

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: P709852

Luminaire Tested: **4AWWS-L3C3-SQR-UNV-4000K-HI**

Issue Date: 9/26/2023

Test Information

Test Method: LM-79-08
Report Number: P709852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-090-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/26/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4AWS-L3C3-SQR-UNV-4000K-HI
Description: 4foot, Wide Adapt Surface Wrap with, SQR lens and HI lumen setting,
4000K, 80CRI

Light Source: -
Ballast/Driver: -

Summary

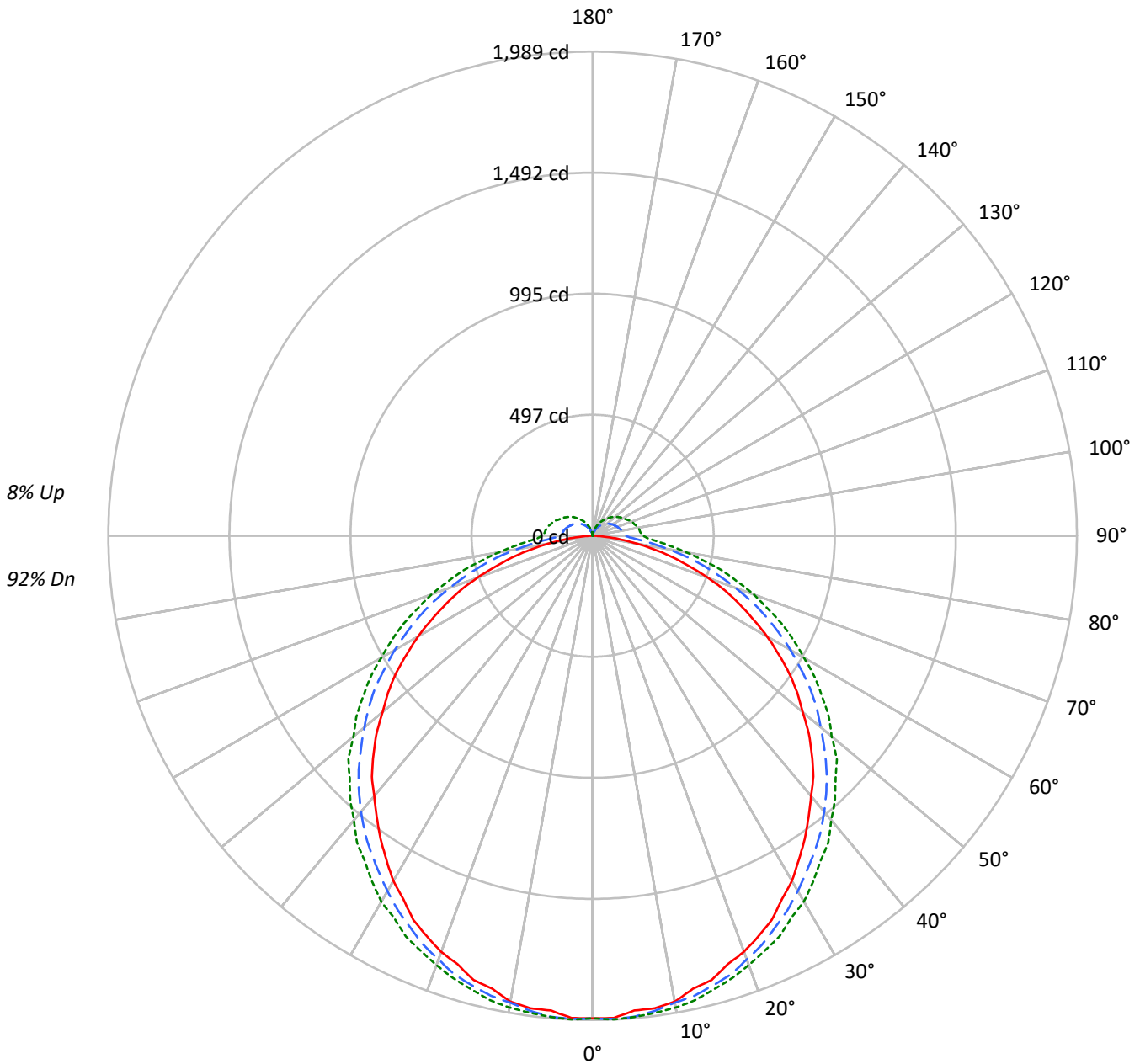
Lumens per Lamp: N/A
Luminaire Lumens: 6497.0 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 3.71' x H: 0.17')
CIE Type: Direct

Input Watts (W): 47
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: P709852

CATALOG NUMBER: 4AWWS-L3C3-SQR-UNV-4000K-HI

Luminous Intensity Polar Plot





TEST NUMBER: P709852

CATALOG NUMBER: 4AWWS-L3C3-SQR-UNV-4000K-HI

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	92																			
1	106	101	97	92	103	98	94	90	92	89	86	87	85	82	82	80	78	76																			
2	96	88	81	75	93	85	79	73	80	75	70	76	71	68	72	68	65	62																			
3	88	77	68	62	84	75	67	61	70	64	59	67	61	57	63	59	55	52																			
4	80	68	59	52	77	66	58	51	62	55	50	59	53	48	56	51	47	44																			
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	50	45	40	38																			
6	68	54	45	39	65	53	44	38	50	43	37	48	41	36	46	40	35	33																			
7	63	49	40	34	61	48	40	34	46	38	33	44	37	32	42	36	31	29																			
8	58	45	36	30	56	44	36	30	42	34	29	40	33	29	38	32	28	26																			
9	54	41	33	27	53	40	32	27	38	31	26	37	30	26	35	30	25	23																			
10	51	38	30	25	49	37	29	24	35	29	24	34	28	23	33	27	23	21																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6930	6930	6930
5°	6842	6851	6842
10°	6842	6702	6742
15°	6753	6605	6616
20°	6653	6470	6496
25°	6576	6322	6394
30°	6438	6170	6263
35°	6279	6026	6087
40°	6134	5876	5938
45°	6018	5705	5787
50°	5804	5492	5602
55°	5641	5302	5425
60°	5363	5019	5175
65°	5014	4713	4938
70°	4571	4290	4599
75°	3911	3805	4204
80°	2892	3153	3623
85°	1642	2537	3197



TEST NUMBER: P709852

CATALOG NUMBER: 4AWWS-L3C3-SQR-UNV-4000K-HI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.9	2.9
10°-20°	539.3	8.3
20°-30°	819.6	12.6
30°-40°	992.8	15.3
40°-50°	1043.9	16.1
50°-60°	964.9	14.9
60°-70°	768.0	11.8
70°-80°	483.4	7.4
80°-90°	209.4	3.2
90°-100°	124.2	1.9
100°-110°	109.3	1.7
110°-120°	90.3	1.4
120°-130°	69.2	1.1
130°-140°	48.3	0.7
140°-150°	28.6	0.4
150°-160°	13.4	0.2
160°-170°	4.0	0.1
170°-180°	0.4	0.0
0°-30°	1546.8	23.8
0°-40°	2539.6	39.1
0°-60°	4548.5	70.0
0°-90°	6009.3	92.5
90°-120°	323.8	5.0
90°-150°	469.9	7.2
90°-180°	488.0	7.5
0°-180°	6497.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1983	1983	1983	1983	1983	
5°	1958	1974	1983	1980	1985	187
15°	1889	1887	1912	1924	1928	531
25°	1741	1750	1775	1808	1816	800
35°	1519	1550	1587	1627	1631	950
45°	1273	1311	1358	1398	1410	981
55°	986	1034	1090	1138	1150	878
65°	666	722	786	838	859	659
75°	339	402	468	522	549	358
85°	62	119	191	246	266	76
90°	2	60	133	185	206	3
95°	0	54	125	177	196	0
105°	0	50	114	160	179	0
115°	0	44	100	142	156	0
125°	2	35	85	121	133	1
135°	2	29	69	96	108	1
145°	0	19	50	71	79	1
155°	2	10	31	46	52	1
165°	2	4	12	21	25	1
175°	2	2	2	4	4	0
180°	0	0	0	0	0	



TEST NUMBER: P709852

CATALOG NUMBER: 4AWWS-L3C3-SQR-UNV-4000K-HI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1982.6	1982.6	1982.6	1982.6	<i>1982.6</i>
2.5°	<i>1982.6</i>	<i>1968.1</i>	<i>1986.8</i>	<i>1984.7</i>	<i>1988.9</i>
5°	1957.7	1974.3	1982.6	1980.5	<i>1984.7</i>
7.5°	1957.7	1957.7	1968.1	1974.3	<i>1976.4</i>
10°	1943.1	1951.4	1947.3	1957.7	<i>1968.1</i>
12.5°	1905.6	1928.5	1934.8	1957.7	<i>1953.5</i>
15°	1889.0	1886.9	1911.9	1924.4	<i>1928.5</i>
17.5°	1845.3	1862.0	1889.0	1901.5	<i>1905.6</i>
20°	1818.3	1834.9	1851.6	1878.6	<i>1876.5</i>
22.5°	1780.8	1795.4	1818.3	1843.2	<i>1845.3</i>
25°	1741.3	1749.6	1774.6	1807.9	<i>1816.2</i>
27.5°	1683.0	1710.1	1733.0	1776.7	<i>1768.3</i>
30°	1637.3	1656.0	1685.1	1726.7	<i>1735.1</i>
32.5°	1576.9	1614.4	1635.2	1672.6	<i>1685.1</i>
35°	1518.7	1549.9	1587.3	1626.9	<i>1631.0</i>
37.5°	1456.3	1500.0	1537.4	1579.0	<i>1589.4</i>
40°	1395.9	1433.4	1479.2	1516.6	<i>1524.9</i>
42.5°	1341.9	1377.2	1420.9	1468.8	<i>1472.9</i>
45°	1273.2	1310.7	1358.5	1398.0	<i>1410.5</i>
47.5°	1204.6	1248.2	1289.8	1337.7	<i>1360.6</i>
50°	1125.5	1175.4	1223.3	1271.1	<i>1281.5</i>
52.5°	1058.9	1100.5	1158.8	1206.6	<i>1223.3</i>
55°	986.1	1034.0	1090.1	1138.0	<i>1150.5</i>
57.5°	905.0	950.7	1011.1	1063.1	<i>1081.8</i>
60°	828.0	877.9	938.3	990.3	<i>1002.8</i>
62.5°	744.8	801.0	861.3	915.4	<i>929.9</i>
65°	665.7	721.9	786.4	838.4	<i>859.2</i>
67.5°	588.8	642.8	707.3	759.3	<i>776.0</i>
70°	503.5	557.5	624.1	682.4	<i>703.2</i>
72.5°	416.1	474.3	543.0	605.4	<i>622.0</i>
75°	339.1	401.5	468.1	522.2	<i>549.2</i>
77.5°	260.0	314.1	391.1	443.1	<i>463.9</i>
80°	181.0	243.4	314.1	372.4	<i>389.0</i>
82.5°	116.5	176.8	249.6	301.7	<i>322.5</i>
85°	62.4	118.6	191.4	245.5	<i>266.3</i>
87.5°	20.8	79.1	151.9	203.9	<i>226.8</i>
90°	2.1	60.3	133.1	185.2	<i>206.0</i>
92.5°	0.0	56.2	126.9	176.8	<i>199.7</i>
95°	0.0	54.1	124.8	176.8	<i>195.6</i>
97.5°	0.0	54.1	122.7	174.8	<i>193.5</i>
100°	0.0	52.0	120.7	168.5	<i>189.3</i>
102.5°	0.0	49.9	118.6	166.4	<i>185.2</i>
105°	0.0	49.9	114.4	160.2	<i>178.9</i>



TEST NUMBER: P709852

CATALOG NUMBER: 4AWWS-L3C3-SQR-UNV-4000K-HI

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	43.7	104.0	147.7	164.4
115°	0.0	43.7	99.9	141.5	156.0
117.5°	0.0	41.6	97.8	137.3	149.8
120°	0.0	39.5	93.6	131.1	145.6
122.5°	0.0	37.4	89.5	124.8	139.4
125°	2.1	35.4	85.3	120.7	133.1
127.5°	2.1	33.3	81.1	114.4	126.9
130°	2.1	33.3	77.0	108.2	120.7
132.5°	2.1	31.2	72.8	101.9	114.4
135°	2.1	29.1	68.7	95.7	108.2
137.5°	2.1	27.0	64.5	91.5	99.9
140°	0.0	25.0	60.3	83.2	93.6
142.5°	2.1	20.8	54.1	79.1	85.3
145°	0.0	18.7	49.9	70.7	79.1
147.5°	2.1	16.6	45.8	64.5	72.8
150°	2.1	14.6	41.6	58.3	66.6
152.5°	2.1	12.5	35.4	52.0	58.3
155°	2.1	10.4	31.2	45.8	52.0
157.5°	2.1	8.3	25.0	39.5	43.7
160°	2.1	8.3	20.8	33.3	37.4
162.5°	2.1	6.2	16.6	27.0	31.2
165°	2.1	4.2	12.5	20.8	25.0
167.5°	2.1	4.2	8.3	16.6	18.7
170°	2.1	4.2	6.2	10.4	12.5
172.5°	2.1	2.1	4.2	6.2	8.3
175°	2.1	2.1	2.1	4.2	4.2
177.5°	2.1	2.1	2.1	2.1	2.1
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	0.0	47.8	110.3	153.9	174.8
110°	0.0	45.8	108.2	149.8	168.5



(END OF REPORT)