

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: P709811

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

Issue Date: 9/26/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P709811  
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-LOW  
Description: 8foot, Adapt Surface Wrap with, SQR lens and LOW lumen setting, 5000K, 90CRI  
  
Light Source: -  
Ballast/Driver: -

**Summary**

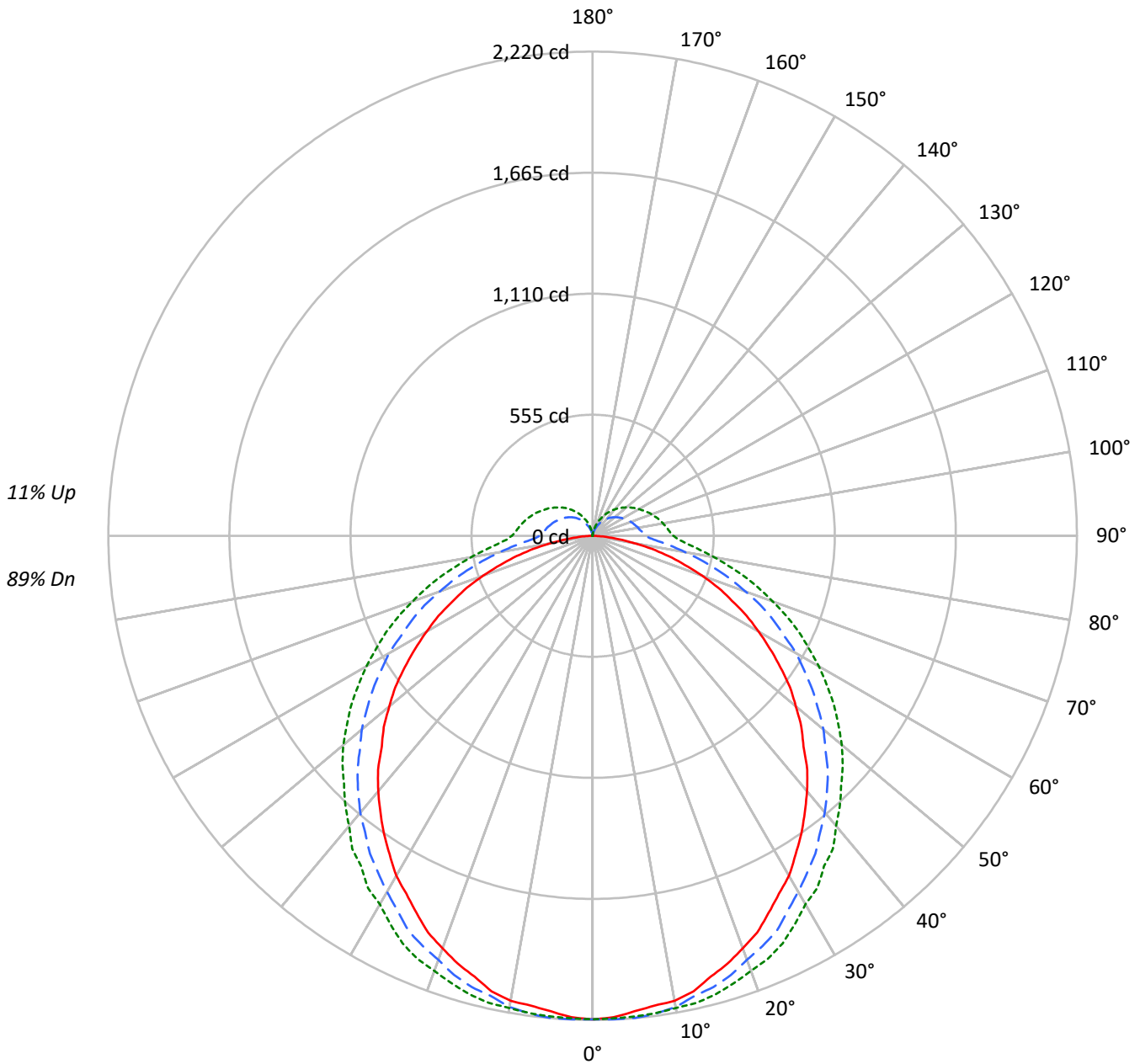
Lumens per Lamp: N/A  
Luminaire Lumens: 7738.0 lumens  
Efficiency: N/A  
Efficacy: 138.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 0.46' x L: 7.42' x H: 0.12')  
CIE Type: Semi-Direct

Input Watts (W): 56  
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									
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°	6993	6993	6993
5°	6920	6908	6848
10°	6914	6790	6730
15°	6802	6644	6644
20°	6714	6481	6507
25°	6592	6371	6396
30°	6495	6167	6175
35°	6350	6023	6021
40°	6211	5857	5865
45°	5998	5685	5701
50°	5852	5492	5582
55°	5648	5284	5408
60°	5392	5071	5200
65°	5081	4804	4995
70°	4701	4463	4708
75°	4143	4096	4451
80°	3214	3689	4142
85°	1942	3422	3983



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.4	2.7
10°-20°	603.2	7.8
20°-30°	914.9	11.8
30°-40°	1107.3	14.3
40°-50°	1165.7	15.1
50°-60°	1085.8	14.0
60°-70°	885.7	11.4
70°-80°	597.2	7.7
80°-90°	320.9	4.1
90°-100°	222.5	2.9
100°-110°	190.4	2.5
110°-120°	155.3	2.0
120°-130°	118.1	1.5
130°-140°	81.8	1.1
140°-150°	48.8	0.6
150°-160°	22.7	0.3
160°-170°	6.7	0.1
170°-180°	0.7	0.0
0°-30°	1728.5	22.3
0°-40°	2835.8	36.6
0°-60°	5087.4	65.7
0°-90°	6891.2	89.1
90°-120°	568.2	7.3
90°-150°	816.8	10.6
90°-180°	847.0	10.9
0°-180°	7738.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2217	2217	2217	2217	2217	
5°	2189	2212	2220	2220	2212	208
15°	2092	2116	2142	2161	2177	591
25°	1909	1946	1998	2017	2062	880
35°	1668	1708	1779	1831	1850	1043
45°	1367	1433	1524	1590	1612	1060
55°	1051	1126	1230	1308	1350	940
65°	704	792	914	1004	1044	700
75°	360	455	582	676	721	381
85°	64	174	306	403	438	80
90°	2	111	240	335	370	4
95°	0	101	226	313	346	0
105°	0	90	198	278	309	0
115°	2	78	172	240	266	2
125°	2	64	146	203	224	2
135°	2	50	118	163	181	2
145°	5	33	85	120	134	2
155°	5	19	50	78	85	2
165°	5	9	21	33	40	1
175°	5	5	5	5	5	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2217.3	2217.3	2217.3	2217.3	2217.3
2.5°	2210.2	2212.5	2219.6	2226.7	2214.9
5°	2189.0	2212.5	2219.6	2219.6	2212.5
7.5°	2172.5	2193.7	2210.2	2205.5	2207.8
10°	2165.4	2177.2	2193.7	2205.5	2198.4
12.5°	2139.5	2146.6	2160.7	2179.6	2193.7
15°	2092.4	2115.9	2141.9	2160.7	2177.2
17.5°	2057.0	2078.2	2111.2	2127.7	2151.3
20°	2012.3	2035.8	2068.8	2104.2	2123.0
22.5°	1969.9	1991.1	2035.8	2059.4	2099.4
25°	1908.6	1946.3	1998.1	2017.0	2061.7
27.5°	1849.7	1892.1	1936.9	1988.7	2007.6
30°	1800.2	1830.8	1885.0	1929.8	1951.0
32.5°	1731.9	1774.3	1830.8	1885.0	1915.7
35°	1668.2	1708.3	1779.0	1830.8	1849.7
37.5°	1597.6	1642.3	1713.0	1774.3	1809.6
40°	1529.2	1578.7	1656.5	1715.4	1736.6
42.5°	1456.2	1508.0	1590.5	1658.8	1677.7
45°	1366.6	1432.6	1524.5	1590.5	1611.7
47.5°	1298.3	1359.6	1446.8	1524.5	1555.1
50°	1215.8	1284.2	1380.8	1451.5	1491.5
52.5°	1140.4	1204.1	1303.0	1371.4	1418.5
55°	1050.9	1126.3	1230.0	1307.7	1350.1
57.5°	963.7	1041.5	1149.9	1230.0	1272.4
60°	878.9	959.0	1076.8	1156.9	1197.0
62.5°	796.4	881.2	987.3	1083.9	1116.9
65°	704.5	791.7	914.2	1003.8	1043.8
67.5°	624.4	702.2	834.1	916.6	961.4
70°	532.5	624.4	744.6	838.8	876.5
72.5°	443.0	539.6	664.5	761.1	798.8
75°	360.5	454.8	582.0	676.3	721.0
77.5°	278.0	374.6	504.2	600.9	638.6
80°	193.2	299.2	428.8	525.5	565.5
82.5°	122.5	230.9	365.2	457.1	494.8
85°	63.6	174.4	306.3	402.9	438.3
87.5°	21.2	132.0	263.9	358.2	393.5
90°	2.4	110.7	240.3	334.6	369.9
92.5°	0.0	106.0	233.3	322.8	355.8
95°	0.0	101.3	226.2	313.4	346.4
97.5°	0.0	99.0	216.8	304.0	336.9
100°	0.0	94.3	212.1	296.9	327.5
102.5°	0.0	91.9	205.0	287.5	318.1
105°	0.0	89.5	197.9	278.0	308.7



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CATALOG NUMBER: 8AWS-L3C39-SQR-UNV-5000K-LOW

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.4	80.1	179.1	252.1	278.0
115°	2.4	77.8	172.0	240.3	266.3
117.5°	2.4	73.0	167.3	230.9	254.5
120°	2.4	70.7	160.2	223.8	245.1
122.5°	2.4	68.3	153.2	212.1	235.6
125°	2.4	63.6	146.1	202.6	223.8
127.5°	2.4	58.9	139.0	193.2	212.1
130°	2.4	56.6	132.0	181.4	202.6
132.5°	2.4	51.8	124.9	174.4	190.9
135°	2.4	49.5	117.8	162.6	181.4
137.5°	2.4	44.8	110.7	153.2	169.7
140°	2.4	40.1	101.3	143.7	157.9
142.5°	2.4	37.7	94.3	132.0	146.1
145°	4.7	33.0	84.8	120.2	134.3
147.5°	4.7	30.6	75.4	110.7	122.5
150°	4.7	25.9	66.0	99.0	110.7
152.5°	4.7	23.6	58.9	87.2	99.0
155°	4.7	18.9	49.5	77.8	84.8
157.5°	4.7	16.5	42.4	66.0	75.4
160°	4.7	14.1	35.3	56.6	63.6
162.5°	4.7	11.8	28.3	44.8	51.8
165°	4.7	9.4	21.2	33.0	40.1
167.5°	4.7	7.1	16.5	23.6	30.6
170°	4.7	7.1	11.8	16.5	23.6
172.5°	4.7	4.7	7.1	9.4	14.1
175°	4.7	4.7	4.7	4.7	4.7
177.5°	4.7	4.7	2.4	2.4	0.0
180°	2.4	2.4	2.4	2.4	2.4



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	0.0	84.8	193.2	268.6	296.9
110°	2.4	82.5	186.1	259.2	287.5



(END OF REPORT)