

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: P709727

Luminaire Tested: **4AWS-L3C3-SQR-UNV-4000K-LOW**

Issue Date: 9/26/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P709727  
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-L3C3-SQR-UNV-4000K-LOW  
Description: 4foot, Adapt Surface Wrap with, SQR lens and LOW lumen setting, 4000K, 80CRI  
  
Light Source: -  
Ballast/Driver: -

**Summary**

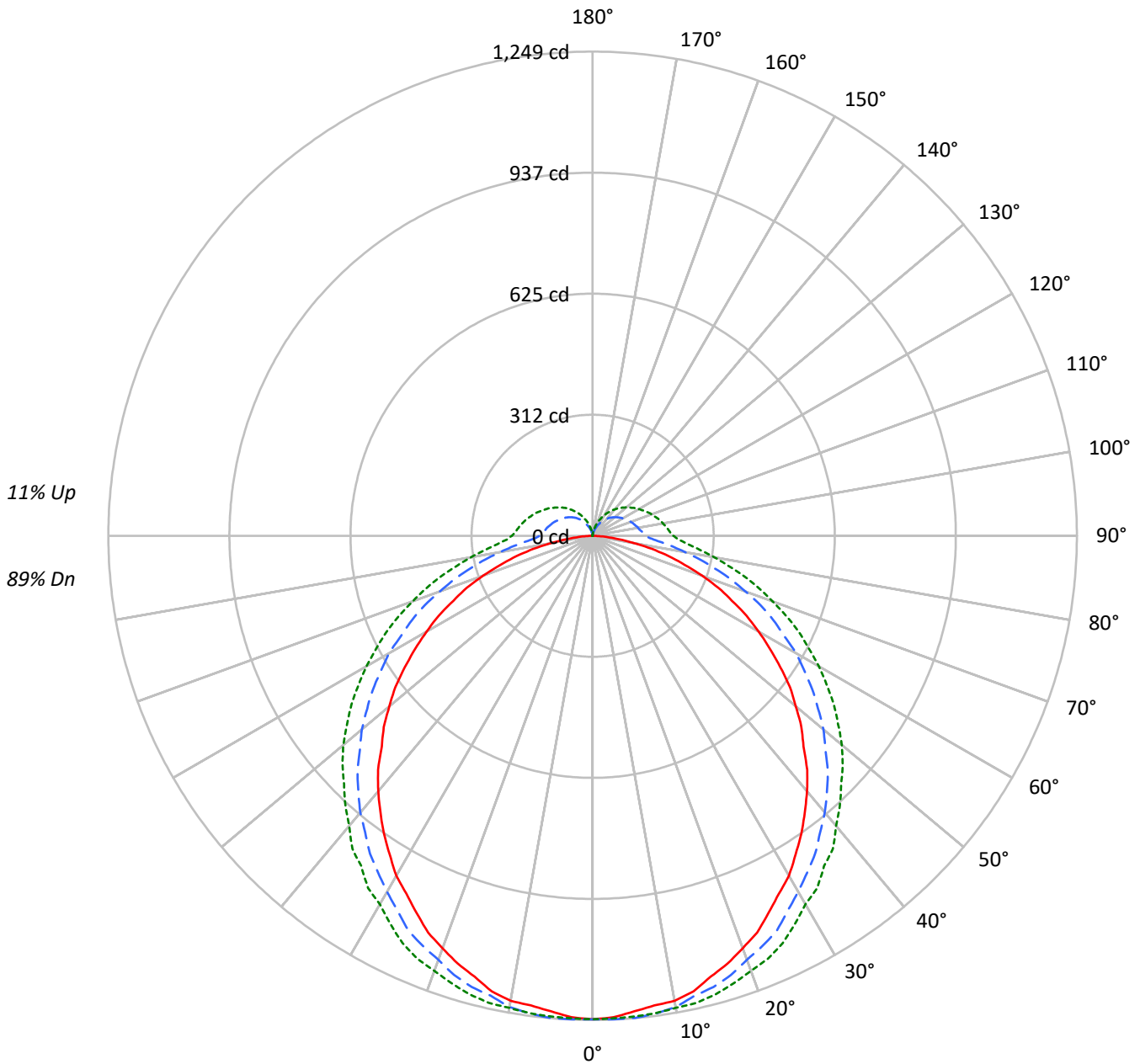
Lumens per Lamp: N/A  
Luminaire Lumens: 4353.0 lumens  
Efficiency: N/A  
Efficacy: 140.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 0.46' x L: 3.71' x H: 0.12')  
CIE Type: Semi-Direct

Input Watts (W): 31  
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°	7867	7867	7867
5°	7774	7764	7705
10°	7758	7625	7572
15°	7620	7454	7475
20°	7510	7263	7321
25°	7361	7133	7196
30°	7240	6897	6947
35°	7066	6729	6774
40°	6896	6535	6599
45°	6643	6336	6414
50°	6463	6112	6281
55°	6214	5870	6085
60°	5906	5623	5851
65°	5531	5313	5620
70°	5074	4921	5297
75°	4410	4498	5008
80°	3336	4026	4660
85°	1891	3700	4480



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.3	2.7
10°-20°	339.3	7.8
20°-30°	514.7	11.8
30°-40°	622.9	14.3
40°-50°	655.8	15.1
50°-60°	610.8	14.0
60°-70°	498.2	11.4
70°-80°	335.9	7.7
80°-90°	180.5	4.1
90°-100°	125.1	2.9
100°-110°	107.1	2.5
110°-120°	87.4	2.0
120°-130°	66.4	1.5
130°-140°	46.0	1.1
140°-150°	27.4	0.6
150°-160°	12.8	0.3
160°-170°	3.8	0.1
170°-180°	0.4	0.0
0°-30°	972.3	22.3
0°-40°	1595.3	36.6
0°-60°	2861.9	65.7
0°-90°	3876.6	89.1
90°-120°	319.6	7.3
90°-150°	459.5	10.6
90°-180°	476.0	10.9
0°-180°	4353.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1247	1247	1247	1247	1247	
5°	1231	1245	1249	1249	1245	117
15°	1177	1190	1205	1216	1225	333
25°	1074	1095	1124	1135	1160	495
35°	938	961	1001	1030	1040	587
45°	769	806	858	895	907	596
55°	591	634	692	736	760	529
65°	396	445	514	565	587	394
75°	203	256	327	380	406	214
85°	36	98	172	227	246	45
90°	1	62	135	188	208	2
95°	0	57	127	176	195	0
105°	0	50	111	156	174	0
115°	1	44	97	135	150	1
125°	1	36	82	114	126	1
135°	1	28	66	92	102	1
145°	3	19	48	68	76	1
155°	3	11	28	44	48	1
165°	3	5	12	19	22	1
175°	3	3	3	3	3	0
180°	1	1	1	1	1	



TEST NUMBER: P709727

CATALOG NUMBER: 4AWS-L3C3-SQR-UNV-4000K-LOW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1247.3	1247.3	1247.3	1247.3	1247.3
2.5°	1243.3	1244.7	1248.6	1252.6	1246.0
5°	1231.4	1244.7	1248.6	1248.6	1244.7
7.5°	1222.1	1234.1	1243.3	1240.7	1242.0
10°	1218.2	1224.8	1234.1	1240.7	1236.7
12.5°	1203.6	1207.6	1215.5	1226.1	1234.1
15°	1177.1	1190.3	1204.9	1215.5	1224.8
17.5°	1157.2	1169.1	1187.7	1196.9	1210.2
20°	1132.0	1145.3	1163.8	1183.7	1194.3
22.5°	1108.1	1120.1	1145.3	1158.5	1181.0
25°	1073.7	1094.9	1124.0	1134.6	1159.8
27.5°	1040.5	1064.4	1089.6	1118.7	1129.3
30°	1012.7	1029.9	1060.4	1085.6	1097.5
32.5°	974.3	998.1	1029.9	1060.4	1077.6
35°	938.5	961.0	1000.8	1029.9	1040.5
37.5°	898.7	923.9	963.7	998.1	1018.0
40°	860.3	888.1	931.8	965.0	976.9
42.5°	819.2	848.3	894.7	933.2	943.8
45°	768.8	805.9	857.6	894.7	906.7
47.5°	730.4	764.8	813.9	857.6	874.8
50°	684.0	722.4	776.8	816.5	839.1
52.5°	641.6	677.3	733.0	771.5	798.0
55°	591.2	633.6	691.9	735.7	759.5
57.5°	542.1	585.9	646.9	691.9	715.8
60°	494.4	539.5	605.8	650.8	673.4
62.5°	448.0	495.7	555.4	609.7	628.3
65°	396.3	445.4	514.3	564.7	587.2
67.5°	351.3	395.0	469.2	515.6	540.8
70°	299.6	351.3	418.9	471.9	493.1
72.5°	249.2	303.5	373.8	428.1	449.4
75°	202.8	255.8	327.4	380.4	405.6
77.5°	156.4	210.8	283.7	338.0	359.2
80°	108.7	168.3	241.2	295.6	318.1
82.5°	68.9	129.9	205.5	257.2	278.4
85°	35.8	98.1	172.3	226.7	246.5
87.5°	11.9	74.2	148.5	201.5	221.4
90°	1.3	62.3	135.2	188.2	208.1
92.5°	0.0	59.6	131.2	181.6	200.2
95°	0.0	57.0	127.3	176.3	194.9
97.5°	0.0	55.7	121.9	171.0	189.5
100°	0.0	53.0	119.3	167.0	184.2
102.5°	0.0	51.7	115.3	161.7	178.9
105°	0.0	50.4	111.3	156.4	173.6



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CATALOG NUMBER: 4AWS-L3C3-SQR-UNV-4000K-LOW

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	45.1	100.7	141.8	156.4
115°	1.3	43.7	96.8	135.2	149.8
117.5°	1.3	41.1	94.1	129.9	143.2
120°	1.3	39.8	90.1	125.9	137.9
122.5°	1.3	38.4	86.2	119.3	132.6
125°	1.3	35.8	82.2	114.0	125.9
127.5°	1.3	33.1	78.2	108.7	119.3
130°	1.3	31.8	74.2	102.1	114.0
132.5°	1.3	29.2	70.3	98.1	107.4
135°	1.3	27.8	66.3	91.5	102.1
137.5°	1.3	25.2	62.3	86.2	95.4
140°	1.3	22.5	57.0	80.9	88.8
142.5°	1.3	21.2	53.0	74.2	82.2
145°	2.7	18.6	47.7	67.6	75.6
147.5°	2.7	17.2	42.4	62.3	68.9
150°	2.7	14.6	37.1	55.7	62.3
152.5°	2.7	13.3	33.1	49.0	55.7
155°	2.7	10.6	27.8	43.7	47.7
157.5°	2.7	9.3	23.9	37.1	42.4
160°	2.7	8.0	19.9	31.8	35.8
162.5°	2.7	6.6	15.9	25.2	29.2
165°	2.7	5.3	11.9	18.6	22.5
167.5°	2.7	4.0	9.3	13.3	17.2
170°	2.7	4.0	6.6	9.3	13.3
172.5°	2.7	2.7	4.0	5.3	8.0
175°	2.7	2.7	2.7	2.7	2.7
177.5°	2.7	2.7	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	47.7	108.7	151.1	167.0
110°	1.3	46.4	104.7	145.8	161.7



(END OF REPORT)