

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: P709753

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

Issue Date: 9/26/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P709753  
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-HI  
Description: 4foot, Adapt Surface Wrap with, SQR lens and HI lumen setting,  
4000K, 90CRI  
  
Light Source: -  
Ballast/Driver: -

**Summary**

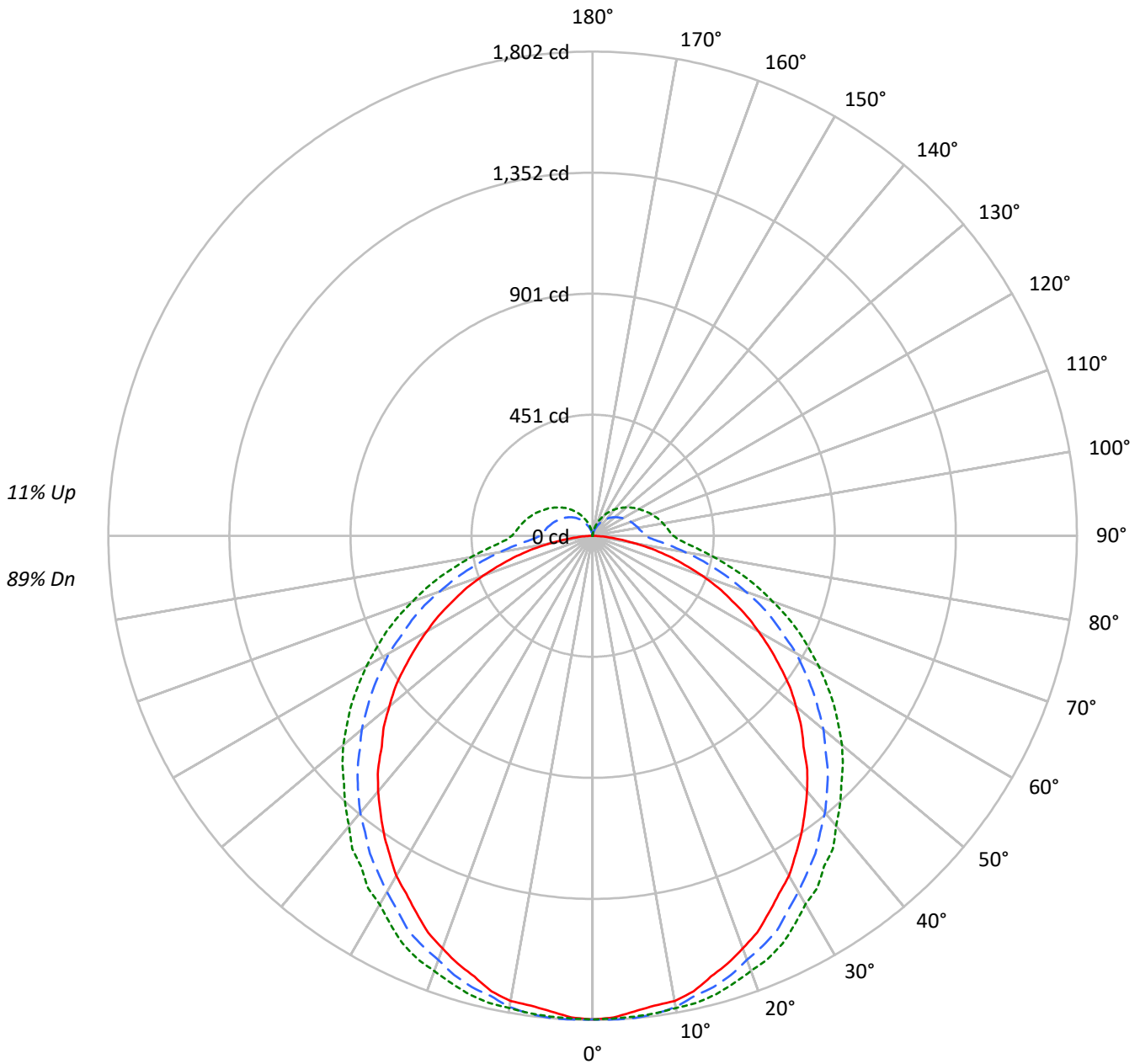
Lumens per Lamp: N/A  
Luminaire Lumens: 6282.0 lumens  
Efficiency: N/A  
Efficacy: 133.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 0.46' x L: 3.71' x H: 0.12')  
CIE Type: Semi-Direct

Input Watts (W): 47  
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°	11354	11354	11354
5°	11220	11206	11119
10°	11195	11004	10928
15°	10997	10756	10787
20°	10837	10482	10565
25°	10623	10294	10385
30°	10449	9954	10026
35°	10197	9711	9776
40°	9952	9432	9523
45°	9586	9144	9256
50°	9326	8820	9064
55°	8968	8471	8781
60°	8523	8114	8444
65°	7983	7668	8110
70°	7321	7102	7644
75°	6365	6491	7228
80°	4816	5813	6725
85°	2726	5341	6467



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.8	2.7
10°-20°	489.7	7.8
20°-30°	742.7	11.8
30°-40°	899.0	14.3
40°-50°	946.4	15.1
50°-60°	881.5	14.0
60°-70°	719.0	11.4
70°-80°	484.8	7.7
80°-90°	260.5	4.1
90°-100°	180.6	2.9
100°-110°	154.6	2.5
110°-120°	126.1	2.0
120°-130°	95.9	1.5
130°-140°	66.4	1.1
140°-150°	39.6	0.6
150°-160°	18.4	0.3
160°-170°	5.4	0.1
170°-180°	0.6	0.0
0°-30°	1403.2	22.3
0°-40°	2302.2	36.6
0°-60°	4130.1	65.7
0°-90°	5594.5	89.1
90°-120°	461.3	7.3
90°-150°	663.1	10.6
90°-180°	687.0	10.9
0°-180°	6282.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1800	1800	1800	1800	1800	
5°	1777	1796	1802	1802	1796	169
15°	1699	1718	1739	1754	1768	480
25°	1550	1580	1622	1638	1674	715
35°	1354	1387	1444	1486	1502	847
45°	1110	1163	1238	1291	1308	861
55°	853	914	998	1062	1096	763
65°	572	643	742	815	847	569
75°	293	369	472	549	585	309
85°	52	142	249	327	356	65
90°	2	90	195	272	300	3
95°	0	82	184	254	281	0
105°	0	73	161	226	251	0
115°	2	63	140	195	216	2
125°	2	52	119	164	182	2
135°	2	40	96	132	147	1
145°	4	27	69	98	109	2
155°	4	15	40	63	69	2
165°	4	8	17	27	32	1
175°	4	4	4	4	4	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1800.1	1800.1	1800.1	1800.1	1800.1
2.5°	1794.3	1796.2	1802.0	1807.7	1798.1
5°	1777.1	1796.2	1802.0	1802.0	1796.2
7.5°	1763.7	1780.9	1794.3	1790.5	1792.4
10°	1758.0	1767.5	1780.9	1790.5	1784.8
12.5°	1736.9	1742.7	1754.1	1769.4	1780.9
15°	1698.7	1717.8	1738.8	1754.1	1767.5
17.5°	1670.0	1687.2	1714.0	1727.4	1746.5
20°	1633.6	1652.8	1679.5	1708.2	1723.5
22.5°	1599.2	1616.4	1652.8	1671.9	1704.4
25°	1549.5	1580.1	1622.2	1637.5	1673.8
27.5°	1501.6	1536.1	1572.4	1614.5	1629.8
30°	1461.5	1486.3	1530.3	1566.7	1583.9
32.5°	1406.0	1440.4	1486.3	1530.3	1555.2
35°	1354.3	1386.9	1444.3	1486.3	1501.6
37.5°	1297.0	1333.3	1390.7	1440.4	1469.1
40°	1241.5	1281.7	1344.8	1392.6	1409.8
42.5°	1182.2	1224.3	1291.2	1346.7	1362.0
45°	1109.5	1163.1	1237.7	1291.2	1308.4
47.5°	1054.0	1103.8	1174.5	1237.7	1262.5
50°	987.1	1042.5	1121.0	1178.4	1210.9
52.5°	925.9	977.5	1057.8	1113.3	1151.6
55°	853.2	914.4	998.5	1061.7	1096.1
57.5°	782.4	845.5	933.5	998.5	1033.0
60°	713.5	778.6	874.2	939.2	971.8
62.5°	646.6	715.4	801.5	879.9	906.7
65°	572.0	642.7	742.2	814.9	847.4
67.5°	506.9	570.0	677.2	744.1	780.5
70°	432.3	506.9	604.5	681.0	711.6
72.5°	359.6	438.1	539.4	617.9	648.5
75°	292.7	369.2	472.5	549.0	585.4
77.5°	225.7	304.2	409.4	487.8	518.4
80°	156.9	242.9	348.2	426.6	459.1
82.5°	99.5	187.5	296.5	371.1	401.7
85°	51.6	141.6	248.7	327.1	355.8
87.5°	17.2	107.1	214.2	290.8	319.5
90°	1.9	89.9	195.1	271.6	300.3
92.5°	0.0	86.1	189.4	262.1	288.9
95°	0.0	82.3	183.6	254.4	281.2
97.5°	0.0	80.3	176.0	246.8	273.5
100°	0.0	76.5	172.2	241.0	265.9
102.5°	0.0	74.6	166.4	233.4	258.2
105°	0.0	72.7	160.7	225.7	250.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.9	65.0	145.4	204.7	225.7
115°	1.9	63.1	139.6	195.1	216.2
117.5°	1.9	59.3	135.8	187.5	206.6
120°	1.9	57.4	130.1	181.7	198.9
122.5°	1.9	55.5	124.3	172.2	191.3
125°	1.9	51.6	118.6	164.5	181.7
127.5°	1.9	47.8	112.9	156.9	172.2
130°	1.9	45.9	107.1	147.3	164.5
132.5°	1.9	42.1	101.4	141.6	154.9
135°	1.9	40.2	95.6	132.0	147.3
137.5°	1.9	36.3	89.9	124.3	137.7
140°	1.9	32.5	82.3	116.7	128.2
142.5°	1.9	30.6	76.5	107.1	118.6
145°	3.8	26.8	68.9	97.6	109.0
147.5°	3.8	24.9	61.2	89.9	99.5
150°	3.8	21.0	53.6	80.3	89.9
152.5°	3.8	19.1	47.8	70.8	80.3
155°	3.8	15.3	40.2	63.1	68.9
157.5°	3.8	13.4	34.4	53.6	61.2
160°	3.8	11.5	28.7	45.9	51.6
162.5°	3.8	9.6	23.0	36.3	42.1
165°	3.8	7.7	17.2	26.8	32.5
167.5°	3.8	5.7	13.4	19.1	24.9
170°	3.8	5.7	9.6	13.4	19.1
172.5°	3.8	3.8	5.7	7.7	11.5
175°	3.8	3.8	3.8	3.8	3.8
177.5°	3.8	3.8	1.9	1.9	0.0
180°	1.9	1.9	1.9	1.9	1.9



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	0.0	68.9	156.9	218.1	241.0
110°	1.9	67.0	151.1	210.4	233.4



(END OF REPORT)