

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: P721821

Luminaire Tested: **22ARS-L3C3-HO-UNV-4000K-HI**

Issue Date: 10/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P721821  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-014-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22ARS-L3C3-HO-UNV-4000K-HI  
Description: ARS 2x2 Selectable High Output 80CRI , SET AT 4000K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

**Summary**

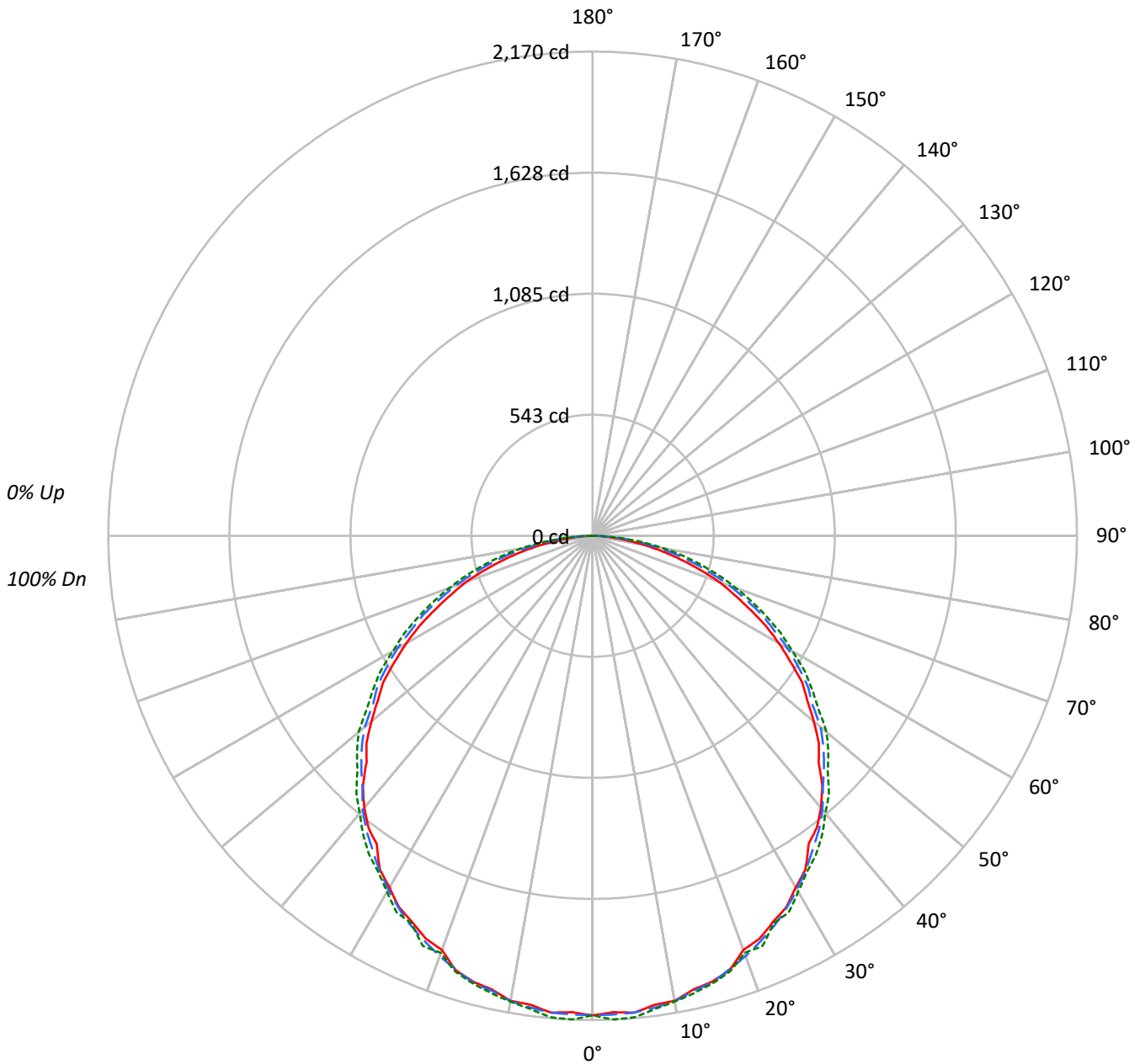
Lumens per Lamp: N/A  
Luminaire Lumens: 6372.0 lumens  
Efficiency: N/A  
Efficacy: 141.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular (W 1.97' x L: 1.97' x H: 0')  
CIE Type: Direct

Input Watts (W): 45.1  
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	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	94	97	94	91	93	90	88	89	87	85	83								
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69								
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58								
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49								
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42								
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37								
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32								
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29								
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26								
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23								

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

	0°	45°	90°
0°	5961	5961	5961
5°	5972	5972	6030
10°	5960	5966	5972
15°	5939	5951	5963
20°	5830	5916	5873
25°	5848	5899	5867
30°	5828	5861	5901
35°	5712	5818	5909
40°	5763	5801	5876
45°	5618	5748	5845
50°	5580	5750	5902
55°	5542	5692	5803
60°	5346	5599	5725
65°	5087	5482	5658
70°	4874	5295	5530
75°	4353	4997	5375
80°	3707	4568	5132
85°	2508	4022	4220



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.9	3.2
10°-20°	584.4	9.2
20°-30°	888.6	13.9
30°-40°	1077.5	16.9
40°-50°	1132.6	17.8
50°-60°	1044.2	16.4
60°-70°	817.1	12.8
70°-80°	488.1	7.7
80°-90°	135.7	2.1
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°	1676.9	26.3
0°-40°	2754.4	43.2
0°-60°	4931.1	77.4
0°-90°	6372.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6372.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2149	2149	2149	2149	2149	
5°	2145	2131	2145	2158	2166	203
15°	2068	2060	2073	2079	2077	582
25°	1911	1921	1928	1948	1917	882
35°	1687	1712	1718	1731	1745	1068
45°	1432	1447	1465	1486	1490	1114
55°	1146	1148	1177	1192	1200	1015
65°	775	802	835	850	862	771
75°	406	433	466	493	502	433
85°	79	97	126	137	133	101
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2149.3	2149.3	2149.3	2149.3	2149.3
2.5°	2136.8	2149.3	2147.2	2161.7	2170.0
5°	2145.1	2130.6	2145.1	2157.6	2165.9
7.5°	2120.3	2124.4	2132.7	2136.8	2138.9
10°	2116.1	2107.8	2118.2	2130.6	2120.3
12.5°	2082.9	2078.8	2089.2	2118.2	2099.5
15°	2068.4	2060.1	2072.6	2078.8	2076.7
17.5°	2041.5	2037.4	2037.4	2049.8	2047.7
20°	1975.2	2002.1	2004.2	2029.1	1989.7
22.5°	1954.4	1964.8	1966.9	1985.5	1989.7
25°	1910.9	1921.3	1927.5	1948.2	1917.1
27.5°	1877.8	1871.5	1881.9	1886.1	1902.6
30°	1819.7	1815.6	1830.1	1842.5	1842.5
32.5°	1774.1	1772.1	1778.3	1786.6	1786.6
35°	1687.1	1712.0	1718.2	1730.6	1745.1
37.5°	1649.8	1643.6	1664.3	1682.9	1689.2
40°	1591.7	1583.5	1602.1	1610.4	1622.8
42.5°	1523.4	1523.4	1527.5	1558.6	1566.9
45°	1432.2	1446.7	1465.3	1486.0	1490.2
47.5°	1374.1	1367.9	1403.1	1415.6	1432.2
50°	1293.3	1303.7	1332.7	1341.0	1367.9
52.5°	1212.5	1222.8	1239.4	1266.3	1274.6
55°	1146.1	1148.2	1177.2	1191.7	1200.0
57.5°	1050.8	1061.2	1092.3	1108.8	1125.4
60°	963.8	970.0	1009.3	1030.1	1032.1
62.5°	874.6	891.2	916.1	943.0	953.4
65°	775.1	802.1	835.3	849.8	862.2
67.5°	684.0	702.6	739.9	768.9	773.1
70°	601.0	615.6	652.9	675.7	681.9
72.5°	501.6	524.4	555.5	588.6	594.8
75°	406.2	433.2	466.3	493.3	501.6
77.5°	317.1	342.0	377.2	400.0	414.5
80°	232.1	248.7	286.0	313.0	321.3
82.5°	149.2	170.0	205.2	232.1	232.1
85°	78.8	97.4	126.4	136.8	132.6
87.5°	26.9	37.3	43.5	49.7	51.8
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







(END OF REPORT)