

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: P709755

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

Issue Date: 9/26/2023

Test Information

Test Method: LM-79-08
Report Number: P709755
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-MID
Description: 4foot, Adapt Surface Wrap with, SQR lens and MID lumen setting,
4000K, 90CRI

Light Source: -
Ballast/Driver: -

Summary

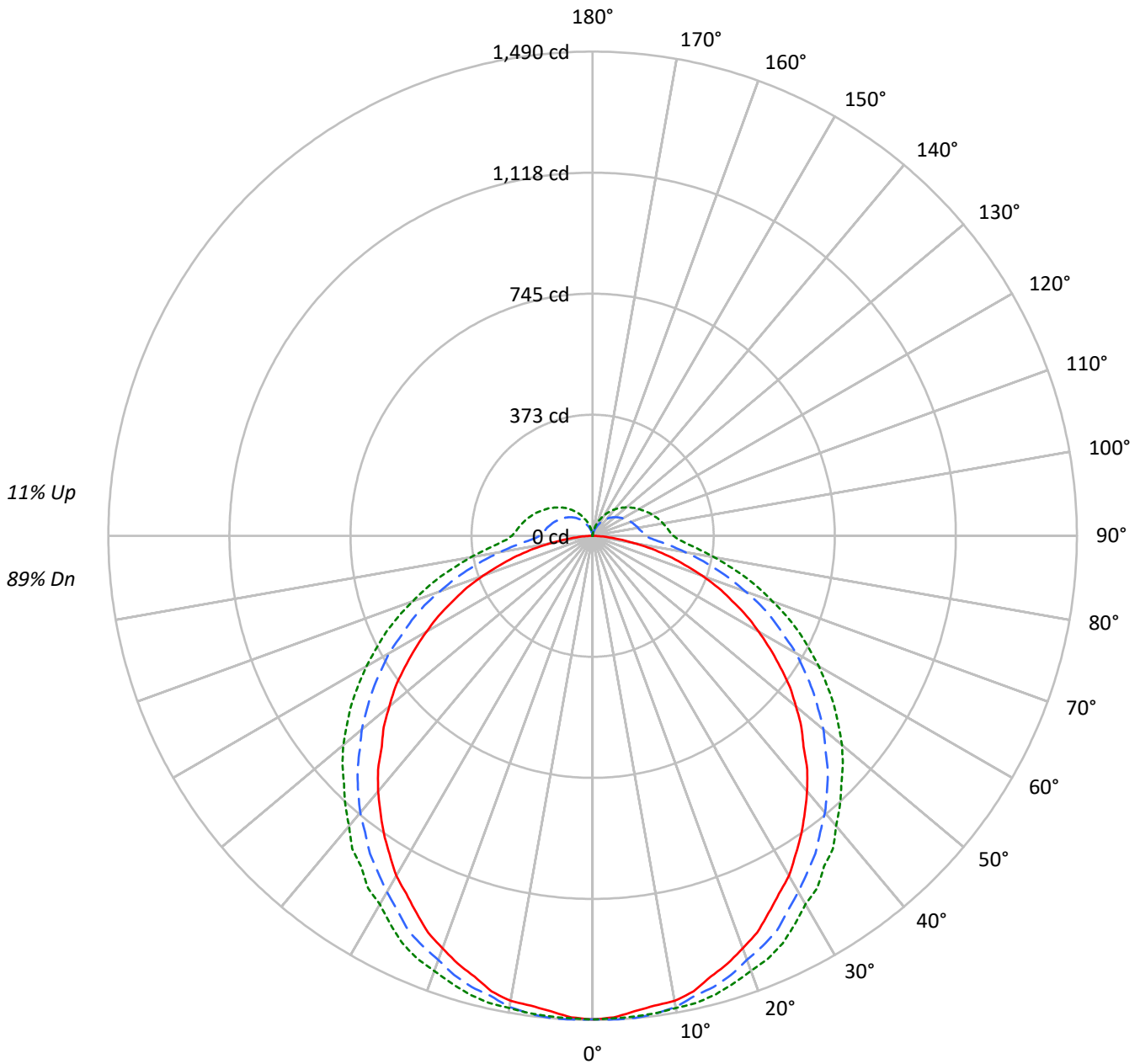
Lumens per Lamp: N/A
Luminaire Lumens: 5194.0 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.46' x L: 3.71' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 39
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

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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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89				89				
1	105	100	95	91	101	96	92	88	90	87	83	84	82	79	79	77	75	72				72				
2	95	86	79	73	91	83	77	71	78	73	68	73	69	65	69	65	62	59				59				
3	86	75	67	60	83	73	65	59	68	62	56	64	59	54	60	56	52	49				49				
4	79	67	57	51	76	64	56	50	61	53	48	57	51	46	54	48	44	42				42				
5	72	59	50	43	69	57	49	43	54	47	41	51	45	40	48	43	38	36				36				
6	67	53	44	38	64	52	43	37	49	41	36	46	40	35	43	38	34	31				31				
7	62	48	39	33	59	47	38	33	44	37	32	42	35	31	40	34	30	27				27				
8	57	44	35	29	55	43	35	29	40	33	28	38	32	27	36	31	27	24				24				
9	54	40	32	26	52	39	31	26	37	30	25	35	29	25	34	28	24	22				22				
10	50	37	29	24	48	36	29	23	34	28	23	33	27	22	31	26	22	20				20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9387	9387	9387
5°	9276	9265	9193
10°	9256	9098	9035
15°	9092	8894	8919
20°	8960	8667	8735
25°	8783	8511	8586
30°	8639	8230	8289
35°	8431	8029	8083
40°	8228	7798	7873
45°	7926	7560	7653
50°	7711	7292	7494
55°	7414	7005	7261
60°	7046	6709	6981
65°	6600	6340	6706
70°	6053	5872	6321
75°	5262	5368	5976
80°	3981	4806	5561
85°	2256	4415	5347



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.2	2.7
10°-20°	404.9	7.8
20°-30°	614.1	11.8
30°-40°	743.3	14.3
40°-50°	782.5	15.1
50°-60°	728.9	14.0
60°-70°	594.5	11.4
70°-80°	400.9	7.7
80°-90°	215.4	4.1
90°-100°	149.3	2.9
100°-110°	127.8	2.5
110°-120°	104.3	2.0
120°-130°	79.3	1.5
130°-140°	54.9	1.1
140°-150°	32.7	0.6
150°-160°	15.2	0.3
160°-170°	4.5	0.1
170°-180°	0.5	0.0
0°-30°	1160.2	22.3
0°-40°	1903.5	36.6
0°-60°	3414.8	65.7
0°-90°	4625.6	89.1
90°-120°	381.4	7.3
90°-150°	548.2	10.6
90°-180°	568.0	10.9
0°-180°	5194.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1488	1488	1488	1488	1488	
5°	1469	1485	1490	1490	1485	140
15°	1404	1420	1438	1450	1461	397
25°	1281	1306	1341	1354	1384	591
35°	1120	1147	1194	1229	1242	700
45°	917	962	1023	1068	1082	712
55°	705	756	826	878	906	631
65°	473	531	614	674	701	470
75°	242	305	391	454	484	256
85°	43	117	206	270	294	54
90°	2	74	161	225	248	2
95°	0	68	152	210	232	0
105°	0	60	133	187	207	0
115°	2	52	116	161	179	2
125°	2	43	98	136	150	1
135°	2	33	79	109	122	1
145°	3	22	57	81	90	2
155°	3	13	33	52	57	1
165°	3	6	14	22	27	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°	1488.3	1488.3	1488.3	<i>1488.3</i>	1488.3
2.5°	<i>1483.6</i>	<i>1485.1</i>	<i>1489.9</i>	<i>1494.6</i>	<i>1486.7</i>
5°	1469.3	1485.1	1489.9	<i>1489.9</i>	1485.1
7.5°	1458.2	1472.5	1483.6	<i>1480.4</i>	1482.0
10°	1453.5	1461.4	1472.5	<i>1480.4</i>	1475.6
12.5°	1436.1	1440.9	1450.3	<i>1463.0</i>	1472.5
15°	1404.5	1420.3	1437.7	<i>1450.3</i>	1461.4
17.5°	1380.7	1395.0	1417.1	<i>1428.2</i>	1444.0
20°	1350.7	1366.5	1388.7	<i>1412.4</i>	1425.0
22.5°	1322.2	1336.5	1366.5	<i>1382.3</i>	1409.2
25°	1281.1	1306.4	1341.2	<i>1353.9</i>	1383.9
27.5°	1241.6	1270.0	1300.1	<i>1334.9</i>	1347.5
30°	1208.4	1228.9	1265.3	<i>1295.3</i>	1309.6
32.5°	1162.5	1191.0	1228.9	<i>1265.3</i>	1285.9
35°	1119.8	1146.7	1194.1	<i>1228.9</i>	1241.6
37.5°	1072.3	1102.4	1149.8	<i>1191.0</i>	1214.7
40°	1026.5	1059.7	1111.9	<i>1151.4</i>	1165.6
42.5°	977.4	1012.2	1067.6	<i>1113.5</i>	1126.1
45°	917.3	961.6	1023.3	<i>1067.6</i>	1081.8
47.5°	871.5	912.6	971.1	<i>1023.3</i>	1043.9
50°	816.1	862.0	926.8	<i>974.3</i>	1001.2
52.5°	765.5	808.2	874.6	<i>920.5</i>	952.1
55°	705.4	756.0	825.6	<i>877.8</i>	906.3
57.5°	646.9	699.1	771.8	<i>825.6</i>	854.1
60°	589.9	643.7	722.8	<i>776.6</i>	803.5
62.5°	534.6	591.5	662.7	<i>727.5</i>	749.7
65°	472.9	531.4	613.7	<i>673.8</i>	700.7
67.5°	419.1	471.3	559.9	<i>615.2</i>	645.3
70°	357.4	419.1	499.8	<i>563.1</i>	588.4
72.5°	297.3	362.2	446.0	<i>510.9</i>	536.2
75°	242.0	305.3	390.7	<i>453.9</i>	484.0
77.5°	186.6	251.5	338.5	<i>403.3</i>	428.6
80°	129.7	200.9	287.9	<i>352.7</i>	379.6
82.5°	82.2	155.0	245.2	<i>306.8</i>	332.1
85°	42.7	117.0	205.6	<i>270.5</i>	294.2
87.5°	14.2	88.6	177.1	<i>240.4</i>	264.1
90°	1.6	74.3	161.3	<i>224.6</i>	248.3
92.5°	0.0	71.2	156.6	<i>216.7</i>	238.8
95°	0.0	68.0	151.8	<i>210.4</i>	232.5
97.5°	0.0	66.4	145.5	<i>204.0</i>	226.2
100°	0.0	63.3	142.3	<i>199.3</i>	219.8
102.5°	0.0	61.7	137.6	<i>193.0</i>	213.5
105°	0.0	60.1	132.9	<i>186.6</i>	207.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	53.8	120.2	169.2	186.6
115°	1.6	52.2	115.5	161.3	178.7
117.5°	1.6	49.0	112.3	155.0	170.8
120°	1.6	47.4	107.5	150.3	164.5
122.5°	1.6	45.9	102.8	142.3	158.2
125°	1.6	42.7	98.1	136.0	150.3
127.5°	1.6	39.5	93.3	129.7	142.3
130°	1.6	38.0	88.6	121.8	136.0
132.5°	1.6	34.8	83.8	117.0	128.1
135°	1.6	33.2	79.1	109.1	121.8
137.5°	1.6	30.1	74.3	102.8	113.9
140°	1.6	26.9	68.0	96.5	106.0
142.5°	1.6	25.3	63.3	88.6	98.1
145°	3.2	22.1	56.9	80.7	90.2
147.5°	3.2	20.6	50.6	74.3	82.2
150°	3.2	17.4	44.3	66.4	74.3
152.5°	3.2	15.8	39.5	58.5	66.4
155°	3.2	12.7	33.2	52.2	56.9
157.5°	3.2	11.1	28.5	44.3	50.6
160°	3.2	9.5	23.7	38.0	42.7
162.5°	3.2	7.9	19.0	30.1	34.8
165°	3.2	6.3	14.2	22.1	26.9
167.5°	3.2	4.7	11.1	15.8	20.6
170°	3.2	4.7	7.9	11.1	15.8
172.5°	3.2	3.2	4.7	6.3	9.5
175°	3.2	3.2	3.2	3.2	3.2
177.5°	3.2	3.2	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	56.9	129.7	180.3	199.3
110°	1.6	55.4	124.9	174.0	193.0



(END OF REPORT)