

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: P709617

Luminaire Tested: **22ARS-L3C3-UNV-3500K-MID**

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709617
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-UNV-3500K-MID
Description: ARS 2x2 Selectable Standard 80CRI Round, SET AT 3500K AND, MID LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

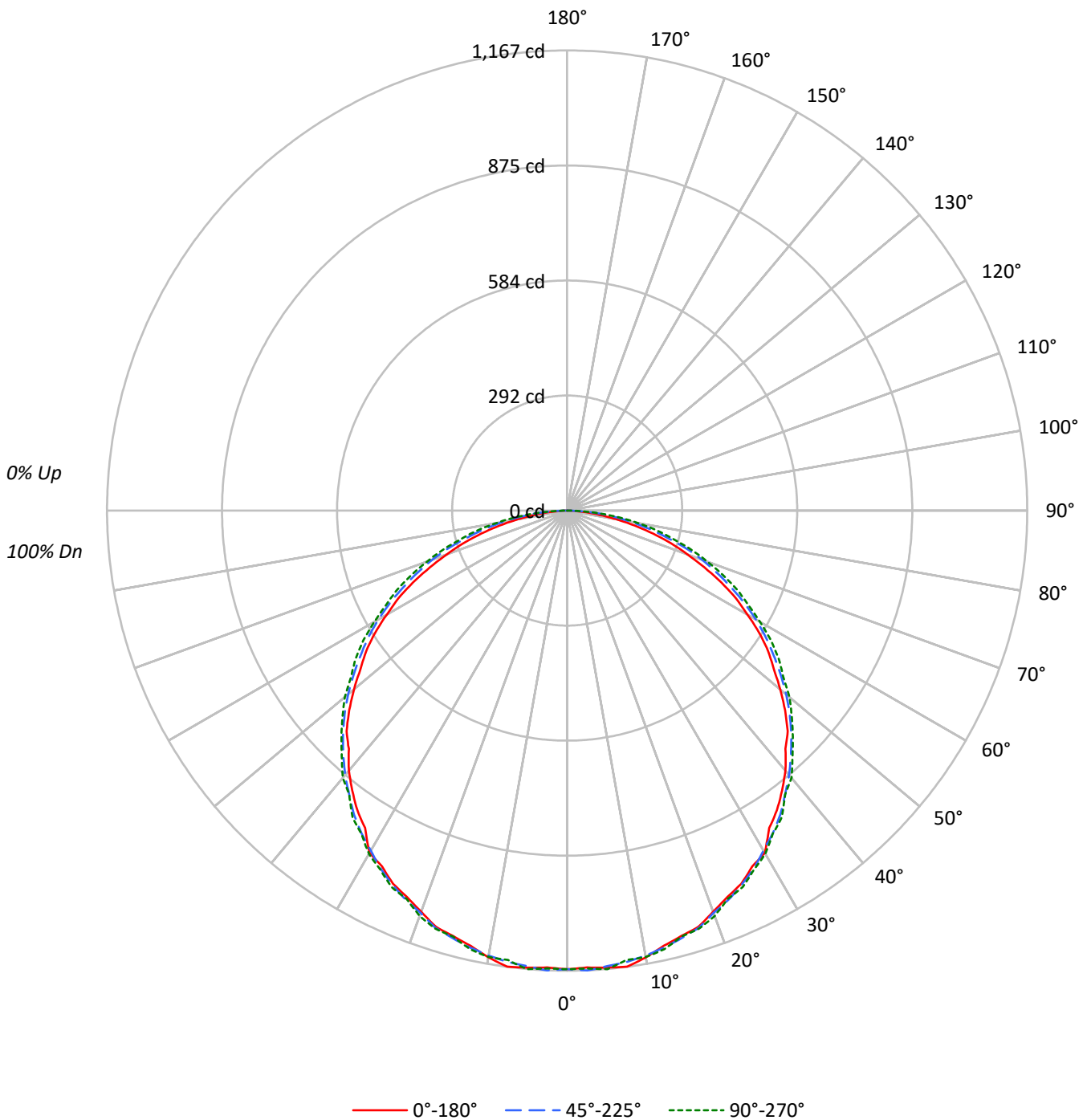
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3488.0 lumens
Efficiency: N/A
Efficacy: 128.2 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): 27.2
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°	3226	3226	3226
5°	3240	3229	3250
10°	3241	3227	3238
15°	3208	3223	3211
20°	3195	3205	3229
25°	3196	3204	3224
30°	3210	3189	3220
35°	3141	3190	3214
40°	3118	3171	3204
45°	3103	3152	3175
50°	3045	3129	3176
55°	3011	3091	3167
60°	2932	3064	3133
65°	2831	2998	3125
70°	2627	2947	3069
75°	2413	2778	2992
80°	2009	2613	2923
85°	1512	2422	2562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.4	3.2
10°-20°	316.5	9.1
20°-30°	482.2	13.8
30°-40°	587.0	16.8
40°-50°	618.1	17.7
50°-60°	571.3	16.4
60°-70°	450.7	12.9
70°-80°	272.6	7.8
80°-90°	79.2	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°	909.1	26.1
0°-40°	1496.1	42.9
0°-60°	2685.5	77.0
0°-90°	3488.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3488.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1163	1163	1163	1163	1163	
5°	1164	1158	1160	1159	1167	111
15°	1117	1122	1123	1119	1118	316
25°	1044	1042	1047	1049	1054	481
35°	928	931	942	944	949	581
45°	791	792	804	810	809	607
55°	623	627	639	653	655	554
65°	431	441	457	472	476	425
75°	225	240	259	278	279	238
85°	48	59	76	78	80	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1163.1	1163.1	<i>1163.1</i>	1163.1	1163.1
2.5°	<i>1159.8</i>	<i>1165.8</i>	<i>1167.4</i>	<i>1162.5</i>	<i>1162.0</i>
5°	1163.6	1158.2	<i>1159.8</i>	1158.8	1167.4
7.5°	1166.3	1157.7	<i>1154.4</i>	1151.7	1149.6
10°	1150.7	1146.9	<i>1145.8</i>	1145.3	1149.6
12.5°	1130.7	1133.9	<i>1135.0</i>	1133.4	1139.3
15°	1117.2	1121.5	<i>1122.6</i>	1118.8	1118.3
17.5°	1106.9	1103.7	<i>1109.6</i>	1103.7	1111.8
20°	1082.6	1085.3	<i>1085.9</i>	1091.3	1094.0
22.5°	1061.0	1068.6	<i>1068.6</i>	1072.4	1065.4
25°	1044.3	1041.6	<i>1047.0</i>	1048.6	1053.5
27.5°	1017.3	1015.7	<i>1024.3</i>	1018.4	1026.5
30°	1002.2	993.5	<i>995.7</i>	1000.0	1005.4
32.5°	954.1	967.1	<i>970.3</i>	972.5	971.4
35°	927.7	931.4	<i>942.2</i>	943.9	949.3
37.5°	895.3	894.2	<i>907.7</i>	913.1	907.7
40°	861.2	864.5	<i>875.8</i>	881.8	885.0
42.5°	819.7	827.2	<i>840.2</i>	846.7	846.1
45°	791.1	791.6	<i>803.5</i>	809.9	809.4
47.5°	749.5	754.3	<i>765.7</i>	775.4	772.7
50°	705.7	713.8	<i>725.2</i>	733.8	736.0
52.5°	660.4	670.1	<i>682.0</i>	699.3	690.1
55°	622.6	626.9	<i>639.3</i>	652.8	655.0
57.5°	577.8	582.6	<i>597.2</i>	609.1	612.9
60°	528.6	533.5	<i>552.4</i>	567.0	564.8
62.5°	482.7	490.3	<i>506.5</i>	519.4	517.8
65°	431.4	440.6	<i>456.8</i>	472.5	476.2
67.5°	376.9	389.3	<i>409.8</i>	427.1	427.7
70°	324.0	338.6	<i>363.4</i>	377.4	378.5
72.5°	277.0	287.8	<i>313.7</i>	328.8	329.9
75°	225.2	239.7	<i>259.2</i>	277.5	279.2
77.5°	174.9	190.1	<i>212.2</i>	230.0	233.8
80°	125.8	142.6	<i>163.6</i>	180.3	183.0
82.5°	82.6	98.8	<i>119.3</i>	134.5	134.5
85°	47.5	58.9	<i>76.1</i>	78.3	80.5
87.5°	15.7	22.7	<i>28.6</i>	30.8	31.3
90°	0.0	0.0	<i>0.0</i>	0.0	0.0

(END OF REPORT)