

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: P709812

Luminaire Tested: **8AWS-L3C39-SQR-UNV-5000K-MID**

Issue Date: 9/26/2023



Test Information

Test Method: LM-79-08
Report Number: P709812
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: 8AWS-L3C39-SQR-UNV-5000K-MID
Description: 8foot, Adapt Surface Wrap with, SQR lens and MID lumen setting, 5000K, 90CRI

Light Source: -
Ballast/Driver: -

Summary

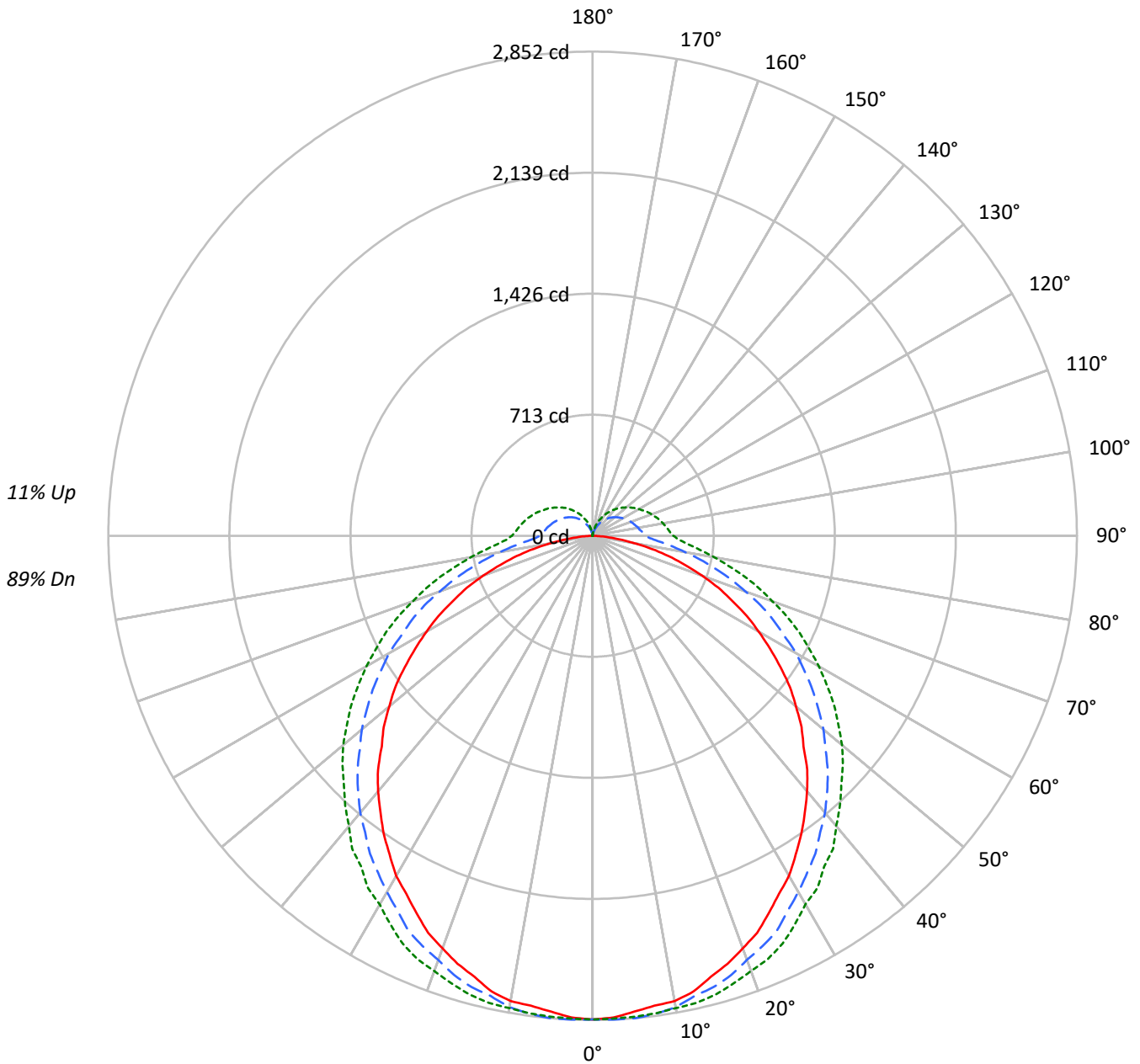
Lumens per Lamp: N/A
Luminaire Lumens: 9944.0 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.46' x L: 7.42' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 71
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									
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°	8986	8986	8986
5°	8892	8878	8800
10°	8886	8726	8649
15°	8741	8538	8538
20°	8628	8328	8362
25°	8471	8187	8219
30°	8346	7925	7935
35°	8161	7740	7738
40°	7982	7526	7537
45°	7708	7306	7326
50°	7521	7058	7173
55°	7258	6791	6950
60°	6930	6517	6682
65°	6530	6174	6419
70°	6041	5736	6050
75°	5324	5264	5721
80°	4131	4741	5323
85°	2498	4397	5118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.3	2.7
10°-20°	775.2	7.8
20°-30°	1175.7	11.8
30°-40°	1423.0	14.3
40°-50°	1498.1	15.1
50°-60°	1395.4	14.0
60°-70°	1138.2	11.4
70°-80°	767.4	7.7
80°-90°	412.4	4.1
90°-100°	285.9	2.9
100°-110°	244.7	2.5
110°-120°	199.6	2.0
120°-130°	151.7	1.5
130°-140°	105.0	1.1
140°-150°	62.7	0.6
150°-160°	29.2	0.3
160°-170°	8.6	0.1
170°-180°	0.9	0.0
0°-30°	2221.2	22.3
0°-40°	3644.2	36.6
0°-60°	6537.7	65.7
0°-90°	8855.7	89.1
90°-120°	730.1	7.3
90°-150°	1049.6	10.6
90°-180°	1088.0	10.9
0°-180°	9944.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2849	2849	2849	2849	2849	
5°	2813	2843	2852	2852	2843	268
15°	2689	2719	2752	2777	2798	760
25°	2453	2501	2568	2592	2650	1131
35°	2144	2195	2286	2353	2377	1340
45°	1756	1841	1959	2044	2071	1363
55°	1350	1447	1581	1681	1735	1208
65°	905	1017	1175	1290	1341	900
75°	463	584	748	869	927	489
85°	82	224	394	518	563	103
90°	3	142	309	430	475	5
95°	0	130	291	403	445	0
105°	0	115	254	357	397	0
115°	3	100	221	309	342	3
125°	3	82	188	260	288	3
135°	3	64	151	209	233	2
145°	6	42	109	154	173	3
155°	6	24	64	100	109	3
165°	6	12	27	42	52	2
175°	6	6	6	6	6	1
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2849.4	2849.4	2849.4	2849.4	2849.4
2.5°	2840.3	2843.3	2852.4	2861.5	2846.3
5°	2813.0	2843.3	2852.4	2852.4	2843.3
7.5°	2791.8	2819.1	2840.3	2834.2	2837.3
10°	2782.8	2797.9	2819.1	2834.2	2825.1
12.5°	2749.4	2758.5	2776.7	2800.9	2819.1
15°	2688.9	2719.2	2752.5	2776.7	2797.9
17.5°	2643.5	2670.7	2713.1	2734.3	2764.6
20°	2585.9	2616.2	2658.6	2704.0	2728.3
22.5°	2531.4	2558.7	2616.2	2646.5	2698.0
25°	2452.7	2501.1	2567.8	2592.0	2649.5
27.5°	2377.0	2431.5	2489.0	2555.7	2579.9
30°	2313.4	2352.8	2422.4	2480.0	2507.2
32.5°	2225.6	2280.1	2352.8	2422.4	2461.8
35°	2143.8	2195.3	2286.2	2352.8	2377.0
37.5°	2053.0	2110.5	2201.4	2280.1	2325.5
40°	1965.2	2028.8	2128.7	2204.4	2231.7
42.5°	1871.3	1937.9	2043.9	2131.7	2156.0
45°	1756.3	1841.0	1959.1	2043.9	2071.2
47.5°	1668.4	1747.2	1859.2	1959.1	1998.5
50°	1562.5	1650.3	1774.4	1865.3	1916.7
52.5°	1465.6	1547.3	1674.5	1762.3	1822.9
55°	1350.5	1447.4	1580.6	1680.6	1735.1
57.5°	1238.5	1338.4	1477.7	1580.6	1635.1
60°	1129.5	1232.4	1383.8	1486.8	1538.2
62.5°	1023.5	1132.5	1268.7	1392.9	1435.3
65°	905.4	1017.4	1174.9	1289.9	1341.4
67.5°	802.4	902.4	1071.9	1177.9	1235.4
70°	684.3	802.4	956.9	1078.0	1126.4
72.5°	569.3	693.4	853.9	978.1	1026.5
75°	463.3	584.4	747.9	869.0	926.6
77.5°	357.3	481.5	648.0	772.1	820.6
80°	248.3	384.6	551.1	675.2	726.7
82.5°	157.5	296.7	469.3	587.4	635.9
85°	81.8	224.1	393.6	517.8	563.2
87.5°	27.3	169.6	339.1	460.3	505.7
90°	3.0	142.3	308.9	430.0	475.4
92.5°	0.0	136.3	299.8	414.8	457.2
95°	0.0	130.2	290.7	402.7	445.1
97.5°	0.0	127.2	278.6	390.6	433.0
100°	0.0	121.1	272.5	381.5	420.9
102.5°	0.0	118.1	263.4	369.4	408.8
105°	0.0	115.1	254.4	357.3	396.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.0	103.0	230.1	324.0	357.3
115°	3.0	99.9	221.0	308.9	342.2
117.5°	3.0	93.9	215.0	296.7	327.0
120°	3.0	90.8	205.9	287.7	314.9
122.5°	3.0	87.8	196.8	272.5	302.8
125°	3.0	81.8	187.7	260.4	287.7
127.5°	3.0	75.7	178.7	248.3	272.5
130°	3.0	72.7	169.6	233.2	260.4
132.5°	3.0	66.6	160.5	224.1	245.3
135°	3.0	63.6	151.4	208.9	233.2
137.5°	3.0	57.5	142.3	196.8	218.0
140°	3.0	51.5	130.2	184.7	202.9
142.5°	3.0	48.4	121.1	169.6	187.7
145°	6.1	42.4	109.0	154.4	172.6
147.5°	6.1	39.4	96.9	142.3	157.5
150°	6.1	33.3	84.8	127.2	142.3
152.5°	6.1	30.3	75.7	112.0	127.2
155°	6.1	24.2	63.6	99.9	109.0
157.5°	6.1	21.2	54.5	84.8	96.9
160°	6.1	18.2	45.4	72.7	81.8
162.5°	6.1	15.1	36.3	57.5	66.6
165°	6.1	12.1	27.3	42.4	51.5
167.5°	6.1	9.1	21.2	30.3	39.4
170°	6.1	9.1	15.1	21.2	30.3
172.5°	6.1	6.1	9.1	12.1	18.2
175°	6.1	6.1	6.1	6.1	6.1
177.5°	6.1	6.1	3.0	3.0	0.0
180°	3.0	3.0	3.0	3.0	3.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	0.0	109.0	248.3	345.2	381.5
110°	3.0	106.0	239.2	333.1	369.4



(END OF REPORT)