

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: P709813

Luminaire Tested: **8AWS-L3C39-UNV-3500K-HI**

Issue Date: 9/26/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P709813  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-090-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/26/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8AWS-L3C39-UNV-3500K-HI  
Description: 8foot, Adapt Surface Wrap with, RD lens and HI lumen setting,  
3500K, 90CRI  
  
Light Source: -  
Ballast/Driver: -

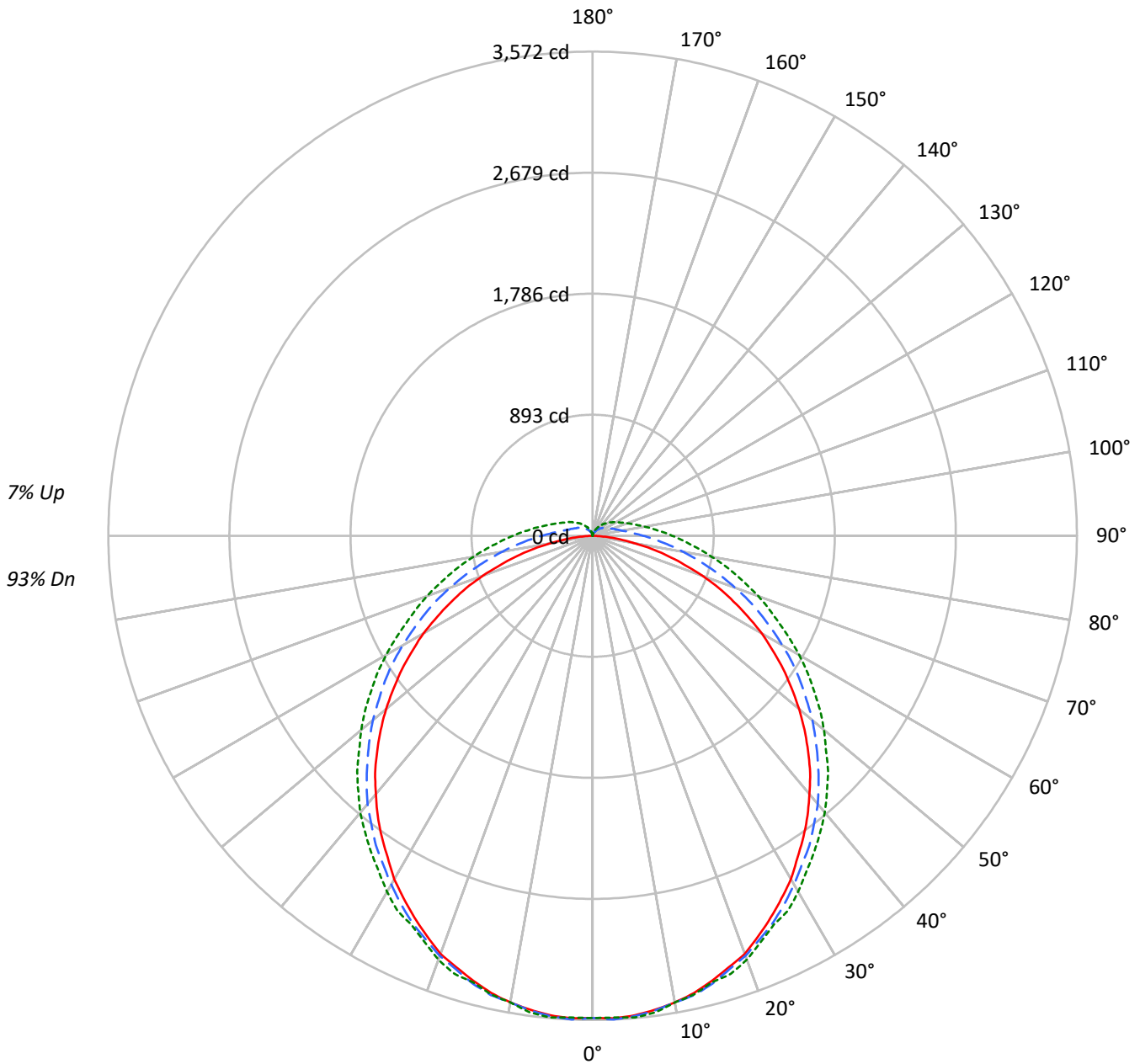
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11522.1 lumens  
Efficiency: N/A  
Efficacy: 137.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 0.46' x L: 7.42' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 84  
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									
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	96	96	96	93																			
1	106	101	96	92	102	98	93	89	92	89	85	87	84	81	82	80	78	75																			
2	96	87	80	74	93	85	78	72	80	74	70	76	71	67	71	68	64	62																			
3	87	76	68	61	84	74	66	60	70	63	58	66	61	56	63	58	54	52																			
4	80	67	58	51	77	65	57	51	62	55	49	59	53	48	56	51	46	44																			
5	73	60	51	44	71	58	50	43	56	48	42	53	46	41	50	45	40	38																			
6	68	54	45	38	65	53	44	38	50	43	37	48	41	36	46	40	35	33																			
7	63	49	40	34	60	48	39	33	46	38	33	43	37	32	42	36	31	29																			
8	58	45	36	30	56	44	35	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	29	25	23																			
10	51	38	30	24	49	37	29	24	35	29	24	34	28	23	33	27	23	21																			

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

	0°	45°	90°
0°	11218	11218	11218
5°	11229	11071	11041
10°	11164	10822	10703
15°	11050	10608	10404
20°	10950	10329	10200
25°	10736	10042	9818
30°	10554	9720	9597
35°	10321	9438	9274
40°	10101	9135	9002
45°	9864	8762	8689
50°	9567	8413	8335
55°	9229	8035	7982
60°	8848	7608	7638
65°	8270	7177	7243
70°	7604	6690	6980
75°	6618	6206	6702
80°	5172	5831	6532
85°	3268	5636	6577



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	337.5	2.9
10°-20°	962.9	8.4
20°-30°	1448.9	12.6
30°-40°	1740.0	15.1
40°-50°	1811.9	15.7
50°-60°	1664.8	14.4
60°-70°	1337.0	11.6
70°-80°	911.6	7.9
80°-90°	518.1	4.5
90°-100°	290.2	2.5
100°-110°	183.6	1.6
110°-120°	125.4	1.1
120°-130°	86.1	0.7
130°-140°	54.8	0.5
140°-150°	30.5	0.3
150°-160°	13.9	0.1
160°-170°	4.4	0.0
170°-180°	0.6	0.0
0°-30°	2749.4	23.9
0°-40°	4489.4	39.0
0°-60°	7966.0	69.1
0°-90°	10732.7	93.1
90°-120°	599.2	5.2
90°-150°	770.5	6.7
90°-180°	789.0	6.8
0°-180°	11522.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3557	3557	3557	3557	3557	
5°	3552	3557	3557	3562	3567	337
15°	3399	3394	3420	3430	3409	959
25°	3109	3109	3150	3180	3165	1433
35°	2711	2726	2788	2828	2849	1696
45°	2248	2273	2349	2421	2456	1733
55°	1717	1768	1870	1957	1993	1533
65°	1147	1233	1366	1468	1514	1137
75°	576	698	882	1029	1086	610
85°	107	275	504	668	724	132
90°	5	163	372	525	586	6
95°	0	102	280	423	474	0
105°	0	66	178	280	321	0
115°	0	51	132	204	229	0
125°	5	36	102	153	173	3
135°	5	31	76	112	127	4
145°	5	20	51	76	82	3
155°	5	15	31	46	51	2
165°	5	10	15	20	26	1
175°	5	5	5	5	5	0
180°	5	5	5	5	5	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3557.2	3557.2	3557.2	3557.2	3557.2
2.5°	3562.3	3557.2	3572.5	3567.4	3557.2
5°	3552.1	3557.2	3557.2	3562.3	3567.4
7.5°	3526.6	3516.4	3531.7	3547.0	3547.0
10°	3496.1	3485.9	3496.1	3506.2	3496.1
12.5°	3455.3	3434.9	3470.6	3470.6	3465.5
15°	3399.2	3394.1	3419.6	3429.8	3409.4
17.5°	3338.1	3353.4	3353.4	3373.7	3389.0
20°	3282.0	3271.8	3297.3	3312.6	3327.9
22.5°	3195.4	3190.3	3220.9	3246.3	3241.2
25°	3108.7	3108.7	3149.5	3180.1	3164.8
27.5°	3017.0	3017.0	3062.9	3093.4	3118.9
30°	2925.3	2935.5	2971.1	3011.9	3032.3
32.5°	2813.1	2838.6	2874.3	2930.4	2935.5
35°	2711.2	2726.5	2787.7	2828.4	2848.8
37.5°	2604.2	2609.3	2680.6	2736.7	2757.1
40°	2487.0	2497.2	2583.8	2634.8	2665.4
42.5°	2374.9	2385.1	2466.6	2532.9	2558.3
45°	2247.5	2272.9	2349.4	2420.7	2456.4
47.5°	2120.1	2155.7	2232.2	2313.7	2334.1
50°	1987.6	2023.2	2115.0	2181.2	2227.1
52.5°	1850.0	1895.8	1987.6	2074.2	2115.0
55°	1717.4	1768.4	1870.3	1957.0	1992.6
57.5°	1574.8	1635.9	1748.0	1839.8	1880.5
60°	1442.2	1493.2	1615.5	1712.4	1758.2
62.5°	1289.4	1355.6	1488.1	1595.1	1635.9
65°	1146.7	1233.3	1365.8	1467.7	1513.6
67.5°	1009.1	1095.7	1243.5	1350.5	1406.6
70°	861.3	958.1	1116.1	1238.4	1299.6
72.5°	708.4	820.5	998.9	1136.5	1187.4
75°	575.9	698.2	881.7	1029.4	1085.5
77.5°	443.4	570.8	774.6	927.5	988.7
80°	310.9	453.6	677.8	835.8	891.8
82.5°	203.9	361.8	586.1	744.1	805.2
85°	107.0	275.2	504.5	667.6	723.7
87.5°	35.7	208.9	433.2	596.3	652.3
90°	5.1	163.1	372.0	524.9	586.1
92.5°	0.0	127.4	321.1	474.0	530.0
95°	0.0	101.9	280.3	423.0	474.0
97.5°	0.0	86.6	249.7	377.1	433.2
100°	0.0	76.4	219.1	341.5	387.3
102.5°	0.0	71.3	198.8	305.8	351.6
105°	0.0	66.3	178.4	280.3	321.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	51.0	142.7	219.1	249.7
115°	0.0	51.0	132.5	203.9	229.3
117.5°	0.0	45.9	127.4	188.6	214.0
120°	0.0	40.8	117.2	178.4	203.9
122.5°	0.0	40.8	107.0	168.2	188.6
125°	5.1	35.7	101.9	152.9	173.3
127.5°	5.1	35.7	96.8	142.7	163.1
130°	5.1	30.6	86.6	132.5	147.8
132.5°	5.1	30.6	81.5	122.3	137.6
135°	5.1	30.6	76.4	112.1	127.4
137.5°	5.1	25.5	66.3	101.9	117.2
140°	5.1	25.5	61.2	91.7	107.0
142.5°	5.1	25.5	56.1	81.5	96.8
145°	5.1	20.4	51.0	76.4	81.5
147.5°	5.1	20.4	45.9	66.3	76.4
150°	5.1	15.3	40.8	56.1	66.3
152.5°	5.1	15.3	35.7	51.0	56.1
155°	5.1	15.3	30.6	45.9	51.0
157.5°	5.1	15.3	25.5	40.8	40.8
160°	5.1	10.2	20.4	30.6	35.7
162.5°	5.1	10.2	20.4	25.5	30.6
165°	5.1	10.2	15.3	20.4	25.5
167.5°	5.1	5.1	10.2	15.3	20.4
170°	5.1	5.1	10.2	10.2	15.3
172.5°	5.1	5.1	5.1	5.1	10.2
175°	5.1	5.1	5.1	5.1	5.1
177.5°	5.1	5.1	5.1	0.0	0.0
180°	5.1	5.1	5.1	5.1	5.1



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	0.0	61.2	168.2	254.8	295.6
110°	0.0	56.1	152.9	234.4	270.1



(END OF REPORT)