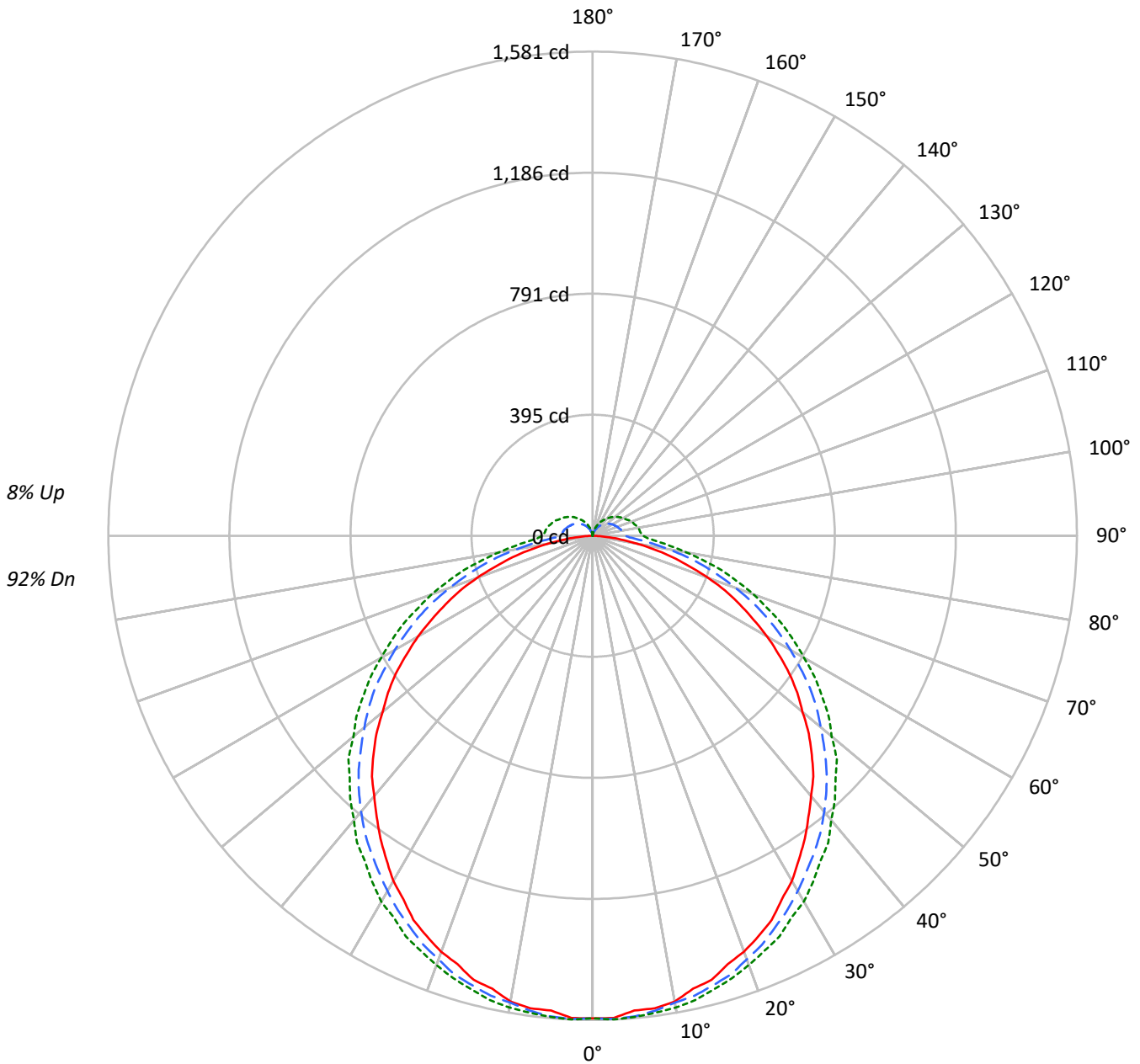
Lumens per Lamp: N/A  
Luminaire Lumens: 5164.0 lumens  
Efficiency: N/A  
Efficacy: 132.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 3.71' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 39  
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: P709851

CATALOG NUMBER: 4AWWS-L3C3-SQR-UNV-3500K-MID

### Luminous Intensity Polar Plot





TEST NUMBER: P709851

CATALOG NUMBER: 4AWWS-L3C3-SQR-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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	92																			
1	106	101	97	92	103	98	94	90	92	89	86	87	85	82	82	80	78	76																			
2	96	88	81	75	93	85	79	73	80	75	70	76	71	68	72	68	65	62																			
3	88	77	68	62	84	75	67	61	70	64	59	67	61	57	63	59	55	52																			
4	80	68	59	52	77	66	58	51	62	55	50	59	53	48	56	51	47	44																			
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	50	45	40	38																			
6	68	54	45	39	65	53	44	38	50	43	37	48	41	36	46	40	35	33																			
7	63	49	40	34	61	48	40	34	46	38	33	44	37	32	42	36	31	29																			
8	58	45	36	30	56	44	36	30	42	34	29	40	33	29	38	32	28	26																			
9	54	41	33	27	53	40	32	27	38	31	26	37	30	26	35	30	25	23																			
10	51	38	30	25	49	37	29	24	35	29	24	34	28	23	33	27	23	21																			

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

	0°	45°	90°
0°	5508	5508	5508
5°	5438	5445	5438
10°	5438	5327	5359
15°	5367	5250	5259
20°	5288	5143	5163
25°	5226	5025	5082
30°	5118	4904	4978
35°	4991	4790	4838
40°	4875	4670	4720
45°	4784	4534	4600
50°	4613	4365	4452
55°	4483	4214	4312
60°	4263	3989	4113
65°	3985	3746	3925
70°	3633	3410	3655
75°	3108	3025	3341
80°	2299	2507	2879
85°	1306	2016	2541



TEST NUMBER: P709851

CATALOG NUMBER: 4AWWS-L3C3-SQR-UNV-3500K-MID

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.4	2.9
10°-20°	428.6	8.3
20°-30°	651.5	12.6
30°-40°	789.1	15.3
40°-50°	829.7	16.1
50°-60°	767.0	14.9
60°-70°	610.4	11.8
70°-80°	384.2	7.4
80°-90°	166.5	3.2
90°-100°	98.7	1.9
100°-110°	86.9	1.7
110°-120°	71.8	1.4
120°-130°	55.0	1.1
130°-140°	38.4	0.7
140°-150°	22.7	0.4
150°-160°	10.7	0.2
160°-170°	3.1	0.1
170°-180°	0.3	0.0
0°-30°	1229.4	23.8
0°-40°	2018.6	39.1
0°-60°	3615.3	70.0
0°-90°	4776.4	92.5
90°-120°	257.4	5.0
90°-150°	373.5	7.2
90°-180°	388.0	7.5
0°-180°	5164.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1576	1576	1576	1576	1576	
5°	1556	1569	1576	1574	1578	149
15°	1501	1500	1520	1530	1533	422
25°	1384	1391	1410	1437	1444	636
35°	1207	1232	1262	1293	1296	755
45°	1012	1042	1080	1111	1121	780
55°	784	822	866	904	914	698
65°	529	574	625	666	683	524
75°	270	319	372	415	436	284
85°	50	94	152	195	212	60
90°	2	48	106	147	164	3
95°	0	43	99	141	155	0
105°	0	40	91	127	142	0
115°	0	35	79	112	124	0
125°	2	28	68	96	106	1
135°	2	23	55	76	86	1
145°	0	15	40	56	63	1
155°	2	8	25	36	41	1
165°	2	3	10	16	20	0
175°	2	2	2	3	3	0
180°	0	0	0	0	0	



TEST NUMBER: P709851

CATALOG NUMBER: 4AWWS-L3C3-SQR-UNV-3500K-MID

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1575.8	1575.8	1575.8	1575.8	1575.8
2.5°	1575.8	1564.3	1579.2	1577.5	1580.8
5°	1556.0	1569.2	1575.8	1574.2	1577.5
7.5°	1556.0	1556.0	1564.3	1569.2	1570.9
10°	1544.4	1551.0	1547.7	1556.0	1564.3
12.5°	1514.7	1532.9	1537.8	1556.0	1552.7
15°	1501.4	1499.8	1519.6	1529.5	1532.9
17.5°	1466.7	1479.9	1501.4	1511.4	1514.7
20°	1445.2	1458.4	1471.7	1493.2	1491.5
22.5°	1415.4	1427.0	1445.2	1465.1	1466.7
25°	1384.0	1390.6	1410.5	1436.9	1443.6
27.5°	1337.7	1359.2	1377.4	1412.1	1405.5
30°	1301.4	1316.2	1339.4	1372.5	1379.1
32.5°	1253.4	1283.2	1299.7	1329.5	1339.4
35°	1207.1	1231.9	1261.7	1293.1	1296.4
37.5°	1157.5	1192.2	1222.0	1255.1	1263.3
40°	1109.5	1139.3	1175.7	1205.4	1212.1
42.5°	1066.5	1094.7	1129.4	1167.4	1170.7
45°	1012.0	1041.7	1079.8	1111.2	1121.1
47.5°	957.4	992.1	1025.2	1063.2	1081.4
50°	894.6	934.3	972.3	1010.3	1018.6
52.5°	841.7	874.7	921.0	959.1	972.3
55°	783.8	821.8	866.5	904.5	914.4
57.5°	719.3	755.7	803.6	845.0	859.9
60°	658.1	697.8	745.8	787.1	797.0
62.5°	592.0	636.6	684.6	727.6	739.1
65°	529.1	573.8	625.0	666.4	682.9
67.5°	468.0	511.0	562.2	603.5	616.8
70°	400.2	443.2	496.1	542.4	558.9
72.5°	330.7	377.0	431.6	481.2	494.4
75°	269.5	319.1	372.1	415.0	436.5
77.5°	206.7	249.7	310.9	352.2	368.7
80°	143.9	193.5	249.7	296.0	309.2
82.5°	92.6	140.6	198.4	239.8	256.3
85°	49.6	94.3	152.1	195.1	211.7
87.5°	16.5	62.8	120.7	162.0	180.2
90°	1.7	48.0	105.8	147.2	163.7
92.5°	0.0	44.6	100.9	140.6	158.7
95°	0.0	43.0	99.2	140.6	155.4
97.5°	0.0	43.0	97.6	138.9	153.8
100°	0.0	41.3	95.9	133.9	150.5
102.5°	0.0	39.7	94.3	132.3	147.2
105°	0.0	39.7	90.9	127.3	142.2



TEST NUMBER: P709851

CATALOG NUMBER: 4AWWS-L3C3-SQR-UNV-3500K-MID

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	34.7	82.7	117.4	130.6
115°	0.0	34.7	79.4	112.4	124.0
117.5°	0.0	33.1	77.7	109.1	119.1
120°	0.0	31.4	74.4	104.2	115.7
122.5°	0.0	29.8	71.1	99.2	110.8
125°	1.7	28.1	67.8	95.9	105.8
127.5°	1.7	26.5	64.5	90.9	100.9
130°	1.7	26.5	61.2	86.0	95.9
132.5°	1.7	24.8	57.9	81.0	90.9
135°	1.7	23.1	54.6	76.1	86.0
137.5°	1.7	21.5	51.3	72.8	79.4
140°	0.0	19.8	48.0	66.1	74.4
142.5°	1.7	16.5	43.0	62.8	67.8
145°	0.0	14.9	39.7	56.2	62.8
147.5°	1.7	13.2	36.4	51.3	57.9
150°	1.7	11.6	33.1	46.3	52.9
152.5°	1.7	9.9	28.1	41.3	46.3
155°	1.7	8.3	24.8	36.4	41.3
157.5°	1.7	6.6	19.8	31.4	34.7
160°	1.7	6.6	16.5	26.5	29.8
162.5°	1.7	5.0	13.2	21.5	24.8
165°	1.7	3.3	9.9	16.5	19.8
167.5°	1.7	3.3	6.6	13.2	14.9
170°	1.7	3.3	5.0	8.3	9.9
172.5°	1.7	1.7	3.3	5.0	6.6
175°	1.7	1.7	1.7	3.3	3.3
177.5°	1.7	1.7	1.7	1.7	1.7
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	0.0	38.0	87.6	122.4	138.9
110°	0.0	36.4	86.0	119.1	133.9



(END OF REPORT)