

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: P709780

Luminaire Tested: **8AWS-L3C3-SQR-UNV-4000K-HI**

Issue Date: 9/26/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P709780  
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-L3C3-SQR-UNV-4000K-HI  
Description: 8foot, Adapt Surface Wrap with, SQR lens and HI lumen setting,  
4000K, 80CRI  
  
Light Source: -  
Ballast/Driver: -

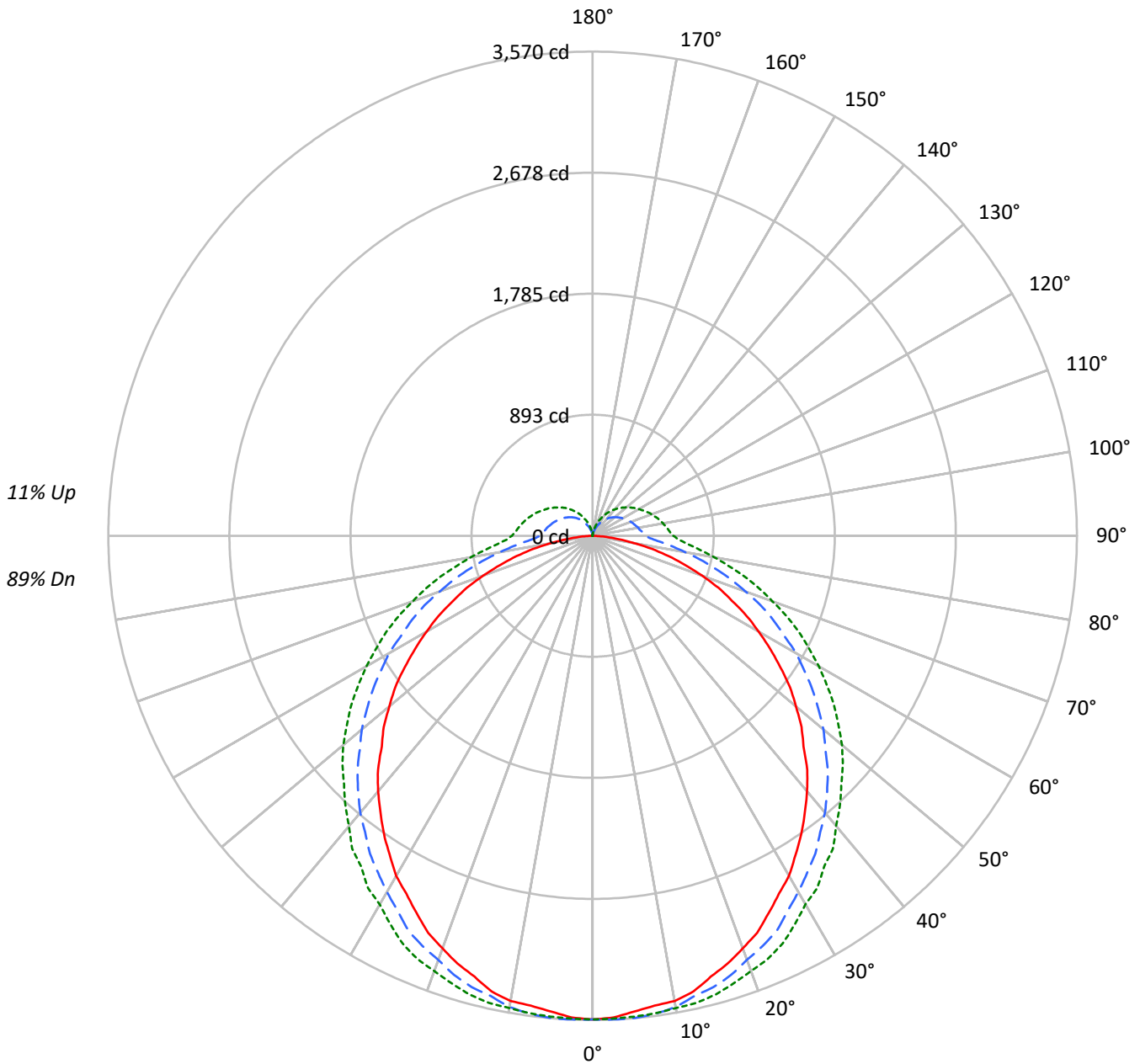
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12446.0 lumens  
Efficiency: N/A  
Efficacy: 148.2 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): 84  
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

TEST NUMBER: P709780  
CATALOG NUMBER: 8AWS-L3C3-SQR-UNV-4000K-HI

### 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°	11247	11247	11247
5°	11130	11111	11014
10°	11121	10922	10825
15°	10940	10687	10686
20°	10798	10424	10466
25°	10602	10247	10288
30°	10446	9919	9931
35°	10215	9687	9685
40°	9990	9420	9434
45°	9647	9145	9169
50°	9413	8834	8979
55°	9084	8499	8699
60°	8673	8157	8364
65°	8173	7727	8034
70°	7561	7179	7572
75°	6664	6589	7160
80°	5170	5934	6662
85°	3124	5504	6406



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	338.3	2.7
10°-20°	970.3	7.8
20°-30°	1471.5	11.8
30°-40°	1781.0	14.3
40°-50°	1875.0	15.1
50°-60°	1746.5	14.0
60°-70°	1424.6	11.4
70°-80°	960.5	7.7
80°-90°	516.2	4.1
90°-100°	357.8	2.9
100°-110°	306.2	2.5
110°-120°	249.8	2.0
120°-130°	189.9	1.5
130°-140°	131.5	1.1
140°-150°	78.4	0.6
150°-160°	36.5	0.3
160°-170°	10.8	0.1
170°-180°	1.1	0.0
0°-30°	2780.1	22.3
0°-40°	4561.1	36.6
0°-60°	8182.6	65.7
0°-90°	11083.9	89.1
90°-120°	913.9	7.3
90°-150°	1313.7	10.6
90°-180°	1362.0	10.9
0°-180°	12446.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3566	3566	3566	3566	3566	
5°	3521	3559	3570	3570	3559	335
15°	3365	3403	3445	3475	3502	951
25°	3070	3130	3214	3244	3316	1416
35°	2683	2748	2861	2945	2975	1678
45°	2198	2304	2452	2558	2592	1705
55°	1690	1812	1978	2103	2172	1511
65°	1133	1273	1470	1614	1679	1126
75°	580	732	936	1088	1160	612
85°	102	280	493	648	705	128
90°	4	178	387	538	595	6
95°	0	163	364	504	557	0
105°	0	144	318	447	496	0
115°	4	125	277	387	428	4
125°	4	102	235	326	360	3
135°	4	80	190	262	292	3
145°	8	53	136	193	216	4
155°	8	30	80	125	136	4
165°	8	15	34	53	64	2
175°	8	8	8	8	8	1
180°	4	4	4	4	4	



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CATALOG NUMBER: 8AWS-L3C3-SQR-UNV-4000K-HI

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3566.3	3566.3	3566.3	3566.3	3566.3
2.5°	3554.9	3558.7	3570.1	3581.5	3562.5
5°	3520.8	3558.7	3570.1	3570.1	3558.7
7.5°	3494.3	3528.4	3554.9	3547.4	3551.1
10°	3482.9	3501.9	3528.4	3547.4	3536.0
12.5°	3441.2	3452.6	3475.3	3505.7	3528.4
15°	3365.4	3403.3	3445.0	3475.3	3501.9
17.5°	3308.6	3342.7	3395.8	3422.3	3460.2
20°	3236.6	3274.5	3327.5	3384.4	3414.7
22.5°	3168.4	3202.5	3274.5	3312.4	3376.8
25°	3069.8	3130.5	3213.8	3244.2	3316.2
27.5°	2975.1	3043.3	3115.3	3198.7	3229.0
30°	2895.5	2944.8	3031.9	3103.9	3138.0
32.5°	2785.6	2853.8	2944.8	3031.9	3081.2
35°	2683.3	2747.7	2861.4	2944.8	2975.1
37.5°	2569.6	2641.6	2755.3	2853.8	2910.6
40°	2459.6	2539.2	2664.3	2759.1	2793.2
42.5°	2342.2	2425.5	2558.2	2668.1	2698.4
45°	2198.1	2304.3	2452.1	2558.2	2592.3
47.5°	2088.2	2186.8	2327.0	2452.1	2501.3
50°	1955.6	2065.5	2220.9	2334.6	2399.0
52.5°	1834.3	1936.6	2095.8	2205.7	2281.5
55°	1690.3	1811.6	1978.3	2103.4	2171.6
57.5°	1550.1	1675.1	1849.5	1978.3	2046.5
60°	1413.6	1542.5	1732.0	1860.8	1925.3
62.5°	1281.0	1417.4	1588.0	1743.4	1796.4
65°	1133.2	1273.4	1470.5	1614.5	1678.9
67.5°	1004.3	1129.4	1341.6	1474.3	1546.3
70°	856.5	1004.3	1197.6	1349.2	1409.8
72.5°	712.5	867.9	1068.8	1224.1	1284.8
75°	579.9	731.5	936.1	1087.7	1159.7
77.5°	447.2	602.6	811.0	966.4	1027.1
80°	310.8	481.3	689.8	845.1	909.6
82.5°	197.1	371.4	587.4	735.2	795.9
85°	102.3	280.5	492.7	648.1	704.9
87.5°	34.1	212.2	424.5	576.1	632.9
90°	3.8	178.1	386.6	538.2	595.0
92.5°	0.0	170.5	375.2	519.2	572.3
95°	0.0	163.0	363.8	504.1	557.1
97.5°	0.0	159.2	348.7	488.9	542.0
100°	0.0	151.6	341.1	477.5	526.8
102.5°	0.0	147.8	329.7	462.4	511.6
105°	0.0	144.0	318.4	447.2	496.5



TEST NUMBER: P709780

CATALOG NUMBER: 8AWS-L3C3-SQR-UNV-4000K-HI

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.8	128.9	288.0	405.5	447.2
115°	3.8	125.1	276.7	386.6	428.3
117.5°	3.8	117.5	269.1	371.4	409.3
120°	3.8	113.7	257.7	360.0	394.2
122.5°	3.8	109.9	246.3	341.1	379.0
125°	3.8	102.3	235.0	325.9	360.0
127.5°	3.8	94.7	223.6	310.8	341.1
130°	3.8	91.0	212.2	291.8	325.9
132.5°	3.8	83.4	200.9	280.5	307.0
135°	3.8	79.6	189.5	261.5	291.8
137.5°	3.8	72.0	178.1	246.3	272.9
140°	3.8	64.4	163.0	231.2	253.9
142.5°	3.8	60.6	151.6	212.2	235.0
145°	7.6	53.1	136.4	193.3	216.0
147.5°	7.6	49.3	121.3	178.1	197.1
150°	7.6	41.7	106.1	159.2	178.1
152.5°	7.6	37.9	94.7	140.2	159.2
155°	7.6	30.3	79.6	125.1	136.4
157.5°	7.6	26.5	68.2	106.1	121.3
160°	7.6	22.7	56.8	91.0	102.3
162.5°	7.6	18.9	45.5	72.0	83.4
165°	7.6	15.2	34.1	53.1	64.4
167.5°	7.6	11.4	26.5	37.9	49.3
170°	7.6	11.4	18.9	26.5	37.9
172.5°	7.6	7.6	11.4	15.2	22.7
175°	7.6	7.6	7.6	7.6	7.6
177.5°	7.6	7.6	3.8	3.8	0.0
180°	3.8	3.8	3.8	3.8	3.8



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	0.0	136.4	310.8	432.0	477.5
110°	3.8	132.6	299.4	416.9	462.4



(END OF REPORT)