

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: P709665

Luminaire Tested: **24ARS-L3C39-UNV-4000K-MID**

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709665
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-4000K-MID
Description: ARS 2x4 Selectable Standard 90CRI Round, SET AT 4000K AND, MID LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

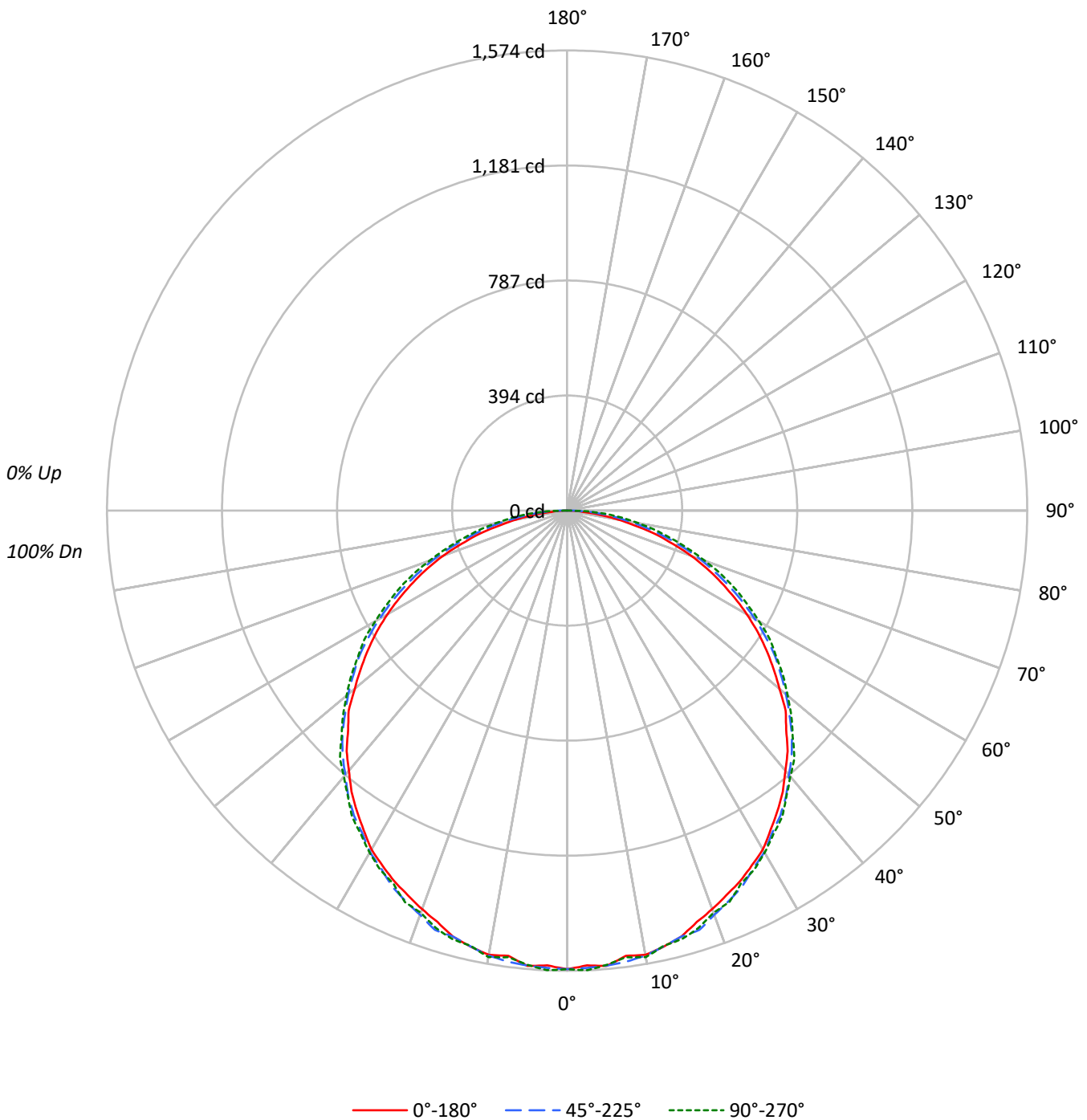
Lumens per Lamp: N/A
Luminaire Lumens: 4710.0 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1.83' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 32.9
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°	2384	2384	2384
5°	2385	2383	2379
10°	2382	2385	2394
15°	2373	2373	2388
20°	2347	2380	2367
25°	2346	2378	2360
30°	2349	2367	2372
35°	2327	2360	2377
40°	2304	2342	2356
45°	2276	2337	2345
50°	2242	2311	2328
55°	2204	2300	2315
60°	2158	2255	2307
65°	2091	2200	2287
70°	2006	2148	2221
75°	1842	2034	2167
80°	1553	1913	2150
85°	1052	1906	2365



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.6	3.2
10°-20°	427.1	9.1
20°-30°	651.2	13.8
30°-40°	793.8	16.9
40°-50°	834.9	17.7
50°-60°	770.0	16.3
60°-70°	604.7	12.8
70°-80°	364.5	7.7
80°-90°	115.3	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°	1226.9	26.0
0°-40°	2020.7	42.9
0°-60°	3625.6	77.0
0°-90°	4710.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4710.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1569	1569	1569	1569	1569	
5°	1563	1564	1562	1570	1559	148
15°	1508	1521	1508	1520	1518	424
25°	1399	1413	1418	1410	1408	645
35°	1254	1266	1272	1276	1281	785
45°	1059	1071	1087	1095	1091	819
55°	832	854	868	875	874	743
65°	581	594	612	630	636	575
75°	314	322	346	364	369	328
85°	60	80	109	130	136	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1568.6	1568.6	1568.6	1568.6	1568.6
2.5°	1557.3	1563.0	1565.8	1569.3	1573.6
5°	1563.0	1564.4	1562.2	1570.0	1559.4
7.5°	1536.0	1560.1	1555.9	1557.3	1540.9
10°	1543.1	1540.9	1545.2	1550.2	1550.9
12.5°	1527.5	1531.0	1526.8	1539.5	1524.6
15°	1508.3	1521.1	1508.3	1519.7	1517.5
17.5°	1475.6	1479.9	1504.0	1493.4	1496.2
20°	1450.8	1469.3	1471.4	1470.0	1463.6
22.5°	1423.8	1438.0	1445.1	1452.2	1449.4
25°	1399.0	1413.2	1418.2	1409.6	1407.5
27.5°	1368.5	1374.9	1379.1	1394.0	1384.8
30°	1338.7	1338.7	1348.6	1354.3	1351.4
32.5°	1295.4	1309.6	1306.0	1312.4	1313.1
35°	1254.2	1266.3	1271.9	1275.5	1281.2
37.5°	1211.6	1220.1	1230.1	1234.3	1232.2
40°	1161.2	1168.3	1180.4	1188.9	1187.5
42.5°	1116.5	1127.9	1136.4	1143.5	1150.6
45°	1059.0	1071.1	1087.4	1095.2	1090.9
47.5°	1013.6	1017.8	1030.6	1038.4	1040.5
50°	948.3	972.4	977.4	993.0	984.5
52.5°	890.1	912.1	921.3	932.7	932.0
55°	831.9	853.9	868.1	875.2	873.7
57.5°	772.2	790.0	804.9	814.8	824.1
60°	709.8	725.4	741.7	754.5	758.8
62.5°	645.2	662.9	677.1	699.1	694.9
65°	581.3	594.1	611.8	629.6	636.0
67.5°	517.4	530.9	545.8	562.9	570.7
70°	451.4	462.8	483.4	494.7	499.7
72.5°	378.3	393.9	415.2	430.8	434.4
75°	313.7	322.2	346.4	364.1	369.1
77.5°	239.2	259.1	283.2	300.9	309.5
80°	177.4	194.5	218.6	238.5	245.6
82.5°	118.5	134.1	161.1	185.3	190.9
85°	60.3	80.2	109.3	129.9	135.6
87.5°	20.6	37.6	58.9	68.1	71.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)