

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: P709624

Luminaire Tested: **22ARS-L3C39-UNV-3500K-HI**

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709624
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-L3C39-UNV-3500K-HI
Description: ARS 2x2 Selectable Standard 90CRI Round, SET AT 3500K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

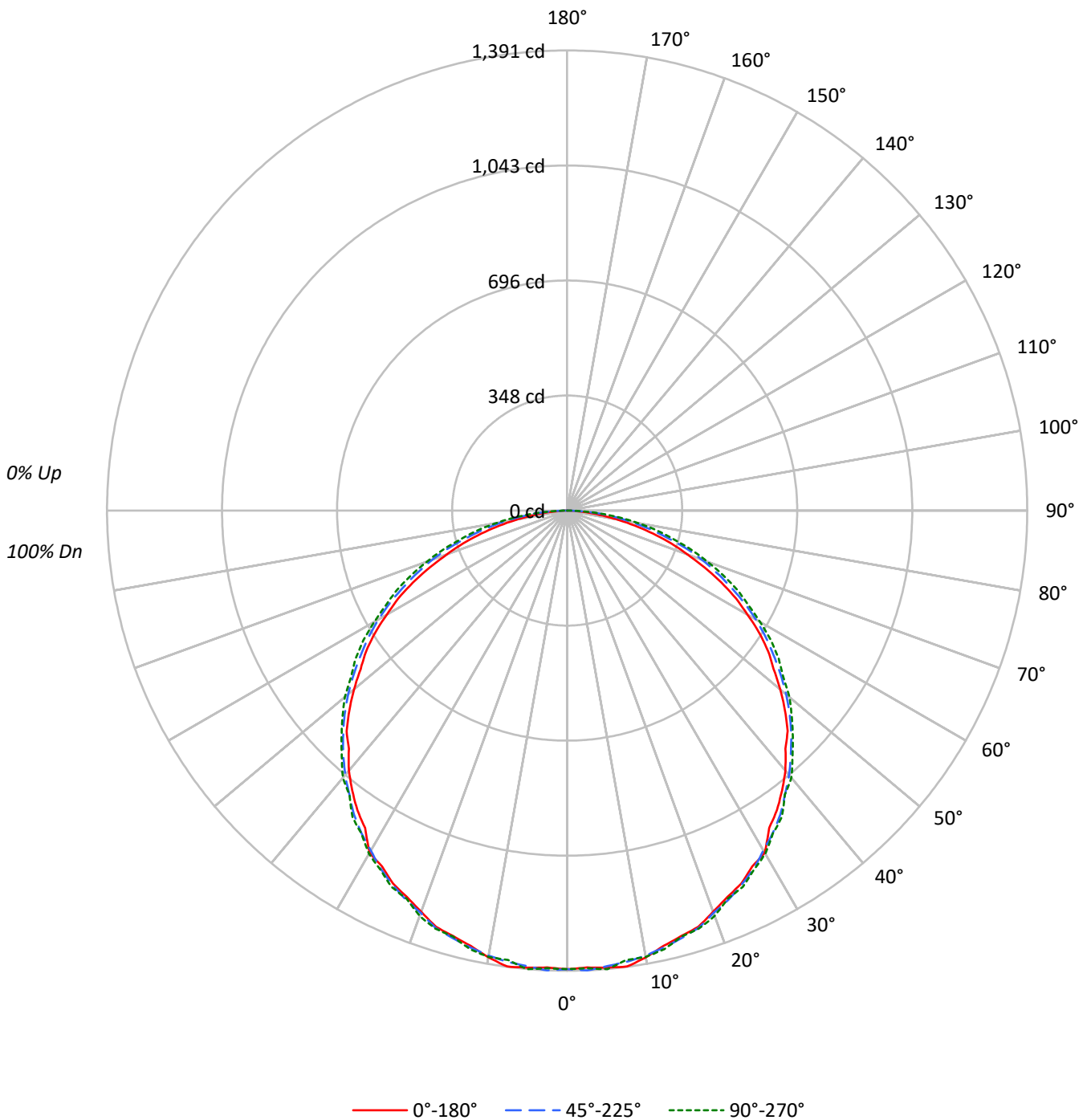
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4157.0 lumens
Efficiency: N/A
Efficacy: 126.0 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): 33
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	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°	3845	3845	3845
5°	3861	3849	3874
10°	3862	3846	3859
15°	3823	3842	3827
20°	3808	3820	3848
25°	3809	3819	3842
30°	3825	3801	3838
35°	3743	3802	3830
40°	3716	3779	3819
45°	3698	3756	3784
50°	3629	3729	3785
55°	3588	3684	3775
60°	3495	3652	3734
65°	3375	3573	3725
70°	3131	3512	3658
75°	2876	3310	3565
80°	2394	3115	3485
85°	1801	2886	3052



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	3.2
10°-20°	377.3	9.1
20°-30°	574.7	13.8
30°-40°	699.6	16.8
40°-50°	736.7	17.7
50°-60°	680.9	16.4
60°-70°	537.1	12.9
70°-80°	324.9	7.8
80°-90°	94.4	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°	1083.5	26.1
0°-40°	1783.0	42.9
0°-60°	3200.6	77.0
0°-90°	4157.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4157.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1386	1386	1386	1386	1386	
5°	1387	1380	1382	1381	1391	132
15°	1332	1337	1338	1333	1333	377
25°	1245	1241	1248	1250	1256	573
35°	1106	1110	1123	1125	1131	692
45°	943	943	958	965	965	724
55°	742	747	762	778	781	661
65°	514	525	544	563	568	506
75°	268	286	309	331	333	283
85°	57	70	91	93	96	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1386.2	1386.2	1386.2	1386.2	1386.2
2.5°	1382.3	1389.4	1391.3	1385.5	1384.9
5°	1386.8	1380.4	1382.3	1381.0	1391.3
7.5°	1390.0	1379.7	1375.9	1372.7	1370.1
10°	1371.4	1366.9	1365.6	1364.9	1370.1
12.5°	1347.6	1351.4	1352.7	1350.8	1357.9
15°	1331.5	1336.6	1337.9	1333.4	1332.8
17.5°	1319.2	1315.4	1322.5	1315.4	1325.0
20°	1290.3	1293.5	1294.1	1300.6	1303.8
22.5°	1264.5	1273.5	1273.5	1278.1	1269.7
25°	1244.6	1241.4	1247.8	1249.7	1255.5
27.5°	1212.4	1210.5	1220.8	1213.7	1223.4
30°	1194.4	1184.1	1186.7	1191.8	1198.3
32.5°	1137.1	1152.6	1156.4	1159.0	1157.7
35°	1105.6	1110.1	1123.0	1124.9	1131.3
37.5°	1067.0	1065.7	1081.8	1088.2	1081.8
40°	1026.4	1030.3	1043.8	1050.9	1054.7
42.5°	976.9	985.9	1001.3	1009.1	1008.4
45°	942.8	943.4	957.6	965.3	964.7
47.5°	893.2	899.0	912.5	924.1	920.9
50°	841.1	850.7	864.3	874.6	877.1
52.5°	787.0	798.6	812.8	833.4	822.4
55°	742.0	747.1	761.9	778.0	780.6
57.5°	688.6	694.4	711.7	725.9	730.4
60°	630.0	635.8	658.3	675.7	673.1
62.5°	575.3	584.3	603.6	619.1	617.1
65°	514.2	525.1	544.4	563.1	567.6
67.5°	449.2	464.0	488.4	509.0	509.7
70°	386.1	403.5	433.1	449.8	451.1
72.5°	330.1	343.0	373.9	391.9	393.2
75°	268.4	285.7	308.9	330.8	332.7
77.5°	208.5	226.5	252.9	274.1	278.6
80°	149.9	169.9	195.0	214.9	218.2
82.5°	98.5	117.8	142.2	160.2	160.2
85°	56.6	70.1	90.7	93.3	95.9
87.5°	18.7	27.0	34.1	36.7	37.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)