

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: P709842

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

Issue Date: 9/26/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709842  
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-HO-UNV-3500K-MID  
Description: 4foot, Wide Adapt Surface Wrap with, RD lens and MID lumen setting, 3500K, 80CRI  
  
Light Source: -  
Ballast/Driver: -

**Summary**

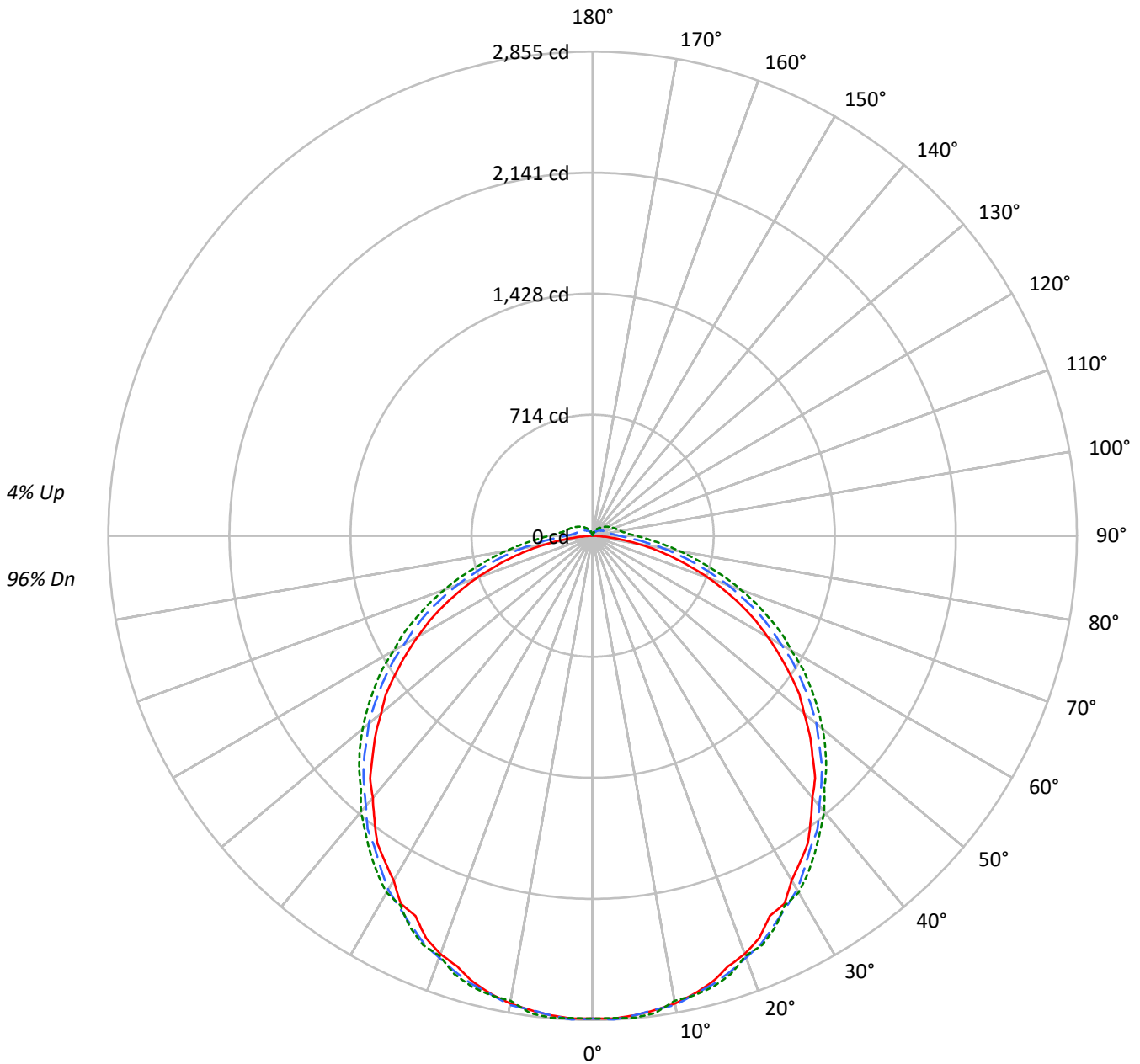
Lumens per Lamp: N/A  
Luminaire Lumens: 8780.0 lumens  
Efficiency: N/A  
Efficacy: 133.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 3.71' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 66  
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: P709842

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

### 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	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°	9950	9950	9950
5°	9919	9806	9832
10°	9862	9670	9537
15°	9738	9460	9442
20°	9601	9249	9123
25°	9337	9022	8966
30°	9229	8824	8770
35°	9149	8508	8524
40°	8857	8257	8271
45°	8664	8021	7990
50°	8392	7730	7738
55°	8117	7346	7418
60°	7712	6873	6984
65°	7268	6451	6596
70°	6609	5829	6069
75°	5631	5060	5420
80°	4242	4214	4839
85°	2256	3368	4319



TEST NUMBER: P709842

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

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	270.2	3.1
10°-20°	772.2	8.8
20°-30°	1165.1	13.3
30°-40°	1406.2	16.0
40°-50°	1465.4	16.7
50°-60°	1343.2	15.3
60°-70°	1053.3	12.0
70°-80°	651.2	7.4
80°-90°	276.1	3.1
90°-100°	120.9	1.4
100°-110°	85.8	1.0
110°-120°	64.4	0.7
120°-130°	45.9	0.5
130°-140°	30.3	0.3
140°-150°	17.9	0.2
150°-160°	8.6	0.1
160°-170°	2.8	0.0
170°-180°	0.4	0.0
0°-30°	2207.5	25.1
0°-40°	3613.7	41.2
0°-60°	6422.3	73.1
0°-90°	8402.9	95.7
90°-120°	271.1	3.1
90°-150°	365.3	4.2
90°-180°	377.0	4.3
0°-180°	8780.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2847	2847	2847	2847	2847	
5°	2838	2844	2838	2838	2852	270
15°	2724	2730	2738	2747	2752	767
25°	2473	2515	2532	2535	2547	1150
35°	2213	2221	2241	2278	2284	1376
45°	1833	1856	1910	1939	1947	1415
55°	1419	1456	1510	1542	1573	1268
65°	965	1002	1076	1119	1148	952
75°	488	540	622	691	708	518
85°	86	154	254	328	360	109
90°	6	66	157	226	254	5
95°	0	43	114	171	197	0
105°	0	31	86	131	148	0
115°	0	26	68	106	120	0
125°	0	23	54	80	94	0
135°	0	17	43	60	71	0
145°	3	14	31	43	48	2
155°	3	9	20	29	31	1
165°	3	6	9	14	14	1
175°	3	3	3	3	6	0
180°	3	3	3	3	3	



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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2846.6	2846.6	2846.6	2846.6	2846.6
2.5°	2849.5	2860.9	2855.2	2849.5	2846.6
5°	2838.0	2843.7	2838.0	2838.0	2852.3
7.5°	2820.9	2829.5	2818.0	2835.2	2838.0
10°	2800.9	2812.3	2809.5	2815.2	2783.8
12.5°	2766.7	2780.9	2769.5	2783.8	2775.2
15°	2723.8	2729.5	2738.1	2746.7	2752.4
17.5°	2661.0	2686.7	2695.3	2703.8	2709.6
20°	2623.9	2638.2	2646.7	2643.9	2635.3
22.5°	2566.8	2575.4	2601.1	2595.3	2612.5
25°	2472.6	2515.4	2532.5	2535.4	2546.8
27.5°	2446.9	2449.7	2469.7	2486.8	2455.4
30°	2346.9	2381.2	2409.8	2418.3	2429.7
32.5°	2278.4	2307.0	2324.1	2355.5	2361.2
35°	2212.8	2221.3	2241.3	2278.4	2284.1
37.5°	2112.8	2138.5	2178.5	2198.5	2201.3
40°	2015.7	2047.2	2078.6	2101.4	2124.2
42.5°	1941.5	1958.6	1995.8	2024.3	2021.5
45°	1833.0	1855.9	1910.1	1938.7	1947.2
47.5°	1735.9	1770.2	1810.2	1853.0	1861.6
50°	1627.4	1664.6	1721.7	1753.1	1770.2
52.5°	1536.1	1558.9	1616.0	1647.4	1673.1
55°	1419.0	1456.1	1510.4	1541.8	1573.2
57.5°	1304.8	1350.5	1404.7	1456.1	1473.3
60°	1190.6	1236.3	1284.8	1341.9	1353.3
62.5°	1082.1	1130.6	1182.0	1239.1	1262.0
65°	965.0	1002.2	1076.4	1119.2	1147.8
67.5°	842.3	888.0	959.3	1007.9	1042.1
70°	728.1	779.5	848.0	907.9	927.9
72.5°	602.4	665.3	730.9	793.7	822.3
75°	488.2	539.6	622.4	691.0	708.1
77.5°	379.7	428.3	516.8	585.3	611.0
80°	265.5	325.5	419.7	488.2	519.6
82.5°	168.5	231.3	328.3	402.6	436.8
85°	85.7	154.2	254.1	328.3	359.8
87.5°	28.6	97.1	194.2	271.2	302.6
90°	5.7	65.7	157.0	225.6	254.1
92.5°	0.0	48.5	131.3	194.2	219.8
95°	0.0	42.8	114.2	171.3	197.0
97.5°	0.0	40.0	105.6	157.0	177.0
100°	0.0	37.1	97.1	145.6	165.6
102.5°	0.0	34.3	91.4	137.0	157.0
105°	0.0	31.4	85.7	131.3	148.5



TEST NUMBER: P709842

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

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	28.6	74.2	108.5	125.6
115°	0.0	25.7	68.5	105.6	119.9
117.5°	0.0	25.7	65.7	97.1	111.4
120°	0.0	22.8	60.0	91.4	105.6
122.5°	0.0	22.8	57.1	88.5	99.9
125°	0.0	22.8	54.2	79.9	94.2
127.5°	0.0	20.0	51.4	77.1	85.7
130°	0.0	20.0	48.5	71.4	79.9
132.5°	0.0	17.1	45.7	65.7	74.2
135°	0.0	17.1	42.8	60.0	71.4
137.5°	0.0	17.1	40.0	57.1	62.8
140°	0.0	14.3	37.1	51.4	60.0
142.5°	2.9	14.3	31.4	48.5	54.2
145°	2.9	14.3	31.4	42.8	48.5
147.5°	2.9	11.4	28.6	40.0	45.7
150°	2.9	11.4	25.7	34.3	40.0
152.5°	2.9	8.6	22.8	31.4	34.3
155°	2.9	8.6	20.0	28.6	31.4
157.5°	2.9	8.6	17.1	22.8	25.7
160°	2.9	5.7	14.3	20.0	22.8
162.5°	2.9	5.7	11.4	17.1	20.0
165°	2.9	5.7	8.6	14.3	14.3
167.5°	2.9	5.7	8.6	11.4	11.4
170°	2.9	2.9	5.7	8.6	8.6
172.5°	2.9	2.9	5.7	5.7	5.7
175°	2.9	2.9	2.9	2.9	5.7
177.5°	2.9	2.9	2.9	2.9	2.9
180°	2.9	2.9	2.9	2.9	2.9



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	0.0	31.4	82.8	122.8	139.9
110°	0.0	28.6	77.1	117.1	134.2



(END OF REPORT)