

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: P709751

Luminaire Tested: **4AWS-L3C39-SQR-UNV-3500K-LOW**

Issue Date: 9/26/2023

Test Information

Test Method: LM-79-08
Report Number: P709751
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-L3C39-SQR-UNV-3500K-LOW
Description: 4foot, Adapt Surface Wrap with, SQR lens and LOW lumen setting, 3500K, 90CRI

Light Source: -
Ballast/Driver: -

Summary

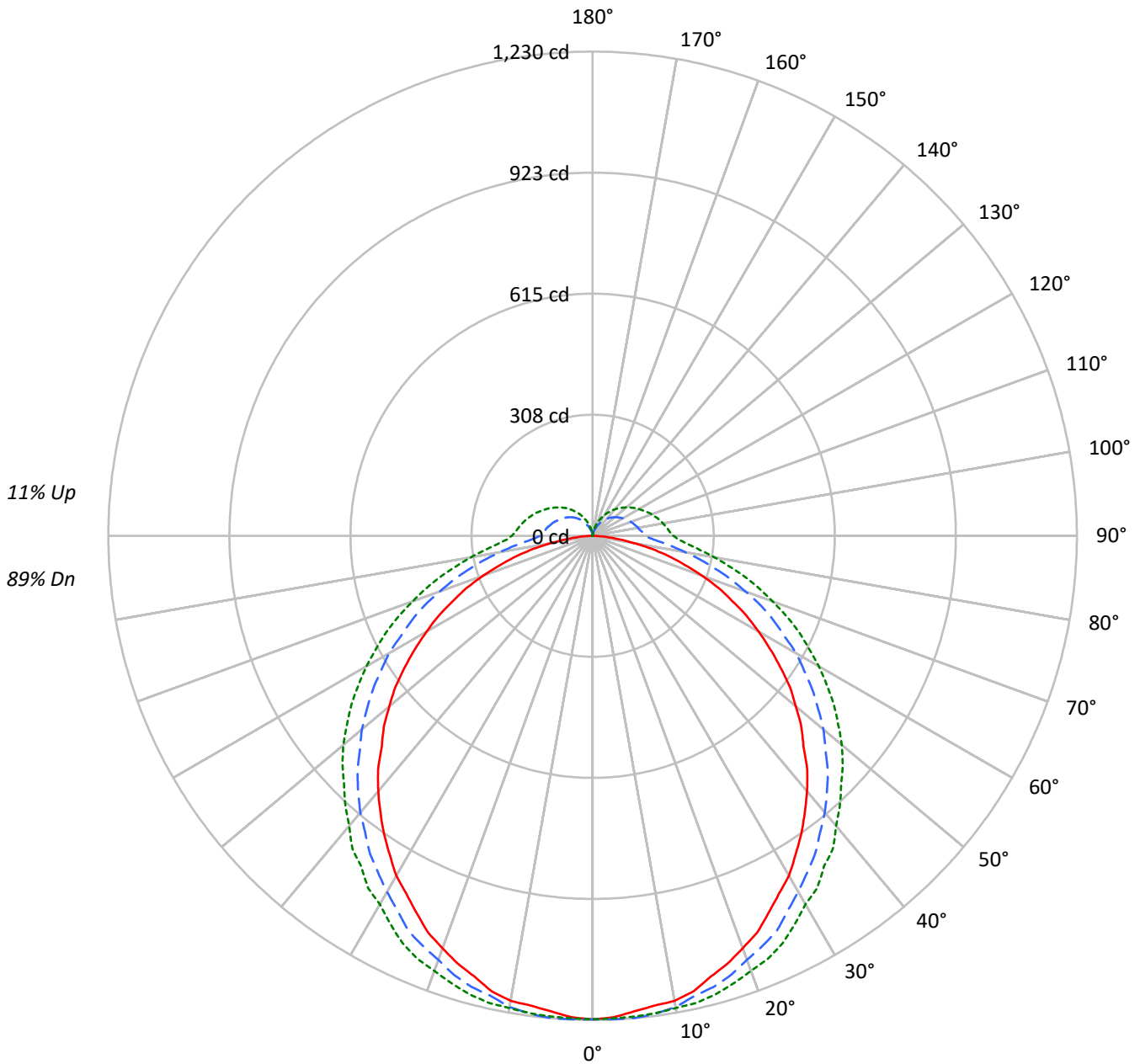
Lumens per Lamp: N/A
Luminaire Lumens: 4287.0 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.46' x L: 3.71' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 33
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°	7748	7748	7748
5°	7656	7647	7588
10°	7640	7510	7458
15°	7504	7340	7362
20°	7395	7153	7210
25°	7249	7025	7087
30°	7130	6793	6842
35°	6958	6627	6672
40°	6791	6436	6499
45°	6542	6240	6317
50°	6364	6019	6185
55°	6119	5781	5993
60°	5816	5537	5762
65°	5447	5233	5534
70°	4996	4846	5216
75°	4342	4429	4933
80°	3284	3966	4590
85°	1860	3644	4413



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.5	2.7
10°-20°	334.2	7.8
20°-30°	506.9	11.8
30°-40°	613.5	14.3
40°-50°	645.8	15.1
50°-60°	601.6	14.0
60°-70°	490.7	11.4
70°-80°	330.8	7.7
80°-90°	177.8	4.1
90°-100°	123.2	2.9
100°-110°	105.5	2.5
110°-120°	86.1	2.0
120°-130°	65.4	1.5
130°-140°	45.3	1.1
140°-150°	27.0	0.6
150°-160°	12.6	0.3
160°-170°	3.7	0.1
170°-180°	0.4	0.0
0°-30°	957.6	22.3
0°-40°	1571.1	36.6
0°-60°	2818.5	65.7
0°-90°	3817.8	89.1
90°-120°	314.8	7.3
90°-150°	452.5	10.6
90°-180°	469.0	10.9
0°-180°	4287.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1228	1228	1228	1228	1228	
5°	1213	1226	1230	1230	1226	115
15°	1159	1172	1187	1197	1206	328
25°	1057	1078	1107	1117	1142	488
35°	924	946	986	1014	1025	578
45°	757	794	845	881	893	587
55°	582	624	681	724	748	521
65°	390	439	506	556	578	388
75°	200	252	322	375	400	211
85°	35	97	170	223	243	44
90°	1	61	133	185	205	2
95°	0	56	125	174	192	0
105°	0	50	110	154	171	0
115°	1	43	95	133	148	1
125°	1	35	81	112	124	1
135°	1	27	65	90	100	1
145°	3	18	47	67	74	1
155°	3	10	27	43	47	1
165°	3	5	12	18	22	1
175°	3	3	3	3	3	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1228.4	1228.4	1228.4	1228.4	1228.4
2.5°	1224.5	1225.8	1229.7	1233.6	1227.1
5°	1212.7	1225.8	1229.7	1229.7	1225.8
7.5°	1203.6	1215.4	1224.5	1221.9	1223.2
10°	1199.7	1206.2	1215.4	1221.9	1218.0
12.5°	1185.3	1189.2	1197.1	1207.5	1215.4
15°	1159.2	1172.3	1186.6	1197.1	1206.2
17.5°	1139.6	1151.4	1169.7	1178.8	1191.9
20°	1114.8	1127.9	1146.2	1165.7	1176.2
22.5°	1091.3	1103.1	1127.9	1140.9	1163.1
25°	1057.4	1078.3	1107.0	1117.4	1142.2
27.5°	1024.8	1048.3	1073.1	1101.8	1112.2
30°	997.3	1014.3	1044.3	1069.1	1080.9
32.5°	959.5	983.0	1014.3	1044.3	1061.3
35°	924.2	946.4	985.6	1014.3	1024.8
37.5°	885.1	909.9	949.0	983.0	1002.6
40°	847.2	874.6	917.7	950.3	962.1
42.5°	806.8	835.5	881.2	919.0	929.5
45°	757.1	793.7	844.6	881.2	892.9
47.5°	719.3	753.2	801.5	844.6	861.6
50°	673.6	711.5	765.0	804.1	826.3
52.5°	631.8	667.1	721.9	759.8	785.9
55°	582.2	624.0	681.4	724.5	748.0
57.5°	533.9	577.0	637.0	681.4	704.9
60°	486.9	531.3	596.6	641.0	663.2
62.5°	441.2	488.2	547.0	600.5	618.8
65°	390.3	438.6	506.5	556.1	578.3
67.5°	345.9	389.0	462.1	507.8	532.6
70°	295.0	345.9	412.5	464.7	485.6
72.5°	245.4	298.9	368.1	421.7	442.5
75°	199.7	251.9	322.4	374.7	399.5
77.5°	154.0	207.6	279.4	332.9	353.8
80°	107.0	165.8	237.6	291.1	313.3
82.5°	67.9	127.9	202.3	253.3	274.1
85°	35.2	96.6	169.7	223.2	242.8
87.5°	11.7	73.1	146.2	198.4	218.0
90°	1.3	61.4	133.2	185.4	205.0
92.5°	0.0	58.7	129.2	178.8	197.1
95°	0.0	56.1	125.3	173.6	191.9
97.5°	0.0	54.8	120.1	168.4	186.7
100°	0.0	52.2	117.5	164.5	181.5
102.5°	0.0	50.9	113.6	159.3	176.2
105°	0.0	49.6	109.7	154.0	171.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	44.4	99.2	139.7	154.0
115°	1.3	43.1	95.3	133.2	147.5
117.5°	1.3	40.5	92.7	127.9	141.0
120°	1.3	39.2	88.8	124.0	135.8
122.5°	1.3	37.9	84.9	117.5	130.5
125°	1.3	35.2	80.9	112.3	124.0
127.5°	1.3	32.6	77.0	107.0	117.5
130°	1.3	31.3	73.1	100.5	112.3
132.5°	1.3	28.7	69.2	96.6	105.7
135°	1.3	27.4	65.3	90.1	100.5
137.5°	1.3	24.8	61.4	84.9	94.0
140°	1.3	22.2	56.1	79.6	87.5
142.5°	1.3	20.9	52.2	73.1	80.9
145°	2.6	18.3	47.0	66.6	74.4
147.5°	2.6	17.0	41.8	61.4	67.9
150°	2.6	14.4	36.6	54.8	61.4
152.5°	2.6	13.1	32.6	48.3	54.8
155°	2.6	10.4	27.4	43.1	47.0
157.5°	2.6	9.1	23.5	36.6	41.8
160°	2.6	7.8	19.6	31.3	35.2
162.5°	2.6	6.5	15.7	24.8	28.7
165°	2.6	5.2	11.7	18.3	22.2
167.5°	2.6	3.9	9.1	13.1	17.0
170°	2.6	3.9	6.5	9.1	13.1
172.5°	2.6	2.6	3.9	5.2	7.8
175°	2.6	2.6	2.6	2.6	2.6
177.5°	2.6	2.6	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	47.0	107.0	148.8	164.5
110°	1.3	45.7	103.1	143.6	159.3



(END OF REPORT)