

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: P709728

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

Issue Date: 9/26/2023

Test Information

Test Method: LM-79-08
Report Number: P709728
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-MID
Description: 4foot, Adapt Surface Wrap with, SQR lens and MID lumen setting,
4000K, 80CRI

Light Source: -
Ballast/Driver: -

Summary

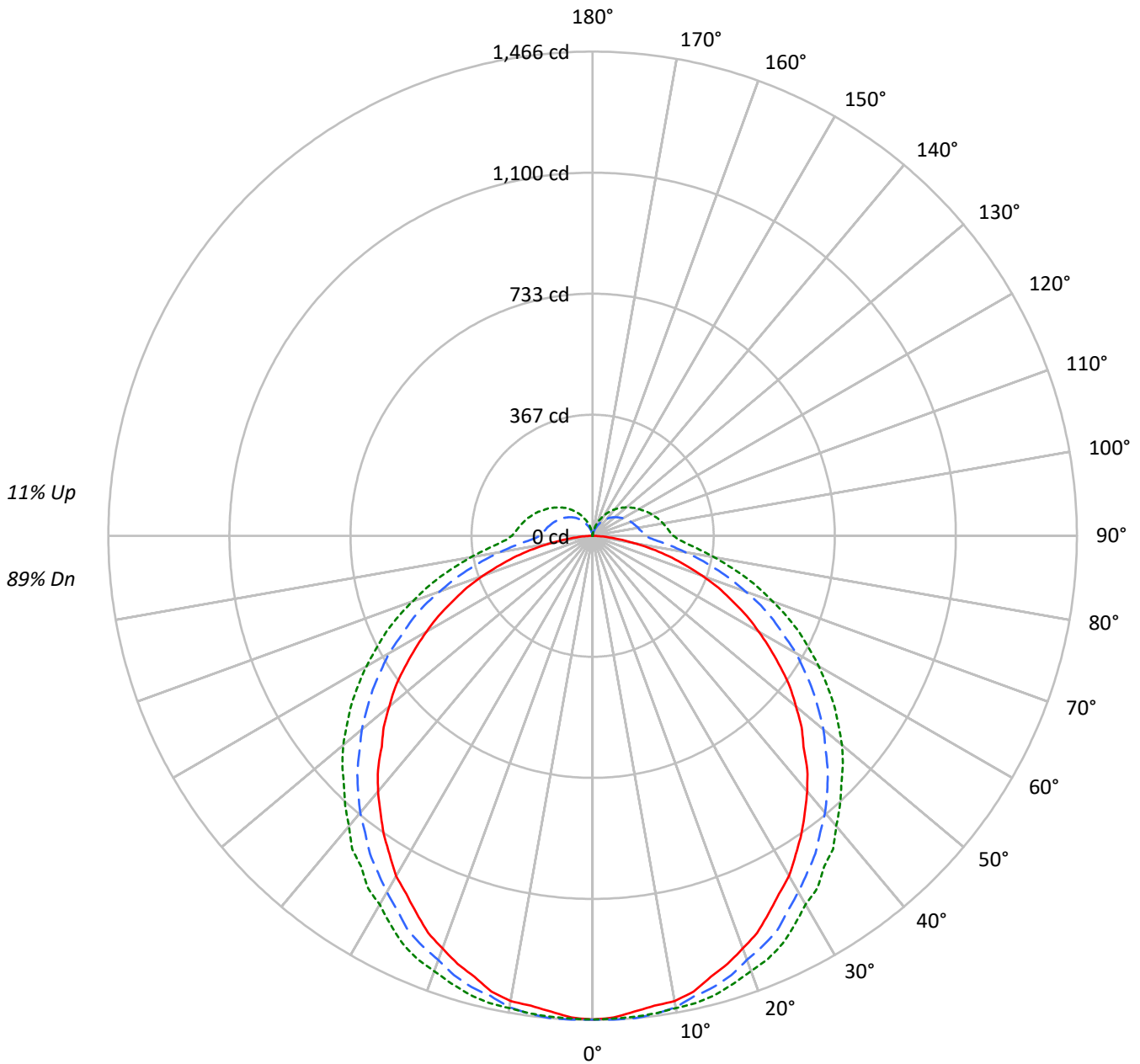
Lumens per Lamp: N/A
Luminaire Lumens: 5112.0 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.46' x L: 3.71' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 37
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				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°	9239	9239	9239
5°	9130	9119	9048
10°	9110	8954	8892
15°	8948	8753	8778
20°	8819	8530	8597
25°	8645	8376	8451
30°	8503	8100	8158
35°	8298	7902	7956
40°	8099	7675	7749
45°	7801	7440	7532
50°	7589	7177	7376
55°	7298	6894	7146
60°	6935	6603	6871
65°	6495	6240	6600
70°	5958	5779	6221
75°	5180	5282	5881
80°	3916	4729	5473
85°	2219	4347	5262



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.0	2.7
10°-20°	398.5	7.8
20°-30°	604.4	11.8
30°-40°	731.5	14.3
40°-50°	770.1	15.1
50°-60°	717.3	14.0
60°-70°	585.1	11.4
70°-80°	394.5	7.7
80°-90°	212.0	4.1
90°-100°	147.0	2.9
100°-110°	125.8	2.5
110°-120°	102.6	2.0
120°-130°	78.0	1.5
130°-140°	54.0	1.1
140°-150°	32.2	0.6
150°-160°	15.0	0.3
160°-170°	4.4	0.1
170°-180°	0.5	0.0
0°-30°	1141.9	22.3
0°-40°	1873.4	36.6
0°-60°	3360.9	65.7
0°-90°	4552.6	89.1
90°-120°	375.4	7.3
90°-150°	539.6	10.6
90°-180°	559.0	10.9
0°-180°	5112.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1465	1465	1465	1465	1465	
5°	1446	1462	1466	1466	1462	138
15°	1382	1398	1415	1427	1438	391
25°	1261	1286	1320	1332	1362	582
35°	1102	1129	1175	1210	1222	689
45°	903	946	1007	1051	1065	700
55°	694	744	813	864	892	621
65°	465	523	604	663	690	463
75°	238	300	384	447	476	252
85°	42	115	202	266	290	53
90°	2	73	159	221	244	2
95°	0	67	149	207	229	0
105°	0	59	131	184	204	0
115°	2	51	114	159	176	2
125°	2	42	96	134	148	1
135°	2	33	78	107	120	1
145°	3	22	56	79	89	2
155°	3	12	33	51	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°	1464.8	1464.8	1464.8	1464.8	1464.8
2.5°	1460.1	1461.7	1466.4	1471.0	1463.2
5°	1446.1	1461.7	1466.4	1466.4	1461.7
7.5°	1435.2	1449.2	1460.1	1457.0	1458.6
10°	1430.6	1438.3	1449.2	1457.0	1452.3
12.5°	1413.4	1418.1	1427.4	1439.9	1449.2
15°	1382.3	1397.9	1415.0	1427.4	1438.3
17.5°	1359.0	1373.0	1394.8	1405.6	1421.2
20°	1329.4	1344.9	1366.7	1390.1	1402.5
22.5°	1301.4	1315.4	1344.9	1360.5	1387.0
25°	1260.9	1285.8	1320.0	1332.5	1362.1
27.5°	1222.0	1250.0	1279.6	1313.8	1326.3
30°	1189.3	1209.5	1245.3	1274.9	1288.9
32.5°	1144.1	1172.2	1209.5	1245.3	1265.6
35°	1102.1	1128.6	1175.3	1209.5	1222.0
37.5°	1055.4	1085.0	1131.7	1172.2	1195.5
40°	1010.3	1043.0	1094.3	1133.2	1147.2
42.5°	962.0	996.3	1050.7	1095.9	1108.3
45°	902.9	946.4	1007.1	1050.7	1064.7
47.5°	857.7	898.2	955.8	1007.1	1027.4
50°	803.2	848.4	912.2	958.9	985.4
52.5°	753.4	795.4	860.8	906.0	937.1
55°	694.3	744.1	812.6	863.9	892.0
57.5°	636.7	688.0	759.6	812.6	840.6
60°	580.6	633.6	711.4	764.3	790.8
62.5°	526.1	582.2	652.2	716.1	737.8
65°	465.4	523.0	604.0	663.1	689.6
67.5°	412.5	463.9	551.1	605.5	635.1
70°	351.8	412.5	491.9	554.2	579.1
72.5°	292.6	356.5	439.0	502.8	527.7
75°	238.2	300.4	384.5	446.8	476.3
77.5°	183.7	247.5	333.1	396.9	421.9
80°	127.6	197.7	283.3	347.1	373.6
82.5°	80.9	152.6	241.3	302.0	326.9
85°	42.0	115.2	202.4	266.2	289.5
87.5°	14.0	87.2	174.3	236.6	260.0
90°	1.6	73.2	158.8	221.0	244.4
92.5°	0.0	70.0	154.1	213.3	235.1
95°	0.0	66.9	149.4	207.0	228.8
97.5°	0.0	65.4	143.2	200.8	222.6
100°	0.0	62.3	140.1	196.1	216.4
102.5°	0.0	60.7	135.4	189.9	210.1
105°	0.0	59.2	130.8	183.7	203.9



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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	52.9	118.3	166.6	183.7
115°	1.6	51.4	113.6	158.8	175.9
117.5°	1.6	48.3	110.5	152.6	168.1
120°	1.6	46.7	105.9	147.9	161.9
122.5°	1.6	45.1	101.2	140.1	155.7
125°	1.6	42.0	96.5	133.9	147.9
127.5°	1.6	38.9	91.8	127.6	140.1
130°	1.6	37.4	87.2	119.9	133.9
132.5°	1.6	34.2	82.5	115.2	126.1
135°	1.6	32.7	77.8	107.4	119.9
137.5°	1.6	29.6	73.2	101.2	112.1
140°	1.6	26.5	66.9	95.0	104.3
142.5°	1.6	24.9	62.3	87.2	96.5
145°	3.1	21.8	56.0	79.4	88.7
147.5°	3.1	20.2	49.8	73.2	80.9
150°	3.1	17.1	43.6	65.4	73.2
152.5°	3.1	15.6	38.9	57.6	65.4
155°	3.1	12.5	32.7	51.4	56.0
157.5°	3.1	10.9	28.0	43.6	49.8
160°	3.1	9.3	23.3	37.4	42.0
162.5°	3.1	7.8	18.7	29.6	34.2
165°	3.1	6.2	14.0	21.8	26.5
167.5°	3.1	4.7	10.9	15.6	20.2
170°	3.1	4.7	7.8	10.9	15.6
172.5°	3.1	3.1	4.7	6.2	9.3
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	56.0	127.6	177.5	196.1
110°	1.6	54.5	123.0	171.2	189.9



(END OF REPORT)