

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: P709810

Luminaire Tested: **8AWS-L3C39-SQR-UNV-5000K-HI**

Issue Date: 9/26/2023

Test Information

Test Method: LM-79-08
Report Number: P709810
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-L3C39-SQR-UNV-5000K-HI
Description: 8foot, Adapt Surface Wrap with, SQR lens and HI lumen setting,
5000K, 90CRI

Light Source: -
Ballast/Driver: -

Summary

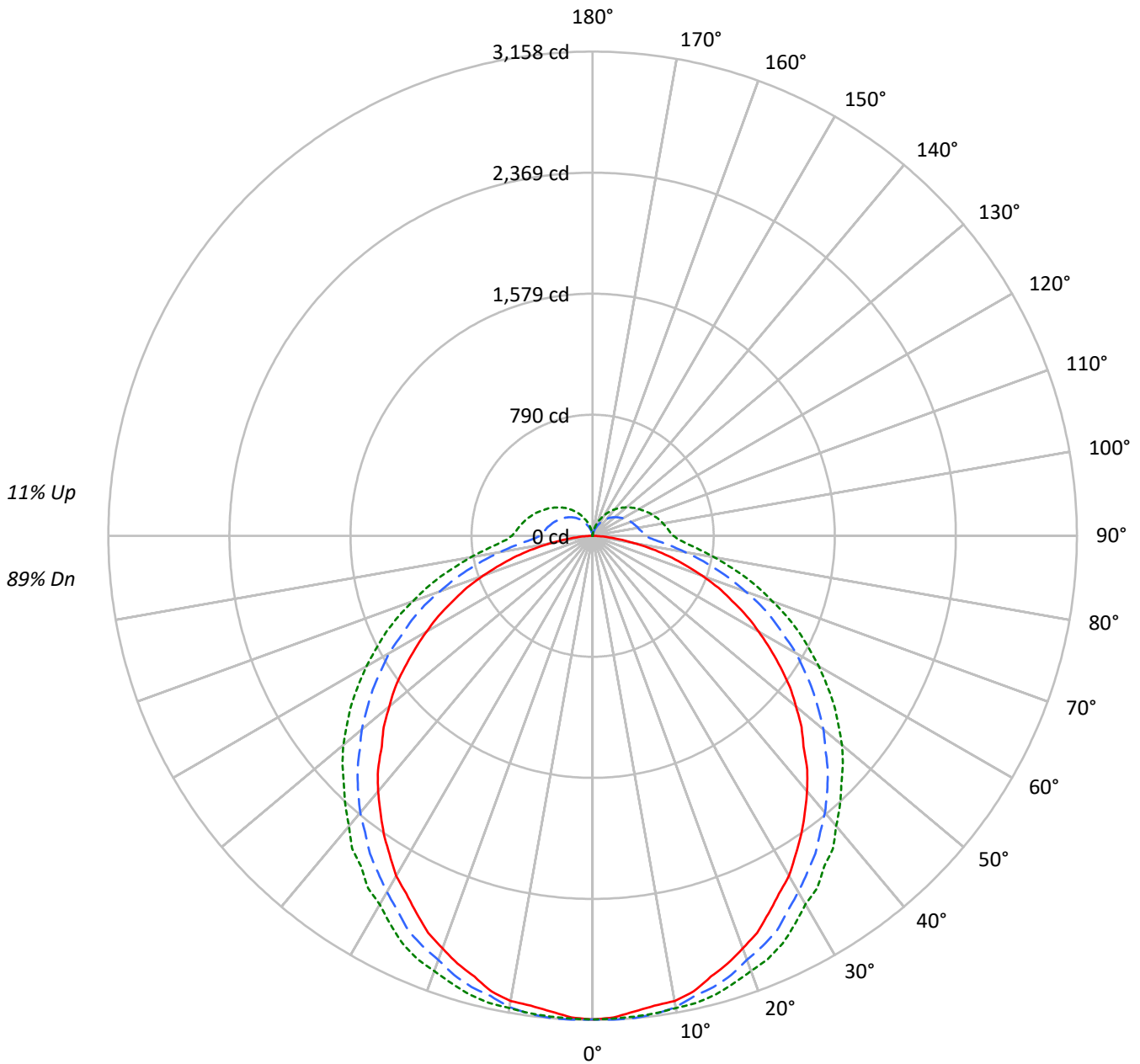
Lumens per Lamp: N/A
Luminaire Lumens: 11010.0 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.46' x L: 7.42' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 83
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				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				89
1	105	100	95	91	101	96	92	88	90	87	83	84	82	79	79	77	75	72				72
2	95	86	79	73	91	83	77	71	78	73	68	73	69	65	69	65	62	59				59
3	86	75	67	60	83	73	65	59	68	62	56	64	59	54	60	56	52	49				49
4	79	67	57	51	76	64	56	50	61	53	48	57	51	46	54	48	44	42				42
5	72	59	50	43	69	57	49	43	54	47	41	51	45	40	48	43	38	36				36
6	67	53	44	38	64	52	43	37	49	41	36	46	40	35	43	38	34	31				31
7	62	48	39	33	59	47	38	33	44	37	32	42	35	31	40	34	30	27				27
8	57	44	35	29	55	43	35	29	40	33	28	38	32	27	36	31	27	24				24
9	54	40	32	26	52	39	31	26	37	30	25	35	29	25	34	28	24	22				22
10	50	37	29	24	48	36	29	23	34	28	23	33	27	22	31	26	22	20				20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9949	9949	9949
5°	9846	9829	9743
10°	9838	9661	9576
15°	9678	9453	9453
20°	9552	9221	9258
25°	9379	9065	9101
30°	9241	8774	8786
35°	9036	8569	8567
40°	8838	8333	8345
45°	8534	8090	8111
50°	8327	7814	7943
55°	8036	7519	7695
60°	7672	7216	7399
65°	7229	6835	7107
70°	6689	6350	6699
75°	5895	5829	6334
80°	4573	5250	5893
85°	2764	4868	5667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.3	2.7
10°-20°	858.3	7.8
20°-30°	1301.7	11.8
30°-40°	1575.5	14.3
40°-50°	1658.7	15.1
50°-60°	1545.0	14.0
60°-70°	1260.2	11.4
70°-80°	849.7	7.7
80°-90°	456.6	4.1
90°-100°	316.5	2.9
100°-110°	270.9	2.5
110°-120°	221.0	2.0
120°-130°	168.0	1.5
130°-140°	116.3	1.1
140°-150°	69.4	0.6
150°-160°	32.3	0.3
160°-170°	9.5	0.1
170°-180°	1.0	0.0
0°-30°	2459.3	22.3
0°-40°	4034.9	36.6
0°-60°	7238.5	65.7
0°-90°	9805.1	89.1
90°-120°	808.4	7.3
90°-150°	1162.1	10.6
90°-180°	1205.0	10.9
0°-180°	11010.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3155	3155	3155	3155	3155	
5°	3115	3148	3158	3158	3148	296
15°	2977	3011	3048	3074	3098	842
25°	2716	2769	2843	2870	2934	1253
35°	2374	2431	2531	2605	2632	1484
45°	1944	2038	2169	2263	2293	1509
55°	1495	1603	1750	1861	1921	1337
65°	1002	1126	1301	1428	1485	996
75°	513	647	828	962	1026	542
85°	90	248	436	573	624	113
90°	3	158	342	476	526	5
95°	0	144	322	446	493	0
105°	0	127	282	396	439	0
115°	3	111	245	342	379	3
125°	3	90	208	288	318	3
135°	3	70	168	231	258	3
145°	7	47	121	171	191	3
155°	7	27	70	111	121	3
165°	7	13	30	47	57	2
175°	7	7	7	7	7	1
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3154.8	3154.8	3154.8	<i>3154.8</i>	3154.8
2.5°	<i>3144.8</i>	<i>3148.1</i>	<i>3158.2</i>	<i>3168.2</i>	<i>3151.5</i>
5°	3114.6	3148.1	3158.2	<i>3158.2</i>	3148.1
7.5°	3091.1	3121.3	3144.8	<i>3138.1</i>	3141.4
10°	3081.1	3097.8	3121.3	<i>3138.1</i>	3128.0
12.5°	3044.2	3054.2	3074.4	<i>3101.2</i>	3121.3
15°	2977.1	3010.7	3047.5	<i>3074.4</i>	3097.8
17.5°	2926.8	2957.0	3004.0	<i>3027.4</i>	3061.0
20°	2863.1	2896.7	2943.6	<i>2993.9</i>	3020.7
22.5°	2802.8	2833.0	2896.7	<i>2930.2</i>	2987.2
25°	2715.6	2769.3	2843.0	<i>2869.9</i>	2933.6
27.5°	2631.8	2692.2	2755.9	<i>2829.6</i>	2856.4
30°	2561.4	2605.0	2682.1	<i>2745.8</i>	2776.0
32.5°	2464.2	2524.5	2605.0	<i>2682.1</i>	2725.7
35°	2373.7	2430.7	2531.2	<i>2605.0</i>	2631.8
37.5°	2273.1	2336.8	2437.4	<i>2524.5</i>	2574.8
40°	2175.9	2246.3	2356.9	<i>2440.7</i>	2470.9
42.5°	2071.9	2145.7	2263.0	<i>2360.3</i>	2387.1
45°	1944.5	2038.4	2169.2	<i>2263.0</i>	2293.2
47.5°	1847.3	1934.5	2058.5	<i>2169.2</i>	2212.7
50°	1730.0	1827.2	1964.6	<i>2065.2</i>	2122.2
52.5°	1622.7	1713.2	1854.0	<i>1951.2</i>	2018.3
55°	1495.3	1602.6	1750.1	<i>1860.7</i>	1921.1
57.5°	1371.2	1481.9	1636.1	<i>1750.1</i>	1810.4
60°	1250.5	1364.5	1532.2	<i>1646.1</i>	1703.1
62.5°	1133.2	1253.9	1404.8	<i>1542.2</i>	1589.1
65°	1002.4	1126.5	1300.8	<i>1428.2</i>	1485.2
67.5°	888.4	999.1	1186.8	<i>1304.2</i>	1367.9
70°	757.7	888.4	1059.4	<i>1193.5</i>	1247.2
72.5°	630.3	767.8	945.4	<i>1082.9</i>	1136.5
75°	513.0	647.1	828.1	<i>962.2</i>	1025.9
77.5°	395.6	533.1	717.5	<i>854.9</i>	908.6
80°	274.9	425.8	610.2	<i>747.6</i>	804.6
82.5°	174.3	328.6	519.7	<i>650.4</i>	704.1
85°	90.5	248.1	435.8	<i>573.3</i>	623.6
87.5°	30.2	187.7	375.5	<i>509.6</i>	559.9
90°	3.4	157.6	342.0	<i>476.1</i>	526.4
92.5°	0.0	150.9	331.9	<i>459.3</i>	506.2
95°	0.0	144.2	321.9	<i>445.9</i>	492.8
97.5°	0.0	140.8	308.4	<i>432.5</i>	479.4
100°	0.0	134.1	301.7	<i>422.4</i>	466.0
102.5°	0.0	130.8	291.7	<i>409.0</i>	452.6
105°	0.0	127.4	281.6	<i>395.6</i>	439.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.4	114.0	254.8	358.7	395.6
115°	3.4	110.6	244.7	342.0	378.8
117.5°	3.4	103.9	238.0	328.6	362.1
120°	3.4	100.6	228.0	318.5	348.7
122.5°	3.4	97.2	217.9	301.7	335.3
125°	3.4	90.5	207.9	288.3	318.5
127.5°	3.4	83.8	197.8	274.9	301.7
130°	3.4	80.5	187.7	258.2	288.3
132.5°	3.4	73.8	177.7	248.1	271.6
135°	3.4	70.4	167.6	231.3	258.2
137.5°	3.4	63.7	157.6	217.9	241.4
140°	3.4	57.0	144.2	204.5	224.6
142.5°	3.4	53.6	134.1	187.7	207.9
145°	6.7	46.9	120.7	171.0	191.1
147.5°	6.7	43.6	107.3	157.6	174.3
150°	6.7	36.9	93.9	140.8	157.6
152.5°	6.7	33.5	83.8	124.0	140.8
155°	6.7	26.8	70.4	110.6	120.7
157.5°	6.7	23.5	60.3	93.9	107.3
160°	6.7	20.1	50.3	80.5	90.5
162.5°	6.7	16.8	40.2	63.7	73.8
165°	6.7	13.4	30.2	46.9	57.0
167.5°	6.7	10.1	23.5	33.5	43.6
170°	6.7	10.1	16.8	23.5	33.5
172.5°	6.7	6.7	10.1	13.4	20.1
175°	6.7	6.7	6.7	6.7	6.7
177.5°	6.7	6.7	3.4	3.4	0.0
180°	3.4	3.4	3.4	3.4	3.4



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	0.0	120.7	274.9	382.2	422.4
110°	3.4	117.3	264.9	368.8	409.0



(END OF REPORT)