

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: P709629

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

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709629
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-MID
Description: ARS 2x2 Selectable Standard 90CRI Round, SET AT 4000K AND, MID LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

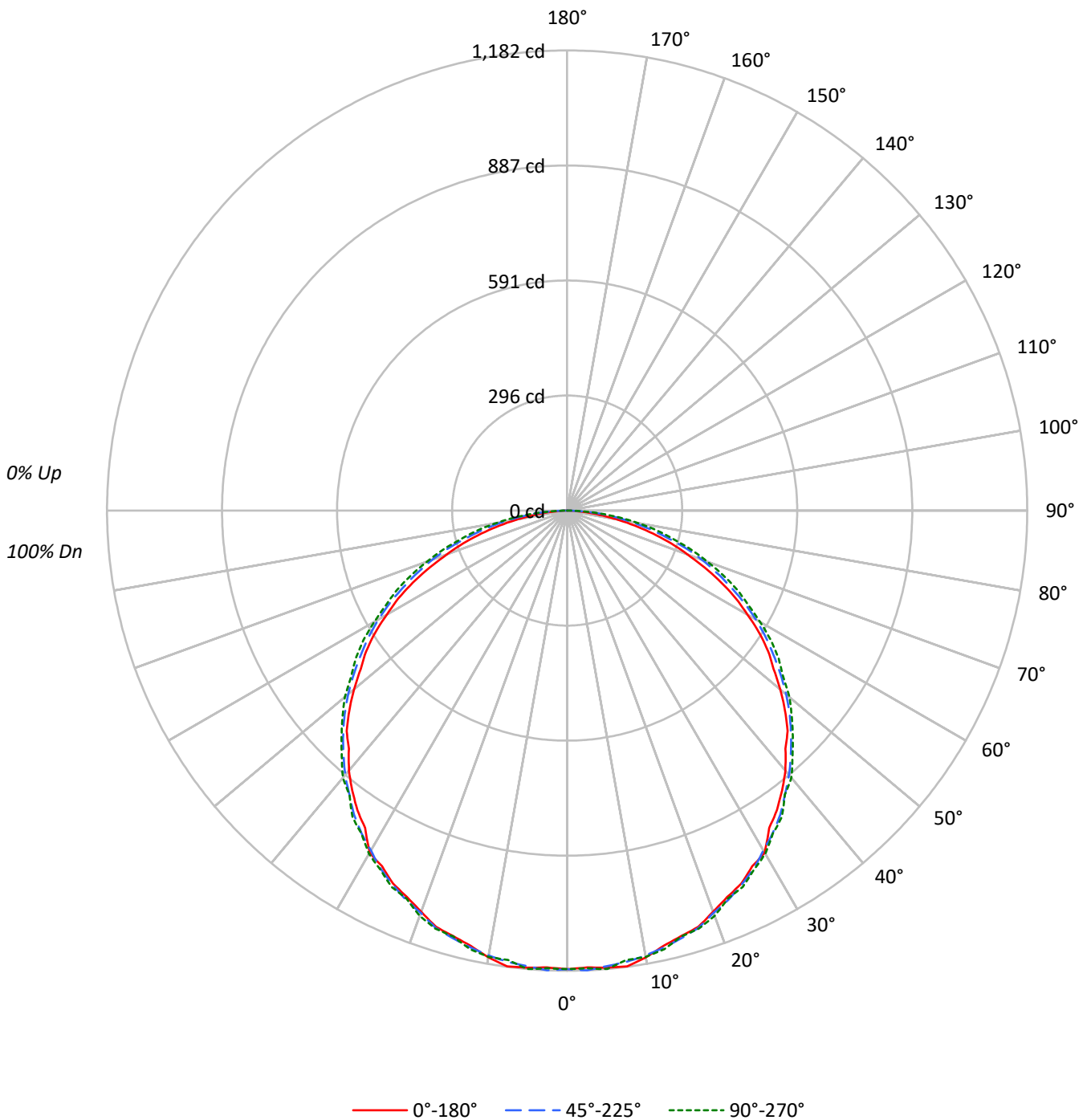
Lumens per Lamp: N/A
Luminaire Lumens: 3532.0 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1.97' x L: 1.97' x H: 0')
CIE Type: Direct

Input Watts (W): 25.6
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										
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°	3267	3267	3267
5°	3281	3270	3291
10°	3282	3268	3279
15°	3248	3264	3252
20°	3236	3246	3270
25°	3236	3245	3265
30°	3250	3229	3261
35°	3181	3230	3255
40°	3158	3211	3245
45°	3142	3191	3215
50°	3083	3168	3216
55°	3048	3131	3207
60°	2969	3103	3172
65°	2867	3036	3165
70°	2661	2984	3108
75°	2443	2813	3029
80°	2035	2647	2961
85°	1531	2454	2594



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	3.2
10°-20°	320.5	9.1
20°-30°	488.3	13.8
30°-40°	594.4	16.8
40°-50°	625.9	17.7
50°-60°	578.5	16.4
60°-70°	456.4	12.9
70°-80°	276.1	7.8
80°-90°	80.2	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°	920.6	26.1
0°-40°	1514.9	42.9
0°-60°	2719.4	77.0
0°-90°	3532.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3532.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1178	1178	1178	1178	1178	
5°	1178	1173	1174	1173	1182	112
15°	1131	1136	1137	1133	1132	320
25°	1058	1055	1060	1062	1067	487
35°	939	943	954	956	961	588
45°	801	802	814	820	820	615
55°	630	635	647	661	663	561
65°	437	446	463	478	482	430
75°	228	243	262	281	283	241
85°	48	60	77	79	82	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1177.8	1177.8	1177.8	1177.8	1177.8
2.5°	1174.5	1180.5	1182.1	1177.2	1176.7
5°	1178.3	1172.8	1174.5	1173.4	1182.1
7.5°	1181.0	1172.3	1169.0	1166.3	1164.1
10°	1165.2	1161.4	1160.3	1159.7	1164.1
12.5°	1145.0	1148.2	1149.3	1147.7	1153.7
15°	1131.3	1135.7	1136.8	1132.9	1132.4
17.5°	1120.9	1117.6	1123.6	1117.6	1125.8
20°	1096.3	1099.0	1099.6	1105.0	1107.8
22.5°	1074.4	1082.1	1082.1	1085.9	1078.8
25°	1057.5	1054.7	1060.2	1061.8	1066.8
27.5°	1030.1	1028.5	1037.2	1031.2	1039.4
30°	1014.8	1006.1	1008.3	1012.6	1018.1
32.5°	966.2	979.3	982.6	984.7	983.7
35°	939.4	943.2	954.1	955.8	961.2
37.5°	906.6	905.5	919.1	924.6	919.1
40°	872.1	875.4	886.9	892.9	896.2
42.5°	830.0	837.7	850.8	857.3	856.8
45°	801.0	801.6	813.6	820.2	819.6
47.5°	758.9	763.8	775.3	785.2	782.4
50°	714.6	722.8	734.3	743.1	745.3
52.5°	668.7	678.6	690.6	708.1	698.8
55°	630.4	634.8	647.4	661.1	663.2
57.5°	585.1	590.0	604.7	616.8	620.6
60°	535.3	540.2	559.4	574.1	571.9
62.5°	488.8	496.5	512.9	526.0	524.4
65°	436.9	446.2	462.6	478.4	482.3
67.5°	381.7	394.2	415.0	432.5	433.0
70°	328.1	342.8	368.0	382.2	383.3
72.5°	280.5	291.4	317.7	333.0	334.1
75°	228.0	242.8	262.5	281.0	282.7
77.5°	177.2	192.5	214.9	232.9	236.8
80°	127.4	144.3	165.7	182.6	185.4
82.5°	83.7	100.1	120.8	136.1	136.1
85°	48.1	59.6	77.1	79.3	81.5
87.5°	15.9	23.0	29.0	31.2	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)