

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: P709638

Luminaire Tested: **24ARS-L3C3-HO-SQR-UNV-4000K-MID**

Issue Date: 9/22/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709638  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-014-25)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24ARS-L3C3-HO-SQR-UNV-4000K-MID  
Description: ARS 2x4 Selectable High Output 80CRI Square, SET AT 4000K AND, MID LUMEN OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

**Summary**

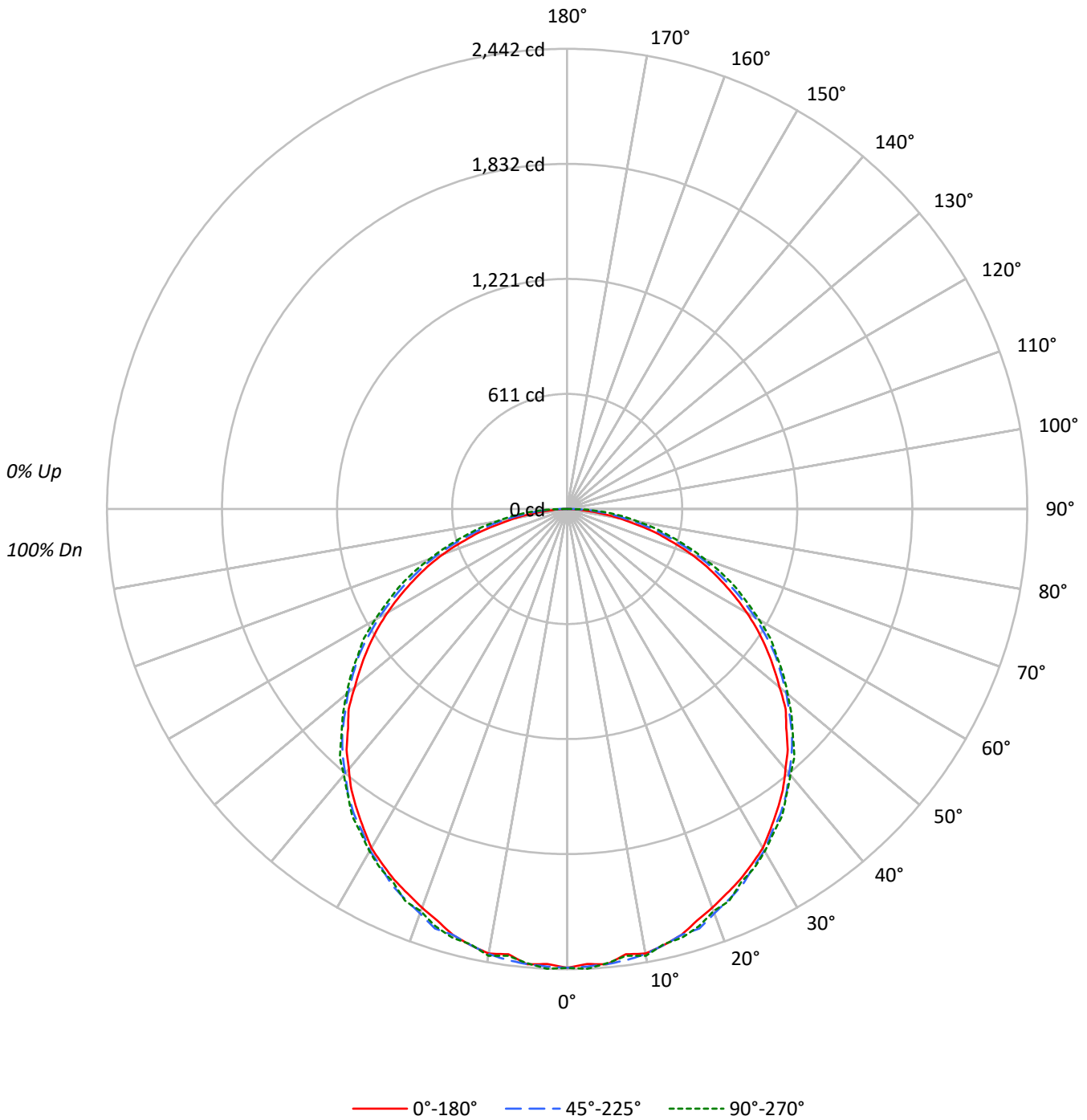
Lumens per Lamp: N/A  
Luminaire Lumens: 7310.0 lumens  
Efficiency: N/A  
Efficacy: 143.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1.83' x L: 3.87' x H: 0')  
CIE Type: Direct

Input Watts (W): 50.8  
Input Voltage (V): NR  
Input Current (Ain): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3700	3700	3700
5°	3701	3699	3692
10°	3696	3701	3715
15°	3683	3683	3706
20°	3642	3694	3674
25°	3641	3691	3663
30°	3646	3673	3681
35°	3612	3663	3689
40°	3576	3635	3657
45°	3533	3628	3639
50°	3480	3587	3613
55°	3421	3570	3593
60°	3349	3499	3580
65°	3245	3415	3550
70°	3113	3334	3446
75°	2859	3157	3364
80°	2410	2970	3336
85°	1632	2958	3669



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.6	3.2
10°-20°	662.9	9.1
20°-30°	1010.7	13.8
30°-40°	1232.0	16.9
40°-50°	1295.8	17.7
50°-60°	1195.0	16.3
60°-70°	938.5	12.8
70°-80°	565.7	7.7
80°-90°	178.9	2.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1904.2	26.0
0°-40°	3136.2	42.9
0°-60°	5627.0	77.0
0°-90°	7310.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7310.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2434	2434	2434	2434	2434	
5°	2426	2428	2425	2437	2420	229
15°	2341	2361	2341	2358	2355	659
25°	2171	2193	2201	2188	2184	1001
35°	1946	1965	1974	1980	1988	1218
45°	1644	1662	1688	1700	1693	1272
55°	1291	1325	1347	1358	1356	1154
65°	902	922	950	977	987	893
75°	487	500	538	565	573	510
85°	94	124	170	202	210	122
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2434.5	2434.5	2434.5	2434.5	2434.5
2.5°	2416.9	2425.7	2430.1	2435.6	2442.3
5°	2425.7	2427.9	2424.6	2436.7	2420.2
7.5°	2383.9	2421.3	2414.7	2416.9	2391.6
10°	2394.9	2391.6	2398.2	2405.9	2407.0
12.5°	2370.6	2376.2	2369.5	2389.4	2366.2
15°	2340.9	2360.7	2340.9	2358.5	2355.2
17.5°	2290.2	2296.8	2334.3	2317.8	2322.2
20°	2251.7	2280.3	2283.6	2281.4	2271.5
22.5°	2209.8	2231.8	2242.9	2253.9	2249.5
25°	2171.3	2193.3	2201.0	2187.8	2184.5
27.5°	2123.9	2133.8	2140.4	2163.5	2149.2
30°	2077.6	2077.6	2093.0	2101.9	2097.4
32.5°	2010.4	2032.5	2026.9	2036.9	2038.0
35°	1946.5	1965.3	1974.1	1979.6	1988.4
37.5°	1880.4	1893.7	1909.1	1915.7	1912.4
40°	1802.2	1813.2	1832.0	1845.2	1843.0
42.5°	1732.8	1750.4	1763.7	1774.7	1785.7
45°	1643.6	1662.3	1687.7	1699.8	1693.2
47.5°	1573.1	1579.7	1599.5	1611.6	1614.9
50°	1471.7	1509.2	1516.9	1541.1	1527.9
52.5°	1381.4	1415.6	1429.9	1447.5	1446.4
55°	1291.1	1325.2	1347.3	1358.3	1356.1
57.5°	1198.5	1226.1	1249.2	1264.6	1279.0
60°	1101.6	1125.8	1151.2	1171.0	1177.6
62.5°	1001.4	1028.9	1050.9	1085.1	1078.5
65°	902.2	922.0	949.6	977.1	987.0
67.5°	803.1	824.0	847.1	873.6	885.7
70°	700.6	718.2	750.2	767.8	775.5
72.5°	587.2	611.4	644.4	668.7	674.2
75°	486.9	500.1	537.6	565.1	572.8
77.5°	371.2	402.1	439.5	467.1	480.3
80°	275.4	301.8	339.3	370.1	381.2
82.5°	184.0	208.2	250.1	287.5	296.3
85°	93.6	124.5	169.6	201.6	210.4
87.5°	31.9	58.4	91.4	105.8	110.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)