

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: P709843

Luminaire Tested: **4AWWS-L3C3-HO-UNV-4000K-HI**

Issue Date: 9/26/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P709843  
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-4000K-HI  
Description: 4foot, Wide Adapt Surface Wrap with, RD lens and HI lumen setting,  
4000K, 80CRI  
  
Light Source: -  
Ballast/Driver: -

**Summary**

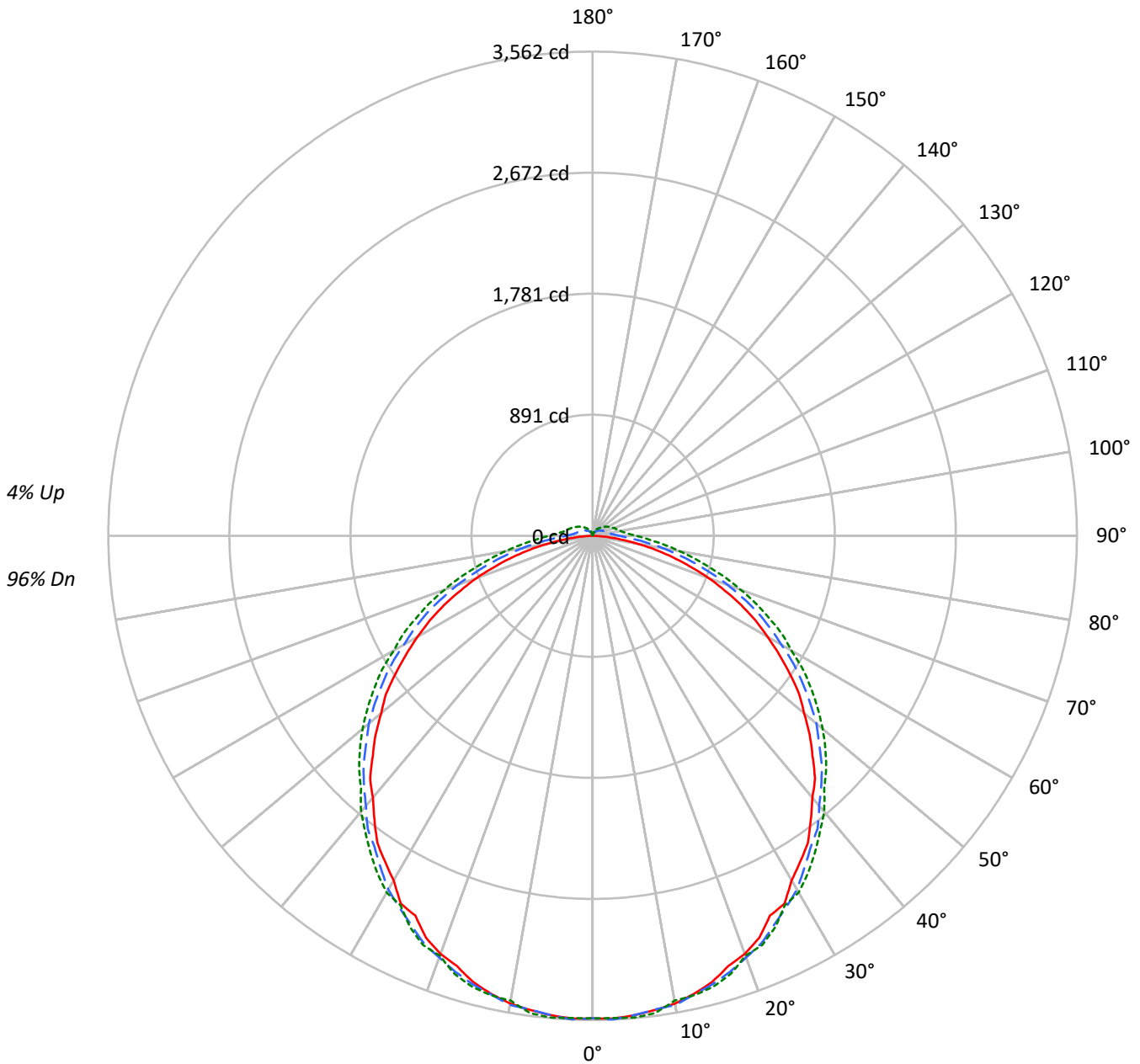
Lumens per Lamp: N/A  
Luminaire Lumens: 10952.0 lumens  
Efficiency: N/A  
Efficacy: 140.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 3.71' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 78  
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: P709843

CATALOG NUMBER: 4AWWS-L3C3-HO-UNV-4000K-HI

### Luminous Intensity Polar Plot





TEST NUMBER: P709843

CATALOG NUMBER: 4AWWS-L3C3-HO-UNV-4000K-HI

**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°	12412	12412	12412
5°	12372	12232	12265
10°	12302	12062	11896
15°	12147	11800	11778
20°	11976	11537	11380
25°	11647	11254	11184
30°	11512	11007	10940
35°	11412	10613	10633
40°	11049	10300	10318
45°	10808	10005	9966
50°	10468	9642	9652
55°	10125	9163	9253
60°	9619	8573	8711
65°	9066	8047	8228
70°	8244	7271	7570
75°	7024	6311	6761
80°	5292	5256	6036
85°	2811	4202	5386



TEST NUMBER: P709843

CATALOG NUMBER: 4AWWS-L3C3-HO-UNV-4000K-HI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	337.0	3.1
10°-20°	963.2	8.8
20°-30°	1453.4	13.3
30°-40°	1754.1	16.0
40°-50°	1827.9	16.7
50°-60°	1675.4	15.3
60°-70°	1313.9	12.0
70°-80°	812.2	7.4
80°-90°	344.4	3.1
90°-100°	150.8	1.4
100°-110°	107.1	1.0
110°-120°	80.3	0.7
120°-130°	57.3	0.5
130°-140°	37.8	0.3
140°-150°	22.4	0.2
150°-160°	10.7	0.1
160°-170°	3.5	0.0
170°-180°	0.5	0.0
0°-30°	2753.6	25.1
0°-40°	4507.7	41.2
0°-60°	8011.1	73.1
0°-90°	10481.6	95.7
90°-120°	338.2	3.1
90°-150°	455.7	4.2
90°-180°	470.0	4.3
0°-180°	10952.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3551	3551	3551	3551	3551	
5°	3540	3547	3540	3540	3558	336
15°	3398	3405	3416	3426	3433	957
25°	3084	3138	3159	3163	3177	1435
35°	2760	2771	2796	2842	2849	1716
45°	2286	2315	2383	2418	2429	1766
55°	1770	1816	1884	1923	1962	1581
65°	1204	1250	1343	1396	1432	1188
75°	609	673	776	862	883	647
85°	107	192	317	410	449	136
90°	7	82	196	281	317	7
95°	0	53	142	214	246	0
105°	0	39	107	164	185	0
115°	0	32	86	132	150	0
125°	0	28	68	100	118	0
135°	0	21	53	75	89	0
145°	4	18	39	53	60	2
155°	4	11	25	36	39	2
165°	4	7	11	18	18	1
175°	4	4	4	4	7	0
180°	4	4	4	4	4	



TEST NUMBER: P709843

CATALOG NUMBER: 4AWWS-L3C3-HO-UNV-4000K-HI

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3550.8	3550.8	3550.8	3550.8	3550.8
2.5°	3554.4	3568.6	3561.5	3554.4	3550.8
5°	3540.1	3547.2	3540.1	3540.1	3557.9
7.5°	3518.7	3529.4	3515.2	3536.5	3540.1
10°	3493.8	3508.1	3504.5	3511.6	3472.4
12.5°	3451.1	3468.9	3454.6	3472.4	3461.8
15°	3397.7	3404.8	3415.5	3426.1	3433.3
17.5°	3319.3	3351.4	3362.0	3372.7	3379.8
20°	3273.0	3290.8	3301.5	3297.9	3287.2
22.5°	3201.8	3212.5	3244.5	3237.4	3258.8
25°	3084.2	3137.7	3159.0	3162.6	3176.8
27.5°	3052.2	3055.7	3080.7	3102.0	3062.9
30°	2927.5	2970.3	3005.9	3016.6	3030.8
32.5°	2842.1	2877.7	2899.0	2938.2	2945.3
35°	2760.1	2770.8	2795.8	2842.1	2849.2
37.5°	2635.5	2667.5	2717.4	2742.3	2745.9
40°	2514.4	2553.6	2592.8	2621.2	2649.7
42.5°	2421.8	2443.2	2489.5	2525.1	2521.5
45°	2286.5	2315.0	2382.6	2418.2	2428.9
47.5°	2165.4	2208.1	2258.0	2311.4	2322.1
50°	2030.0	2076.3	2147.6	2186.7	2208.1
52.5°	1916.1	1944.6	2015.8	2055.0	2087.0
55°	1770.1	1816.4	1884.0	1923.2	1962.4
57.5°	1627.6	1684.6	1752.2	1816.4	1837.7
60°	1485.1	1542.1	1602.7	1673.9	1688.1
62.5°	1349.8	1410.3	1474.5	1545.7	1574.2
65°	1203.8	1250.1	1342.7	1396.1	1431.7
67.5°	1050.6	1107.6	1196.7	1257.2	1299.9
70°	908.2	972.3	1057.8	1132.6	1157.5
72.5°	751.5	829.8	911.7	990.1	1025.7
75°	609.0	673.1	776.4	861.9	883.2
77.5°	473.7	534.2	644.6	730.1	762.2
80°	331.2	406.0	523.5	609.0	648.2
82.5°	210.1	288.5	409.6	502.2	544.9
85°	106.8	192.3	317.0	409.6	448.7
87.5°	35.6	121.1	242.2	338.3	377.5
90°	7.1	81.9	195.9	281.4	317.0
92.5°	0.0	60.5	163.8	242.2	274.2
95°	0.0	53.4	142.5	213.7	245.7
97.5°	0.0	49.9	131.8	195.9	220.8
100°	0.0	46.3	121.1	181.6	206.6
102.5°	0.0	42.7	114.0	171.0	195.9
105°	0.0	39.2	106.8	163.8	185.2



TEST NUMBER: P709843

CATALOG NUMBER: 4AWWS-L3C3-HO-UNV-4000K-HI

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	35.6	92.6	135.3	156.7
115°	0.0	32.1	85.5	131.8	149.6
117.5°	0.0	32.1	81.9	121.1	138.9
120°	0.0	28.5	74.8	114.0	131.8
122.5°	0.0	28.5	71.2	110.4	124.7
125°	0.0	28.5	67.7	99.7	117.5
127.5°	0.0	24.9	64.1	96.2	106.8
130°	0.0	24.9	60.5	89.0	99.7
132.5°	0.0	21.4	57.0	81.9	92.6
135°	0.0	21.4	53.4	74.8	89.0
137.5°	0.0	21.4	49.9	71.2	78.4
140°	0.0	17.8	46.3	64.1	74.8
142.5°	3.6	17.8	39.2	60.5	67.7
145°	3.6	17.8	39.2	53.4	60.5
147.5°	3.6	14.2	35.6	49.9	57.0
150°	3.6	14.2	32.1	42.7	49.9
152.5°	3.6	10.7	28.5	39.2	42.7
155°	3.6	10.7	24.9	35.6	39.2
157.5°	3.6	10.7	21.4	28.5	32.1
160°	3.6	7.1	17.8	24.9	28.5
162.5°	3.6	7.1	14.2	21.4	24.9
165°	3.6	7.1	10.7	17.8	17.8
167.5°	3.6	7.1	10.7	14.2	14.2
170°	3.6	3.6	7.1	10.7	10.7
172.5°	3.6	3.6	7.1	7.1	7.1
175°	3.6	3.6	3.6	3.6	7.1
177.5°	3.6	3.6	3.6	3.6	3.6
180°	3.6	3.6	3.6	3.6	3.6



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	0.0	39.2	103.3	153.1	174.5
110°	0.0	35.6	96.2	146.0	167.4



(END OF REPORT)