

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: P709623

Luminaire Tested: **22ARS-L3C3-UNV-5000K-MID**

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709623
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-5000K-MID
Description: ARS 2x2 Selectable Standard 80CRI Round, SET AT 5000K AND, MID LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

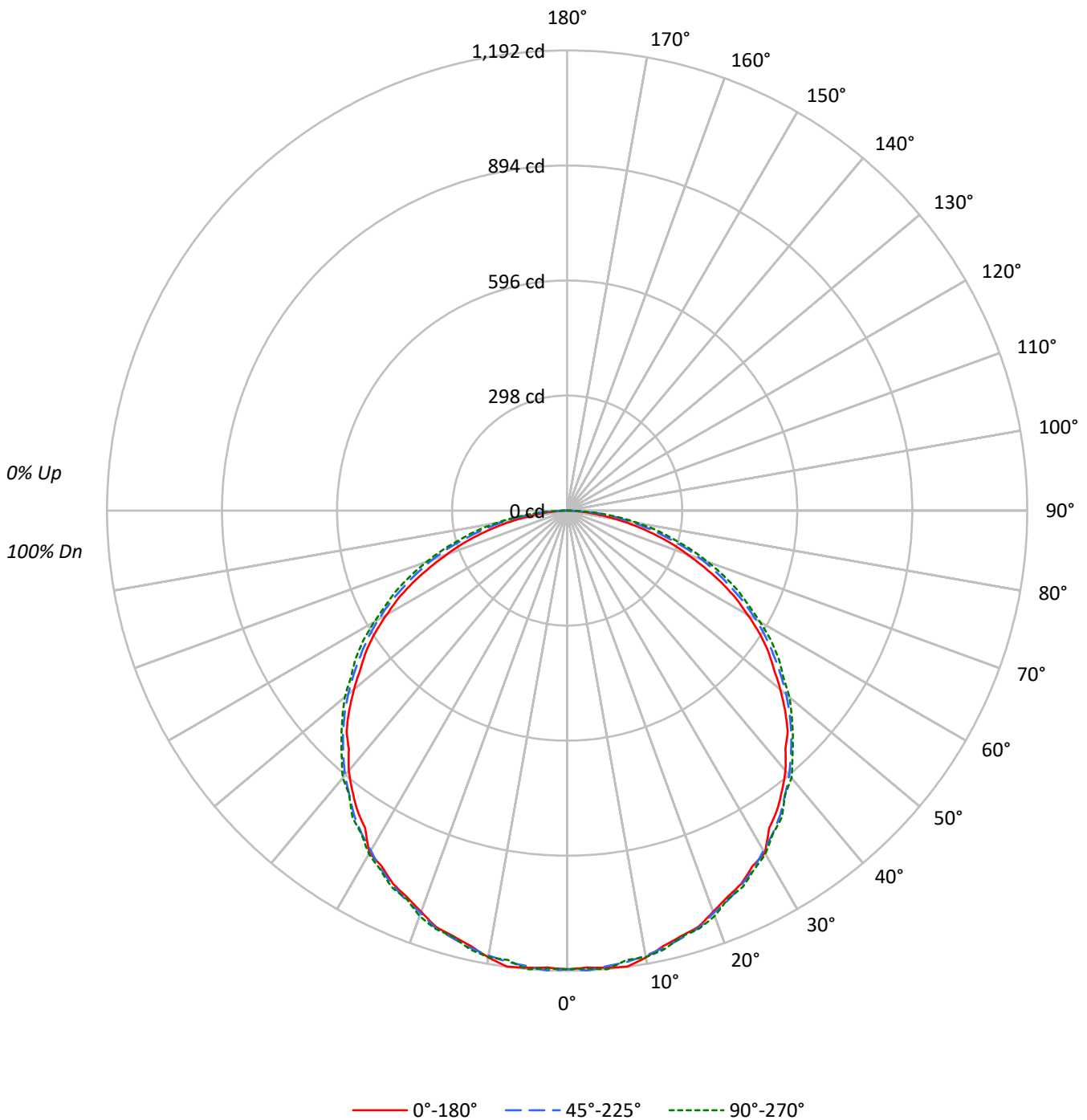
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3563.0 lumens
Efficiency: N/A
Efficacy: 131.0 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): 27.2
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

TEST NUMBER: P709623
CATALOG NUMBER: 22ARS-L3C3-UNV-5000K-MID

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°	3295	3295	3295
5°	3309	3299	3320
10°	3310	3296	3307
15°	3277	3293	3280
20°	3264	3274	3298
25°	3264	3273	3293
30°	3279	3257	3289
35°	3208	3259	3283
40°	3185	3239	3273
45°	3170	3219	3243
50°	3111	3196	3244
55°	3075	3158	3235
60°	2995	3130	3200
65°	2892	3062	3193
70°	2683	3010	3136
75°	2465	2838	3056
80°	2052	2669	2987
85°	1543	2476	2616



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.7	3.2
10°-20°	323.3	9.1
20°-30°	492.6	13.8
30°-40°	599.6	16.8
40°-50°	631.4	17.7
50°-60°	583.6	16.4
60°-70°	460.3	12.9
70°-80°	278.5	7.8
80°-90°	80.9	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°	928.6	26.1
0°-40°	1528.2	42.9
0°-60°	2743.3	77.0
0°-90°	3563.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3563.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1188	1188	1188	1188	1188	
5°	1189	1183	1185	1184	1192	113
15°	1141	1146	1147	1143	1142	323
25°	1067	1064	1070	1071	1076	491
35°	948	952	962	964	970	593
45°	808	809	821	827	827	620
55°	636	640	653	667	669	566
65°	441	450	467	483	486	434
75°	230	245	265	284	285	243
85°	48	60	78	80	82	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1188.1	1188.1	<i>1188.1</i>	1188.1	1188.1
2.5°	<i>1184.8</i>	<i>1190.9</i>	<i>1192.5</i>	<i>1187.5</i>	<i>1187.0</i>
5°	1188.6	1183.1	<i>1184.8</i>	1183.7	1192.5
7.5°	1191.4	1182.6	<i>1179.3</i>	1176.5	1174.3
10°	1175.4	1171.5	<i>1170.4</i>	1169.9	1174.3
12.5°	1155.0	1158.3	<i>1159.4</i>	1157.8	1163.8
15°	1141.2	1145.6	<i>1146.7</i>	1142.9	1142.3
17.5°	1130.7	1127.4	<i>1133.5</i>	1127.4	1135.7
20°	1105.9	1108.7	<i>1109.2</i>	1114.7	1117.5
22.5°	1083.8	1091.6	<i>1091.6</i>	1095.4	1088.3
25°	1066.7	1064.0	<i>1069.5</i>	1071.2	1076.1
27.5°	1039.2	1037.5	<i>1046.3</i>	1040.3	1048.5
30°	1023.7	1014.9	<i>1017.1</i>	1021.5	1027.0
32.5°	974.6	987.9	<i>991.2</i>	993.4	992.3
35°	947.6	951.5	<i>962.5</i>	964.2	969.7
37.5°	914.5	913.4	<i>927.2</i>	932.7	927.2
40°	879.8	883.1	<i>894.7</i>	900.7	904.0
42.5°	837.3	845.0	<i>858.3</i>	864.9	864.3
45°	808.1	808.6	<i>820.7</i>	827.4	826.8
47.5°	765.6	770.6	<i>782.1</i>	792.1	789.3
50°	720.9	729.2	<i>740.8</i>	749.6	751.8
52.5°	674.6	684.5	<i>696.6</i>	714.3	704.9
55°	636.0	640.4	<i>653.1</i>	666.9	669.1
57.5°	590.2	595.2	<i>610.0</i>	622.2	626.0
60°	540.0	545.0	<i>564.3</i>	579.2	576.9
62.5°	493.1	500.8	<i>517.4</i>	530.6	529.0
65°	440.7	450.1	<i>466.6</i>	482.6	486.5
67.5°	385.0	397.7	<i>418.6</i>	436.3	436.8
70°	330.9	345.8	<i>371.2</i>	385.6	386.7
72.5°	283.0	294.0	<i>320.5</i>	335.9	337.0
75°	230.0	244.9	<i>264.8</i>	283.5	285.2
77.5°	178.7	194.2	<i>216.8</i>	235.0	238.8
80°	128.5	145.6	<i>167.1</i>	184.2	187.0
82.5°	84.4	100.9	<i>121.9</i>	137.3	137.3
85°	48.5	60.1	<i>77.8</i>	80.0	82.2
87.5°	16.0	23.2	<i>29.2</i>	31.4	32.0
90°	0.0	0.0	<i>0.0</i>	0.0	0.0

(END OF REPORT)