

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: P709611

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

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709611
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-4000K-MID
Description: ARS 2x2 Selectable High Output 80CRI Square, SET AT 4000K AND, MID LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

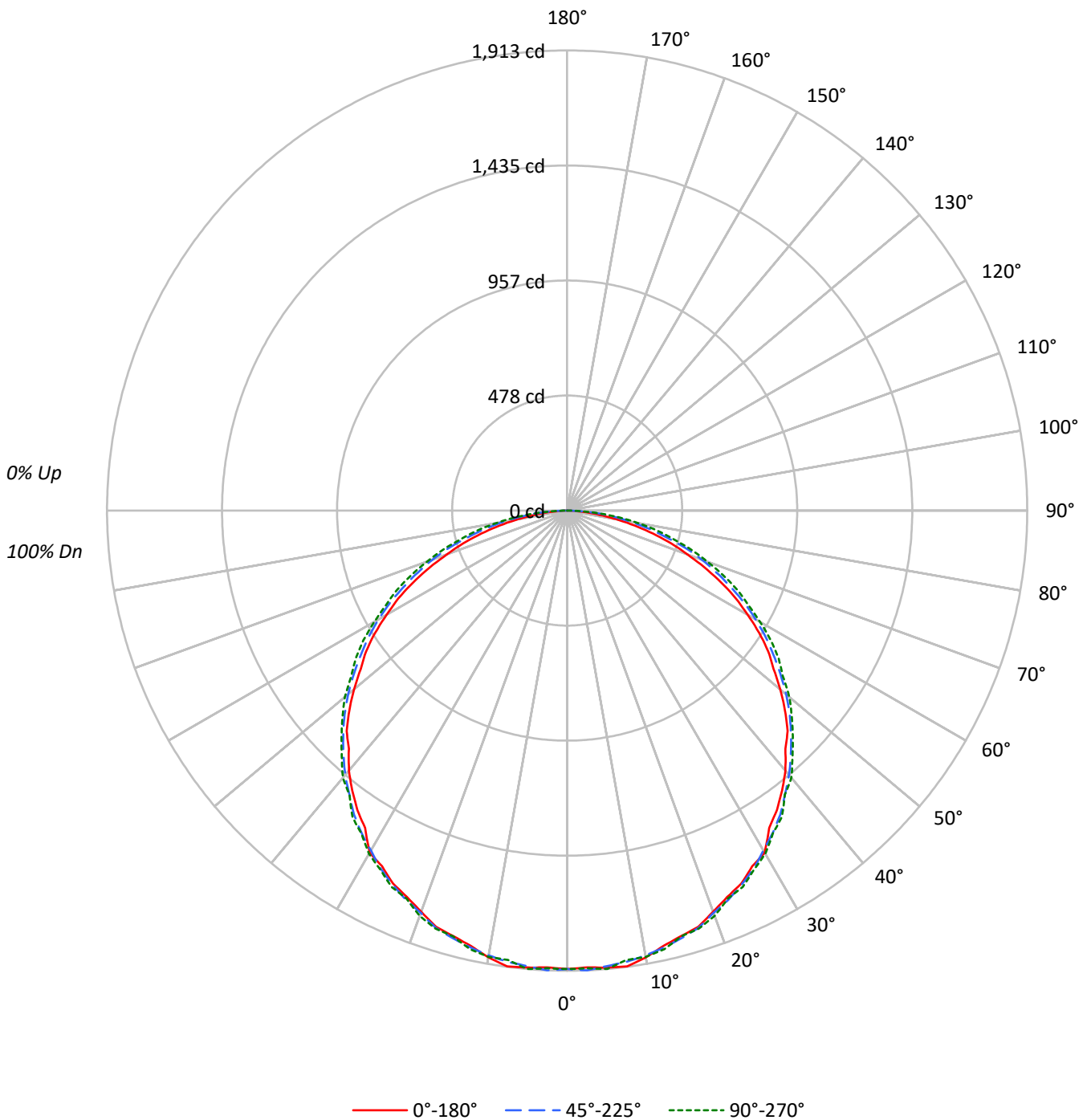
Lumens per Lamp: N/A
Luminaire Lumens: 5716.0 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1.97' x L: 1.97' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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°	5286	5286	5286
5°	5309	5292	5326
10°	5311	5288	5306
15°	5257	5283	5262
20°	5237	5252	5292
25°	5237	5251	5283
30°	5260	5226	5277
35°	5147	5228	5267
40°	5110	5197	5251
45°	5085	5165	5203
50°	4990	5128	5204
55°	4934	5066	5190
60°	4805	5021	5134
65°	4640	4913	5122
70°	4305	4829	5030
75°	3954	4551	4903
80°	3293	4282	4792
85°	2479	3972	4194



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.9	3.2
10°-20°	518.7	9.1
20°-30°	790.2	13.8
30°-40°	961.9	16.8
40°-50°	1013.0	17.7
50°-60°	936.2	16.4
60°-70°	738.5	12.9
70°-80°	446.8	7.8
80°-90°	129.8	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°	1489.8	26.1
0°-40°	2451.7	42.9
0°-60°	4400.9	77.0
0°-90°	5716.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5716.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1906	1906	1906	1906	1906	
5°	1907	1898	1901	1899	1913	182
15°	1831	1838	1840	1834	1833	518
25°	1711	1707	1716	1718	1726	788
35°	1520	1526	1544	1547	1556	952
45°	1296	1297	1317	1327	1326	995
55°	1020	1027	1048	1070	1073	908
65°	707	722	749	774	780	696
75°	369	393	425	455	458	390
85°	78	96	125	128	132	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1906.0	1906.0	1906.0	1906.0	1906.0
2.5°	1900.7	1910.4	1913.1	1905.1	1904.3
5°	1906.9	1898.1	1900.7	1898.9	1913.1
7.5°	1911.3	1897.2	1891.9	1887.4	1883.9
10°	1885.7	1879.5	1877.7	1876.8	1883.9
12.5°	1852.9	1858.2	1860.0	1857.4	1867.1
15°	1830.8	1837.9	1839.7	1833.5	1832.6
17.5°	1814.0	1808.7	1818.4	1808.7	1822.0
20°	1774.2	1778.6	1779.5	1788.3	1792.8
22.5°	1738.8	1751.2	1751.2	1757.4	1745.9
25°	1711.3	1706.9	1715.8	1718.4	1726.4
27.5°	1667.1	1664.5	1678.6	1668.9	1682.1
30°	1642.3	1628.2	1631.7	1638.8	1647.6
32.5°	1563.6	1584.8	1590.1	1593.7	1591.9
35°	1520.2	1526.4	1544.1	1546.8	1555.6
37.5°	1467.1	1465.4	1487.5	1496.3	1487.5
40°	1411.4	1416.7	1435.3	1445.0	1450.3
42.5°	1343.2	1355.6	1376.9	1387.5	1386.6
45°	1296.3	1297.2	1316.7	1327.3	1326.4
47.5°	1228.2	1236.2	1254.8	1270.7	1266.3
50°	1156.5	1169.8	1188.4	1202.5	1206.1
52.5°	1082.2	1098.1	1117.6	1145.9	1130.9
55°	1020.3	1027.3	1047.7	1069.8	1073.4
57.5°	946.8	954.8	978.7	998.1	1004.3
60°	866.3	874.3	905.2	929.1	925.6
62.5°	791.1	803.5	830.0	851.3	848.6
65°	707.0	722.1	748.6	774.3	780.5
67.5°	617.6	638.0	671.6	699.9	700.8
70°	530.9	554.8	595.5	618.5	620.3
72.5°	453.9	471.6	514.1	538.9	540.7
75°	369.0	392.9	424.7	454.8	457.5
77.5°	286.7	311.5	347.8	377.0	383.2
80°	206.2	233.6	268.1	295.5	300.0
82.5°	135.4	161.9	195.6	220.3	220.3
85°	77.9	96.5	124.8	128.3	131.8
87.5°	25.7	37.2	46.9	50.4	51.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)