

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: P709785

Luminaire Tested: **8AWS-L3C3-SQR-UNV-5000K-MID**

Issue Date: 9/26/2023

Test Information

Test Method: LM-79-08
Report Number: P709785
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-5000K-MID
Description: 8foot, Adapt Surface Wrap with, SQR lens and MID lumen setting,
5000K, 80CRI

Light Source: -
Ballast/Driver: -

Summary

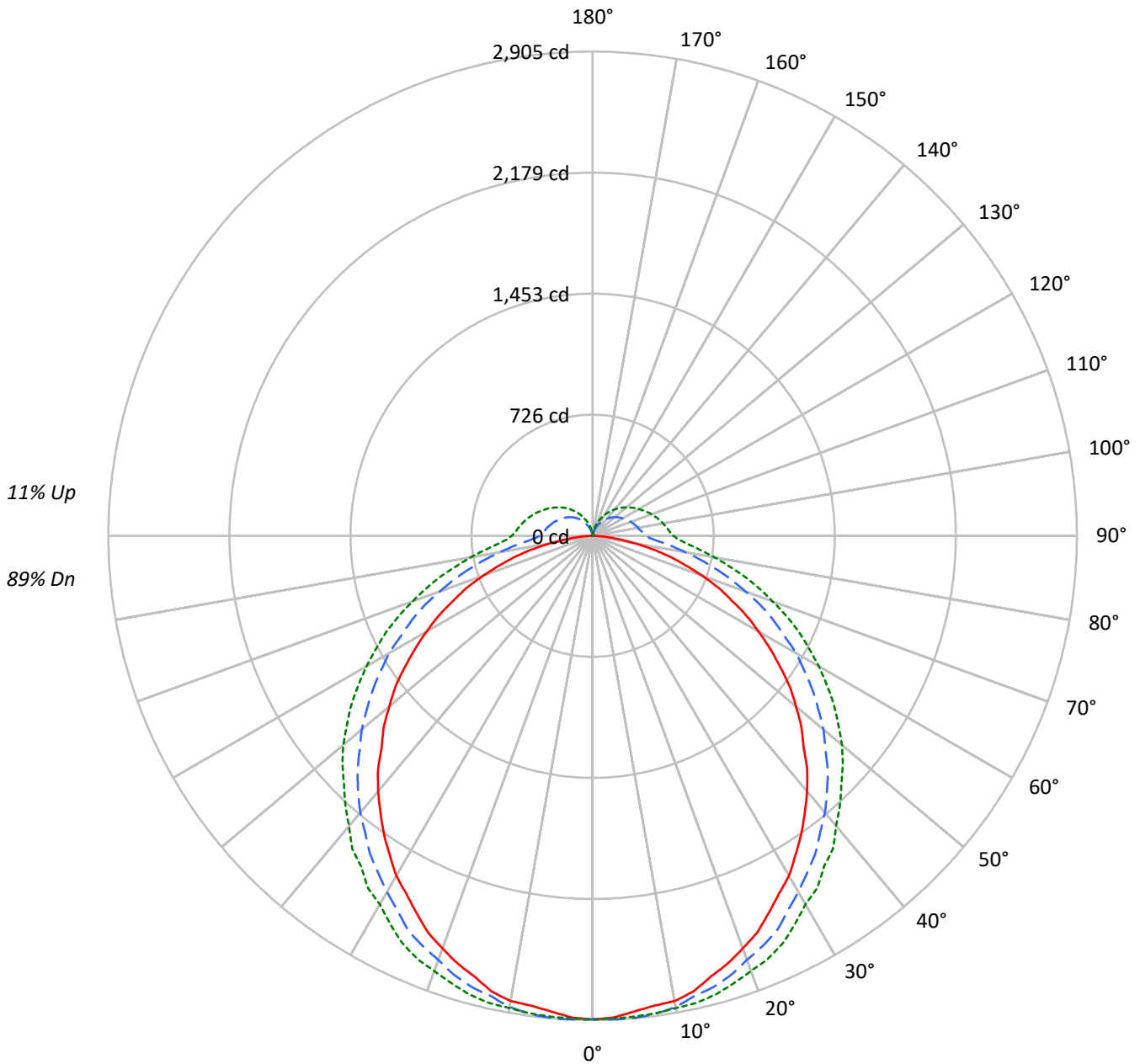
Lumens per Lamp: N/A
Luminaire Lumens: 10127.0 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.46' x L: 7.42' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 73
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: P709785

CATALOG NUMBER: 8AWS-L3C3-SQR-UNV-5000K-MID

Luminous Intensity Polar Plot





TEST NUMBER: P709785

CATALOG NUMBER: 8AWS-L3C3-SQR-UNV-5000K-MID

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°	9151	9151	9151
5°	9056	9041	8962
10°	9049	8887	8808
15°	8902	8695	8695
20°	8786	8482	8516
25°	8626	8338	8371
30°	8500	8071	8081
35°	8311	7882	7880
40°	8129	7665	7676
45°	7850	7441	7461
50°	7659	7188	7306
55°	7391	6916	7078
60°	7057	6637	6805
65°	6649	6287	6537
70°	6152	5841	6162
75°	5421	5361	5826
80°	4207	4828	5421
85°	2544	4478	5213



TEST NUMBER: P709785

CATALOG NUMBER: 8AWS-L3C3-SQR-UNV-5000K-MID

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.3	2.7
10°-20°	789.5	7.8
20°-30°	1197.3	11.8
30°-40°	1449.2	14.3
40°-50°	1525.7	15.1
50°-60°	1421.1	14.0
60°-70°	1159.2	11.4
70°-80°	781.5	7.7
80°-90°	420.0	4.1
90°-100°	291.1	2.9
100°-110°	249.2	2.5
110°-120°	203.3	2.0
120°-130°	154.5	1.5
130°-140°	107.0	1.1
140°-150°	63.8	0.6
150°-160°	29.7	0.3
160°-170°	8.8	0.1
170°-180°	0.9	0.0
0°-30°	2262.1	22.3
0°-40°	3711.3	36.6
0°-60°	6658.0	65.7
0°-90°	9018.7	89.1
90°-120°	743.6	7.3
90°-150°	1068.9	10.6
90°-180°	1108.0	10.9
0°-180°	10127.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2902	2902	2902	2902	2902	
5°	2865	2896	2905	2905	2896	272
15°	2738	2769	2803	2828	2849	774
25°	2498	2547	2615	2640	2698	1152
35°	2183	2236	2328	2396	2421	1365
45°	1789	1875	1995	2082	2109	1388
55°	1375	1474	1610	1712	1767	1230
65°	922	1036	1196	1314	1366	917
75°	472	595	762	885	944	498
85°	83	228	401	527	574	104
90°	3	145	314	438	484	5
95°	0	133	296	410	453	0
105°	0	117	259	364	404	0
115°	3	102	225	314	348	3
125°	3	83	191	265	293	3
135°	3	65	154	213	237	2
145°	6	43	111	157	176	3
155°	6	25	65	102	111	3
165°	6	12	28	43	52	2
175°	6	6	6	6	6	1
180°	3	3	3	3	3	



TEST NUMBER: P709785

CATALOG NUMBER: 8AWS-L3C3-SQR-UNV-5000K-MID

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2901.8	2901.8	2901.8	2901.8	2901.8
2.5°	2892.6	2895.6	2904.9	2914.1	2898.7
5°	2864.8	2895.6	2904.9	2904.9	2895.6
7.5°	2843.2	2871.0	2892.6	2886.4	2889.5
10°	2834.0	2849.4	2871.0	2886.4	2877.1
12.5°	2800.0	2809.3	2827.8	2852.5	2871.0
15°	2738.4	2769.2	2803.1	2827.8	2849.4
17.5°	2692.1	2719.9	2763.0	2784.6	2815.5
20°	2633.5	2664.4	2707.5	2753.8	2778.5
22.5°	2578.0	2605.8	2664.4	2695.2	2747.6
25°	2497.8	2547.2	2615.0	2639.7	2698.3
27.5°	2420.7	2476.3	2534.8	2602.7	2627.4
30°	2356.0	2396.1	2467.0	2525.6	2553.3
32.5°	2266.6	2322.1	2396.1	2467.0	2507.1
35°	2183.3	2235.7	2328.2	2396.1	2420.7
37.5°	2090.8	2149.4	2241.9	2322.1	2368.3
40°	2001.4	2066.1	2167.9	2245.0	2272.7
42.5°	1905.8	1973.6	2081.5	2171.0	2195.6
45°	1788.6	1874.9	1995.2	2081.5	2109.3
47.5°	1699.1	1779.3	1893.4	1995.2	2035.3
50°	1591.2	1680.6	1807.1	1899.6	1952.0
52.5°	1492.5	1575.8	1705.3	1794.7	1856.4
55°	1375.4	1474.0	1609.7	1711.5	1767.0
57.5°	1261.3	1363.0	1504.9	1609.7	1665.2
60°	1150.2	1255.1	1409.3	1514.1	1566.5
62.5°	1042.3	1153.3	1292.1	1418.5	1461.7
65°	922.0	1036.1	1196.5	1313.7	1366.1
67.5°	817.2	919.0	1091.6	1199.6	1258.2
70°	696.9	817.2	974.5	1097.8	1147.2
72.5°	579.7	706.2	869.6	996.1	1045.4
75°	471.8	595.2	761.7	885.0	943.6
77.5°	363.9	490.3	659.9	786.4	835.7
80°	252.9	391.6	561.2	687.7	740.1
82.5°	160.4	302.2	478.0	598.2	647.6
85°	83.3	228.2	400.9	527.3	573.6
87.5°	27.8	172.7	345.4	468.7	515.0
90°	3.1	144.9	314.5	437.9	484.1
92.5°	0.0	138.8	305.3	422.5	465.6
95°	0.0	132.6	296.0	410.1	453.3
97.5°	0.0	129.5	283.7	397.8	441.0
100°	0.0	123.4	277.5	388.6	428.6
102.5°	0.0	120.3	268.3	376.2	416.3
105°	0.0	117.2	259.0	363.9	404.0



TEST NUMBER: P709785

CATALOG NUMBER: 8AWS-L3C3-SQR-UNV-5000K-MID

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.1	104.8	234.4	330.0	363.9
115°	3.1	101.8	225.1	314.5	348.5
117.5°	3.1	95.6	218.9	302.2	333.0
120°	3.1	92.5	209.7	293.0	320.7
122.5°	3.1	89.4	200.4	277.5	308.4
125°	3.1	83.3	191.2	265.2	293.0
127.5°	3.1	77.1	181.9	252.9	277.5
130°	3.1	74.0	172.7	237.4	265.2
132.5°	3.1	67.8	163.4	228.2	249.8
135°	3.1	64.8	154.2	212.8	237.4
137.5°	3.1	58.6	144.9	200.4	222.0
140°	3.1	52.4	132.6	188.1	206.6
142.5°	3.1	49.3	123.4	172.7	191.2
145°	6.2	43.2	111.0	157.3	175.8
147.5°	6.2	40.1	98.7	144.9	160.4
150°	6.2	33.9	86.3	129.5	144.9
152.5°	6.2	30.8	77.1	114.1	129.5
155°	6.2	24.7	64.8	101.8	111.0
157.5°	6.2	21.6	55.5	86.3	98.7
160°	6.2	18.5	46.3	74.0	83.3
162.5°	6.2	15.4	37.0	58.6	67.8
165°	6.2	12.3	27.8	43.2	52.4
167.5°	6.2	9.3	21.6	30.8	40.1
170°	6.2	9.3	15.4	21.6	30.8
172.5°	6.2	6.2	9.3	12.3	18.5
175°	6.2	6.2	6.2	6.2	6.2
177.5°	6.2	6.2	3.1	3.1	0.0
180°	3.1	3.1	3.1	3.1	3.1



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	0.0	111.0	252.9	351.5	388.6
110°	3.1	107.9	243.6	339.2	376.2



(END OF REPORT)