

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: P709661

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

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709661
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-LOW
Description: ARS 2x4 Selectable Standard 90CRI Round, SET AT 3500K AND, LOW LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

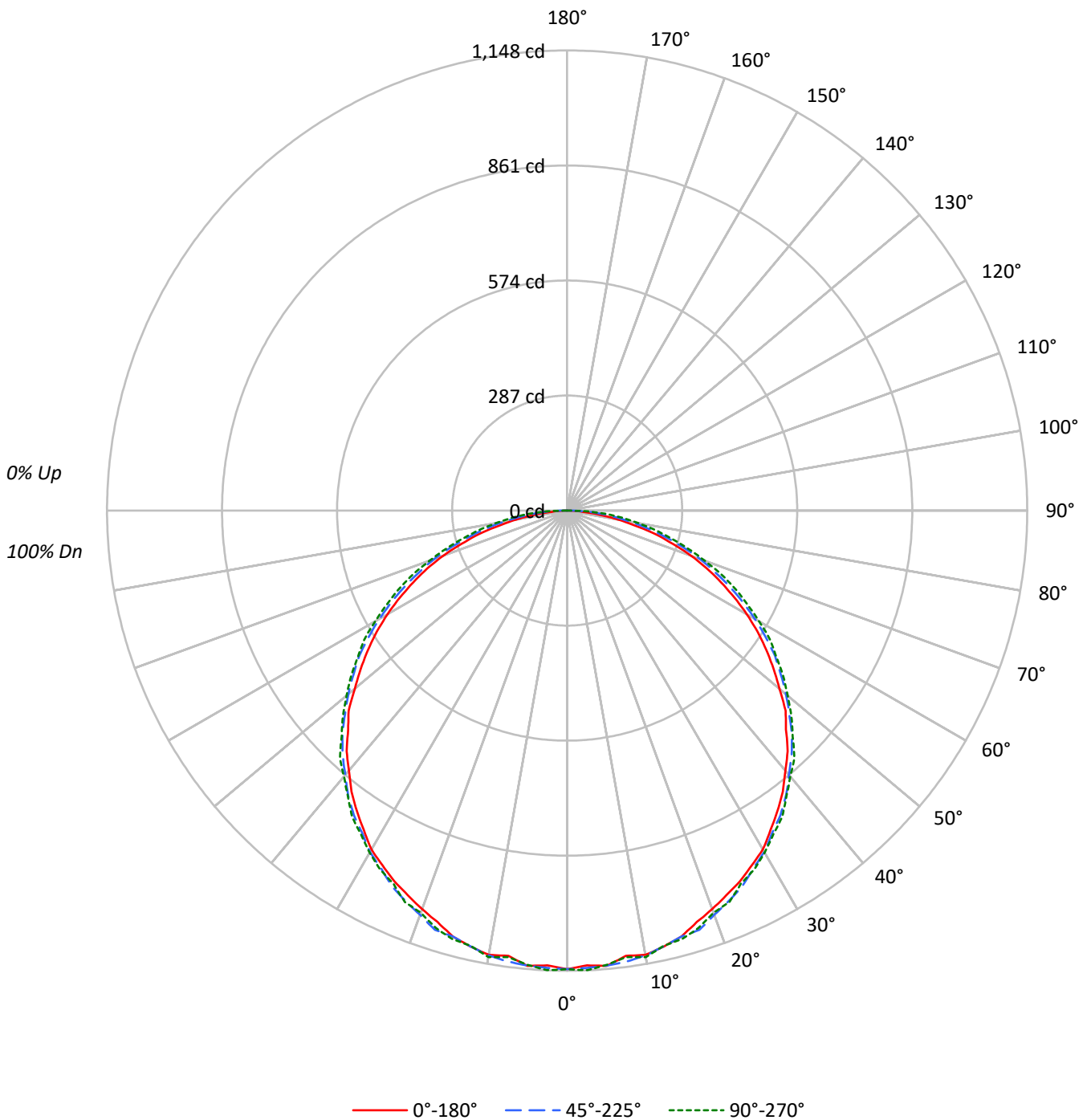
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3435.0 lumens
Efficiency: N/A
Efficacy: 139.6 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): 24.6
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	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°	1739	1739	1739
5°	1739	1738	1735
10°	1737	1739	1746
15°	1731	1731	1741
20°	1711	1736	1726
25°	1711	1735	1721
30°	1713	1726	1730
35°	1697	1721	1734
40°	1680	1708	1718
45°	1660	1704	1710
50°	1635	1685	1698
55°	1608	1678	1688
60°	1573	1644	1682
65°	1525	1605	1668
70°	1463	1566	1619
75°	1344	1483	1581
80°	1133	1395	1568
85°	767	1390	1725



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.3	3.2
10°-20°	311.5	9.1
20°-30°	474.9	13.8
30°-40°	578.9	16.9
40°-50°	608.9	17.7
50°-60°	561.5	16.3
60°-70°	441.0	12.8
70°-80°	265.8	7.7
80°-90°	84.1	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°	894.8	26.0
0°-40°	1473.7	42.9
0°-60°	2644.1	77.0
0°-90°	3435.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3435.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1144	1144	1144	1144	1144	
5°	1140	1141	1139	1145	1137	108
15°	1100	1109	1100	1108	1107	310
25°	1020	1031	1034	1028	1026	470
35°	915	924	928	930	934	572
45°	772	781	793	799	796	598
55°	607	623	633	638	637	542
65°	424	433	446	459	464	420
75°	229	235	253	266	269	239
85°	44	58	80	95	99	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1144.0	1144.0	1144.0	1144.0	1144.0
2.5°	1135.7	1139.9	1141.9	1144.5	1147.6
5°	1139.9	1140.9	1139.3	1145.0	1137.3
7.5°	1120.2	1137.8	1134.7	1135.7	1123.8
10°	1125.4	1123.8	1126.9	1130.5	1131.1
12.5°	1114.0	1116.6	1113.5	1122.8	1111.9
15°	1100.0	1109.3	1100.0	1108.3	1106.7
17.5°	1076.2	1079.3	1096.9	1089.1	1091.2
20°	1058.1	1071.5	1073.1	1072.0	1067.4
22.5°	1038.4	1048.8	1053.9	1059.1	1057.0
25°	1020.3	1030.6	1034.3	1028.0	1026.5
27.5°	998.0	1002.7	1005.8	1016.7	1009.9
30°	976.3	976.3	983.5	987.7	985.6
32.5°	944.7	955.1	952.5	957.1	957.6
35°	914.7	923.5	927.6	930.2	934.4
37.5°	883.6	889.8	897.1	900.2	898.6
40°	846.9	852.0	860.8	867.1	866.0
42.5°	814.3	822.5	828.8	833.9	839.1
45°	772.3	781.1	793.0	798.7	795.6
47.5°	739.2	742.3	751.6	757.3	758.9
50°	691.6	709.2	712.8	724.2	718.0
52.5°	649.1	665.2	671.9	680.2	679.7
55°	606.7	622.7	633.1	638.3	637.2
57.5°	563.2	576.1	587.0	594.3	601.0
60°	517.6	529.0	540.9	550.3	553.4
62.5°	470.5	483.5	493.8	509.9	506.8
65°	424.0	433.3	446.2	459.2	463.8
67.5°	377.4	387.2	398.1	410.5	416.2
70°	329.2	337.5	352.5	360.8	364.4
72.5°	275.9	287.3	302.8	314.2	316.8
75°	228.8	235.0	252.6	265.6	269.2
77.5°	174.4	188.9	206.5	219.5	225.7
80°	129.4	141.8	159.4	173.9	179.1
82.5°	86.4	97.8	117.5	135.1	139.2
85°	44.0	58.5	79.7	94.7	98.9
87.5°	15.0	27.4	43.0	49.7	51.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)