

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: P709752

Luminaire Tested: **4AWS-L3C39-SQR-UNV-3500K-MID**

Issue Date: 9/26/2023

Test Information

Test Method: LM-79-08
Report Number: P709752
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-3500K-MID
Description: 4foot, Adapt Surface Wrap with, SQR lens and MID lumen setting,
3500K, 90CRI

Light Source: -
Ballast/Driver: -

Summary

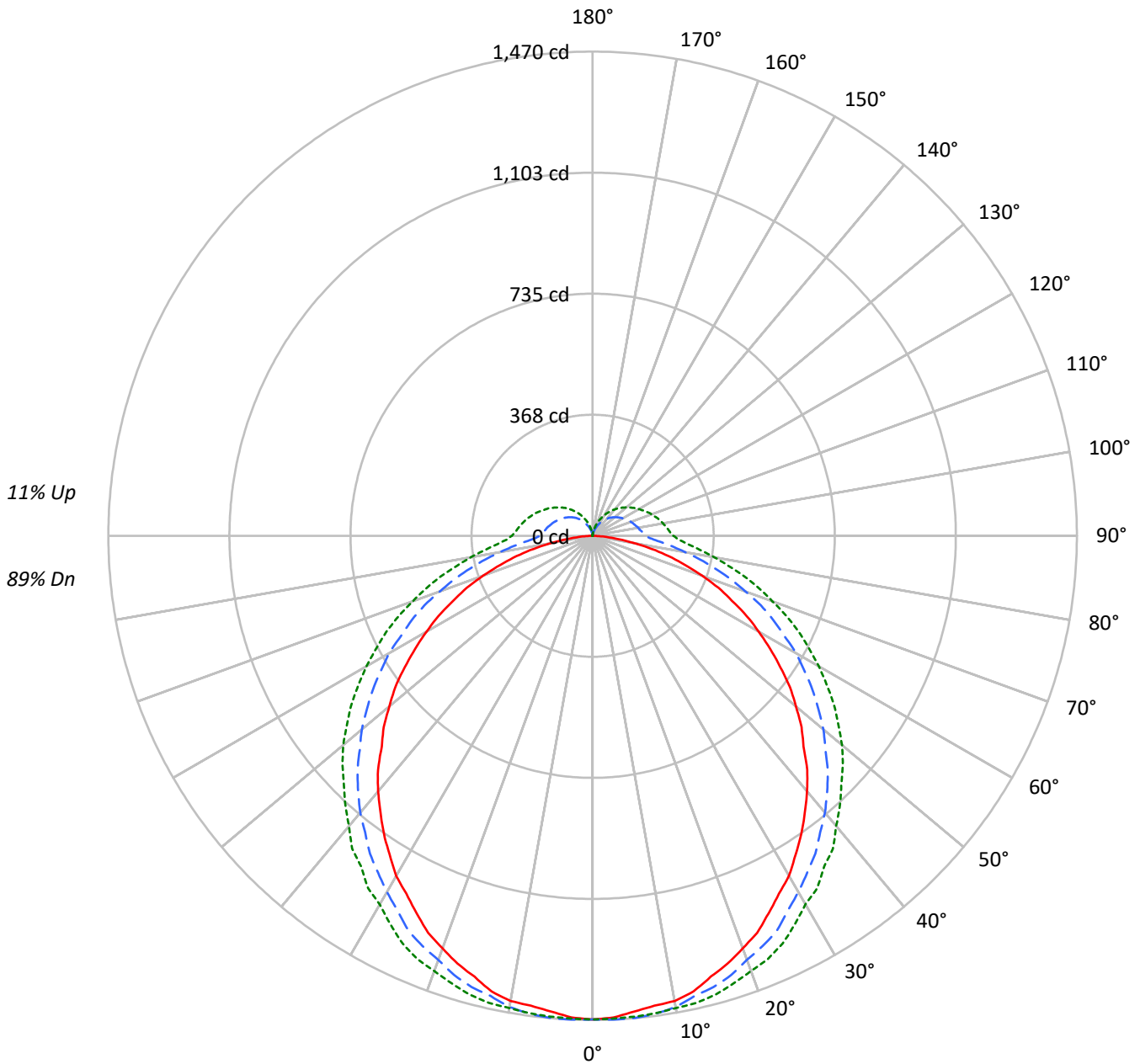
Lumens per Lamp: N/A
Luminaire Lumens: 5125.1 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.46' x L: 3.71' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): 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

TEST NUMBER: P709752

CATALOG NUMBER: 4AWS-L3C39-SQR-UNV-3500K-MID

Luminous Intensity Polar Plot





TEST NUMBER: P709752

CATALOG NUMBER: 4AWS-L3C39-SQR-UNV-3500K-MID

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°	9262	9262	9262
5°	9153	9142	9071
10°	9133	8977	8915
15°	8971	8776	8801
20°	8842	8551	8619
25°	8666	8398	8472
30°	8524	8121	8179
35°	8319	7922	7976
40°	8119	7694	7769
45°	7820	7460	7552
50°	7609	7195	7395
55°	7316	6911	7164
60°	6953	6619	6888
65°	6512	6255	6616
70°	5973	5794	6236
75°	5193	5296	5896
80°	3929	4741	5486
85°	2224	4357	5276



TEST NUMBER: P709752

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.3	2.7
10°-20°	399.5	7.8
20°-30°	605.9	11.8
30°-40°	733.4	14.3
40°-50°	772.1	15.1
50°-60°	719.2	14.0
60°-70°	586.6	11.4
70°-80°	395.5	7.7
80°-90°	212.6	4.1
90°-100°	147.3	2.9
100°-110°	126.1	2.5
110°-120°	102.9	2.0
120°-130°	78.2	1.5
130°-140°	54.1	1.1
140°-150°	32.3	0.6
150°-160°	15.0	0.3
160°-170°	4.4	0.1
170°-180°	0.5	0.0
0°-30°	1144.8	22.3
0°-40°	1878.2	36.6
0°-60°	3369.4	65.7
0°-90°	4564.2	89.1
90°-120°	376.3	7.3
90°-150°	541.0	10.6
90°-180°	561.0	10.9
0°-180°	5125.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1468	1468	1468	1468	1468	
5°	1450	1465	1470	1470	1465	138
15°	1386	1401	1419	1431	1442	392
25°	1264	1289	1323	1336	1366	583
35°	1105	1131	1178	1213	1225	691
45°	905	949	1010	1053	1068	702
55°	696	746	815	866	894	622
65°	467	524	606	665	691	464
75°	239	301	386	448	478	252
85°	42	116	203	267	290	53
90°	2	73	159	222	245	2
95°	0	67	150	208	229	0
105°	0	59	131	184	204	0
115°	2	52	114	159	176	2
125°	2	42	97	134	148	1
135°	2	33	78	108	120	1
145°	3	22	56	80	89	2
155°	3	12	33	52	56	1
165°	3	6	14	22	26	1
175°	3	3	3	3	3	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1468.5	1468.5	1468.5	1468.5	1468.5
2.5°	1463.8	1465.4	1470.1	1474.8	1467.0
5°	1449.8	1465.4	1470.1	1470.1	1465.4
7.5°	1438.9	1452.9	1463.8	1460.7	1462.3
10°	1434.2	1442.0	1452.9	1460.7	1456.0
12.5°	1417.0	1421.7	1431.1	1443.6	1452.9
15°	1385.8	1401.4	1418.6	1431.1	1442.0
17.5°	1362.4	1376.5	1398.3	1409.2	1424.8
20°	1332.8	1348.4	1370.2	1393.6	1406.1
22.5°	1304.7	1318.7	1348.4	1364.0	1390.5
25°	1264.1	1289.1	1323.4	1335.9	1365.5
27.5°	1225.1	1253.2	1282.8	1317.1	1329.6
30°	1192.3	1212.6	1248.5	1278.1	1292.2
32.5°	1147.0	1175.1	1212.6	1248.5	1268.8
35°	1104.9	1131.4	1178.3	1212.6	1225.1
37.5°	1058.1	1087.7	1134.6	1175.1	1198.5
40°	1012.8	1045.6	1097.1	1136.1	1150.2
42.5°	964.5	998.8	1053.4	1098.7	1111.1
45°	905.1	948.8	1009.7	1053.4	1067.5
47.5°	859.9	900.5	958.2	1009.7	1030.0
50°	805.3	850.5	914.5	961.3	987.9
52.5°	755.3	797.5	863.0	908.3	939.5
55°	696.0	746.0	814.6	866.1	894.2
57.5°	638.3	689.8	761.6	814.6	842.7
60°	582.1	635.2	713.2	766.3	792.8
62.5°	527.5	583.7	653.9	717.9	739.7
65°	466.6	524.4	605.5	664.8	691.3
67.5°	413.6	465.1	552.5	607.1	636.7
70°	352.7	413.6	493.2	555.6	580.5
72.5°	293.4	357.4	440.1	504.1	529.0
75°	238.8	301.2	385.5	447.9	477.5
77.5°	184.2	248.1	334.0	398.0	422.9
80°	128.0	198.2	284.0	348.0	374.5
82.5°	81.2	152.9	241.9	302.8	327.7
85°	42.1	115.5	202.9	266.9	290.3
87.5°	14.0	87.4	174.8	237.2	260.6
90°	1.6	73.3	159.2	221.6	245.0
92.5°	0.0	70.2	154.5	213.8	235.7
95°	0.0	67.1	149.8	207.6	229.4
97.5°	0.0	65.5	143.6	201.3	223.2
100°	0.0	62.4	140.5	196.6	216.9
102.5°	0.0	60.9	135.8	190.4	210.7
105°	0.0	59.3	131.1	184.2	204.4



TEST NUMBER: P709752

CATALOG NUMBER: 4AWS-L3C39-SQR-UNV-3500K-MID

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	53.1	118.6	167.0	184.2
115°	1.6	51.5	113.9	159.2	176.3
117.5°	1.6	48.4	110.8	152.9	168.5
120°	1.6	46.8	106.1	148.3	162.3
122.5°	1.6	45.3	101.4	140.5	156.1
125°	1.6	42.1	96.8	134.2	148.3
127.5°	1.6	39.0	92.1	128.0	140.5
130°	1.6	37.5	87.4	120.2	134.2
132.5°	1.6	34.3	82.7	115.5	126.4
135°	1.6	32.8	78.0	107.7	120.2
137.5°	1.6	29.7	73.3	101.4	112.4
140°	1.6	26.5	67.1	95.2	104.6
142.5°	1.6	25.0	62.4	87.4	96.8
145°	3.1	21.8	56.2	79.6	89.0
147.5°	3.1	20.3	49.9	73.3	81.2
150°	3.1	17.2	43.7	65.5	73.3
152.5°	3.1	15.6	39.0	57.7	65.5
155°	3.1	12.5	32.8	51.5	56.2
157.5°	3.1	10.9	28.1	43.7	49.9
160°	3.1	9.4	23.4	37.5	42.1
162.5°	3.1	7.8	18.7	29.7	34.3
165°	3.1	6.2	14.0	21.8	26.5
167.5°	3.1	4.7	10.9	15.6	20.3
170°	3.1	4.7	7.8	10.9	15.6
172.5°	3.1	3.1	4.7	6.2	9.4
175°	3.1	3.1	3.1	3.1	3.1
177.5°	3.1	3.1	1.6	1.6	0.0
180°	1.6	1.6	1.6	1.6	1.6



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	0.0	56.2	128.0	177.9	196.6
110°	1.6	54.6	123.3	171.7	190.4



(END OF REPORT)