

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: P709658

Luminaire Tested: **24ARS-L3C3-UNV-5000K-LOW**

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709658
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-L3C3-UNV-5000K-LOW
Description: ARS 2x4 Selectable Standard 80CRI Round, SET AT 5000K AND, LOW LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

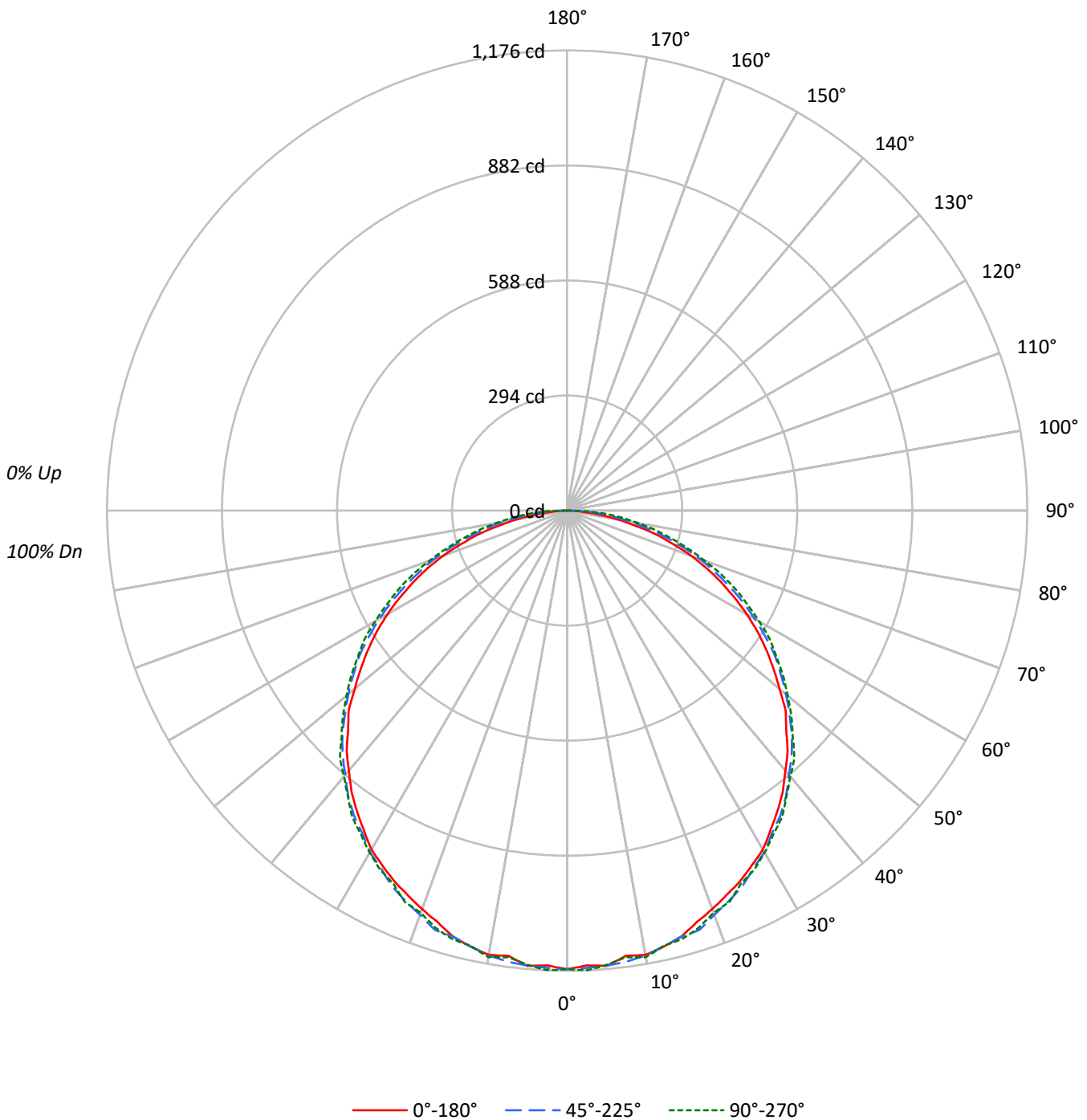
Lumens per Lamp: N/A
Luminaire Lumens: 3519.0 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1.83' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 24.9
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°	1781	1781	1781
5°	1782	1781	1778
10°	1779	1782	1788
15°	1773	1773	1784
20°	1753	1778	1769
25°	1753	1777	1764
30°	1755	1768	1772
35°	1739	1763	1776
40°	1721	1750	1760
45°	1701	1746	1752
50°	1675	1727	1739
55°	1647	1719	1730
60°	1612	1685	1723
65°	1562	1644	1709
70°	1499	1605	1659
75°	1376	1520	1620
80°	1161	1429	1606
85°	786	1425	1767



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.0	3.2
10°-20°	319.1	9.1
20°-30°	486.6	13.8
30°-40°	593.1	16.9
40°-50°	623.8	17.7
50°-60°	575.3	16.3
60°-70°	451.8	12.8
70°-80°	272.3	7.7
80°-90°	86.1	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°	916.7	26.0
0°-40°	1509.7	42.9
0°-60°	2708.8	77.0
0°-90°	3519.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3519.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1172	1172	1172	1172	1172	
5°	1168	1169	1167	1173	1165	110
15°	1127	1136	1127	1135	1134	317
25°	1045	1056	1060	1053	1052	482
35°	937	946	950	953	957	586
45°	791	800	812	818	815	612
55°	622	638	649	654	653	555
65°	434	444	457	470	475	430
75°	234	241	259	272	276	245
85°	45	60	82	97	101	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1172.0	1172.0	1172.0	1172.0	1172.0
2.5°	1163.5	1167.7	1169.9	1172.5	1175.7
5°	1167.7	1168.8	1167.2	1173.0	1165.1
7.5°	1147.6	1165.6	1162.4	1163.5	1151.3
10°	1152.9	1151.3	1154.5	1158.2	1158.7
12.5°	1141.2	1143.9	1140.7	1150.2	1139.1
15°	1126.9	1136.4	1126.9	1135.4	1133.8
17.5°	1102.5	1105.7	1123.7	1115.8	1117.9
20°	1083.9	1097.7	1099.3	1098.3	1093.5
22.5°	1063.8	1074.4	1079.7	1085.0	1082.9
25°	1045.2	1055.8	1059.6	1053.2	1051.6
27.5°	1022.4	1027.2	1030.4	1041.5	1034.6
30°	1000.2	1000.2	1007.6	1011.8	1009.7
32.5°	967.8	978.4	975.8	980.5	981.1
35°	937.1	946.1	950.3	953.0	957.2
37.5°	905.2	911.6	919.0	922.2	920.6
40°	867.6	872.9	881.9	888.3	887.2
42.5°	834.2	842.7	849.0	854.3	859.6
45°	791.2	800.2	812.4	818.3	815.1
47.5°	757.3	760.5	770.0	775.8	777.4
50°	708.5	726.5	730.2	741.9	735.5
52.5°	665.0	681.4	688.3	696.8	696.3
55°	621.5	638.0	648.6	653.9	652.8
57.5°	577.0	590.2	601.4	608.8	615.7
60°	530.3	542.0	554.2	563.7	566.9
62.5°	482.0	495.3	505.9	522.4	519.2
65°	434.3	443.9	457.1	470.4	475.2
67.5°	386.6	396.7	407.8	420.5	426.4
70°	337.3	345.8	361.1	369.6	373.3
72.5°	282.7	294.3	310.2	321.9	324.5
75°	234.4	240.8	258.8	272.0	275.8
77.5°	178.7	193.6	211.6	224.8	231.2
80°	132.6	145.3	163.3	178.2	183.5
82.5°	88.6	100.2	120.4	138.4	142.7
85°	45.1	59.9	81.7	97.0	101.3
87.5°	15.4	28.1	44.0	50.9	53.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)