

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: P709660

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

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709660
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-HI
Description: ARS 2x4 Selectable Standard 90CRI Round, SET AT 3500K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

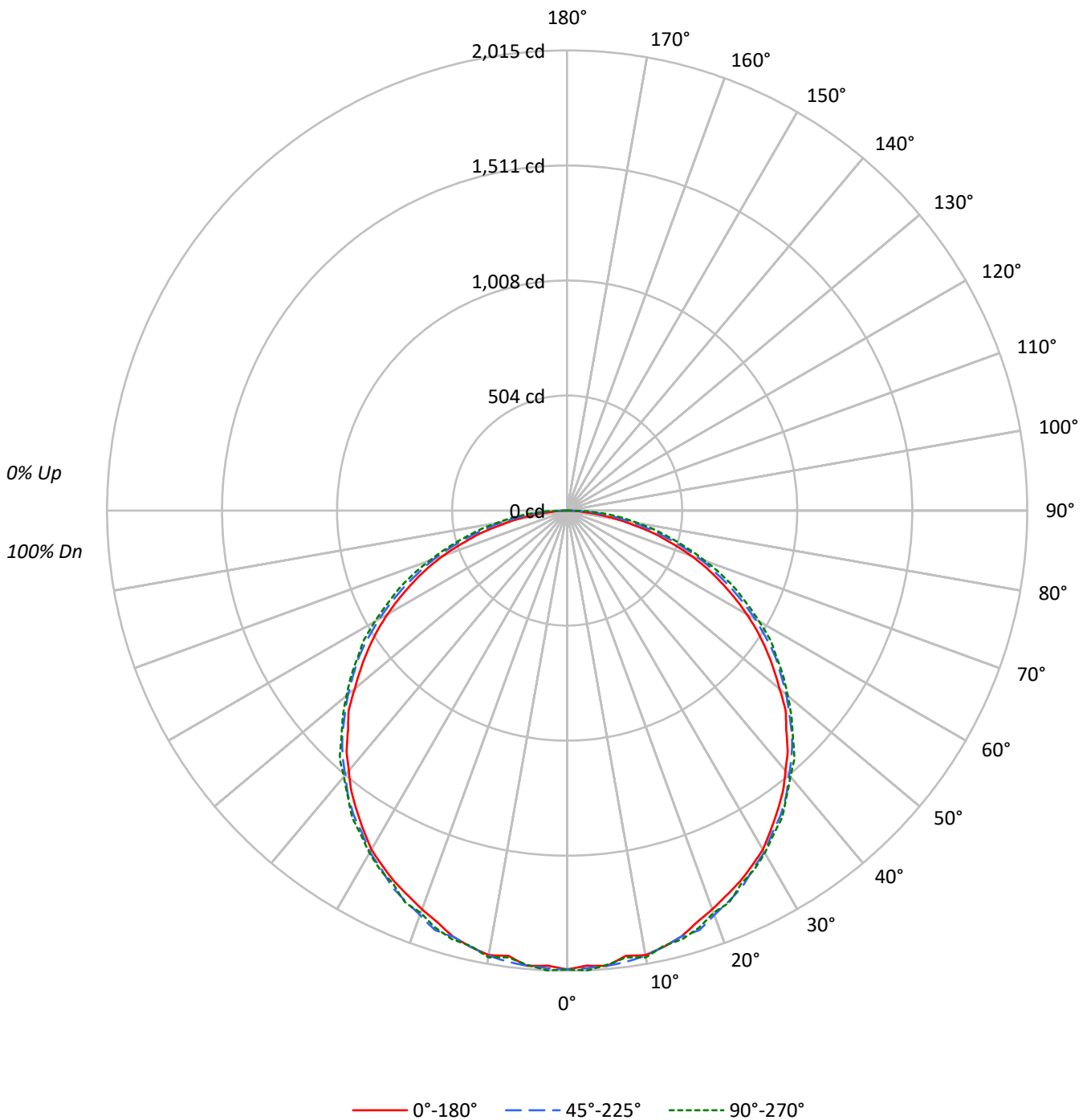
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6032.0 lumens
Efficiency: N/A
Efficacy: 133.2 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): 45.3
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°	3053	3053	3053
5°	3054	3052	3047
10°	3050	3054	3065
15°	3039	3039	3058
20°	3005	3048	3032
25°	3005	3046	3023
30°	3009	3031	3038
35°	2980	3022	3044
40°	2950	2999	3017
45°	2915	2993	3003
50°	2871	2960	2981
55°	2823	2946	2965
60°	2763	2887	2954
65°	2677	2818	2929
70°	2569	2751	2844
75°	2360	2605	2776
80°	1989	2451	2753
85°	1348	2441	3027



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.3	3.2
10°-20°	547.0	9.1
20°-30°	834.0	13.8
30°-40°	1016.6	16.9
40°-50°	1069.3	17.7
50°-60°	986.0	16.3
60°-70°	774.4	12.8
70°-80°	466.8	7.7
80°-90°	147.6	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°	1571.3	26.0
0°-40°	2587.9	42.9
0°-60°	4643.2	77.0
0°-90°	6032.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6032.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2009	2009	2009	2009	2009	
5°	2002	2004	2001	2011	1997	189
15°	1932	1948	1932	1946	1944	544
25°	1792	1810	1816	1805	1803	826
35°	1606	1622	1629	1634	1641	1005
45°	1356	1372	1393	1403	1397	1049
55°	1065	1094	1112	1121	1119	952
65°	744	761	784	806	814	737
75°	402	413	444	466	473	421
85°	77	103	140	166	174	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2008.9	2008.9	2008.9	2008.9	2008.9
2.5°	1994.4	2001.6	2005.3	2009.8	2015.3
5°	2001.6	2003.5	2000.7	2010.7	1997.1
7.5°	1967.1	1998.0	1992.5	1994.4	1973.5
10°	1976.2	1973.5	1978.9	1985.3	1986.2
12.5°	1956.2	1960.7	1955.3	1971.6	1952.6
15°	1931.6	1948.0	1931.6	1946.2	1943.5
17.5°	1889.8	1895.3	1926.2	1912.6	1916.2
20°	1858.0	1881.6	1884.4	1882.6	1874.4
22.5°	1823.5	1841.7	1850.7	1859.8	1856.2
25°	1791.7	1809.8	1816.2	1805.3	1802.6
27.5°	1752.6	1760.8	1766.2	1785.3	1773.5
30°	1714.4	1714.4	1727.1	1734.4	1730.8
32.5°	1658.9	1677.1	1672.6	1680.8	1681.7
35°	1606.2	1621.7	1628.9	1633.5	1640.8
37.5°	1551.7	1562.6	1575.3	1580.8	1578.0
40°	1487.1	1496.2	1511.7	1522.6	1520.8
42.5°	1429.9	1444.4	1455.3	1464.4	1473.5
45°	1356.2	1371.7	1392.6	1402.6	1397.1
47.5°	1298.1	1303.5	1319.9	1329.9	1332.6
50°	1214.4	1245.3	1251.7	1271.7	1260.8
52.5°	1139.9	1168.1	1179.9	1194.4	1193.5
55°	1065.4	1093.5	1111.7	1120.8	1119.0
57.5°	989.0	1011.7	1030.8	1043.5	1055.4
60°	909.0	929.0	949.9	966.3	971.7
62.5°	826.3	849.0	867.2	895.4	889.9
65°	744.5	760.8	783.6	806.3	814.5
67.5°	662.7	679.9	699.0	720.8	730.8
70°	578.1	592.7	619.0	633.6	639.9
72.5°	484.5	504.5	531.8	551.8	556.3
75°	401.8	412.7	443.6	466.3	472.7
77.5°	306.3	331.8	362.7	385.4	396.3
80°	227.3	249.1	280.0	305.4	314.5
82.5°	151.8	171.8	206.3	237.3	244.5
85°	77.3	102.7	140.0	166.3	173.6
87.5°	26.4	48.2	75.4	87.3	90.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)