

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: P709627

Luminaire Tested: **22ARS-L3C39-UNV-4000K-HI**

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709627
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-4000K-HI
Description: ARS 2x2 Selectable Standard 90CRI Round, SET AT 4000K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

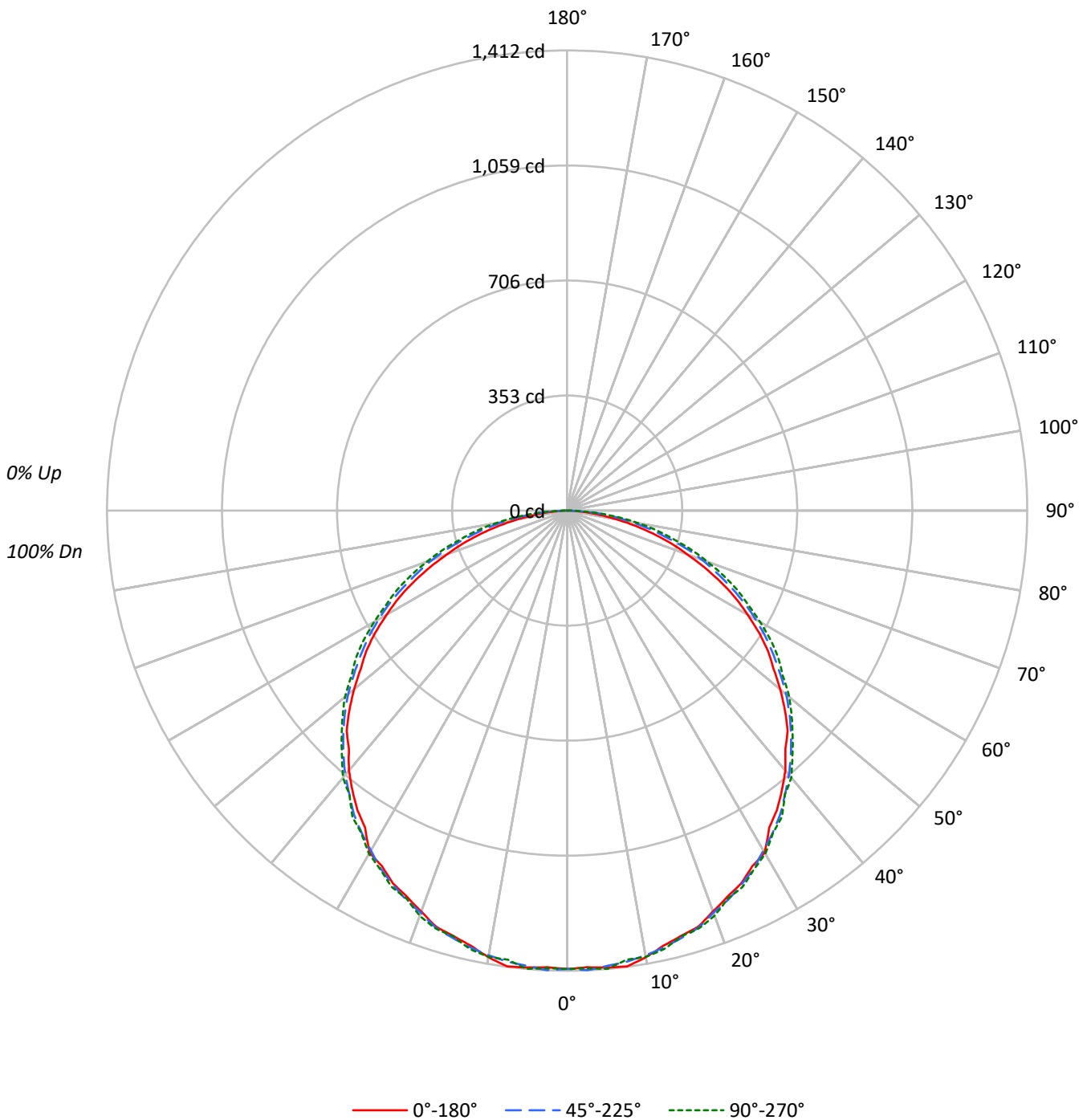
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4218.0 lumens
Efficiency: N/A
Efficacy: 128.6 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): 32.8
Input Voltage (V): NR
Input Current (Ain): 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°	3901	3901	3901
5°	3918	3905	3930
10°	3919	3902	3915
15°	3879	3898	3883
20°	3864	3876	3905
25°	3865	3875	3899
30°	3881	3856	3894
35°	3798	3858	3887
40°	3771	3835	3875
45°	3752	3811	3839
50°	3682	3784	3840
55°	3641	3738	3830
60°	3546	3705	3789
65°	3424	3625	3780
70°	3177	3564	3712
75°	2918	3358	3618
80°	2429	3161	3536
85°	1830	2931	3096



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	3.2
10°-20°	382.8	9.1
20°-30°	583.1	13.8
30°-40°	709.8	16.8
40°-50°	747.5	17.7
50°-60°	690.9	16.4
60°-70°	545.0	12.9
70°-80°	329.7	7.8
80°-90°	95.8	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°	1099.4	26.1
0°-40°	1809.2	42.9
0°-60°	3247.6	77.0
0°-90°	4218.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4218.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1406	1406	1406	1406	1406	
5°	1407	1401	1403	1401	1412	134
15°	1351	1356	1358	1353	1352	382
25°	1263	1260	1266	1268	1274	581
35°	1122	1126	1139	1141	1148	702
45°	957	957	972	980	979	734
55°	753	758	773	789	792	670
65°	522	533	552	571	576	514
75°	272	290	313	336	338	288
85°	58	71	92	95	97	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1406.5	1406.5	1406.5	1406.5	1406.5
2.5°	1402.6	1409.8	1411.7	1405.9	1405.2
5°	1407.2	1400.6	1402.6	1401.3	1411.7
7.5°	1410.4	1400.0	1396.1	1392.8	1390.2
10°	1391.5	1386.9	1385.6	1385.0	1390.2
12.5°	1367.3	1371.2	1372.6	1370.6	1377.8
15°	1351.0	1356.2	1357.5	1353.0	1352.3
17.5°	1338.6	1334.7	1341.9	1334.7	1344.5
20°	1309.2	1312.5	1313.1	1319.7	1322.9
22.5°	1283.1	1292.2	1292.2	1296.8	1288.3
25°	1262.9	1259.6	1266.1	1268.1	1274.0
27.5°	1230.2	1228.2	1238.7	1231.5	1241.3
30°	1211.9	1201.5	1204.1	1209.3	1215.8
32.5°	1153.8	1169.5	1173.4	1176.0	1174.7
35°	1121.8	1126.4	1139.4	1141.4	1147.9
37.5°	1082.6	1081.3	1097.7	1104.2	1097.7
40°	1041.5	1045.4	1059.1	1066.3	1070.2
42.5°	991.2	1000.4	1016.0	1023.9	1023.2
45°	956.6	957.3	971.6	979.5	978.8
47.5°	906.3	912.2	925.9	937.7	934.4
50°	853.4	863.2	876.9	887.4	890.0
52.5°	798.6	810.3	824.7	845.6	834.5
55°	752.9	758.1	773.1	789.4	792.1
57.5°	698.7	704.6	722.2	736.6	741.1
60°	639.3	645.1	668.0	685.6	683.0
62.5°	583.8	592.9	612.5	628.2	626.2
65°	521.7	532.8	552.4	571.4	575.9
67.5°	455.8	470.8	495.6	516.5	517.2
70°	391.8	409.4	439.5	456.4	457.7
72.5°	335.0	348.0	379.4	397.7	399.0
75°	272.3	289.9	313.4	335.6	337.6
77.5°	211.6	229.8	256.6	278.2	282.7
80°	152.1	172.4	197.9	218.1	221.4
82.5°	99.9	119.5	144.3	162.6	162.6
85°	57.5	71.2	92.1	94.7	97.3
87.5°	18.9	27.4	34.6	37.2	37.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)