

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: P709870

Luminaire Tested: **4AWWS-L3C39-UNV-4000K-HI**

Issue Date: 9/26/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P709870  
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-4000K-HI  
Description: 4foot, Wide Adapt Surface Wrap with, RD lens and HI lumen setting,  
4000K, 90CRI  
  
Light Source: -  
Ballast/Driver: -

**Summary**

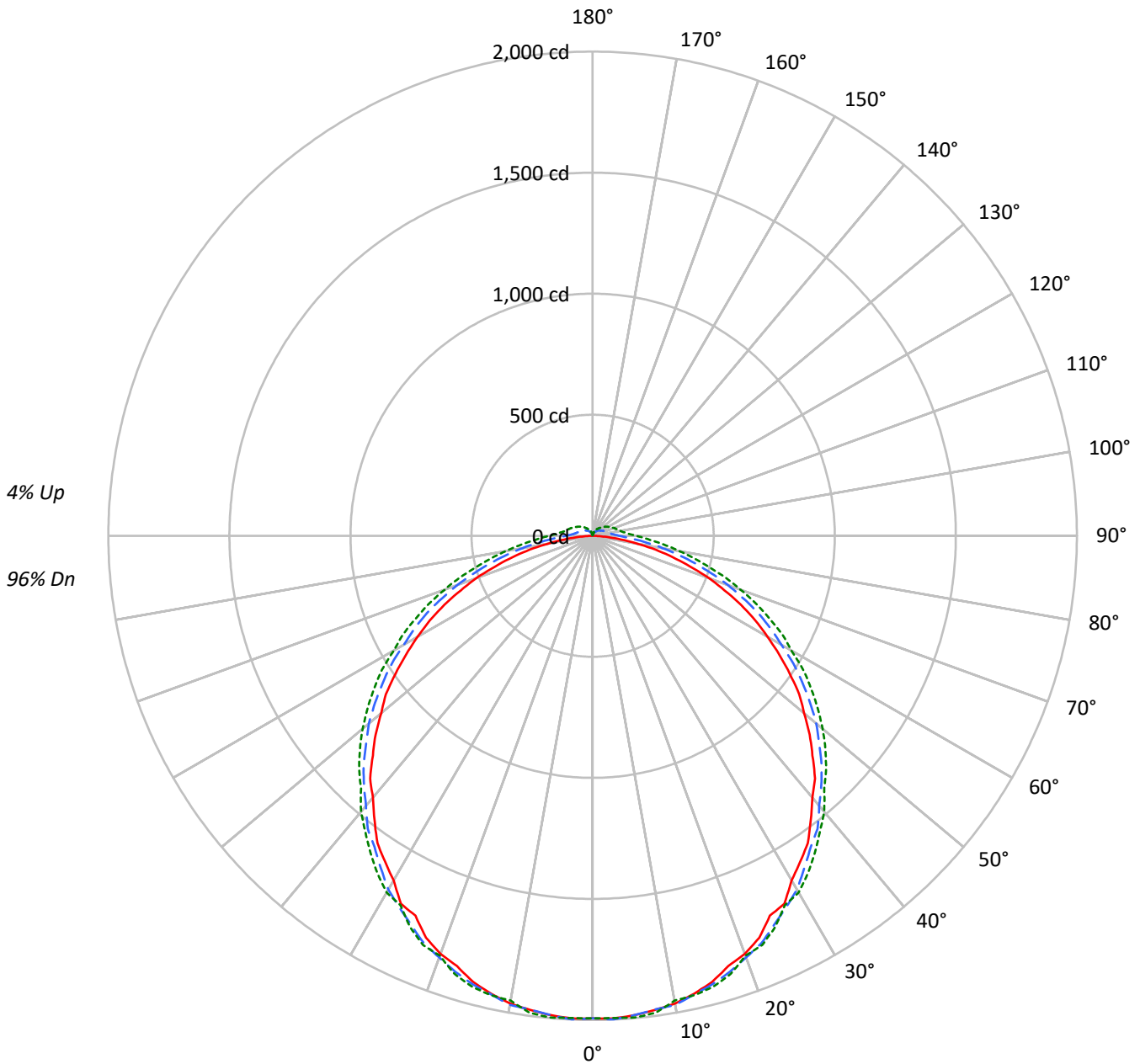
Lumens per Lamp: N/A  
Luminaire Lumens: 6149.1 lumens  
Efficiency: N/A  
Efficacy: 128.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 3.71' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 48  
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	
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	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°	6969	6969	6969
5°	6946	6868	6886
10°	6907	6772	6679
15°	6820	6625	6613
20°	6724	6477	6389
25°	6539	6318	6279
30°	6464	6180	6142
35°	6407	5959	5970
40°	6203	5783	5793
45°	6068	5617	5595
50°	5877	5414	5419
55°	5685	5144	5195
60°	5401	4813	4891
65°	5090	4518	4619
70°	4629	4082	4250
75°	3943	3543	3796
80°	2972	2951	3389
85°	1579	2359	3024



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.2	3.1
10°-20°	540.8	8.8
20°-30°	816.0	13.3
30°-40°	984.8	16.0
40°-50°	1026.3	16.7
50°-60°	940.7	15.3
60°-70°	737.7	12.0
70°-80°	456.0	7.4
80°-90°	193.4	3.1
90°-100°	84.7	1.4
100°-110°	60.1	1.0
110°-120°	45.1	0.7
120°-130°	32.2	0.5
130°-140°	21.2	0.3
140°-150°	12.6	0.2
150°-160°	6.0	0.1
160°-170°	2.0	0.0
170°-180°	0.3	0.0
0°-30°	1546.0	25.1
0°-40°	2530.8	41.2
0°-60°	4497.8	73.1
0°-90°	5884.9	95.7
90°-120°	189.9	3.1
90°-150°	255.9	4.2
90°-180°	264.0	4.3
0°-180°	6149.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1994	1994	1994	1994	1994	
5°	1988	1992	1988	1988	1998	189
15°	1908	1912	1918	1924	1928	537
25°	1732	1762	1774	1776	1784	806
35°	1550	1556	1570	1596	1600	963
45°	1284	1300	1338	1358	1364	991
55°	994	1020	1058	1080	1102	888
65°	676	702	754	784	804	667
75°	342	378	436	484	496	363
85°	60	108	178	230	252	76
90°	4	46	110	158	178	4
95°	0	30	80	120	138	0
105°	0	22	60	92	104	0
115°	0	18	48	74	84	0
125°	0	16	38	56	66	0
135°	0	12	30	42	50	0
145°	2	10	22	30	34	1
155°	2	6	14	20	22	1
165°	2	4	6	10	10	1
175°	2	2	2	2	4	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1993.6	1993.6	1993.6	1993.6	1993.6
2.5°	1995.6	2003.6	1999.6	1995.6	1993.6
5°	1987.6	1991.6	1987.6	1987.6	1997.6
7.5°	1975.6	1981.6	1973.6	1985.6	1987.6
10°	1961.6	1969.6	1967.6	1971.6	1949.6
12.5°	1937.6	1947.6	1939.6	1949.6	1943.6
15°	1907.6	1911.6	1917.6	1923.6	1927.6
17.5°	1863.6	1881.6	1887.6	1893.6	1897.6
20°	1837.6	1847.6	1853.6	1851.6	1845.6
22.5°	1797.6	1803.6	1821.6	1817.6	1829.6
25°	1731.6	1761.6	1773.6	1775.6	1783.6
27.5°	1713.7	1715.6	1729.6	1741.6	1719.6
30°	1643.7	1667.7	1687.7	1693.7	1701.7
32.5°	1595.7	1615.7	1627.7	1649.7	1653.7
35°	1549.7	1555.7	1569.7	1595.7	1599.7
37.5°	1479.7	1497.7	1525.7	1539.7	1541.7
40°	1411.7	1433.7	1455.7	1471.7	1487.7
42.5°	1359.7	1371.7	1397.7	1417.7	1415.7
45°	1283.7	1299.7	1337.7	1357.7	1363.7
47.5°	1215.8	1239.7	1267.7	1297.7	1303.7
50°	1139.8	1165.8	1205.8	1227.7	1239.7
52.5°	1075.8	1091.8	1131.8	1153.8	1171.8
55°	993.8	1019.8	1057.8	1079.8	1101.8
57.5°	913.8	945.8	983.8	1019.8	1031.8
60°	833.8	865.8	899.8	939.8	947.8
62.5°	757.8	791.8	827.8	867.8	883.8
65°	675.9	701.9	753.8	783.8	803.8
67.5°	589.9	621.9	671.9	705.9	729.9
70°	509.9	545.9	593.9	635.9	649.9
72.5°	421.9	465.9	511.9	555.9	575.9
75°	341.9	377.9	435.9	483.9	495.9
77.5°	265.9	299.9	361.9	409.9	427.9
80°	186.0	228.0	293.9	341.9	363.9
82.5°	118.0	162.0	230.0	281.9	305.9
85°	60.0	108.0	178.0	230.0	251.9
87.5°	20.0	68.0	136.0	190.0	212.0
90°	4.0	46.0	110.0	158.0	178.0
92.5°	0.0	34.0	92.0	136.0	154.0
95°	0.0	30.0	80.0	120.0	138.0
97.5°	0.0	28.0	74.0	110.0	124.0
100°	0.0	26.0	68.0	102.0	116.0
102.5°	0.0	24.0	64.0	96.0	110.0
105°	0.0	22.0	60.0	92.0	104.0



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CATALOG NUMBER: 4AWWS-L3C39-UNV-4000K-HI

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	20.0	52.0	76.0	88.0
115°	0.0	18.0	48.0	74.0	84.0
117.5°	0.0	18.0	46.0	68.0	78.0
120°	0.0	16.0	42.0	64.0	74.0
122.5°	0.0	16.0	40.0	62.0	70.0
125°	0.0	16.0	38.0	56.0	66.0
127.5°	0.0	14.0	36.0	54.0	60.0
130°	0.0	14.0	34.0	50.0	56.0
132.5°	0.0	12.0	32.0	46.0	52.0
135°	0.0	12.0	30.0	42.0	50.0
137.5°	0.0	12.0	28.0	40.0	44.0
140°	0.0	10.0	26.0	36.0	42.0
142.5°	2.0	10.0	22.0	34.0	38.0
145°	2.0	10.0	22.0	30.0	34.0
147.5°	2.0	8.0	20.0	28.0	32.0
150°	2.0	8.0	18.0	24.0	28.0
152.5°	2.0	6.0	16.0	22.0	24.0
155°	2.0	6.0	14.0	20.0	22.0
157.5°	2.0	6.0	12.0	16.0	18.0
160°	2.0	4.0	10.0	14.0	16.0
162.5°	2.0	4.0	8.0	12.0	14.0
165°	2.0	4.0	6.0	10.0	10.0
167.5°	2.0	4.0	6.0	8.0	8.0
170°	2.0	2.0	4.0	6.0	6.0
172.5°	2.0	2.0	4.0	4.0	4.0
175°	2.0	2.0	2.0	2.0	4.0
177.5°	2.0	2.0	2.0	2.0	2.0
180°	2.0	2.0	2.0	2.0	2.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	0.0	22.0	58.0	86.0	98.0
110°	0.0	20.0	54.0	82.0	94.0



(END OF REPORT)