

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: P709621

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

Issue Date: 9/22/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709621  
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-HI  
Description: ARS 2x2 Selectable Standard 80CRI Round, SET AT 5000K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

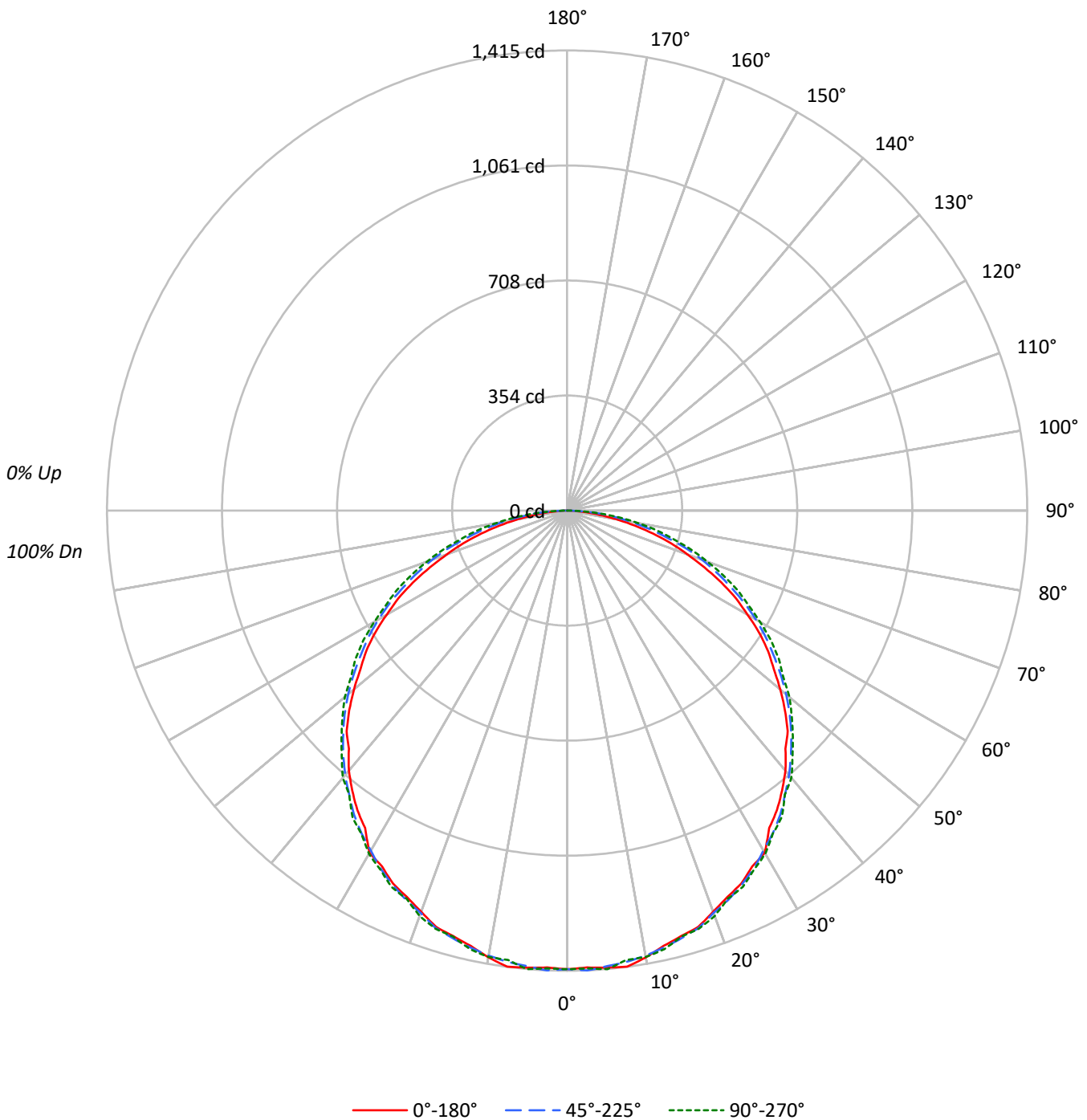
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4229.0 lumens  
Efficiency: N/A  
Efficacy: 127.0 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): 33.3  
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°	3911	3911	3911
5°	3928	3915	3941
10°	3929	3912	3925
15°	3889	3908	3893
20°	3874	3886	3915
25°	3875	3885	3909
30°	3892	3866	3904
35°	3808	3868	3897
40°	3781	3845	3885
45°	3762	3821	3849
50°	3692	3794	3850
55°	3650	3748	3840
60°	3555	3715	3799
65°	3433	3635	3789
70°	3185	3573	3721
75°	2926	3367	3627
80°	2436	3169	3544
85°	1833	2937	3103



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.8	3.2
10°-20°	383.8	9.1
20°-30°	584.6	13.8
30°-40°	711.7	16.8
40°-50°	749.5	17.7
50°-60°	692.7	16.4
60°-70°	546.4	12.9
70°-80°	330.5	7.8
80°-90°	96.0	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°	1102.2	26.1
0°-40°	1813.9	42.9
0°-60°	3256.0	77.0
0°-90°	4229.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4229.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1410	1410	1410	1410	1410	
5°	1411	1404	1406	1405	1415	134
15°	1354	1360	1361	1356	1356	383
25°	1266	1263	1269	1271	1277	583
35°	1125	1129	1142	1144	1151	704
45°	959	960	974	982	981	736
55°	755	760	775	792	794	672
65°	523	534	554	573	577	515
75°	273	291	314	336	338	288
85°	58	71	92	95	98	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1410.2	1410.2	1410.2	1410.2	1410.2
2.5°	1406.2	1413.4	1415.4	1409.5	1408.9
5°	1410.8	1404.3	1406.2	1404.9	1415.4
7.5°	1414.1	1403.6	1399.7	1396.4	1393.8
10°	1395.1	1390.5	1389.2	1388.6	1393.8
12.5°	1370.9	1374.8	1376.1	1374.2	1381.4
15°	1354.5	1359.8	1361.1	1356.5	1355.8
17.5°	1342.1	1338.2	1345.4	1338.2	1348.0
20°	1312.6	1315.9	1316.6	1323.1	1326.4
22.5°	1286.4	1295.6	1295.6	1300.2	1291.7
25°	1266.1	1262.9	1269.4	1271.4	1277.3
27.5°	1233.4	1231.4	1241.9	1234.7	1244.5
30°	1215.1	1204.6	1207.2	1212.5	1219.0
32.5°	1156.8	1172.5	1176.5	1179.1	1177.8
35°	1124.7	1129.3	1142.4	1144.4	1150.9
37.5°	1085.5	1084.1	1100.5	1107.1	1100.5
40°	1044.2	1048.1	1061.9	1069.1	1073.0
42.5°	993.8	1003.0	1018.7	1026.5	1025.9
45°	959.1	959.8	974.2	982.0	981.4
47.5°	908.7	914.6	928.3	940.1	936.8
50°	855.7	865.5	879.2	889.7	892.3
52.5°	800.7	812.5	826.9	847.8	836.7
55°	754.8	760.1	775.1	791.5	794.1
57.5°	700.5	706.4	724.1	738.5	743.1
60°	640.9	646.8	669.7	687.4	684.8
62.5°	585.3	594.4	614.1	629.8	627.8
65°	523.1	534.2	553.9	572.8	577.4
67.5°	457.0	472.0	496.9	517.9	518.5
70°	392.8	410.5	440.6	457.6	458.9
72.5°	335.8	348.9	380.4	398.7	400.0
75°	273.0	290.7	314.2	336.5	338.5
77.5°	212.1	230.4	257.3	278.9	283.5
80°	152.5	172.8	198.4	218.7	221.9
82.5°	100.2	119.8	144.7	163.0	163.0
85°	57.6	71.4	92.3	94.9	97.5
87.5°	19.0	27.5	34.7	37.3	38.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)