

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: P709754

Luminaire Tested: **4AWS-L3C39-SQR-UNV-4000K-LOW**

Issue Date: 9/26/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P709754  
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: 4AWS-L3C39-SQR-UNV-4000K-LOW  
Description: 4foot, Adapt Surface Wrap with, SQR lens and LOW lumen setting, 4000K, 90CRI  
  
Light Source: -  
Ballast/Driver: -

**Summary**

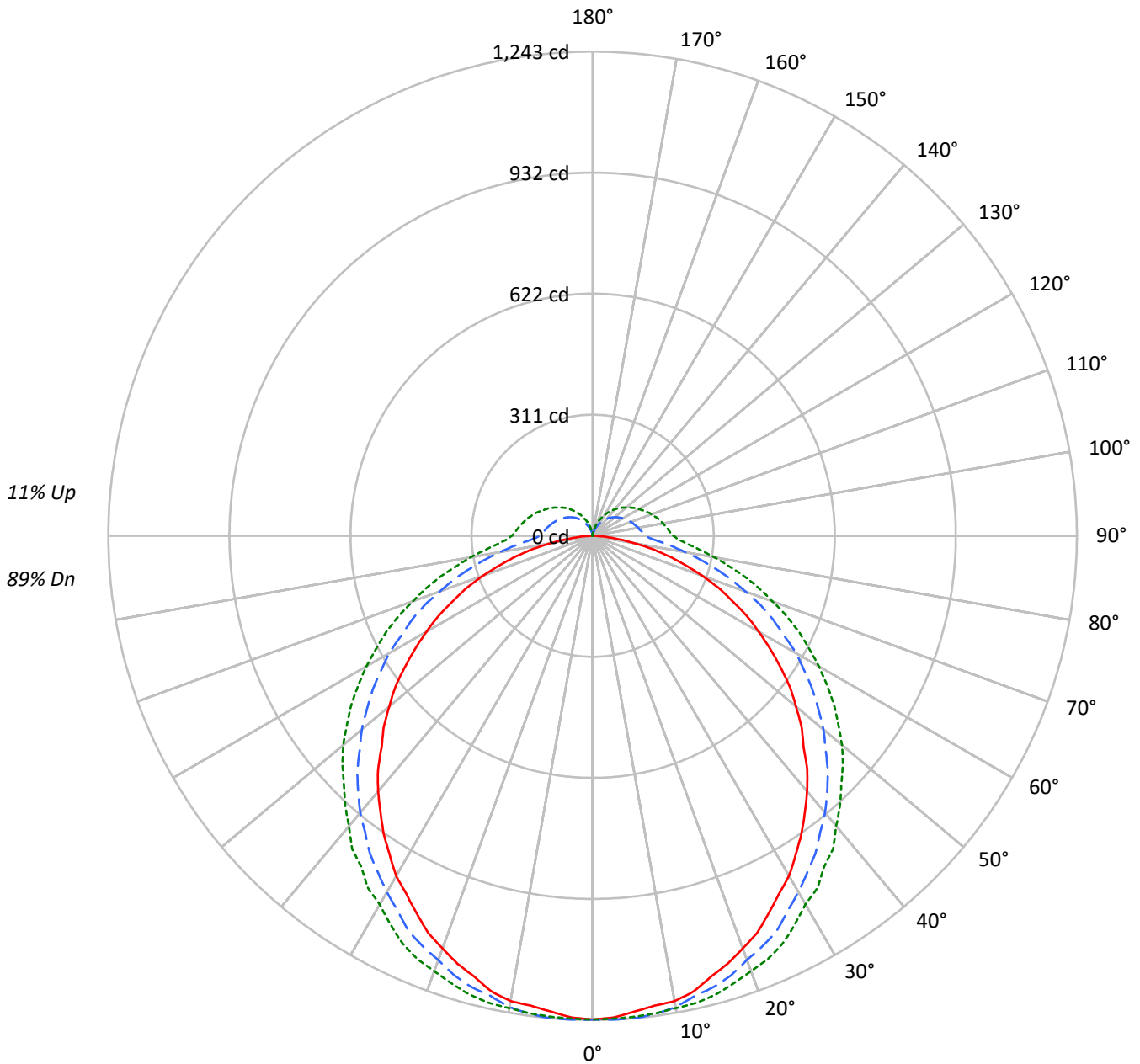
Lumens per Lamp: N/A  
Luminaire Lumens: 4334.0 lumens  
Efficiency: N/A  
Efficacy: 135.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 0.46' x L: 3.71' x H: 0.12')  
CIE Type: Semi-Direct

Input Watts (W): 32  
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	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°	7833	7833	7833
5°	7740	7731	7671
10°	7723	7592	7539
15°	7586	7421	7442
20°	7477	7231	7289
25°	7329	7102	7165
30°	7209	6867	6916
35°	7035	6699	6745
40°	6866	6507	6570
45°	6613	6309	6386
50°	6434	6085	6253
55°	6187	5845	6058
60°	5881	5598	5825
65°	5507	5290	5595
70°	5052	4899	5273
75°	4390	4479	4986
80°	3321	4010	4639
85°	1881	3685	4462



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.8	2.7
10°-20°	337.9	7.8
20°-30°	512.4	11.8
30°-40°	620.2	14.3
40°-50°	652.9	15.1
50°-60°	608.2	14.0
60°-70°	496.1	11.4
70°-80°	334.5	7.7
80°-90°	179.8	4.1
90°-100°	124.6	2.9
100°-110°	106.7	2.5
110°-120°	87.0	2.0
120°-130°	66.1	1.5
130°-140°	45.8	1.1
140°-150°	27.3	0.6
150°-160°	12.7	0.3
160°-170°	3.7	0.1
170°-180°	0.4	0.0
0°-30°	968.1	22.3
0°-40°	1588.3	36.6
0°-60°	2849.4	65.7
0°-90°	3859.7	89.1
90°-120°	318.2	7.3
90°-150°	457.5	10.6
90°-180°	474.0	10.9
0°-180°	4334.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1242	1242	1242	1242	1242	
5°	1226	1239	1243	1243	1239	117
15°	1172	1185	1200	1210	1219	331
25°	1069	1090	1119	1130	1155	493
35°	934	957	996	1025	1036	584
45°	765	802	854	891	903	594
55°	589	631	689	732	756	526
65°	395	443	512	562	585	392
75°	202	255	326	379	404	213
85°	36	98	172	226	246	45
90°	1	62	135	187	207	2
95°	0	57	127	176	194	0
105°	0	50	111	156	173	0
115°	1	44	96	135	149	1
125°	1	36	82	114	125	1
135°	1	28	66	91	102	1
145°	3	18	48	67	75	1
155°	3	11	28	44	48	1
165°	3	5	12	18	22	1
175°	3	3	3	3	3	0
180°	1	1	1	1	1	



TEST NUMBER: P709754

CATALOG NUMBER: 4AWS-L3C39-SQR-UNV-4000K-LOW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1241.9	1241.9	1241.9	1241.9	1241.9
2.5°	1237.9	1239.2	1243.2	1247.2	1240.6
5°	1226.0	1239.2	1243.2	1243.2	1239.2
7.5°	1216.8	1228.7	1237.9	1235.3	1236.6
10°	1212.8	1219.4	1228.7	1235.3	1231.3
12.5°	1198.3	1202.3	1210.2	1220.8	1228.7
15°	1171.9	1185.1	1199.6	1210.2	1219.4
17.5°	1152.1	1164.0	1182.5	1191.7	1204.9
20°	1127.1	1140.3	1158.7	1178.5	1189.1
22.5°	1103.3	1115.2	1140.3	1153.5	1175.9
25°	1069.0	1090.1	1119.1	1129.7	1154.8
27.5°	1036.0	1059.7	1084.8	1113.9	1124.4
30°	1008.3	1025.4	1055.8	1080.9	1092.7
32.5°	970.0	993.8	1025.4	1055.8	1072.9
35°	934.4	956.8	996.4	1025.4	1036.0
37.5°	894.8	919.9	959.4	993.8	1013.6
40°	856.5	884.2	927.8	960.8	972.6
42.5°	815.6	844.6	890.8	929.1	939.7
45°	765.4	802.4	853.9	890.8	902.7
47.5°	727.2	761.5	810.3	853.9	871.0
50°	681.0	719.3	773.4	813.0	835.4
52.5°	638.8	674.4	729.8	768.1	794.5
55°	588.6	630.8	688.9	732.5	756.2
57.5°	539.8	583.3	644.0	688.9	712.7
60°	492.3	537.1	603.1	648.0	670.4
62.5°	446.1	493.6	553.0	607.1	625.6
65°	394.6	443.4	512.1	562.2	584.6
67.5°	349.7	393.3	467.2	513.4	538.5
70°	298.3	349.7	417.0	469.8	490.9
72.5°	248.1	302.2	372.2	426.3	447.4
75°	201.9	254.7	326.0	378.8	403.8
77.5°	155.7	209.8	282.4	336.5	357.6
80°	108.2	167.6	240.2	294.3	316.7
82.5°	68.6	129.3	204.6	256.0	277.1
85°	35.6	97.7	171.6	225.7	245.5
87.5°	11.9	73.9	147.8	200.6	220.4
90°	1.3	62.0	134.6	187.4	207.2
92.5°	0.0	59.4	130.7	180.8	199.3
95°	0.0	56.7	126.7	175.5	194.0
97.5°	0.0	55.4	121.4	170.2	188.7
100°	0.0	52.8	118.8	166.3	183.4
102.5°	0.0	51.5	114.8	161.0	178.2
105°	0.0	50.2	110.9	155.7	172.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	44.9	100.3	141.2	155.7
115°	1.3	43.6	96.3	134.6	149.1
117.5°	1.3	40.9	93.7	129.3	142.5
120°	1.3	39.6	89.7	125.4	137.3
122.5°	1.3	38.3	85.8	118.8	132.0
125°	1.3	35.6	81.8	113.5	125.4
127.5°	1.3	33.0	77.9	108.2	118.8
130°	1.3	31.7	73.9	101.6	113.5
132.5°	1.3	29.0	69.9	97.7	106.9
135°	1.3	27.7	66.0	91.1	101.6
137.5°	1.3	25.1	62.0	85.8	95.0
140°	1.3	22.4	56.7	80.5	88.4
142.5°	1.3	21.1	52.8	73.9	81.8
145°	2.6	18.5	47.5	67.3	75.2
147.5°	2.6	17.2	42.2	62.0	68.6
150°	2.6	14.5	37.0	55.4	62.0
152.5°	2.6	13.2	33.0	48.8	55.4
155°	2.6	10.6	27.7	43.6	47.5
157.5°	2.6	9.2	23.8	37.0	42.2
160°	2.6	7.9	19.8	31.7	35.6
162.5°	2.6	6.6	15.8	25.1	29.0
165°	2.6	5.3	11.9	18.5	22.4
167.5°	2.6	4.0	9.2	13.2	17.2
170°	2.6	4.0	6.6	9.2	13.2
172.5°	2.6	2.6	4.0	5.3	7.9
175°	2.6	2.6	2.6	2.6	2.6
177.5°	2.6	2.6	1.3	1.3	0.0
180°	1.3	1.3	1.3	1.3	1.3



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	0.0	47.5	108.2	150.5	166.3
110°	1.3	46.2	104.3	145.2	161.0



(END OF REPORT)