

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: P709850

Luminaire Tested: **4AWWS-L3C3-SQR-UNV-3500K-LOW**

Issue Date: 9/26/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709850  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-090-7)  
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-3500K-LOW  
Description: 4foot, Wide Adapt Surface Wrap with, SQR lens and LOW lumen setting, 3500K, 80CRI  
  
Light Source: -  
Ballast/Driver: -

**Summary**

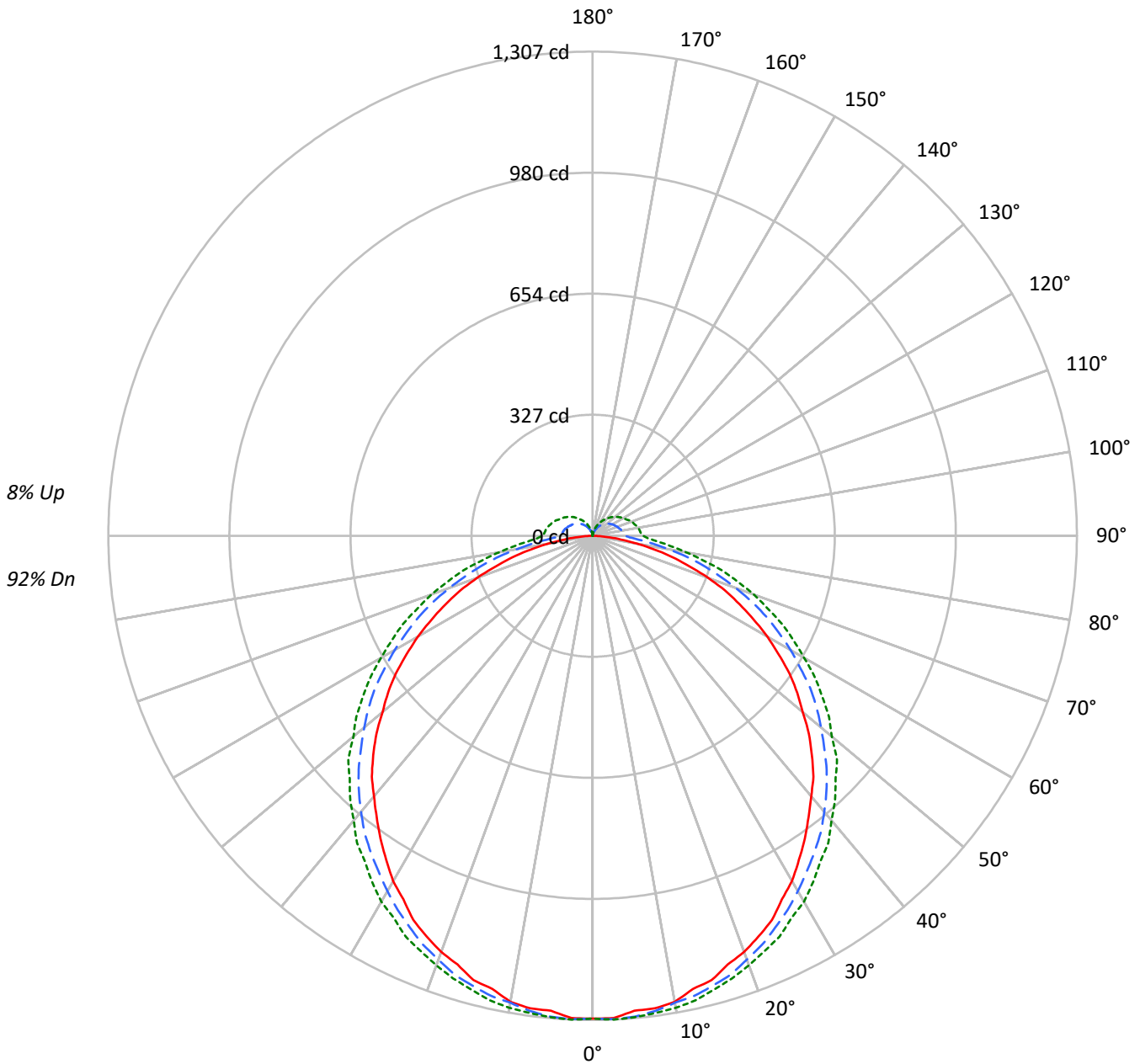
Lumens per Lamp: N/A  
Luminaire Lumens: 4271.0 lumens  
Efficiency: N/A  
Efficacy: 133.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 3.71' x H: 0.17')  
CIE Type: Direct

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				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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	95	95	95	92
1	106	101	97	92	103	98	94	90	92	89	86	87	85	82	82	80	78	78	78	78	76
2	96	88	81	75	93	85	79	73	80	75	70	76	71	68	72	68	65	65	65	65	62
3	88	77	68	62	84	75	67	61	70	64	59	67	61	57	63	59	55	55	55	55	52
4	80	68	59	52	77	66	58	51	62	55	50	59	53	48	56	51	47	47	47	47	44
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	50	45	40	40	40	40	38
6	68	54	45	39	65	53	44	38	50	43	37	48	41	36	46	40	35	35	35	35	33
7	63	49	40	34	61	48	40	34	46	38	33	44	37	32	42	36	31	31	31	31	29
8	58	45	36	30	56	44	36	30	42	34	29	40	33	29	38	32	28	28	28	28	26
9	54	41	33	27	53	40	32	27	38	31	26	37	30	26	35	30	25	25	25	25	23
10	51	38	30	25	49	37	29	24	35	29	24	34	28	23	33	27	23	23	23	23	21

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

	0°	45°	90°
0°	4556	4556	4556
5°	4498	4503	4498
10°	4498	4406	4432
15°	4439	4342	4349
20°	4373	4253	4271
25°	4323	4156	4203
30°	4232	4056	4117
35°	4128	3961	4002
40°	4033	3863	3904
45°	3956	3750	3804
50°	3815	3611	3683
55°	3708	3485	3566
60°	3525	3299	3402
65°	3296	3099	3246
70°	3005	2820	3023
75°	2571	2501	2764
80°	1901	2073	2381
85°	1079	1668	2102



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.5	2.9
10°-20°	354.5	8.3
20°-30°	538.8	12.6
30°-40°	652.7	15.3
40°-50°	686.3	16.1
50°-60°	634.3	14.9
60°-70°	504.8	11.8
70°-80°	317.8	7.4
80°-90°	137.7	3.2
90°-100°	81.6	1.9
100°-110°	71.9	1.7
110°-120°	59.4	1.4
120°-130°	45.5	1.1
130°-140°	31.8	0.7
140°-150°	18.8	0.4
150°-160°	8.8	0.2
160°-170°	2.6	0.1
170°-180°	0.3	0.0
0°-30°	1016.8	23.8
0°-40°	1669.5	39.1
0°-60°	2990.1	70.0
0°-90°	3950.4	92.5
90°-120°	212.9	5.0
90°-150°	308.9	7.2
90°-180°	321.0	7.5
0°-180°	4271.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1303	1303	1303	1303	1303	
5°	1287	1298	1303	1302	1305	123
15°	1242	1240	1257	1265	1268	349
25°	1145	1150	1167	1188	1194	526
35°	998	1019	1044	1070	1072	625
45°	837	862	893	919	927	645
55°	648	680	717	748	756	577
65°	438	475	517	551	565	433
75°	223	264	308	343	361	235
85°	41	78	126	161	175	50
90°	1	40	88	122	135	2
95°	0	36	82	116	129	0
105°	0	33	75	105	118	0
115°	0	29	66	93	103	0
125°	1	23	56	79	88	1
135°	1	19	45	63	71	1
145°	0	12	33	46	52	1
155°	1	7	20	30	34	1
165°	1	3	8	14	16	0
175°	1	1	1	3	3	0
180°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1303.3	1303.3	1303.3	1303.3	<i>1303.3</i>
2.5°	<i>1303.3</i>	<i>1293.8</i>	<i>1306.1</i>	<i>1304.7</i>	<i>1307.4</i>
5°	1286.9	1297.9	1303.3	1302.0	<i>1304.7</i>
7.5°	1286.9	1286.9	1293.8	1297.9	<i>1299.2</i>
10°	1277.4	1282.8	1280.1	1286.9	<i>1293.8</i>
12.5°	1252.7	1267.8	1271.9	1286.9	<i>1284.2</i>
15°	1241.8	1240.4	1256.8	1265.0	<i>1267.8</i>
17.5°	1213.1	1224.0	1241.8	1250.0	<i>1252.7</i>
20°	1195.3	1206.2	1217.2	1235.0	<i>1233.6</i>
22.5°	1170.7	1180.3	1195.3	1211.7	<i>1213.1</i>
25°	1144.7	1150.2	1166.6	1188.5	<i>1193.9</i>
27.5°	1106.4	1124.2	1139.2	1167.9	<i>1162.5</i>
30°	1076.3	1088.6	1107.8	1135.1	<i>1140.6</i>
32.5°	1036.7	1061.3	1074.9	1099.6	<i>1107.8</i>
35°	998.4	1018.9	1043.5	1069.5	<i>1072.2</i>
37.5°	957.3	986.0	1010.7	1038.0	<i>1044.9</i>
40°	917.7	942.3	972.4	997.0	<i>1002.5</i>
42.5°	882.1	905.4	934.1	965.5	<i>968.3</i>
45°	837.0	861.6	893.1	919.0	<i>927.2</i>
47.5°	791.8	820.6	847.9	879.4	<i>894.4</i>
50°	739.9	772.7	804.2	835.6	<i>842.5</i>
52.5°	696.1	723.5	761.8	793.2	<i>804.2</i>
55°	648.2	679.7	716.6	748.1	<i>756.3</i>
57.5°	594.9	625.0	664.7	698.9	<i>711.2</i>
60°	544.3	577.1	616.8	651.0	<i>659.2</i>
62.5°	489.6	526.5	566.2	601.8	<i>611.3</i>
65°	437.6	474.6	517.0	551.1	<i>564.8</i>
67.5°	387.0	422.6	465.0	499.2	<i>510.1</i>
70°	331.0	366.5	410.3	448.6	<i>462.3</i>
72.5°	273.5	311.8	356.9	398.0	<i>408.9</i>
75°	222.9	263.9	307.7	343.3	<i>361.1</i>
77.5°	171.0	206.5	257.1	291.3	<i>305.0</i>
80°	119.0	160.0	206.5	244.8	<i>255.7</i>
82.5°	76.6	116.2	164.1	198.3	<i>212.0</i>
85°	41.0	78.0	125.8	161.4	<i>175.1</i>
87.5°	13.7	52.0	99.8	134.0	<i>149.1</i>
90°	1.4	39.7	87.5	121.7	<i>135.4</i>
92.5°	0.0	36.9	83.4	116.2	<i>131.3</i>
95°	0.0	35.6	82.1	116.2	<i>128.6</i>
97.5°	0.0	35.6	80.7	114.9	<i>127.2</i>
100°	0.0	34.2	79.3	110.8	<i>124.5</i>
102.5°	0.0	32.8	78.0	109.4	<i>121.7</i>
105°	0.0	32.8	75.2	105.3	<i>117.6</i>



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	28.7	68.4	97.1	108.0
115°	0.0	28.7	65.6	93.0	102.6
117.5°	0.0	27.4	64.3	90.3	98.5
120°	0.0	26.0	61.5	86.2	95.7
122.5°	0.0	24.6	58.8	82.1	91.6
125°	1.4	23.2	56.1	79.3	87.5
127.5°	1.4	21.9	53.3	75.2	83.4
130°	1.4	21.9	50.6	71.1	79.3
132.5°	1.4	20.5	47.9	67.0	75.2
135°	1.4	19.1	45.1	62.9	71.1
137.5°	1.4	17.8	42.4	60.2	65.6
140°	0.0	16.4	39.7	54.7	61.5
142.5°	1.4	13.7	35.6	52.0	56.1
145°	0.0	12.3	32.8	46.5	52.0
147.5°	1.4	10.9	30.1	42.4	47.9
150°	1.4	9.6	27.4	38.3	43.8
152.5°	1.4	8.2	23.2	34.2	38.3
155°	1.4	6.8	20.5	30.1	34.2
157.5°	1.4	5.5	16.4	26.0	28.7
160°	1.4	5.5	13.7	21.9	24.6
162.5°	1.4	4.1	10.9	17.8	20.5
165°	1.4	2.7	8.2	13.7	16.4
167.5°	1.4	2.7	5.5	10.9	12.3
170°	1.4	2.7	4.1	6.8	8.2
172.5°	1.4	1.4	2.7	4.1	5.5
175°	1.4	1.4	1.4	2.7	2.7
177.5°	1.4	1.4	1.4	1.4	1.4
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	0.0	31.5	72.5	101.2	<i>114.9</i>
110°	0.0	30.1	71.1	98.5	<i>110.8</i>



(END OF REPORT)