

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: P709657

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

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709657
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-HI
Description: ARS 2x4 Selectable Standard 80CRI Round, SET AT 5000K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

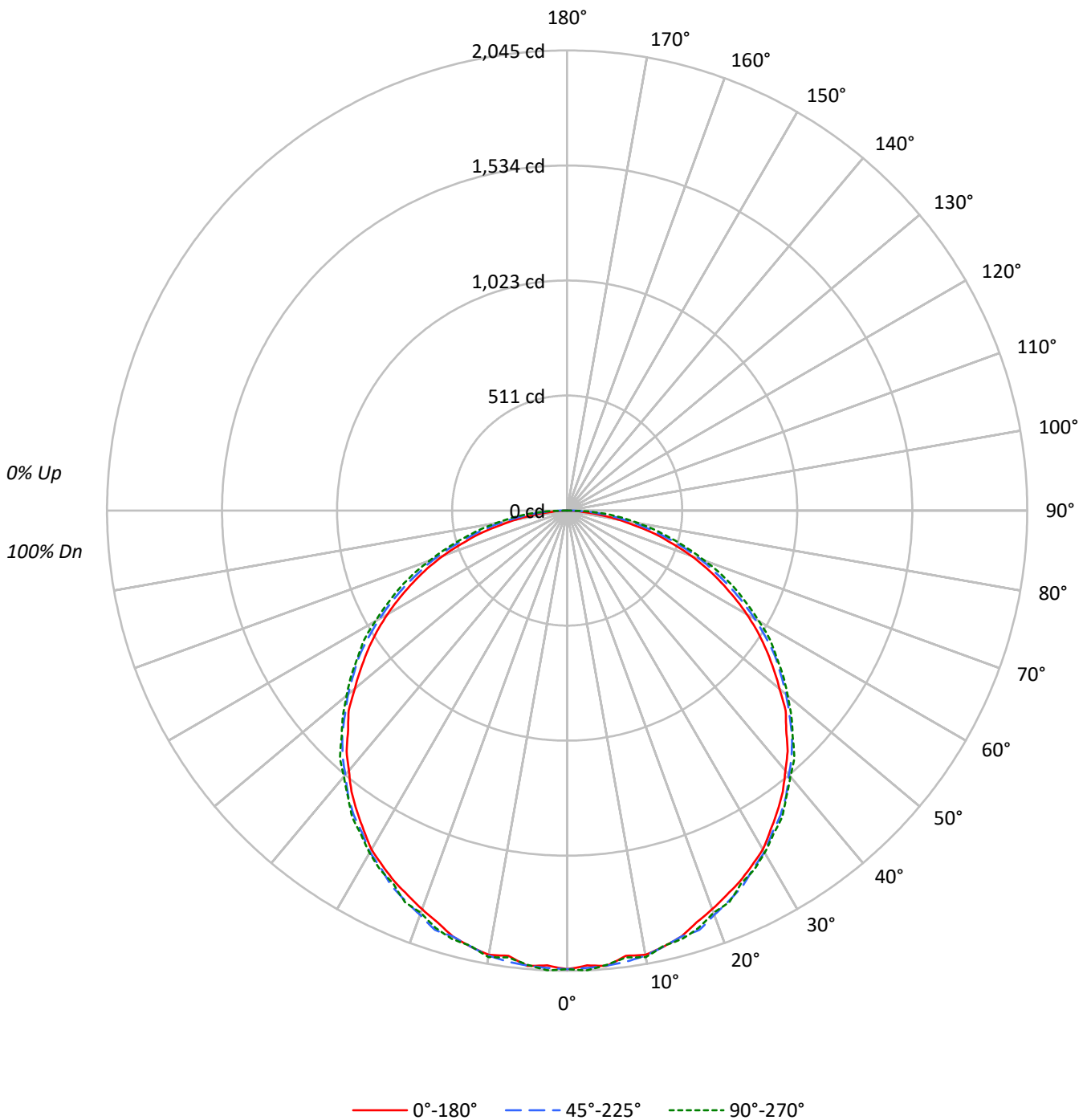
Lumens per Lamp: N/A
Luminaire Lumens: 6120.0 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1.83' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 47.3
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°	3098	3098	3098
5°	3098	3097	3091
10°	3094	3099	3110
15°	3084	3084	3103
20°	3049	3092	3076
25°	3048	3090	3067
30°	3053	3075	3082
35°	3024	3066	3089
40°	2994	3043	3061
45°	2958	3037	3047
50°	2914	3003	3025
55°	2864	2989	3008
60°	2804	2930	2997
65°	2716	2859	2972
70°	2607	2791	2885
75°	2394	2643	2816
80°	2018	2487	2793
85°	1367	2476	3073



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.0	3.2
10°-20°	555.0	9.1
20°-30°	846.2	13.8
30°-40°	1031.4	16.9
40°-50°	1084.9	17.7
50°-60°	1000.4	16.3
60°-70°	785.7	12.8
70°-80°	473.6	7.7
80°-90°	149.8	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°	1594.2	26.0
0°-40°	2625.6	42.9
0°-60°	4710.9	77.0
0°-90°	6120.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6120.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2038	2038	2038	2038	2038	
5°	2031	2033	2030	2040	2026	192
15°	1960	1976	1960	1975	1972	551
25°	1818	1836	1843	1832	1829	838
35°	1630	1645	1653	1657	1665	1020
45°	1376	1392	1413	1423	1418	1065
55°	1081	1110	1128	1137	1135	966
65°	755	772	795	818	826	747
75°	408	419	450	473	480	427
85°	78	104	142	169	176	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2038.2	2038.2	2038.2	2038.2	2038.2
2.5°	2023.5	2030.8	2034.5	2039.1	2044.7
5°	2030.8	2032.7	2029.9	2040.1	2026.2
7.5°	1995.8	2027.2	2021.6	2023.5	2002.3
10°	2005.0	2002.3	2007.8	2014.2	2015.2
12.5°	1984.7	1989.3	1983.8	2000.4	1981.0
15°	1959.8	1976.4	1959.8	1974.6	1971.8
17.5°	1917.4	1922.9	1954.3	1940.5	1944.1
20°	1885.1	1909.1	1911.9	1910.0	1901.7
22.5°	1850.1	1868.5	1877.7	1887.0	1883.3
25°	1817.8	1836.2	1842.7	1831.6	1828.9
27.5°	1778.1	1786.4	1792.0	1811.3	1799.4
30°	1739.4	1739.4	1752.3	1759.7	1756.0
32.5°	1683.1	1701.6	1697.0	1705.3	1706.2
35°	1629.7	1645.3	1652.7	1657.3	1664.7
37.5°	1574.3	1585.4	1598.3	1603.8	1601.1
40°	1508.8	1518.1	1533.7	1544.8	1543.0
42.5°	1450.7	1465.5	1476.6	1485.8	1495.0
45°	1376.0	1391.7	1412.9	1423.1	1417.5
47.5°	1317.0	1322.5	1339.1	1349.3	1352.0
50°	1232.2	1263.5	1270.0	1290.3	1279.2
52.5°	1156.5	1185.1	1197.1	1211.9	1210.9
55°	1080.9	1109.5	1127.9	1137.2	1135.3
57.5°	1003.4	1026.5	1045.9	1058.8	1070.8
60°	922.3	942.6	963.8	980.4	985.9
62.5°	838.3	861.4	879.8	908.4	902.9
65°	755.3	771.9	795.0	818.1	826.4
67.5°	672.3	689.9	709.2	731.4	741.5
70°	586.6	601.3	628.1	642.8	649.3
72.5°	491.6	511.9	539.5	559.8	564.4
75°	407.6	418.7	450.1	473.1	479.6
77.5°	310.8	336.6	368.0	391.0	402.1
80°	230.6	252.7	284.1	309.9	319.1
82.5°	154.0	174.3	209.4	240.7	248.1
85°	78.4	104.2	142.0	168.8	176.2
87.5°	26.7	48.9	76.5	88.5	92.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)