

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: P709807

Luminaire Tested: **8AWS-L3C39-SQR-UNV-4000K-HI**

Issue Date: 9/26/2023

Test Information

Test Method: LM-79-08
Report Number: P709807
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-4000K-HI
Description: 8foot, Adapt Surface Wrap with, SQR lens and HI lumen setting,
4000K, 90CRI

Light Source: -
Ballast/Driver: -

Summary

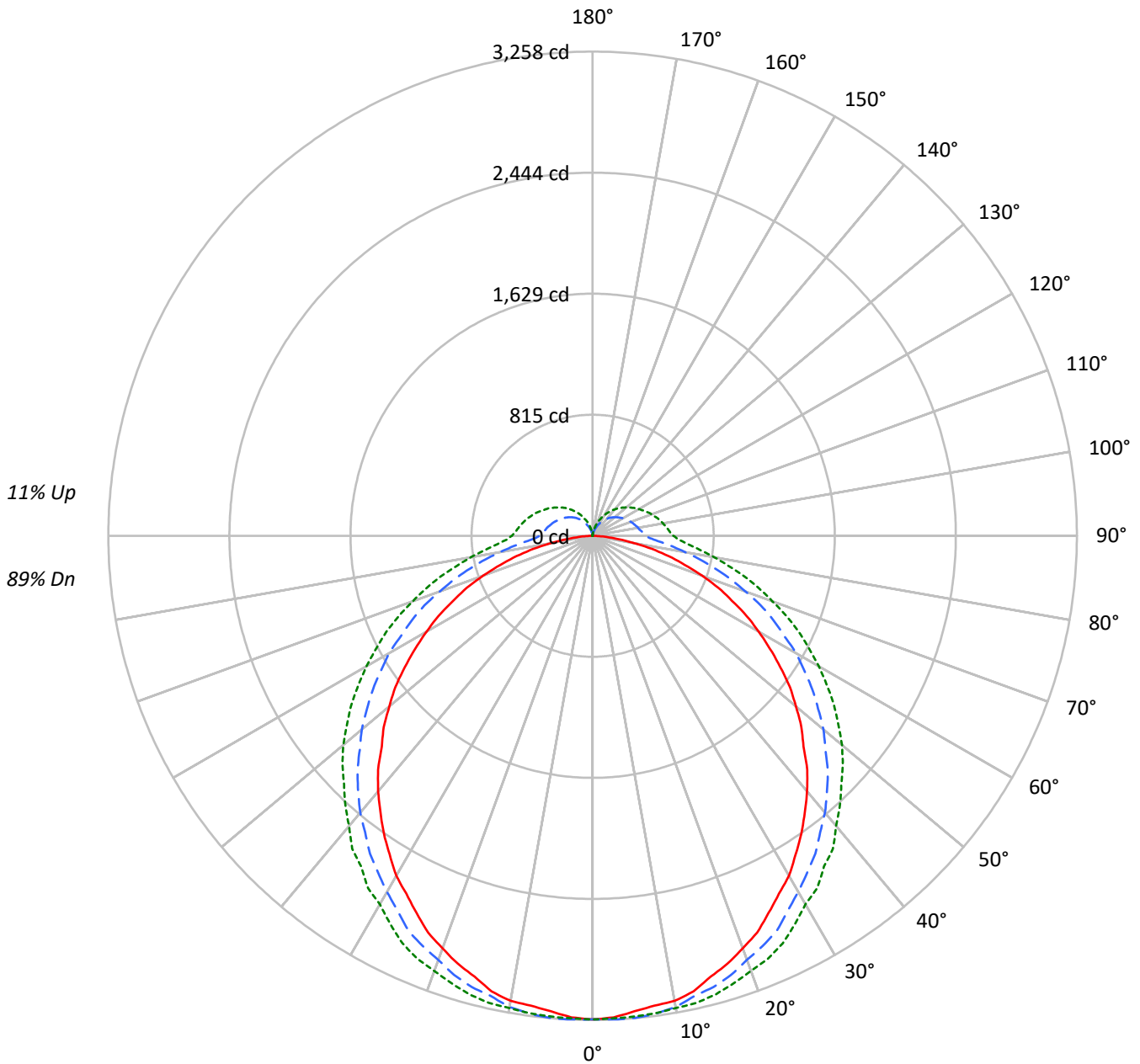
Lumens per Lamp: N/A
Luminaire Lumens: 11357.0 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.46' x L: 7.42' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 81
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

TEST NUMBER: P709807

CATALOG NUMBER: 8AWS-L3C39-SQR-UNV-4000K-HI

Luminous Intensity Polar Plot





TEST NUMBER: P709807

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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°	10263	10263	10263
5°	10156	10139	10050
10°	10148	9966	9878
15°	9983	9752	9751
20°	9854	9512	9550
25°	9674	9350	9387
30°	9532	9051	9062
35°	9321	8839	8837
40°	9116	8596	8608
45°	8803	8344	8367
50°	8589	8061	8193
55°	8289	7756	7938
60°	7914	7443	7632
65°	7457	7051	7331
70°	6900	6551	6910
75°	6080	6012	6533
80°	4718	5415	6079
85°	2852	5022	5845



TEST NUMBER: P709807

CATALOG NUMBER: 8AWS-L3C39-SQR-UNV-4000K-HI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.7	2.7
10°-20°	885.4	7.8
20°-30°	1342.7	11.8
30°-40°	1625.2	14.3
40°-50°	1710.9	15.1
50°-60°	1593.7	14.0
60°-70°	1299.9	11.4
70°-80°	876.5	7.7
80°-90°	471.0	4.1
90°-100°	326.5	2.9
100°-110°	279.4	2.5
110°-120°	228.0	2.0
120°-130°	173.3	1.5
130°-140°	120.0	1.1
140°-150°	71.6	0.6
150°-160°	33.3	0.3
160°-170°	9.8	0.1
170°-180°	1.0	0.0
0°-30°	2536.8	22.3
0°-40°	4162.0	36.6
0°-60°	7466.7	65.7
0°-90°	10114.1	89.1
90°-120°	833.9	7.3
90°-150°	1198.7	10.6
90°-180°	1243.0	10.9
0°-180°	11357.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3254	3254	3254	3254	3254	
5°	3213	3247	3258	3258	3247	306
15°	3071	3106	3144	3171	3196	868
25°	2801	2857	2933	2960	3026	1292
35°	2448	2507	2611	2687	2715	1531
45°	2006	2103	2238	2334	2366	1556
55°	1542	1653	1805	1919	1982	1379
65°	1034	1162	1342	1473	1532	1028
75°	529	668	854	992	1058	559
85°	93	256	450	591	643	117
90°	4	162	353	491	543	5
95°	0	149	332	460	508	0
105°	0	131	290	408	453	0
115°	4	114	252	353	391	3
125°	4	93	214	297	328	3
135°	4	73	173	239	266	3
145°	7	48	124	176	197	3
155°	7	28	73	114	124	3
165°	7	14	31	48	59	2
175°	7	7	7	7	7	1
180°	4	4	4	4	4	



TEST NUMBER: P709807

CATALOG NUMBER: 8AWS-L3C39-SQR-UNV-4000K-HI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3254.3	3254.3	3254.3	3254.3	3254.3
2.5°	3243.9	3247.3	3257.7	3268.1	3250.8
5°	3212.8	3247.3	3257.7	3257.7	3247.3
7.5°	3188.5	3219.7	3243.9	3237.0	3240.4
10°	3178.2	3195.5	3219.7	3237.0	3226.6
12.5°	3140.1	3150.5	3171.3	3198.9	3219.7
15°	3071.0	3105.5	3143.6	3171.3	3195.5
17.5°	3019.1	3050.2	3098.6	3122.8	3157.4
20°	2953.4	2988.0	3036.4	3088.3	3115.9
22.5°	2891.1	2922.3	2988.0	3022.6	3081.3
25°	2801.2	2856.6	2932.6	2960.3	3026.0
27.5°	2714.8	2777.0	2842.7	2918.8	2946.5
30°	2642.1	2687.1	2766.6	2832.3	2863.5
32.5°	2541.8	2604.1	2687.1	2766.6	2811.6
35°	2448.5	2507.3	2611.0	2687.1	2714.8
37.5°	2344.7	2410.4	2514.2	2604.1	2656.0
40°	2244.4	2317.1	2431.2	2517.6	2548.8
42.5°	2137.2	2213.3	2334.3	2434.6	2462.3
45°	2005.8	2102.6	2237.5	2334.3	2365.5
47.5°	1905.5	1995.4	2123.4	2237.5	2282.5
50°	1784.5	1884.8	2026.6	2130.3	2189.1
52.5°	1673.8	1767.2	1912.4	2012.7	2081.9
55°	1542.4	1653.1	1805.2	1919.4	1981.6
57.5°	1414.4	1528.6	1687.6	1805.2	1867.5
60°	1289.9	1407.5	1580.4	1698.0	1756.8
62.5°	1168.9	1293.4	1449.0	1590.8	1639.2
65°	1034.0	1162.0	1341.8	1473.2	1532.0
67.5°	916.4	1030.6	1224.2	1345.3	1411.0
70°	781.6	916.4	1092.8	1231.2	1286.5
72.5°	650.2	791.9	975.2	1117.0	1172.4
75°	529.1	667.5	854.2	992.5	1058.2
77.5°	408.1	549.9	740.1	881.9	937.2
80°	283.6	439.2	629.4	771.2	830.0
82.5°	179.8	338.9	536.0	670.9	726.2
85°	93.4	255.9	449.6	591.4	643.2
87.5°	31.1	193.7	387.3	525.7	577.5
90°	3.5	162.5	352.7	491.1	543.0
92.5°	0.0	155.6	342.4	473.8	522.2
95°	0.0	148.7	332.0	460.0	508.4
97.5°	0.0	145.2	318.2	446.1	494.5
100°	0.0	138.3	311.2	435.7	480.7
102.5°	0.0	134.9	300.9	421.9	466.9
105°	0.0	131.4	290.5	408.1	453.0



TEST NUMBER: P709807

CATALOG NUMBER: 8AWS-L3C39-SQR-UNV-4000K-HI

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.5	117.6	262.8	370.0	408.1
115°	3.5	114.1	252.5	352.7	390.8
117.5°	3.5	107.2	245.5	338.9	373.5
120°	3.5	103.7	235.2	328.5	359.7
122.5°	3.5	100.3	224.8	311.2	345.8
125°	3.5	93.4	214.4	297.4	328.5
127.5°	3.5	86.5	204.0	283.6	311.2
130°	3.5	83.0	193.7	266.3	297.4
132.5°	3.5	76.1	183.3	255.9	280.1
135°	3.5	72.6	172.9	238.6	266.3
137.5°	3.5	65.7	162.5	224.8	249.0
140°	3.5	58.8	148.7	211.0	231.7
142.5°	3.5	55.3	138.3	193.7	214.4
145°	6.9	48.4	124.5	176.4	197.1
147.5°	6.9	45.0	110.7	162.5	179.8
150°	6.9	38.0	96.8	145.2	162.5
152.5°	6.9	34.6	86.5	128.0	145.2
155°	6.9	27.7	72.6	114.1	124.5
157.5°	6.9	24.2	62.2	96.8	110.7
160°	6.9	20.7	51.9	83.0	93.4
162.5°	6.9	17.3	41.5	65.7	76.1
165°	6.9	13.8	31.1	48.4	58.8
167.5°	6.9	10.4	24.2	34.6	45.0
170°	6.9	10.4	17.3	24.2	34.6
172.5°	6.9	6.9	10.4	13.8	20.7
175°	6.9	6.9	6.9	6.9	6.9
177.5°	6.9	6.9	3.5	3.5	0.0
180°	3.5	3.5	3.5	3.5	3.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	0.0	124.5	283.6	394.2	435.7
110°	3.5	121.0	273.2	380.4	421.9



(END OF REPORT)