

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: P709615

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

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709615
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-HI
Description: ARS 2x2 Selectable Standard 80CRI Round, SET AT 3500K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

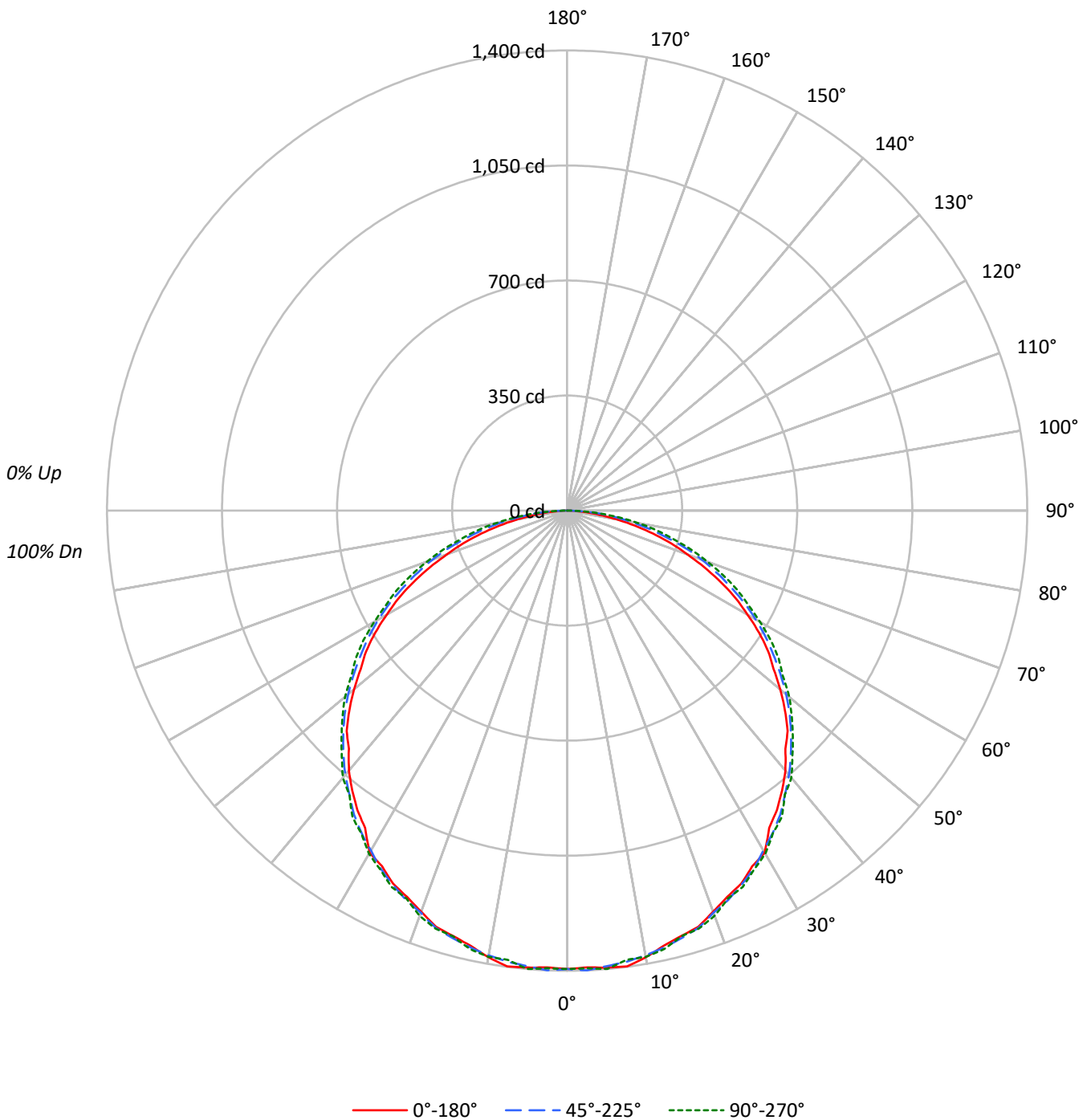
Lumens per Lamp: N/A
Luminaire Lumens: 4183.0 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1.97' x L: 1.97' x H: 0')
CIE Type: Direct

Input Watts (W): 33.4
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

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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°	3869	3869	3869
5°	3885	3873	3898
10°	3886	3870	3883
15°	3847	3866	3851
20°	3832	3844	3872
25°	3833	3842	3866
30°	3849	3824	3862
35°	3767	3826	3855
40°	3740	3803	3843
45°	3721	3780	3807
50°	3652	3753	3808
55°	3610	3707	3798
60°	3517	3675	3757
65°	3396	3595	3748
70°	3150	3534	3681
75°	2893	3331	3588
80°	2410	3134	3506
85°	1814	2905	3071



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.4	3.2
10°-20°	379.6	9.1
20°-30°	578.3	13.8
30°-40°	703.9	16.8
40°-50°	741.3	17.7
50°-60°	685.2	16.4
60°-70°	540.5	12.9
70°-80°	326.9	7.8
80°-90°	95.0	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°	1090.2	26.1
0°-40°	1794.2	42.9
0°-60°	3220.6	77.0
0°-90°	4183.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4183.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1395	1395	1395	1395	1395	
5°	1396	1389	1391	1390	1400	133
15°	1340	1345	1346	1342	1341	379
25°	1252	1249	1256	1258	1263	577
35°	1112	1117	1130	1132	1138	697
45°	949	949	964	971	971	728
55°	747	752	767	783	786	665
65°	517	528	548	567	571	510
75°	270	288	311	333	335	285
85°	57	71	91	94	96	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1394.8	1394.8	1394.8	1394.8	1394.8
2.5°	1391.0	1398.1	1400.0	1394.2	1393.5
5°	1395.5	1389.0	1391.0	1389.7	1400.0
7.5°	1398.7	1388.4	1384.5	1381.2	1378.6
10°	1379.9	1375.4	1374.1	1373.5	1378.6
12.5°	1356.0	1359.9	1361.2	1359.2	1366.3
15°	1339.8	1345.0	1346.3	1341.7	1341.1
17.5°	1327.5	1323.6	1330.7	1323.6	1333.3
20°	1298.4	1301.6	1302.2	1308.7	1311.9
22.5°	1272.4	1281.5	1281.5	1286.0	1277.6
25°	1252.4	1249.1	1255.6	1257.6	1263.4
27.5°	1220.0	1218.1	1228.4	1221.3	1231.0
30°	1201.9	1191.5	1194.1	1199.3	1205.8
32.5°	1144.2	1159.8	1163.7	1166.2	1165.0
35°	1112.5	1117.0	1130.0	1131.9	1138.4
37.5°	1073.6	1072.4	1088.5	1095.0	1088.5
40°	1032.9	1036.7	1050.3	1057.5	1061.3
42.5°	983.0	992.1	1007.6	1015.4	1014.7
45°	948.7	949.3	963.6	971.3	970.7
47.5°	898.8	904.6	918.2	929.9	926.7
50°	846.4	856.1	869.7	880.0	882.6
52.5°	792.0	803.6	817.9	838.6	827.6
55°	746.6	751.8	766.7	782.9	785.5
57.5°	692.9	698.7	716.2	730.4	735.0
60°	634.0	639.8	662.5	679.9	677.3
62.5°	578.9	588.0	607.4	622.9	621.0
65°	517.4	528.4	547.8	566.6	571.1
67.5°	452.0	466.9	491.5	512.2	512.9
70°	388.5	406.0	435.8	452.6	453.9
72.5°	332.2	345.1	376.2	394.4	395.7
75°	270.0	287.5	310.8	332.8	334.8
77.5°	209.8	227.9	254.5	275.9	280.4
80°	150.9	171.0	196.2	216.3	219.5
82.5°	99.1	118.5	143.1	161.2	161.2
85°	57.0	70.6	91.3	93.9	96.5
87.5°	18.8	27.2	34.3	36.9	37.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)