

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: P709662

Luminaire Tested: **24ARS-L3C39-UNV-3500K-MID**

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709662
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-014-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24ARS-L3C39-UNV-3500K-MID
Description: ARS 2x4 Selectable Standard 90CRI Round, SET AT 3500K AND, MID LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

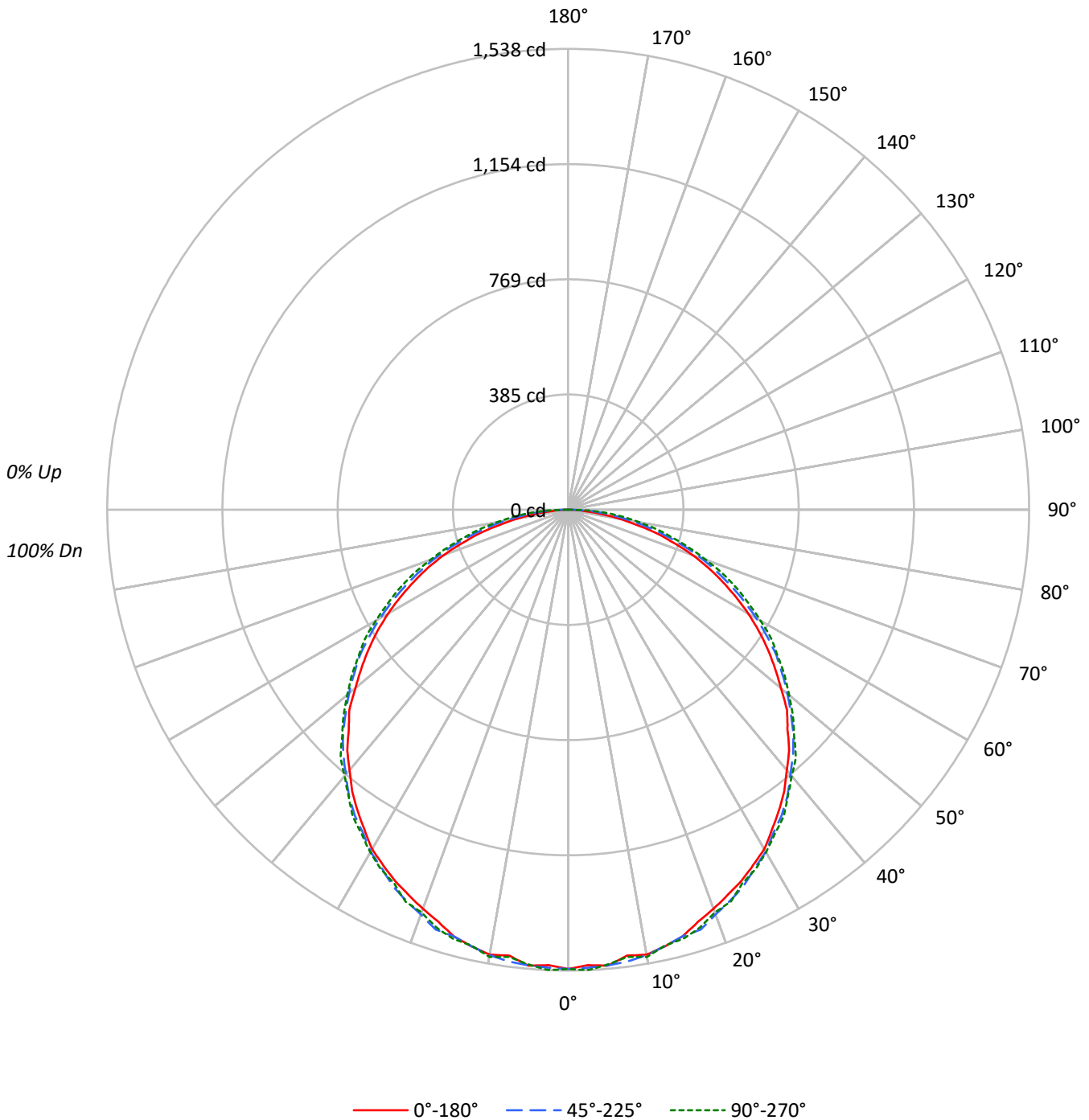
Lumens per Lamp: N/A
Luminaire Lumens: 4602.0 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1.83' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 33.9
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	87	89	87	85	83
2	98	90	83	77	95	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	60	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	44	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°	2330	2330	2330
5°	2330	2329	2325
10°	2327	2330	2339
15°	2319	2319	2333
20°	2293	2325	2313
25°	2292	2324	2306
30°	2296	2313	2317
35°	2274	2306	2323
40°	2251	2288	2302
45°	2224	2284	2291
50°	2191	2258	2274
55°	2154	2248	2262
60°	2108	2203	2254
65°	2043	2150	2235
70°	1960	2099	2169
75°	1800	1987	2118
80°	1518	1870	2101
85°	1027	1862	2311



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.2	3.2
10°-20°	417.3	9.1
20°-30°	636.3	13.8
30°-40°	775.6	16.9
40°-50°	815.8	17.7
50°-60°	752.3	16.3
60°-70°	590.8	12.8
70°-80°	356.1	7.7
80°-90°	112.6	2.4
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°	1198.8	26.0
0°-40°	1974.4	42.9
0°-60°	3542.4	77.0
0°-90°	4602.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4602.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1533	1533	1533	1533	1533	
5°	1527	1528	1526	1534	1524	144
15°	1474	1486	1474	1485	1483	415
25°	1367	1381	1386	1377	1375	630
35°	1225	1237	1243	1246	1252	767
45°	1035	1046	1062	1070	1066	801
55°	813	834	848	855	854	726
65°	568	580	598	615	621	562
75°	306	315	338	356	361	321
85°	59	78	107	127	132	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1532.7	1532.7	1532.7	1532.7	1532.7
2.5°	1521.6	1527.1	1529.9	1533.4	1537.5
5°	1527.1	1528.5	1526.4	1534.0	1523.6
7.5°	1500.8	1524.3	1520.2	1521.6	1505.6
10°	1507.7	1505.6	1509.8	1514.6	1515.3
12.5°	1492.4	1495.9	1491.7	1504.2	1489.7
15°	1473.7	1486.2	1473.7	1484.8	1482.7
17.5°	1441.8	1446.0	1469.6	1459.1	1461.9
20°	1417.5	1435.6	1437.6	1436.3	1430.0
22.5°	1391.2	1405.1	1412.0	1418.9	1416.2
25°	1366.9	1380.8	1385.6	1377.3	1375.2
27.5°	1337.1	1343.3	1347.5	1362.1	1353.0
30°	1308.0	1308.0	1317.7	1323.2	1320.4
32.5°	1265.7	1279.5	1276.1	1282.3	1283.0
35°	1225.4	1237.2	1242.8	1246.2	1251.8
37.5°	1183.8	1192.1	1201.9	1206.0	1203.9
40°	1134.6	1141.5	1153.3	1161.6	1160.2
42.5°	1090.9	1102.0	1110.3	1117.2	1124.2
45°	1034.7	1046.5	1062.5	1070.1	1065.9
47.5°	990.3	994.5	1007.0	1014.6	1016.7
50°	926.5	950.1	955.0	970.2	961.9
52.5°	869.7	891.2	900.2	911.3	910.6
55°	812.8	834.3	848.2	855.1	853.7
57.5°	754.5	771.9	786.4	796.2	805.2
60°	693.5	708.8	724.7	737.2	741.4
62.5°	630.4	647.7	661.6	683.1	678.9
65°	568.0	580.5	597.8	615.1	621.4
67.5°	505.6	518.7	533.3	550.0	557.6
70°	441.1	452.2	472.3	483.4	488.2
72.5°	369.6	384.9	405.7	421.0	424.4
75°	306.5	314.9	338.4	355.8	360.6
77.5°	233.7	253.1	276.7	294.0	302.4
80°	173.4	190.0	213.6	233.0	240.0
82.5°	115.8	131.1	157.4	181.0	186.6
85°	58.9	78.4	106.8	126.9	132.5
87.5°	20.1	36.8	57.6	66.6	69.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)