

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: P709640

Luminaire Tested: **24ARS-L3C3-HO-SQR-UNV-5000K-LOW**

Issue Date: 9/22/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709640  
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-5000K-LOW  
Description: ARS 2x4 Selectable High Output 80CRI Square, SET AT 5000K AND, LOW LUMEN OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

**Summary**

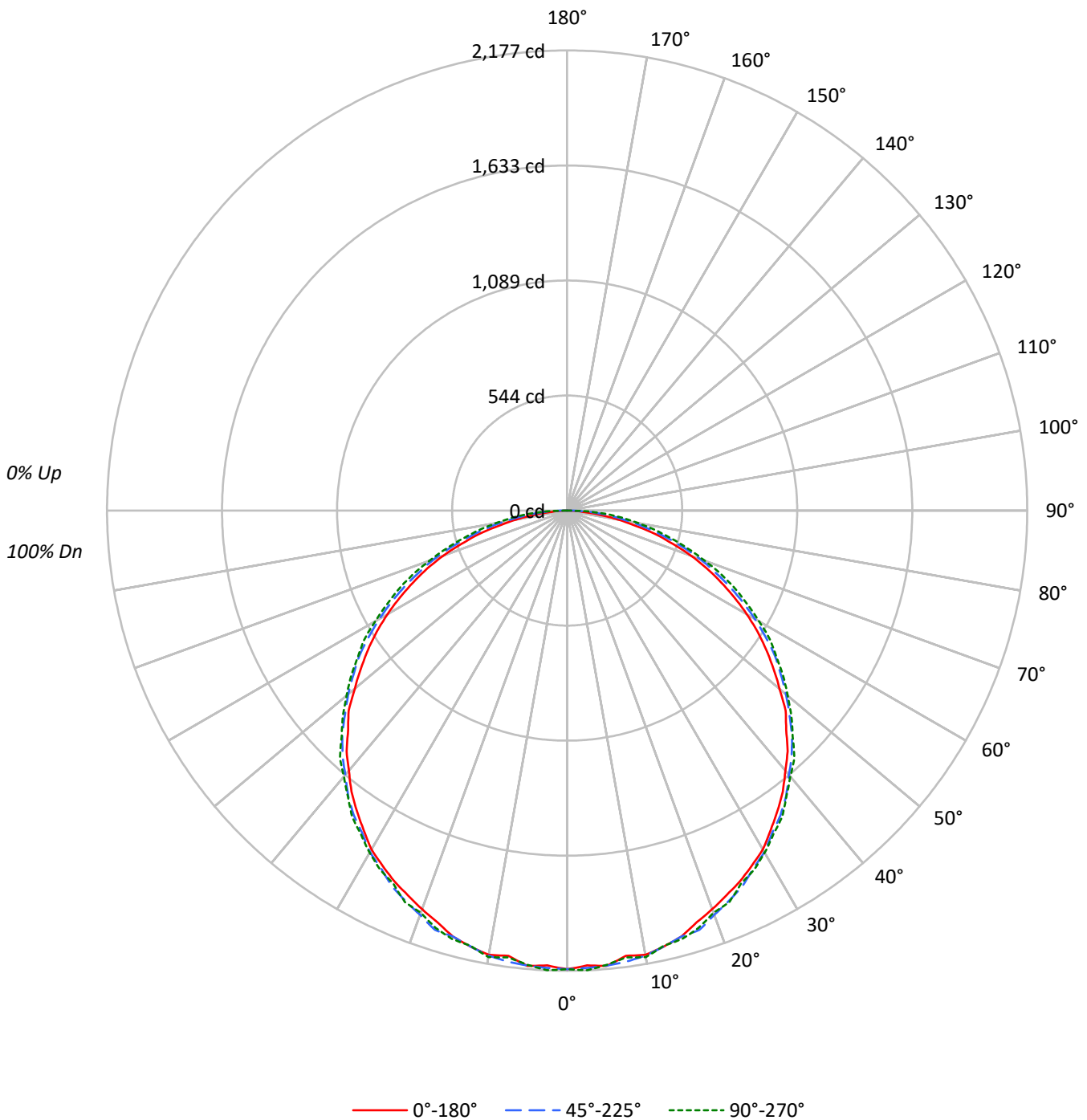
Lumens per Lamp: N/A  
Luminaire Lumens: 6515.0 lumens  
Efficiency: N/A  
Efficacy: 138.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1.83' x L: 3.87' x H: 0')  
CIE Type: Direct

Input Watts (W): 47.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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°	3298	3298	3298
5°	3298	3297	3291
10°	3294	3299	3311
15°	3283	3283	3303
20°	3246	3292	3274
25°	3245	3290	3265
30°	3250	3274	3281
35°	3219	3264	3288
40°	3187	3239	3259
45°	3148	3233	3243
50°	3102	3197	3220
55°	3049	3182	3203
60°	2984	3119	3190
65°	2892	3044	3164
70°	2775	2971	3072
75°	2549	2813	2998
80°	2148	2647	2973
85°	1456	2637	3270



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.5	3.2
10°-20°	590.8	9.1
20°-30°	900.8	13.8
30°-40°	1098.0	16.9
40°-50°	1154.9	17.7
50°-60°	1065.0	16.3
60°-70°	836.4	12.8
70°-80°	504.2	7.7
80°-90°	159.5	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°	1697.1	26.0
0°-40°	2795.1	42.9
0°-60°	5015.0	77.0
0°-90°	6515.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6515.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2170	2170	2170	2170	2170	
5°	2162	2164	2161	2172	2157	204
15°	2086	2104	2086	2102	2099	587
25°	1935	1955	1962	1950	1947	892
35°	1735	1752	1759	1764	1772	1086
45°	1465	1482	1504	1515	1509	1133
55°	1151	1181	1201	1211	1209	1028
65°	804	822	846	871	880	796
75°	434	446	479	504	510	454
85°	84	111	151	180	188	108
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2169.8	2169.8	2169.8	2169.8	2169.8
2.5°	2154.1	2161.9	2165.8	2170.8	2176.6
5°	2161.9	2163.9	2160.9	2171.7	2157.0
7.5°	2124.6	2158.0	2152.1	2154.1	2131.5
10°	2134.4	2131.5	2137.4	2144.2	2145.2
12.5°	2112.8	2117.7	2111.8	2129.5	2108.9
15°	2086.3	2104.0	2086.3	2102.0	2099.1
17.5°	2041.2	2047.0	2080.4	2065.7	2069.6
20°	2006.8	2032.3	2035.3	2033.3	2024.5
22.5°	1969.5	1989.1	1998.9	2008.8	2004.8
25°	1935.1	1954.8	1961.6	1949.8	1946.9
27.5°	1892.9	1901.7	1907.6	1928.2	1915.5
30°	1851.7	1851.7	1865.4	1873.3	1869.3
32.5°	1791.8	1811.4	1806.5	1815.3	1816.3
35°	1734.8	1751.5	1759.4	1764.3	1772.1
37.5°	1675.9	1687.7	1701.5	1707.3	1704.4
40°	1606.2	1616.0	1632.7	1644.5	1642.5
42.5°	1544.4	1560.1	1571.9	1581.7	1591.5
45°	1464.8	1481.5	1504.1	1514.9	1509.0
47.5°	1402.0	1407.9	1425.6	1436.4	1439.3
50°	1311.7	1345.1	1351.9	1373.5	1361.8
52.5°	1231.2	1261.6	1274.4	1290.1	1289.1
55°	1150.7	1181.1	1200.7	1210.6	1208.6
57.5°	1068.2	1092.7	1113.4	1127.1	1139.9
60°	981.8	1003.4	1026.0	1043.6	1049.5
62.5°	892.5	917.0	936.6	967.1	961.2
65°	804.1	821.8	846.3	870.9	879.7
67.5°	715.7	734.4	755.0	778.6	789.4
70°	624.4	640.1	668.6	684.3	691.2
72.5°	523.3	544.9	574.4	596.0	600.9
75°	434.0	445.7	479.1	503.7	510.5
77.5°	330.9	358.4	391.7	416.3	428.1
80°	245.4	269.0	302.4	329.9	339.7
82.5°	164.0	185.6	222.9	256.2	264.1
85°	83.5	110.9	151.2	179.7	187.5
87.5°	28.5	52.0	81.5	94.3	98.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)