

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: P709777

Luminaire Tested: **8AWS-L3C3-SQR-UNV-3500K-HI**

Issue Date: 9/26/2023

Test Information

Test Method: LM-79-08
Report Number: P709777
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-L3C3-SQR-UNV-3500K-HI
Description: 8foot, Adapt Surface Wrap with, SQR lens and HI lumen setting,
3500K, 80CRI

Light Source: -
Ballast/Driver: -

Summary

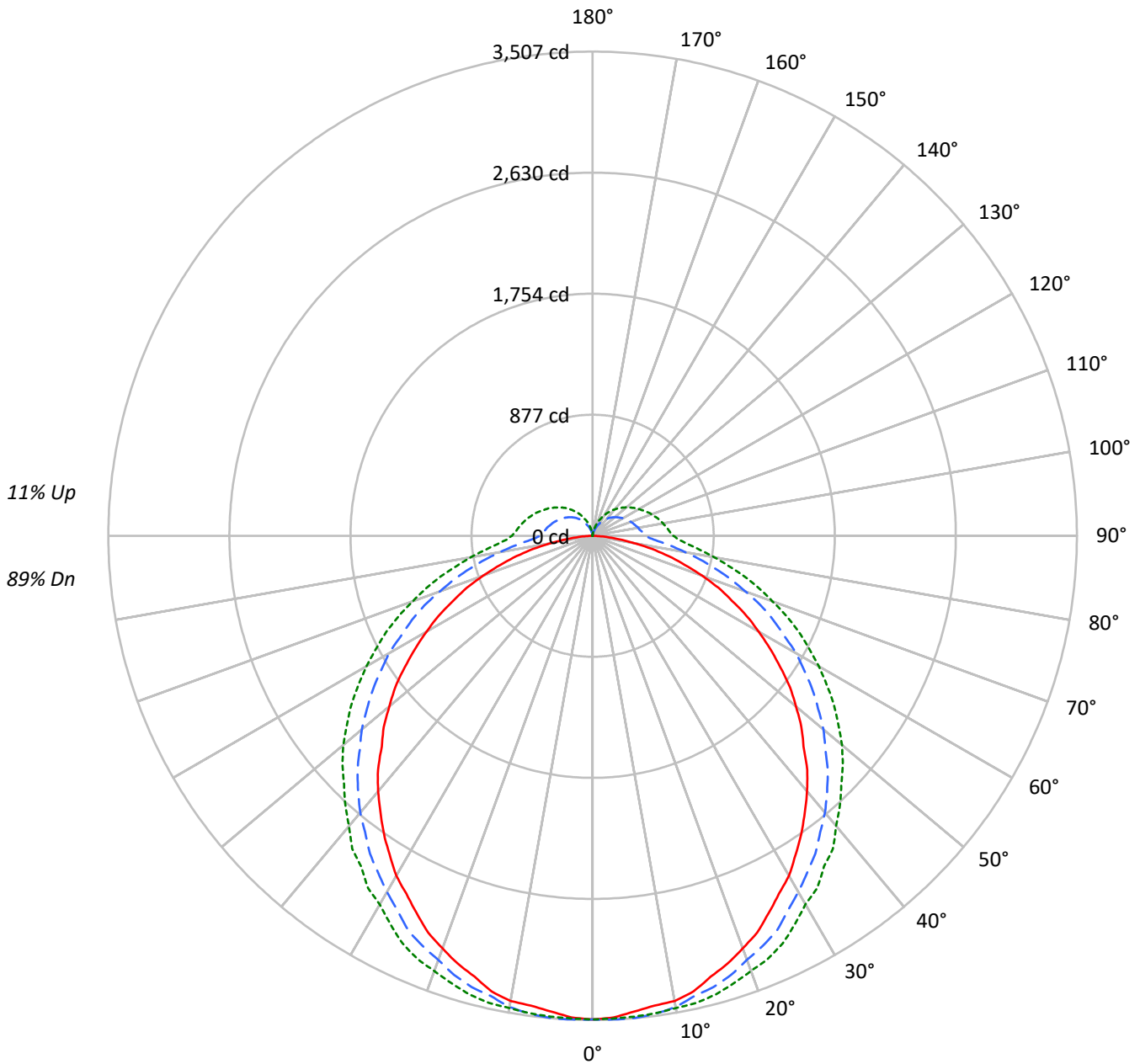
Lumens per Lamp: N/A
Luminaire Lumens: 12226.0 lumens
Efficiency: N/A
Efficacy: 142.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.46' x L: 7.42' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 86
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°	11048	11048	11048
5°	10933	10915	10820
10°	10925	10728	10634
15°	10747	10498	10497
20°	10608	10240	10281
25°	10415	10066	10106
30°	10262	9743	9756
35°	10034	9516	9513
40°	9814	9253	9267
45°	9477	8983	9007
50°	9247	8677	8820
55°	8923	8349	8545
60°	8520	8012	8216
65°	8028	7590	7892
70°	7428	7052	7438
75°	6545	6473	7033
80°	5079	5829	6544
85°	3069	5407	6293



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.4	2.7
10°-20°	953.1	7.8
20°-30°	1445.5	11.8
30°-40°	1749.5	14.3
40°-50°	1841.9	15.1
50°-60°	1715.6	14.0
60°-70°	1399.4	11.4
70°-80°	943.5	7.7
80°-90°	507.1	4.1
90°-100°	351.5	2.9
100°-110°	300.8	2.5
110°-120°	245.4	2.0
120°-130°	186.6	1.5
130°-140°	129.2	1.1
140°-150°	77.0	0.6
150°-160°	35.9	0.3
160°-170°	10.6	0.1
170°-180°	1.1	0.0
0°-30°	2731.0	22.3
0°-40°	4480.5	36.6
0°-60°	8038.0	65.7
0°-90°	10888.0	89.1
90°-120°	897.7	7.3
90°-150°	1290.5	10.6
90°-180°	1338.0	10.9
0°-180°	12226.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3503	3503	3503	3503	3503	
5°	3459	3496	3507	3507	3496	329
15°	3306	3343	3384	3414	3440	934
25°	3016	3075	3157	3187	3258	1391
35°	2636	2699	2811	2893	2922	1648
45°	2159	2264	2409	2513	2546	1675
55°	1660	1780	1943	2066	2133	1485
65°	1113	1251	1444	1586	1649	1107
75°	570	718	920	1068	1139	602
85°	100	276	484	637	692	126
90°	4	175	380	529	584	6
95°	0	160	357	495	547	0
105°	0	142	313	439	488	0
115°	4	123	272	380	421	4
125°	4	100	231	320	354	3
135°	4	78	186	257	287	3
145°	7	52	134	190	212	4
155°	7	30	78	123	134	3
165°	7	15	34	52	63	2
175°	7	7	7	7	7	1
180°	4	4	4	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3503.3	3503.3	3503.3	3503.3	3503.3
2.5°	3492.1	3495.8	3507.0	3518.2	3499.5
5°	3458.6	3495.8	3507.0	3507.0	3495.8
7.5°	3432.5	3466.0	3492.1	3484.6	3488.4
10°	3421.4	3440.0	3466.0	3484.6	3473.5
12.5°	3380.4	3391.6	3413.9	3443.7	3466.0
15°	3305.9	3343.2	3384.1	3413.9	3440.0
17.5°	3250.1	3283.6	3335.7	3361.8	3399.0
20°	3179.4	3216.6	3268.7	3324.6	3354.3
22.5°	3112.4	3145.9	3216.6	3253.8	3317.1
25°	3015.6	3075.1	3157.0	3186.8	3257.5
27.5°	2922.5	2989.5	3060.2	3142.1	3171.9
30°	2844.3	2892.7	2978.3	3049.1	3082.6
32.5°	2736.3	2803.4	2892.7	2978.3	3026.7
35°	2635.8	2699.1	2810.8	2892.7	2922.5
37.5°	2524.1	2594.9	2706.6	2803.4	2859.2
40°	2416.2	2494.4	2617.2	2710.3	2743.8
42.5°	2300.8	2382.7	2513.0	2620.9	2650.7
45°	2159.3	2263.5	2408.7	2513.0	2546.5
47.5°	2051.3	2148.1	2285.9	2408.7	2457.1
50°	1921.0	2029.0	2181.6	2293.3	2356.6
52.5°	1801.9	1902.4	2058.8	2166.7	2241.2
55°	1660.4	1779.6	1943.4	2066.2	2133.2
57.5°	1522.7	1645.5	1816.8	1943.4	2010.4
60°	1388.6	1515.2	1701.4	1828.0	1891.2
62.5°	1258.3	1392.4	1559.9	1712.5	1764.7
65°	1113.2	1250.9	1444.5	1586.0	1649.3
67.5°	986.6	1109.4	1317.9	1448.2	1518.9
70°	841.4	986.6	1176.4	1325.4	1384.9
72.5°	699.9	852.5	1049.9	1202.5	1262.1
75°	569.6	718.5	919.6	1068.5	1139.2
77.5°	439.3	591.9	796.7	949.3	1008.9
80°	305.3	472.8	677.6	830.2	893.5
82.5°	193.6	364.8	577.1	722.2	781.8
85°	100.5	275.5	484.0	636.6	692.5
87.5°	33.5	208.5	417.0	565.9	621.7
90°	3.7	175.0	379.7	528.7	584.5
92.5°	0.0	167.5	368.6	510.0	562.2
95°	0.0	160.1	357.4	495.1	547.3
97.5°	0.0	156.4	342.5	480.3	532.4
100°	0.0	148.9	335.1	469.1	517.5
102.5°	0.0	145.2	323.9	454.2	502.6
105°	0.0	141.5	312.7	439.3	487.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.7	126.6	282.9	398.4	439.3
115°	3.7	122.9	271.8	379.7	420.7
117.5°	3.7	115.4	264.3	364.8	402.1
120°	3.7	111.7	253.2	353.7	387.2
122.5°	3.7	108.0	242.0	335.1	372.3
125°	3.7	100.5	230.8	320.2	353.7
127.5°	3.7	93.1	219.7	305.3	335.1
130°	3.7	89.3	208.5	286.7	320.2
132.5°	3.7	81.9	197.3	275.5	301.6
135°	3.7	78.2	186.1	256.9	286.7
137.5°	3.7	70.7	175.0	242.0	268.0
140°	3.7	63.3	160.1	227.1	249.4
142.5°	3.7	59.6	148.9	208.5	230.8
145°	7.4	52.1	134.0	189.9	212.2
147.5°	7.4	48.4	119.1	175.0	193.6
150°	7.4	41.0	104.2	156.4	175.0
152.5°	7.4	37.2	93.1	137.7	156.4
155°	7.4	29.8	78.2	122.9	134.0
157.5°	7.4	26.1	67.0	104.2	119.1
160°	7.4	22.3	55.8	89.3	100.5
162.5°	7.4	18.6	44.7	70.7	81.9
165°	7.4	14.9	33.5	52.1	63.3
167.5°	7.4	11.2	26.1	37.2	48.4
170°	7.4	11.2	18.6	26.1	37.2
172.5°	7.4	7.4	11.2	14.9	22.3
175°	7.4	7.4	7.4	7.4	7.4
177.5°	7.4	7.4	3.7	3.7	0.0
180°	3.7	3.7	3.7	3.7	3.7



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	0.0	134.0	305.3	424.4	469.1
110°	3.7	130.3	294.1	409.5	454.2



(END OF REPORT)