

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: P709724

Luminaire Tested: **4AWS-L3C3-SQR-UNV-3500K-LOW**

Issue Date: 9/26/2023



Test Information

Test Method: LM-79-08
Report Number: P709724
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: 4AWS-L3C3-SQR-UNV-3500K-LOW
Description: 4foot, Adapt Surface Wrap with, SQR lens and LOW lumen setting, 3500K, 80CRI

Light Source: -
Ballast/Driver: -

Summary

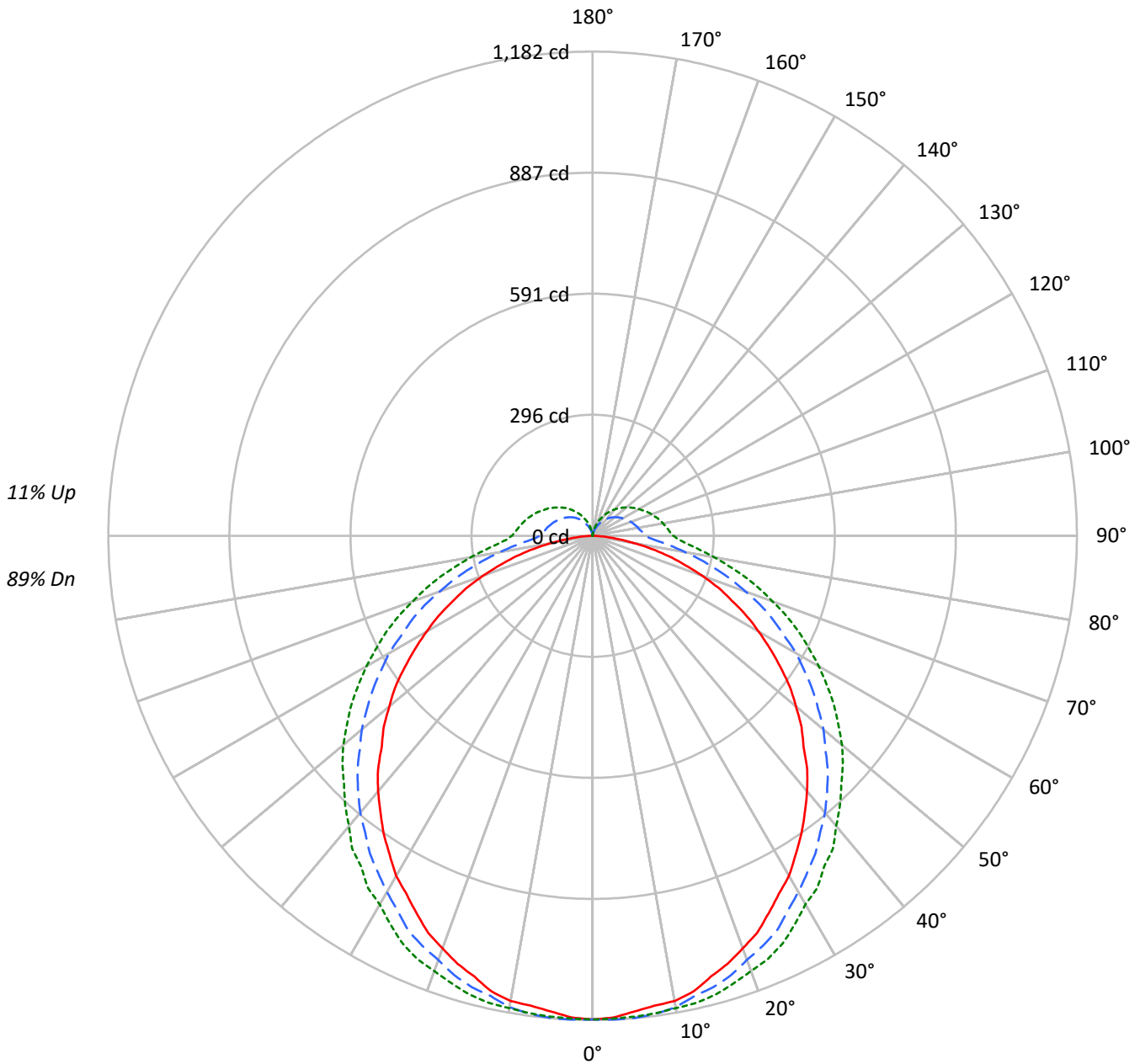
Lumens per Lamp: N/A
Luminaire Lumens: 4121.0 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.46' x L: 3.71' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 32
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

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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°	7448	7448	7448
5°	7360	7351	7294
10°	7344	7219	7169
15°	7214	7056	7077
20°	7110	6876	6931
25°	6969	6753	6813
30°	6854	6530	6576
35°	6690	6370	6413
40°	6528	6187	6247
45°	6288	5998	6072
50°	6118	5786	5946
55°	5883	5557	5760
60°	5592	5323	5539
65°	5236	5030	5320
70°	4803	4658	5014
75°	4175	4259	4742
80°	3158	3813	4412
85°	1791	3503	4242



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.0	2.7
10°-20°	321.3	7.8
20°-30°	487.2	11.8
30°-40°	589.7	14.3
40°-50°	620.8	15.1
50°-60°	578.3	14.0
60°-70°	471.7	11.4
70°-80°	318.0	7.7
80°-90°	170.9	4.1
90°-100°	118.5	2.9
100°-110°	101.4	2.5
110°-120°	82.7	2.0
120°-130°	62.9	1.5
130°-140°	43.5	1.1
140°-150°	26.0	0.6
150°-160°	12.1	0.3
160°-170°	3.6	0.1
170°-180°	0.4	0.0
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0°-30°	920.5	22.3
0°-40°	1510.2	36.6
0°-60°	2709.3	65.7
0°-90°	3670.0	89.1
90°-120°	302.6	7.3
90°-150°	435.0	10.6
90°-180°	451.0	10.9
0°-180°	4121.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1181	1181	1181	1181	1181	
5°	1166	1178	1182	1182	1178	111
15°	1114	1127	1141	1151	1160	315
25°	1016	1036	1064	1074	1098	469
35°	888	910	947	975	985	555
45°	728	763	812	847	858	565
55°	560	600	655	696	719	500
65°	375	422	487	535	556	373
75°	192	242	310	360	384	203
85°	34	93	163	215	233	42
90°	1	59	128	178	197	2
95°	0	54	120	167	184	0
105°	0	48	105	148	164	0
115°	1	41	92	128	142	1
125°	1	34	78	108	119	1
135°	1	26	63	87	97	1
145°	2	18	45	64	72	1
155°	2	10	26	41	45	1
165°	2	5	11	18	21	1
175°	2	2	2	2	2	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1180.8	1180.8	1180.8	<i>1180.8</i>	1180.8
2.5°	<i>1177.1</i>	<i>1178.3</i>	<i>1182.1</i>	<i>1185.9</i>	<i>1179.6</i>
5°	1165.8	1178.3	1182.1	<i>1182.1</i>	1178.3
7.5°	1157.0	1168.3	1177.1	<i>1174.6</i>	1175.8
10°	1153.2	1159.5	1168.3	<i>1174.6</i>	1170.8
12.5°	1139.4	1143.2	1150.7	<i>1160.8</i>	1168.3
15°	1114.3	1126.9	1140.7	<i>1150.7</i>	1159.5
17.5°	1095.5	1106.8	1124.4	<i>1133.2</i>	1145.7
20°	1071.7	1084.2	1101.8	<i>1120.6</i>	1130.6
22.5°	1049.1	1060.4	1084.2	<i>1096.8</i>	1118.1
25°	1016.5	1036.5	1064.1	<i>1074.2</i>	1098.0
27.5°	985.1	1007.7	1031.5	<i>1059.1</i>	1069.2
30°	958.7	975.0	1003.9	<i>1027.7</i>	1039.0
32.5°	922.3	944.9	975.0	<i>1003.9</i>	1020.2
35°	888.5	909.8	947.4	<i>975.0</i>	985.1
37.5°	850.8	874.6	912.3	<i>944.9</i>	963.7
40°	814.4	840.8	882.2	<i>913.6</i>	924.8
42.5°	775.5	803.1	847.0	<i>883.4</i>	893.5
45°	727.8	763.0	811.9	<i>847.0</i>	858.3
47.5°	691.4	724.1	770.5	<i>811.9</i>	828.2
50°	647.5	683.9	735.4	<i>773.0</i>	794.3
52.5°	607.4	641.2	693.9	<i>730.3</i>	755.4
55°	559.7	599.8	655.0	<i>696.5</i>	719.0
57.5°	513.2	554.7	612.4	<i>655.0</i>	677.6
60°	468.1	510.7	573.5	<i>616.1</i>	637.5
62.5°	424.1	469.3	525.8	<i>577.2</i>	594.8
65°	375.2	421.6	486.9	<i>534.6</i>	555.9
67.5°	332.5	374.0	444.2	<i>488.1</i>	512.0
70°	283.6	332.5	396.5	<i>446.7</i>	466.8
72.5°	235.9	287.4	353.9	<i>405.3</i>	425.4
75°	192.0	242.2	310.0	<i>360.1</i>	384.0
77.5°	148.1	199.5	268.5	<i>320.0</i>	340.1
80°	102.9	159.4	228.4	<i>279.8</i>	301.2
82.5°	65.3	123.0	194.5	<i>243.4</i>	263.5
85°	33.9	92.9	163.1	<i>214.6</i>	233.4
87.5°	11.3	70.3	140.5	<i>190.7</i>	209.6
90°	1.3	59.0	128.0	<i>178.2</i>	197.0
92.5°	0.0	56.5	124.2	<i>171.9</i>	189.5
95°	0.0	54.0	120.5	<i>166.9</i>	184.5
97.5°	0.0	52.7	115.4	<i>161.9</i>	179.4
100°	0.0	50.2	112.9	<i>158.1</i>	174.4
102.5°	0.0	48.9	109.2	<i>153.1</i>	169.4
105°	0.0	47.7	105.4	<i>148.1</i>	164.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	42.7	95.4	134.3	148.1
115°	1.3	41.4	91.6	128.0	141.8
117.5°	1.3	38.9	89.1	123.0	135.5
120°	1.3	37.6	85.3	119.2	130.5
122.5°	1.3	36.4	81.6	112.9	125.5
125°	1.3	33.9	77.8	107.9	119.2
127.5°	1.3	31.4	74.0	102.9	112.9
130°	1.3	30.1	70.3	96.6	107.9
132.5°	1.3	27.6	66.5	92.9	101.6
135°	1.3	26.4	62.7	86.6	96.6
137.5°	1.3	23.8	59.0	81.6	90.4
140°	1.3	21.3	54.0	76.5	84.1
142.5°	1.3	20.1	50.2	70.3	77.8
145°	2.5	17.6	45.2	64.0	71.5
147.5°	2.5	16.3	40.2	59.0	65.3
150°	2.5	13.8	35.1	52.7	59.0
152.5°	2.5	12.5	31.4	46.4	52.7
155°	2.5	10.0	26.4	41.4	45.2
157.5°	2.5	8.8	22.6	35.1	40.2
160°	2.5	7.5	18.8	30.1	33.9
162.5°	2.5	6.3	15.1	23.8	27.6
165°	2.5	5.0	11.3	17.6	21.3
167.5°	2.5	3.8	8.8	12.5	16.3
170°	2.5	3.8	6.3	8.8	12.5
172.5°	2.5	2.5	3.8	5.0	7.5
175°	2.5	2.5	2.5	2.5	2.5
177.5°	2.5	2.5	1.3	1.3	0.0
180°	1.3	1.3	1.3	1.3	1.3



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	0.0	45.2	102.9	143.1	158.1
110°	1.3	43.9	99.1	138.0	153.1



(END OF REPORT)