

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: P709612

Luminaire Tested: **22ARS-L3C3-HO-SQR-UNV-5000K-HI**

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-014-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22ARS-L3C3-HO-SQR-UNV-5000K-HI
Description: ARS 2x2 Selectable High Output 80CRI Square, SET AT 5000K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

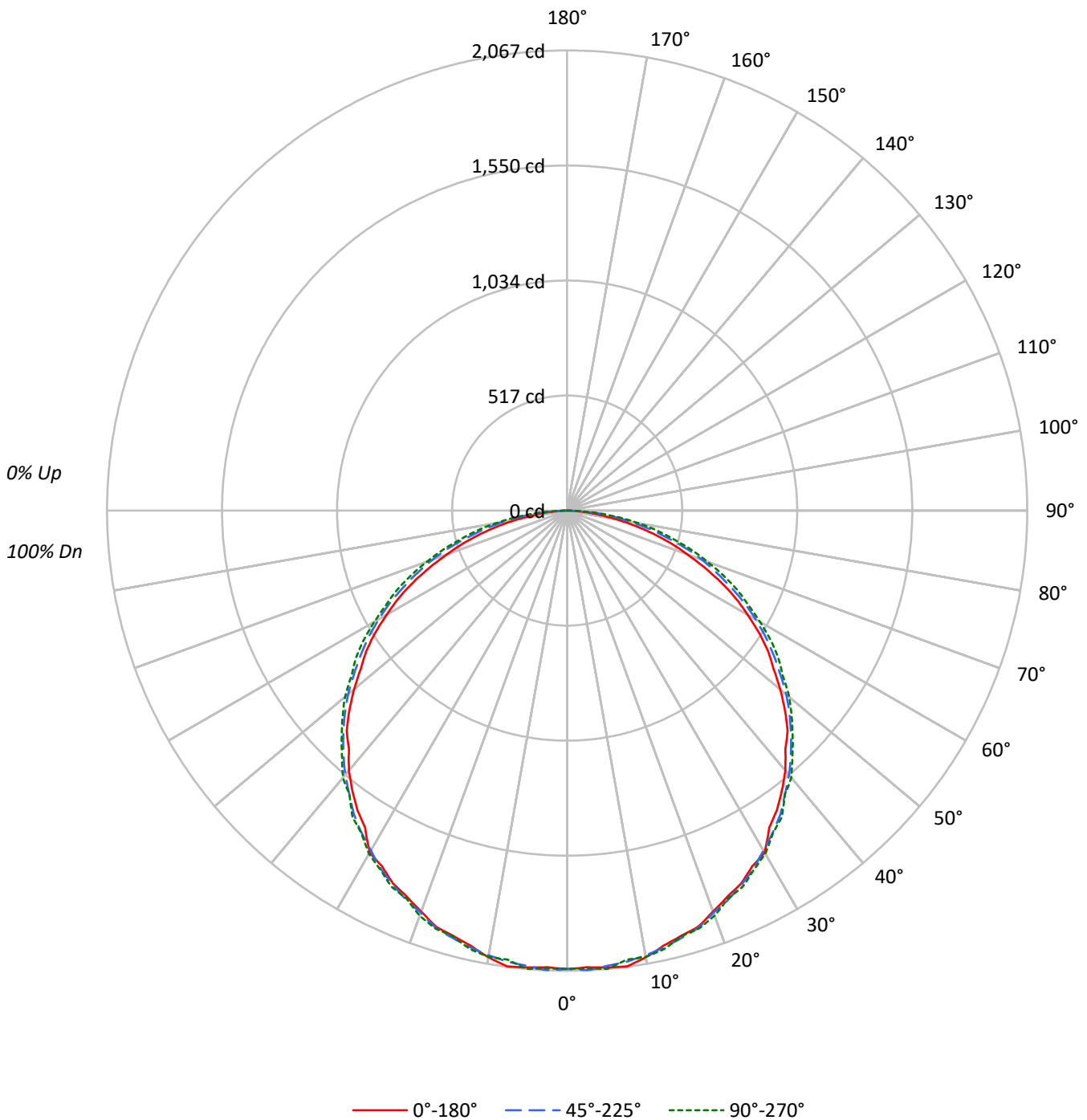
Lumens per Lamp: N/A
Luminaire Lumens: 6175.0 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1.97' x L: 1.97' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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	
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	88	89	87	85	83
2	98	90	83	77	96	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	61	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	45	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°	5711	5711	5711
5°	5735	5717	5754
10°	5737	5713	5732
15°	5679	5707	5685
20°	5657	5674	5716
25°	5658	5673	5707
30°	5682	5645	5700
35°	5561	5648	5690
40°	5520	5614	5673
45°	5493	5579	5620
50°	5391	5539	5622
55°	5330	5473	5607
60°	5192	5425	5547
65°	5013	5307	5533
70°	4652	5217	5434
75°	4271	4917	5296
80°	3557	4626	5177
85°	2676	4290	4532



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.4	3.2
10°-20°	560.4	9.1
20°-30°	853.6	13.8
30°-40°	1039.1	16.8
40°-50°	1094.3	17.7
50°-60°	1011.4	16.4
60°-70°	797.8	12.9
70°-80°	482.7	7.8
80°-90°	140.2	2.3
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°	1609.4	26.1
0°-40°	2648.6	42.9
0°-60°	4754.3	77.0
0°-90°	6175.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6175.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2059	2059	2059	2059	2059	
5°	2060	2050	2053	2051	2067	196
15°	1978	1986	1987	1981	1980	559
25°	1849	1844	1854	1856	1865	851
35°	1642	1649	1668	1671	1680	1028
45°	1400	1401	1422	1434	1433	1075
55°	1102	1110	1132	1156	1160	981
65°	764	780	809	836	843	752
75°	399	424	459	491	494	421
85°	84	104	135	139	142	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2059.1	2059.1	2059.1	2059.1	2059.1
2.5°	2053.3	2063.9	2066.7	2058.1	2057.2
5°	2060.0	2050.5	2053.3	2051.4	2066.7
7.5°	2064.8	2049.5	2043.8	2039.0	2035.2
10°	2037.1	2030.4	2028.5	2027.5	2035.2
12.5°	2001.7	2007.5	2009.4	2006.5	2017.0
15°	1977.8	1985.5	1987.4	1980.7	1979.7
17.5°	1959.7	1953.9	1964.4	1953.9	1968.3
20°	1916.6	1921.4	1922.4	1931.9	1936.7
22.5°	1878.4	1891.8	1891.8	1898.5	1886.1
25°	1848.8	1844.0	1853.6	1856.4	1865.0
27.5°	1801.0	1798.1	1813.4	1802.9	1817.2
30°	1774.2	1758.9	1762.7	1770.4	1779.9
32.5°	1689.1	1712.1	1717.8	1721.6	1719.7
35°	1642.3	1649.0	1668.1	1671.0	1680.5
37.5°	1584.9	1583.0	1606.9	1616.5	1606.9
40°	1524.7	1530.4	1550.5	1561.0	1566.8
42.5°	1451.1	1464.5	1487.4	1498.9	1497.9
45°	1400.4	1401.4	1422.4	1433.9	1432.9
47.5°	1326.8	1335.4	1355.5	1372.7	1367.9
50°	1249.4	1263.7	1283.8	1299.1	1302.9
52.5°	1169.1	1186.3	1207.3	1237.9	1221.7
55°	1102.2	1109.8	1131.8	1155.7	1159.5
57.5°	1022.8	1031.5	1057.3	1078.3	1085.0
60°	935.9	944.5	977.9	1003.7	999.9
62.5°	854.6	868.0	896.7	919.6	916.7
65°	763.8	780.0	808.7	836.4	843.1
67.5°	667.2	689.2	725.6	756.1	757.1
70°	573.6	599.4	643.3	668.2	670.1
72.5°	490.4	509.5	555.4	582.2	584.1
75°	398.6	424.4	458.8	491.3	494.2
77.5°	309.7	336.5	375.7	407.2	413.9
80°	222.7	252.4	289.6	319.3	324.1
82.5°	146.3	174.9	211.3	238.0	238.0
85°	84.1	104.2	134.8	138.6	142.4
87.5°	27.7	40.1	50.7	54.5	55.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)