

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: P709610

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

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709610
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-LOW
Description: ARS 2x2 Selectable High Output 80CRI Square, SET AT 4000K AND, LOW LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

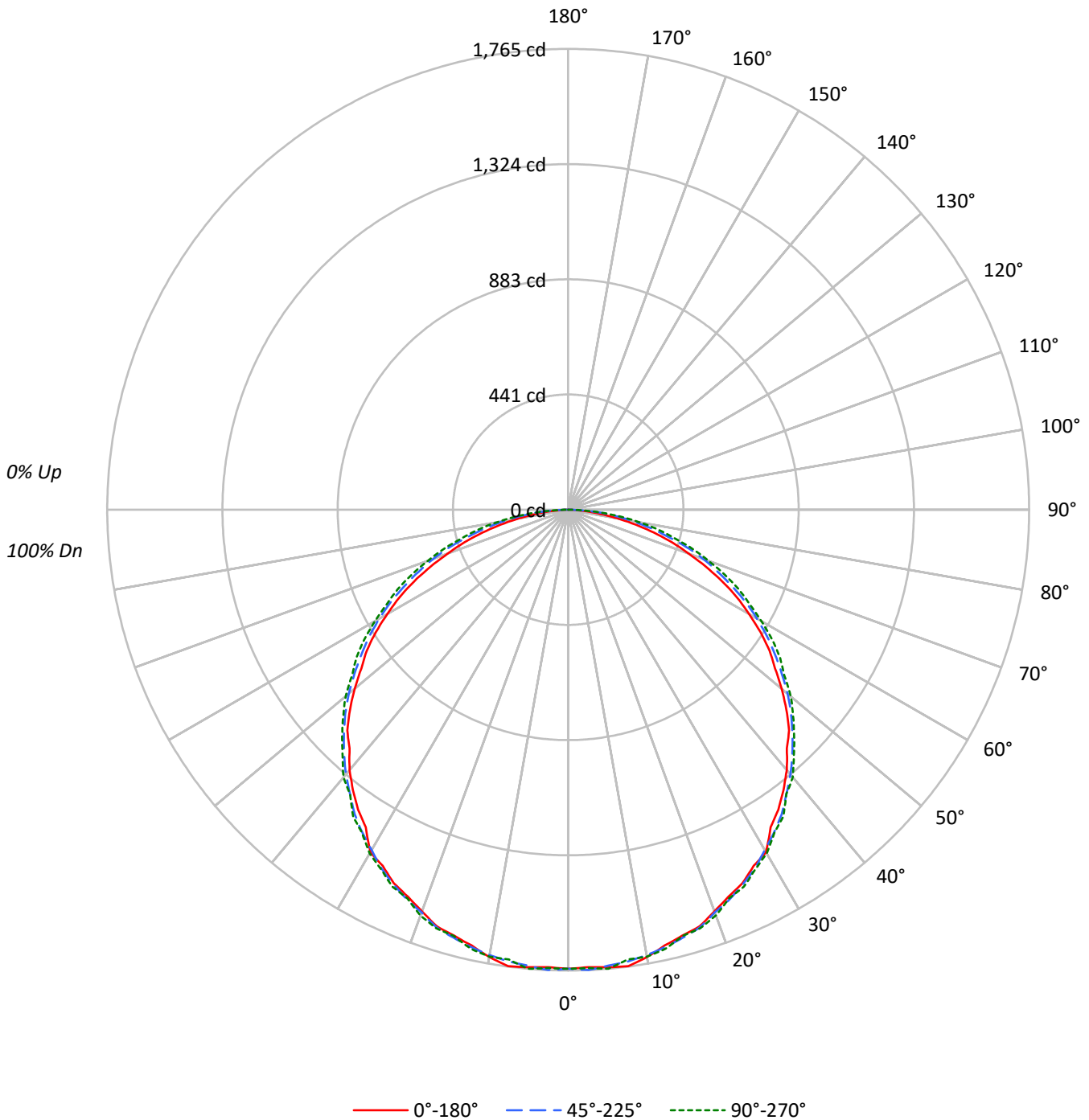
Lumens per Lamp: N/A
Luminaire Lumens: 5273.0 lumens
Efficiency: N/A
Efficacy: 141.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1.97' x L: 1.97' x H: 0')
CIE Type: Direct

Input Watts (W): 37.3
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83				83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68				68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	59	57				57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49				49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	45	55	49	44	42				42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36				36
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32				32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29				29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	28	26				26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23				23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4877	4877	4877
5°	4898	4882	4913
10°	4899	4878	4895
15°	4850	4873	4854
20°	4831	4845	4881
25°	4831	4844	4874
30°	4852	4821	4868
35°	4748	4823	4859
40°	4714	4794	4844
45°	4691	4764	4799
50°	4604	4730	4801
55°	4551	4674	4788
60°	4433	4632	4736
65°	4280	4532	4725
70°	3972	4455	4640
75°	3648	4199	4522
80°	3038	3950	4420
85°	2285	3663	3870



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.9	3.2
10°-20°	478.5	9.1
20°-30°	728.9	13.8
30°-40°	887.4	16.8
40°-50°	934.5	17.7
50°-60°	863.7	16.4
60°-70°	681.3	12.9
70°-80°	412.2	7.8
80°-90°	119.7	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°	1374.3	26.1
0°-40°	2261.7	42.9
0°-60°	4059.8	77.0
0°-90°	5273.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5273.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1758	1758	1758	1758	1758	
5°	1759	1751	1753	1752	1765	168
15°	1689	1695	1697	1691	1690	478
25°	1579	1575	1583	1585	1593	727
35°	1402	1408	1424	1427	1435	878
45°	1196	1197	1215	1224	1224	918
55°	941	948	966	987	990	838
65°	652	666	691	714	720	642
75°	340	362	392	420	422	359
85°	72	89	115	118	122	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1758.3	1758.3	1758.3	1758.3	1758.3
2.5°	1753.4	1762.4	1764.8	1757.5	1756.7
5°	1759.1	1751.0	1753.4	1751.8	1764.8
7.5°	1763.2	1750.1	1745.2	1741.2	1737.9
10°	1739.5	1733.8	1732.2	1731.4	1737.9
12.5°	1709.3	1714.2	1715.9	1713.4	1722.4
15°	1688.9	1695.4	1697.1	1691.4	1690.5
17.5°	1673.4	1668.5	1677.5	1668.5	1680.8
20°	1636.7	1640.8	1641.6	1649.7	1653.8
22.5°	1604.0	1615.4	1615.4	1621.2	1610.6
25°	1578.7	1574.6	1582.8	1585.2	1592.6
27.5°	1537.9	1535.5	1548.5	1539.5	1551.8
30°	1515.0	1502.0	1505.2	1511.8	1519.9
32.5°	1442.4	1462.0	1466.9	1470.1	1468.5
35°	1402.4	1408.1	1424.4	1426.9	1435.0
37.5°	1353.4	1351.8	1372.2	1380.4	1372.2
40°	1302.0	1306.9	1324.0	1333.0	1337.9
42.5°	1239.1	1250.6	1270.2	1280.0	1279.1
45°	1195.9	1196.7	1214.6	1224.4	1223.6
47.5°	1133.0	1140.4	1157.5	1172.2	1168.1
50°	1066.9	1079.1	1096.3	1109.3	1112.6
52.5°	998.3	1013.0	1031.0	1057.1	1043.2
55°	941.2	947.7	966.5	986.9	990.2
57.5°	873.4	880.8	902.8	920.8	926.5
60°	799.2	806.5	835.1	857.1	853.8
62.5°	729.8	741.2	765.7	785.3	782.8
65°	652.2	666.1	690.6	714.3	720.0
67.5°	569.8	588.5	619.6	645.7	646.5
70°	489.8	511.8	549.4	570.6	572.2
72.5°	418.8	435.1	474.3	497.1	498.8
75°	340.4	362.4	391.8	419.6	422.0
77.5°	264.5	287.3	320.8	347.7	353.5
80°	190.2	215.5	247.3	272.6	276.7
82.5°	124.9	149.4	180.4	203.3	203.3
85°	71.8	89.0	115.1	118.4	121.6
87.5°	23.7	34.3	43.3	46.5	47.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)