

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: P709757

Luminaire Tested: **4AWS-L3C39-SQR-UNV-5000K-LOW**

Issue Date: 9/26/2023



Test Information

Test Method: LM-79-08
Report Number: P709757
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-5000K-LOW
Description: 4foot, Adapt Surface Wrap with, SQR lens and LOW lumen setting, 5000K, 90CRI

Light Source: -
Ballast/Driver: -

Summary

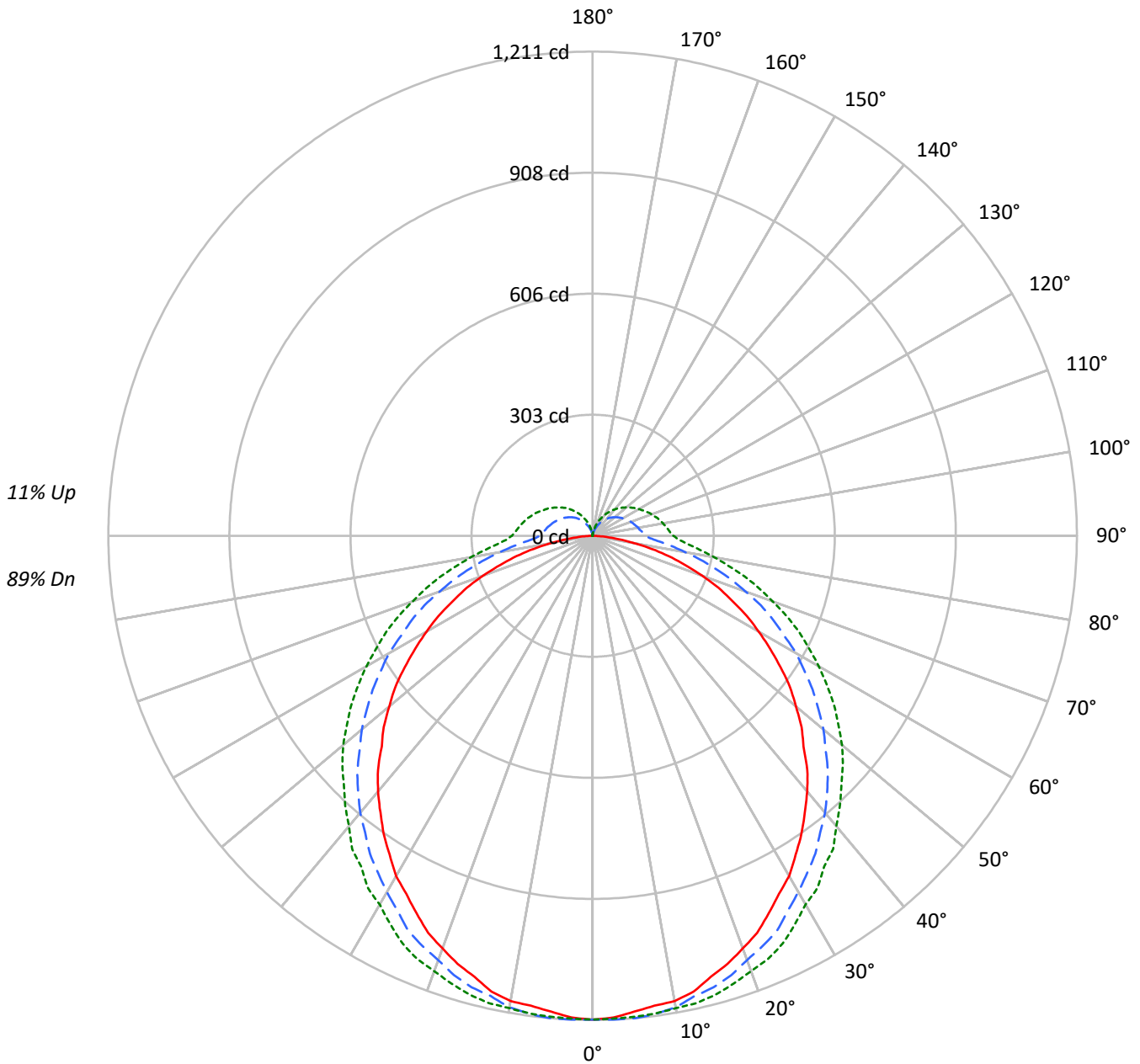
Lumens per Lamp: N/A
Luminaire Lumens: 4223.0 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.46' x L: 3.71' x H: 0.12')
CIE Type: Semi-Direct

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					20					
RC	80					70					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°	7632	7632	7632
5°	7542	7533	7474
10°	7526	7397	7346
15°	7392	7231	7252
20°	7285	7047	7102
25°	7141	6920	6981
30°	7024	6691	6740
35°	6855	6528	6572
40°	6690	6340	6402
45°	6444	6147	6223
50°	6269	5929	6093
55°	6028	5695	5903
60°	5730	5455	5676
65°	5366	5154	5452
70°	4922	4775	5139
75°	4277	4363	4859
80°	3235	3906	4521
85°	1833	3591	4347



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	2.7
10°-20°	329.2	7.8
20°-30°	499.3	11.8
30°-40°	604.3	14.3
40°-50°	636.2	15.1
50°-60°	592.6	14.0
60°-70°	483.4	11.4
70°-80°	325.9	7.7
80°-90°	175.2	4.1
90°-100°	121.4	2.9
100°-110°	103.9	2.5
110°-120°	84.8	2.0
120°-130°	64.4	1.5
130°-140°	44.6	1.1
140°-150°	26.6	0.6
150°-160°	12.4	0.3
160°-170°	3.7	0.1
170°-180°	0.4	0.0
0°-30°	943.3	22.3
0°-40°	1547.6	36.6
0°-60°	2776.4	65.7
0°-90°	3760.8	89.1
90°-120°	310.1	7.3
90°-150°	445.7	10.6
90°-180°	462.0	10.9
0°-180°	4223.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1210	1210	1210	1210	1210	
5°	1195	1208	1211	1211	1208	114
15°	1142	1155	1169	1179	1188	323
25°	1042	1062	1090	1101	1125	480
35°	910	932	971	999	1010	569
45°	746	782	832	868	880	579
55°	574	615	671	714	737	513
65°	384	432	499	548	570	382
75°	197	248	318	369	394	208
85°	35	95	167	220	239	44
90°	1	60	131	183	202	2
95°	0	55	123	171	189	0
105°	0	49	108	152	168	0
115°	1	42	94	131	145	1
125°	1	35	80	111	122	1
135°	1	27	64	89	99	1
145°	3	18	46	66	73	1
155°	3	10	27	42	46	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°	1210.1	1210.1	1210.1	<i>1210.1</i>	1210.1
2.5°	<i>1206.2</i>	<i>1207.5</i>	<i>1211.4</i>	<i>1215.2</i>	<i>1208.8</i>
5°	1194.6	1207.5	1211.4	<i>1211.4</i>	1207.5
7.5°	1185.6	1197.2	1206.2	<i>1203.6</i>	1204.9
10°	1181.8	1188.2	1197.2	<i>1203.6</i>	1199.8
12.5°	1167.6	1171.5	1179.2	<i>1189.5</i>	1197.2
15°	1141.9	1154.8	1168.9	<i>1179.2</i>	1188.2
17.5°	1122.6	1134.2	1152.2	<i>1161.2</i>	1174.1
20°	1098.2	1111.0	1129.1	<i>1148.3</i>	1158.6
22.5°	1075.0	1086.6	1111.0	<i>1123.9</i>	1145.8
25°	1041.6	1062.2	1090.5	<i>1100.8</i>	1125.2
27.5°	1009.5	1032.6	1057.0	<i>1085.3</i>	1095.6
30°	982.5	999.2	1028.7	<i>1053.2</i>	1064.8
32.5°	945.2	968.3	999.2	<i>1028.7</i>	1045.5
35°	910.4	932.3	970.9	<i>999.2</i>	1009.5
37.5°	871.9	896.3	934.9	<i>968.3</i>	987.6
40°	834.6	861.6	904.0	<i>936.2</i>	947.7
42.5°	794.7	823.0	868.0	<i>905.3</i>	915.6
45°	745.8	781.8	832.0	<i>868.0</i>	879.6
47.5°	708.6	742.0	789.6	<i>832.0</i>	848.7
50°	663.5	700.8	753.6	<i>792.1</i>	814.0
52.5°	622.4	657.1	711.1	<i>748.4</i>	774.1
55°	573.5	614.7	671.3	<i>713.7</i>	736.8
57.5°	525.9	568.4	627.5	<i>671.3</i>	694.4
60°	479.7	523.4	587.7	<i>631.4</i>	653.3
62.5°	434.6	480.9	538.8	<i>591.5</i>	609.5
65°	384.5	432.1	498.9	<i>547.8</i>	569.7
67.5°	340.8	383.2	455.2	<i>500.2</i>	524.7
70°	290.6	340.8	406.4	<i>457.8</i>	478.4
72.5°	241.8	294.5	362.6	<i>415.4</i>	435.9
75°	196.7	248.2	317.6	<i>369.1</i>	393.5
77.5°	151.7	204.5	275.2	<i>327.9</i>	348.5
80°	105.4	163.3	234.0	<i>286.8</i>	308.6
82.5°	66.9	126.0	199.3	<i>249.5</i>	270.0
85°	34.7	95.2	167.2	<i>219.9</i>	239.2
87.5°	11.6	72.0	144.0	<i>195.5</i>	214.8
90°	1.3	60.4	131.2	<i>182.6</i>	201.9
92.5°	0.0	57.9	127.3	<i>176.2</i>	194.2
95°	0.0	55.3	123.4	<i>171.0</i>	189.0
97.5°	0.0	54.0	118.3	<i>165.9</i>	183.9
100°	0.0	51.4	115.7	<i>162.0</i>	178.7
102.5°	0.0	50.2	111.9	<i>156.9</i>	173.6
105°	0.0	48.9	108.0	<i>151.7</i>	168.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	43.7	97.7	137.6	151.7
115°	1.3	42.4	93.9	131.2	145.3
117.5°	1.3	39.9	91.3	126.0	138.9
120°	1.3	38.6	87.4	122.2	133.7
122.5°	1.3	37.3	83.6	115.7	128.6
125°	1.3	34.7	79.7	110.6	122.2
127.5°	1.3	32.1	75.9	105.4	115.7
130°	1.3	30.9	72.0	99.0	110.6
132.5°	1.3	28.3	68.2	95.2	104.2
135°	1.3	27.0	64.3	88.7	99.0
137.5°	1.3	24.4	60.4	83.6	92.6
140°	1.3	21.9	55.3	78.4	86.2
142.5°	1.3	20.6	51.4	72.0	79.7
145°	2.6	18.0	46.3	65.6	73.3
147.5°	2.6	16.7	41.1	60.4	66.9
150°	2.6	14.1	36.0	54.0	60.4
152.5°	2.6	12.9	32.1	47.6	54.0
155°	2.6	10.3	27.0	42.4	46.3
157.5°	2.6	9.0	23.1	36.0	41.1
160°	2.6	7.7	19.3	30.9	34.7
162.5°	2.6	6.4	15.4	24.4	28.3
165°	2.6	5.1	11.6	18.0	21.9
167.5°	2.6	3.9	9.0	12.9	16.7
170°	2.6	3.9	6.4	9.0	12.9
172.5°	2.6	2.6	3.9	5.1	7.7
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	46.3	105.4	146.6	162.0
110°	1.3	45.0	101.6	141.5	156.9



(END OF REPORT)