

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: P709804

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

Issue Date: 9/26/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709804  
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-HI  
Description: 8foot, Adapt Surface Wrap with, SQR lens and HI lumen setting,  
3500K, 90CRI  
  
Light Source: -  
Ballast/Driver: -

**Summary**

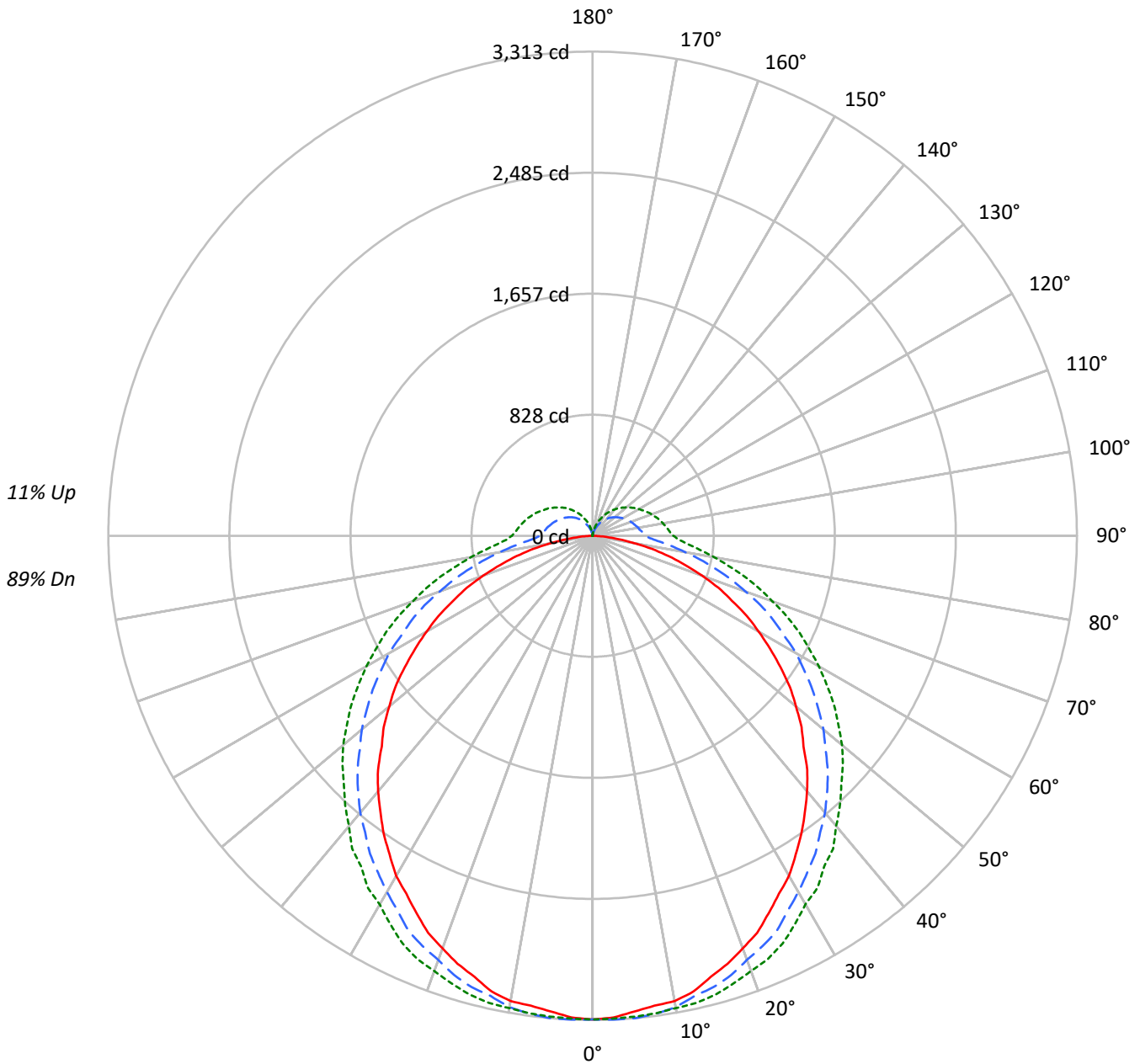
Lumens per Lamp: N/A  
Luminaire Lumens: 11551.0 lumens  
Efficiency: N/A  
Efficacy: 137.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 0.46' x L: 7.42' x H: 0.12')  
CIE Type: Semi-Direct

Input Watts (W): 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					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	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°	10438	10438	10438
5°	10329	10312	10222
10°	10322	10136	10047
15°	10153	9918	9918
20°	10022	9675	9714
25°	9840	9510	9548
30°	9695	9206	9217
35°	9480	8990	8988
40°	9272	8742	8755
45°	8954	8487	8510
50°	8736	8199	8333
55°	8430	7888	8074
60°	8050	7570	7762
65°	7585	7171	7456
70°	7018	6663	7028
75°	6184	6115	6645
80°	4798	5508	6183
85°	2901	5108	5945



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	314.0	2.7
10°-20°	900.5	7.8
20°-30°	1365.7	11.8
30°-40°	1652.9	14.3
40°-50°	1740.2	15.1
50°-60°	1620.9	14.0
60°-70°	1322.1	11.4
70°-80°	891.4	7.7
80°-90°	479.1	4.1
90°-100°	332.1	2.9
100°-110°	284.2	2.5
110°-120°	231.9	2.0
120°-130°	176.3	1.5
130°-140°	122.0	1.1
140°-150°	72.8	0.6
150°-160°	33.9	0.3
160°-170°	10.0	0.1
170°-180°	1.0	0.0
0°-30°	2580.2	22.3
0°-40°	4233.1	36.6
0°-60°	7594.2	65.7
0°-90°	10286.9	89.1
90°-120°	848.2	7.3
90°-150°	1219.2	10.6
90°-180°	1264.0	10.9
0°-180°	11551.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3310	3310	3310	3310	3310	
5°	3268	3303	3313	3313	3303	311
15°	3123	3159	3197	3225	3250	883
25°	2849	2905	2983	3011	3078	1314
35°	2490	2550	2656	2733	2761	1557
45°	2040	2139	2276	2374	2406	1583
55°	1569	1681	1836	1952	2016	1403
65°	1052	1182	1365	1498	1558	1045
75°	538	679	869	1010	1076	568
85°	95	260	457	602	654	119
90°	4	165	359	500	552	5
95°	0	151	338	468	517	0
105°	0	134	296	415	461	0
115°	4	116	257	359	398	3
125°	4	95	218	302	334	3
135°	4	74	176	243	271	3
145°	7	49	127	179	200	4
155°	7	28	74	116	127	3
165°	7	14	32	49	60	2
175°	7	7	7	7	7	1
180°	4	4	4	4	4	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3309.8	3309.8	3309.8	3309.8	3309.8
2.5°	3299.3	3302.8	3313.4	3323.9	3306.3
5°	3267.6	3302.8	3313.4	3313.4	3302.8
7.5°	3243.0	3274.7	3299.3	3292.3	3295.8
10°	3232.5	3250.0	3274.7	3292.3	3281.7
12.5°	3193.8	3204.3	3225.4	3253.6	3274.7
15°	3123.4	3158.6	3197.3	3225.4	3250.0
17.5°	3070.7	3102.3	3151.6	3176.2	3211.4
20°	3003.8	3039.0	3088.3	3141.0	3169.2
22.5°	2940.5	2972.2	3039.0	3074.2	3134.0
25°	2849.1	2905.3	2982.7	3010.9	3077.7
27.5°	2761.1	2824.4	2891.3	2968.7	2996.8
30°	2687.3	2733.0	2813.9	2880.7	2912.4
32.5°	2585.3	2648.6	2733.0	2813.9	2859.6
35°	2490.3	2550.1	2655.6	2733.0	2761.1
37.5°	2384.8	2451.6	2557.1	2648.6	2701.3
40°	2282.8	2356.6	2472.7	2560.6	2592.3
42.5°	2173.7	2251.1	2374.2	2476.2	2504.4
45°	2040.1	2138.6	2275.7	2374.2	2405.9
47.5°	1938.1	2029.5	2159.7	2275.7	2321.5
50°	1815.0	1917.0	2061.2	2166.7	2226.5
52.5°	1702.4	1797.4	1945.1	2047.1	2117.5
55°	1568.7	1681.3	1836.1	1952.1	2015.5
57.5°	1438.6	1554.7	1716.5	1836.1	1899.4
60°	1312.0	1431.6	1607.4	1727.0	1786.8
62.5°	1188.9	1315.5	1473.8	1618.0	1667.2
65°	1051.7	1181.8	1364.7	1498.4	1558.2
67.5°	932.1	1048.2	1245.1	1368.3	1435.1
70°	794.9	932.1	1111.5	1252.2	1308.5
72.5°	661.3	805.5	991.9	1136.1	1192.4
75°	538.2	678.9	868.8	1009.5	1076.3
77.5°	415.0	559.3	752.7	896.9	953.2
80°	288.4	446.7	640.2	784.4	844.2
82.5°	182.9	344.7	545.2	682.4	738.6
85°	95.0	260.3	457.3	601.5	654.2
87.5°	31.7	197.0	393.9	534.6	587.4
90°	3.5	165.3	358.8	499.5	552.2
92.5°	0.0	158.3	348.2	481.9	531.1
95°	0.0	151.2	337.7	467.8	517.1
97.5°	0.0	147.7	323.6	453.7	503.0
100°	0.0	140.7	316.6	443.2	488.9
102.5°	0.0	137.2	306.0	429.1	474.8
105°	0.0	133.7	295.5	415.0	460.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.5	119.6	267.3	376.4	415.0
115°	3.5	116.1	256.8	358.8	397.5
117.5°	3.5	109.0	249.7	344.7	379.9
120°	3.5	105.5	239.2	334.2	365.8
122.5°	3.5	102.0	228.6	316.6	351.7
125°	3.5	95.0	218.1	302.5	334.2
127.5°	3.5	87.9	207.5	288.4	316.6
130°	3.5	84.4	197.0	270.8	302.5
132.5°	3.5	77.4	186.4	260.3	284.9
135°	3.5	73.9	175.9	242.7	270.8
137.5°	3.5	66.8	165.3	228.6	253.3
140°	3.5	59.8	151.2	214.6	235.7
142.5°	3.5	56.3	140.7	197.0	218.1
145°	7.0	49.2	126.6	179.4	200.5
147.5°	7.0	45.7	112.6	165.3	182.9
150°	7.0	38.7	98.5	147.7	165.3
152.5°	7.0	35.2	87.9	130.1	147.7
155°	7.0	28.1	73.9	116.1	126.6
157.5°	7.0	24.6	63.3	98.5	112.6
160°	7.0	21.1	52.8	84.4	95.0
162.5°	7.0	17.6	42.2	66.8	77.4
165°	7.0	14.1	31.7	49.2	59.8
167.5°	7.0	10.6	24.6	35.2	45.7
170°	7.0	10.6	17.6	24.6	35.2
172.5°	7.0	7.0	10.6	14.1	21.1
175°	7.0	7.0	7.0	7.0	7.0
177.5°	7.0	7.0	3.5	3.5	0.0
180°	3.5	3.5	3.5	3.5	3.5



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	0.0	126.6	288.4	401.0	443.2
110°	3.5	123.1	277.9	386.9	429.1



(END OF REPORT)