

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: P709806

Luminaire Tested: **8AWS-L3C39-SQR-UNV-3500K-MID**

Issue Date: 9/26/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P709806  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-090-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/26/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8AWS-L3C39-SQR-UNV-3500K-MID  
Description: 8foot, Adapt Surface Wrap with, SQR lens and MID lumen setting,  
3500K, 90CRI  
  
Light Source: -  
Ballast/Driver: -

**Summary**

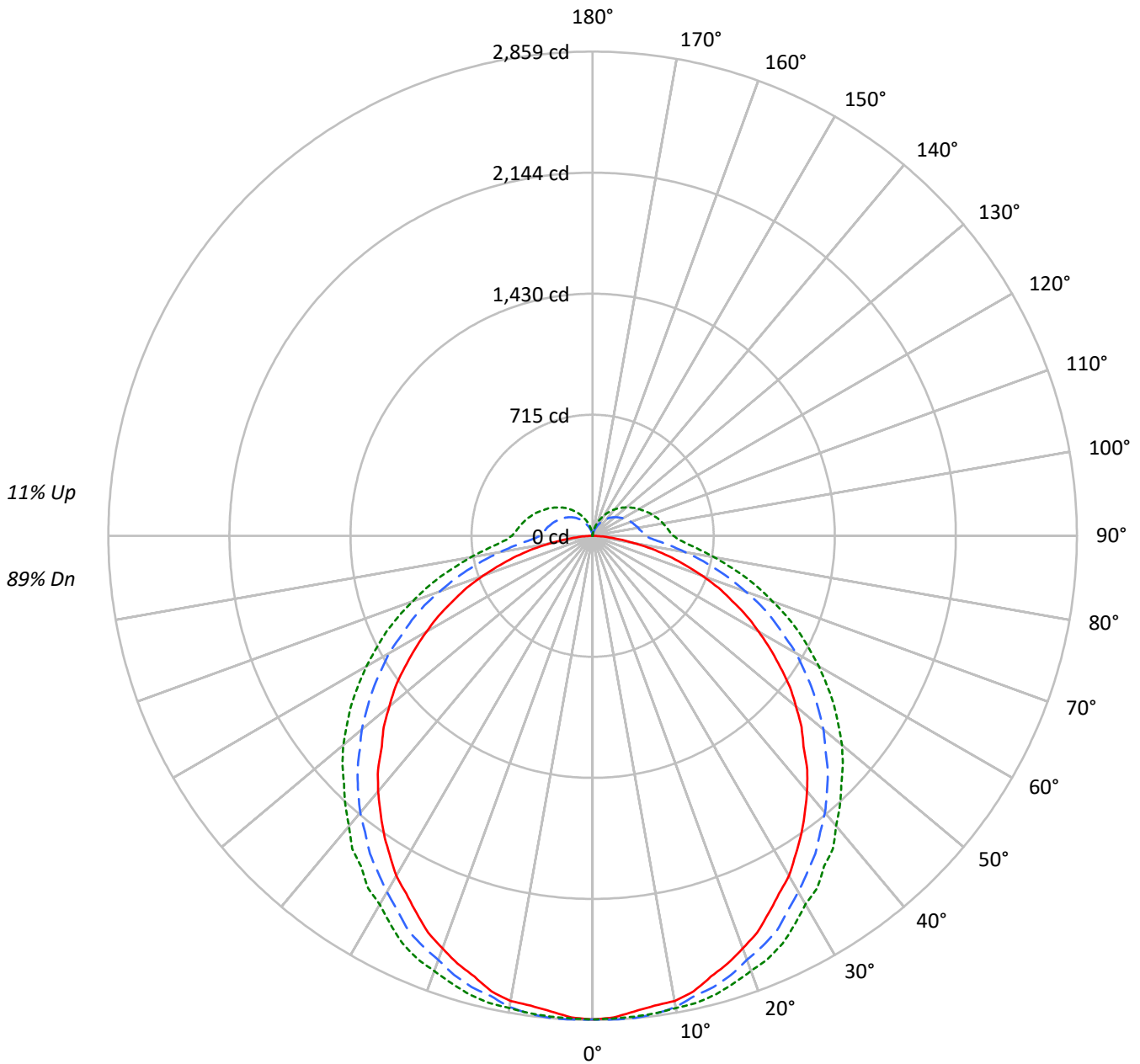
Lumens per Lamp: N/A  
Luminaire Lumens: 9967.0 lumens  
Efficiency: N/A  
Efficacy: 134.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 0.46' x L: 7.42' x H: 0.12')  
CIE Type: Semi-Direct

Input Watts (W): 74  
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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89								
1	105	100	95	91	101	96	92	88	90	87	83	84	82	79	79	77	75	72								
2	95	86	79	73	91	83	77	71	78	73	68	73	69	65	69	65	62	59								
3	86	75	67	60	83	73	65	59	68	62	56	64	59	54	60	56	52	49								
4	79	67	57	51	76	64	56	50	61	53	48	57	51	46	54	48	44	42								
5	72	59	50	43	69	57	49	43	54	47	41	51	45	40	48	43	38	36								
6	67	53	44	38	64	52	43	37	49	41	36	46	40	35	43	38	34	31								
7	62	48	39	33	59	47	38	33	44	37	32	42	35	31	40	34	30	27								
8	57	44	35	29	55	43	35	29	40	33	28	38	32	27	36	31	27	24								
9	54	40	32	26	52	39	31	26	37	30	25	35	29	25	34	28	24	22								
10	50	37	29	24	48	36	29	23	34	28	23	33	27	22	31	26	22	20								

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

	0°	45°	90°
0°	9007	9007	9007
5°	8913	8898	8821
10°	8906	8746	8669
15°	8761	8558	8558
20°	8648	8348	8382
25°	8490	8206	8239
30°	8366	7943	7953
35°	8180	7757	7756
40°	8000	7544	7555
45°	7726	7323	7343
50°	7538	7074	7190
55°	7274	6806	6966
60°	6946	6532	6698
65°	6545	6188	6434
70°	6055	5749	6064
75°	5336	5277	5734
80°	4140	4752	5335
85°	2501	4408	5130



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.0	2.7
10°-20°	777.0	7.8
20°-30°	1178.4	11.8
30°-40°	1426.3	14.3
40°-50°	1501.5	15.1
50°-60°	1398.6	14.0
60°-70°	1140.8	11.4
70°-80°	769.2	7.7
80°-90°	413.4	4.1
90°-100°	286.5	2.9
100°-110°	245.2	2.5
110°-120°	200.1	2.0
120°-130°	152.1	1.5
130°-140°	105.3	1.1
140°-150°	62.8	0.6
150°-160°	29.2	0.3
160°-170°	8.6	0.1
170°-180°	0.9	0.0
0°-30°	2226.4	22.3
0°-40°	3652.6	36.6
0°-60°	6552.8	65.7
0°-90°	8876.2	89.1
90°-120°	731.9	7.3
90°-150°	1052.1	10.6
90°-180°	1091.0	10.9
0°-180°	9967.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2856	2856	2856	2856	2856	
5°	2820	2850	2859	2859	2850	268
15°	2695	2726	2759	2783	2804	762
25°	2458	2507	2574	2598	2656	1134
35°	2149	2200	2291	2358	2382	1343
45°	1760	1845	1964	2049	2076	1366
55°	1354	1451	1584	1684	1739	1210
65°	908	1020	1178	1293	1344	902
75°	464	586	750	871	929	490
85°	82	225	395	519	564	103
90°	3	143	310	431	476	5
95°	0	130	291	404	446	0
105°	0	115	255	358	398	0
115°	3	100	222	310	343	3
125°	3	82	188	261	288	3
135°	3	64	152	209	234	2
145°	6	42	109	155	173	3
155°	6	24	64	100	109	3
165°	6	12	27	42	52	2
175°	6	6	6	6	6	1
180°	3	3	3	3	3	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2856.0	2856.0	2856.0	2856.0	2856.0
2.5°	2846.9	2849.9	2859.0	2868.1	2852.9
5°	2819.5	2849.9	2859.0	2859.0	2849.9
7.5°	2798.3	2825.6	2846.9	2840.8	2843.8
10°	2789.2	2804.4	2825.6	2840.8	2831.7
12.5°	2755.8	2764.9	2783.1	2807.4	2825.6
15°	2695.1	2725.5	2758.8	2783.1	2804.4
17.5°	2649.6	2676.9	2719.4	2740.6	2771.0
20°	2591.9	2622.3	2664.8	2710.3	2734.6
22.5°	2537.3	2564.6	2622.3	2652.6	2704.2
25°	2458.4	2506.9	2573.7	2598.0	2655.7
27.5°	2382.5	2437.1	2494.8	2561.6	2585.8
30°	2318.8	2358.2	2428.0	2485.7	2513.0
32.5°	2230.7	2285.4	2358.2	2428.0	2467.5
35°	2148.8	2200.4	2291.4	2358.2	2382.5
37.5°	2057.8	2115.4	2206.5	2285.4	2330.9
40°	1969.7	2033.5	2133.6	2209.5	2236.8
42.5°	1875.6	1942.4	2048.6	2136.7	2160.9
45°	1760.3	1845.3	1963.7	2048.6	2076.0
47.5°	1672.3	1751.2	1863.5	1963.7	2003.1
50°	1566.1	1654.1	1778.5	1869.6	1921.2
52.5°	1469.0	1550.9	1678.4	1766.4	1827.1
55°	1353.6	1450.7	1584.3	1684.4	1739.1
57.5°	1241.3	1341.5	1481.1	1584.3	1638.9
60°	1132.1	1235.3	1387.0	1490.2	1541.8
62.5°	1025.8	1135.1	1271.7	1396.1	1438.6
65°	907.5	1019.8	1177.6	1292.9	1344.5
67.5°	804.3	904.4	1074.4	1180.6	1238.3
70°	685.9	804.3	959.1	1080.5	1129.0
72.5°	570.6	695.0	855.9	980.3	1028.9
75°	464.4	585.8	749.7	871.1	928.7
77.5°	358.1	482.6	649.5	773.9	822.5
80°	248.9	385.4	552.4	676.8	728.4
82.5°	157.8	297.4	470.4	588.8	637.4
85°	81.9	224.6	394.6	519.0	564.5
87.5°	27.3	170.0	339.9	461.3	506.8
90°	3.0	142.6	309.6	431.0	476.5
92.5°	0.0	136.6	300.5	415.8	458.3
95°	0.0	130.5	291.4	403.7	446.1
97.5°	0.0	127.5	279.2	391.5	434.0
100°	0.0	121.4	273.2	382.4	421.9
102.5°	0.0	118.4	264.0	370.3	409.7
105°	0.0	115.3	254.9	358.1	397.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.0	103.2	230.7	324.7	358.1
115°	3.0	100.2	221.6	309.6	343.0
117.5°	3.0	94.1	215.5	297.4	327.8
120°	3.0	91.1	206.4	288.3	315.6
122.5°	3.0	88.0	197.3	273.2	303.5
125°	3.0	81.9	188.2	261.0	288.3
127.5°	3.0	75.9	179.1	248.9	273.2
130°	3.0	72.8	170.0	233.7	261.0
132.5°	3.0	66.8	160.9	224.6	245.8
135°	3.0	63.7	151.8	209.4	233.7
137.5°	3.0	57.7	142.6	197.3	218.5
140°	3.0	51.6	130.5	185.1	203.3
142.5°	3.0	48.6	121.4	170.0	188.2
145°	6.1	42.5	109.3	154.8	173.0
147.5°	6.1	39.5	97.1	142.6	157.8
150°	6.1	33.4	85.0	127.5	142.6
152.5°	6.1	30.4	75.9	112.3	127.5
155°	6.1	24.3	63.7	100.2	109.3
157.5°	6.1	21.2	54.6	85.0	97.1
160°	6.1	18.2	45.5	72.8	81.9
162.5°	6.1	15.2	36.4	57.7	66.8
165°	6.1	12.1	27.3	42.5	51.6
167.5°	6.1	9.1	21.2	30.4	39.5
170°	6.1	9.1	15.2	21.2	30.4
172.5°	6.1	6.1	9.1	12.1	18.2
175°	6.1	6.1	6.1	6.1	6.1
177.5°	6.1	6.1	3.0	3.0	0.0
180°	3.0	3.0	3.0	3.0	3.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	0.0	109.3	248.9	346.0	382.4
110°	3.0	106.2	239.8	333.9	370.3



(END OF REPORT)