

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: P709860

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

Issue Date: 9/26/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709860  
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-L3C3-UNV-3500K-MID  
Description: 4foot, Wide Adapt Surface Wrap with, RD lens and MID lumen setting, 3500K, 80CRI  
  
Light Source: -  
Ballast/Driver: -

**Summary**

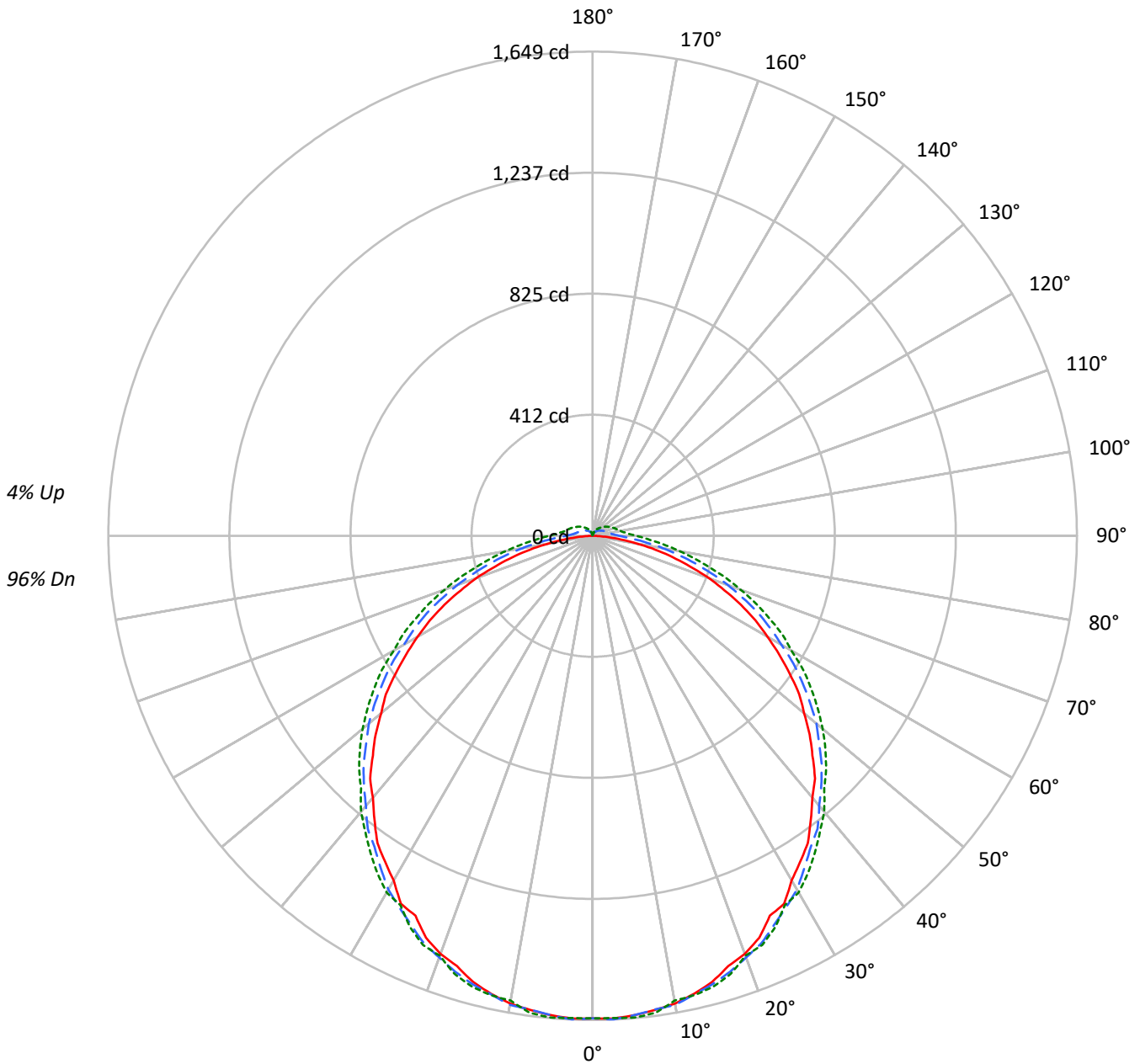
Lumens per Lamp: N/A  
Luminaire Lumens: 5070.0 lumens  
Efficiency: N/A  
Efficacy: 126.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 3.71' x H: 0.17')  
CIE Type: Direct

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

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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	50	30	10	0
RCR																					
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	98	98	98	96
1	107	102	97	93	104	99	95	91	94	91	88	90	87	84	85	83	81	81	81	81	79
2	97	89	81	76	94	86	80	74	82	77	72	78	74	70	74	71	67	67	67	67	65
3	88	78	69	62	85	76	68	62	72	65	60	69	63	58	66	61	57	57	57	57	54
4	81	69	60	53	78	67	59	52	64	57	51	61	55	50	58	53	49	49	49	49	46
5	74	61	52	45	72	60	51	45	57	50	44	55	48	43	52	47	42	42	42	42	40
6	68	55	46	39	66	54	45	39	52	44	38	49	43	38	47	42	37	37	37	37	35
7	63	50	41	35	61	49	40	34	47	39	34	45	38	33	43	37	33	33	33	33	31
8	59	45	37	31	57	45	36	31	43	35	30	41	35	30	40	34	29	29	29	29	27
9	55	42	33	28	53	41	33	28	39	32	27	38	32	27	37	31	26	26	26	26	25
10	52	38	30	25	50	38	30	25	36	29	25	35	29	24	34	28	24	24	24	24	22

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

	0°	45°	90°
0°	5746	5746	5746
5°	5727	5663	5678
10°	5695	5584	5507
15°	5623	5462	5453
20°	5544	5341	5268
25°	5392	5210	5178
30°	5329	5095	5064
35°	5283	4913	4923
40°	5115	4768	4776
45°	5003	4632	4614
50°	4846	4464	4468
55°	4687	4242	4283
60°	4453	3969	4033
65°	4197	3725	3809
70°	3816	3366	3504
75°	3251	2922	3130
80°	2449	2434	2795
85°	1303	1945	2493



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.0	3.1
10°-20°	445.9	8.8
20°-30°	672.8	13.3
30°-40°	812.0	16.0
40°-50°	846.2	16.7
50°-60°	775.6	15.3
60°-70°	608.3	12.0
70°-80°	376.0	7.4
80°-90°	159.4	3.1
90°-100°	69.8	1.4
100°-110°	49.6	1.0
110°-120°	37.2	0.7
120°-130°	26.5	0.5
130°-140°	17.5	0.3
140°-150°	10.3	0.2
150°-160°	4.9	0.1
160°-170°	1.6	0.0
170°-180°	0.2	0.0
0°-30°	1274.7	25.1
0°-40°	2086.8	41.2
0°-60°	3708.6	73.1
0°-90°	4852.3	95.7
90°-120°	156.6	3.1
90°-150°	210.9	4.2
90°-180°	218.0	4.3
0°-180°	5070.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1644	1644	1644	1644	1644	
5°	1639	1642	1639	1639	1647	156
15°	1573	1576	1581	1586	1589	443
25°	1428	1452	1462	1464	1471	664
35°	1278	1283	1294	1316	1319	794
45°	1058	1072	1103	1120	1124	817
55°	819	841	872	890	908	732
65°	557	579	622	646	663	550
75°	282	312	359	399	409	299
85°	50	89	147	190	208	63
90°	3	38	91	130	147	3
95°	0	25	66	99	114	0
105°	0	18	50	76	86	0
115°	0	15	40	61	69	0
125°	0	13	31	46	54	0
135°	0	10	25	35	41	0
145°	2	8	18	25	28	1
155°	2	5	12	16	18	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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CATALOG NUMBER: 4AWWS-L3C3-UNV-3500K-MID

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1643.8	1643.8	1643.8	1643.8	1643.8
2.5°	1645.4	1652.0	1648.7	1645.4	1643.8
5°	1638.8	1642.1	1638.8	1638.8	1647.1
7.5°	1628.9	1633.9	1627.3	1637.2	1638.8
10°	1617.4	1624.0	1622.3	1625.6	1607.5
12.5°	1597.6	1605.8	1599.3	1607.5	1602.5
15°	1572.9	1576.2	1581.1	1586.1	1589.4
17.5°	1536.6	1551.4	1556.4	1561.3	1564.6
20°	1515.2	1523.4	1528.4	1526.7	1521.8
22.5°	1482.2	1487.1	1502.0	1498.7	1508.6
25°	1427.8	1452.5	1462.4	1464.1	1470.7
27.5°	1412.9	1414.6	1426.1	1436.0	1417.9
30°	1355.2	1375.0	1391.5	1396.5	1403.1
32.5°	1315.7	1332.2	1342.1	1360.2	1363.5
35°	1277.8	1282.7	1294.2	1315.7	1319.0
37.5°	1220.0	1234.9	1258.0	1269.5	1271.2
40°	1164.0	1182.1	1200.3	1213.5	1226.6
42.5°	1121.1	1131.0	1152.4	1168.9	1167.3
45°	1058.5	1071.7	1103.0	1119.5	1124.4
47.5°	1002.4	1022.2	1045.3	1070.0	1075.0
50°	939.8	961.2	994.2	1012.3	1022.2
52.5°	887.0	900.2	933.2	951.3	966.1
55°	819.4	840.8	872.2	890.3	908.4
57.5°	753.5	779.8	811.2	840.8	850.7
60°	687.5	713.9	741.9	774.9	781.5
62.5°	624.9	652.9	682.6	715.5	728.7
65°	557.3	578.7	621.6	646.3	662.8
67.5°	486.4	512.7	554.0	582.0	601.8
70°	420.4	450.1	489.7	524.3	535.8
72.5°	347.9	384.1	422.1	458.3	474.8
75°	281.9	311.6	359.4	399.0	408.9
77.5°	219.3	247.3	298.4	338.0	352.8
80°	153.3	188.0	242.4	281.9	300.1
82.5°	97.3	133.5	189.6	232.5	252.3
85°	49.5	89.0	146.7	189.6	207.7
87.5°	16.5	56.1	112.1	156.6	174.8
90°	3.3	37.9	90.7	130.2	146.7
92.5°	0.0	28.0	75.8	112.1	127.0
95°	0.0	24.7	65.9	98.9	113.8
97.5°	0.0	23.1	61.0	90.7	102.2
100°	0.0	21.4	56.1	84.1	95.6
102.5°	0.0	19.8	52.8	79.1	90.7
105°	0.0	18.1	49.5	75.8	85.7



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

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	16.5	42.9	62.7	72.5
115°	0.0	14.8	39.6	61.0	69.2
117.5°	0.0	14.8	37.9	56.1	64.3
120°	0.0	13.2	34.6	52.8	61.0
122.5°	0.0	13.2	33.0	51.1	57.7
125°	0.0	13.2	31.3	46.2	54.4
127.5°	0.0	11.5	29.7	44.5	49.5
130°	0.0	11.5	28.0	41.2	46.2
132.5°	0.0	9.9	26.4	37.9	42.9
135°	0.0	9.9	24.7	34.6	41.2
137.5°	0.0	9.9	23.1	33.0	36.3
140°	0.0	8.2	21.4	29.7	34.6
142.5°	1.6	8.2	18.1	28.0	31.3
145°	1.6	8.2	18.1	24.7	28.0
147.5°	1.6	6.6	16.5	23.1	26.4
150°	1.6	6.6	14.8	19.8	23.1
152.5°	1.6	4.9	13.2	18.1	19.8
155°	1.6	4.9	11.5	16.5	18.1
157.5°	1.6	4.9	9.9	13.2	14.8
160°	1.6	3.3	8.2	11.5	13.2
162.5°	1.6	3.3	6.6	9.9	11.5
165°	1.6	3.3	4.9	8.2	8.2
167.5°	1.6	3.3	4.9	6.6	6.6
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	18.1	47.8	70.9	80.8
110°	0.0	16.5	44.5	67.6	77.5



(END OF REPORT)