

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: P709649

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

Issue Date: 9/22/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709649  
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-HO-UNV-5000K-LOW  
Description: ARS 2x4 Selectable High Output 80CRI Round, SET AT 5000K AND, LOW LUMEN OUTPUT SETTINGS

Light Source: -  
Ballast/Driver: -

**Summary**

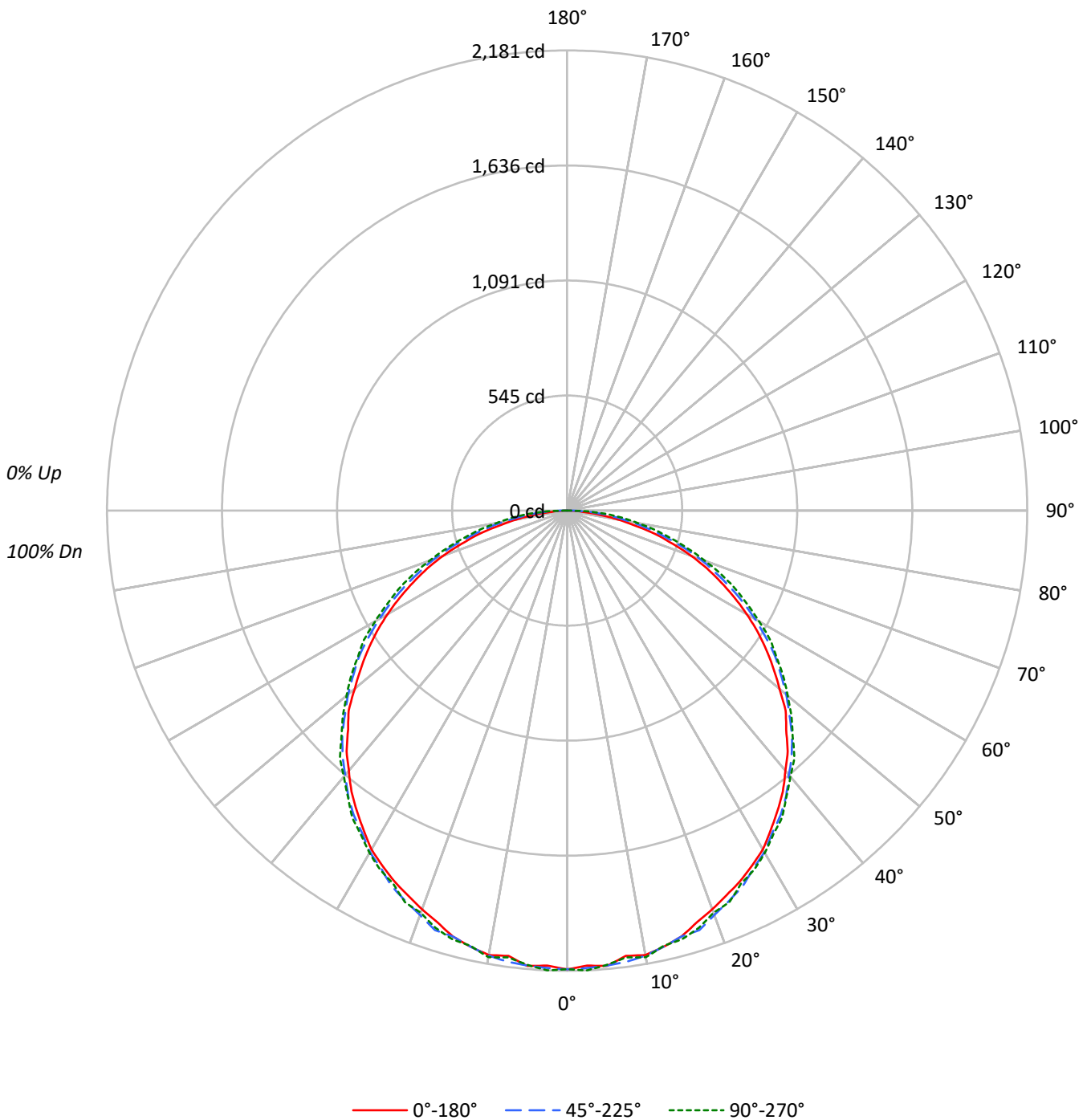
Lumens per Lamp: N/A  
Luminaire Lumens: 6528.0 lumens  
Efficiency: N/A  
Efficacy: 137.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1.83' x L: 3.87' x H: 0')  
CIE Type: Direct

Input Watts (W): 47.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	3304	3304	3304
5°	3305	3303	3297
10°	3301	3305	3317
15°	3289	3289	3310
20°	3252	3298	3281
25°	3252	3296	3271
30°	3256	3280	3287
35°	3225	3271	3295
40°	3193	3246	3265
45°	3155	3239	3250
50°	3108	3203	3226
55°	3055	3188	3209
60°	2991	3125	3197
65°	2898	3050	3170
70°	2780	2977	3078
75°	2553	2819	3004
80°	2152	2652	2979
85°	1458	2642	3277



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.9	3.2
10°-20°	592.0	9.1
20°-30°	902.6	13.8
30°-40°	1100.2	16.9
40°-50°	1157.2	17.7
50°-60°	1067.1	16.3
60°-70°	838.1	12.8
70°-80°	505.2	7.7
80°-90°	159.8	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°	1700.5	26.0
0°-40°	2800.7	42.9
0°-60°	5025.0	77.0
0°-90°	6528.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6528.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2174	2174	2174	2174	2174	
5°	2166	2168	2165	2176	2161	205
15°	2090	2108	2090	2106	2103	588
25°	1939	1959	1966	1954	1951	894
35°	1738	1755	1763	1768	1776	1088
45°	1468	1484	1507	1518	1512	1136
55°	1153	1184	1203	1213	1211	1030
65°	806	823	848	873	881	797
75°	435	447	480	505	512	455
85°	84	111	152	180	188	109
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2174.1	2174.1	2174.1	2174.1	2174.1
2.5°	2158.4	2166.2	2170.2	2175.1	2181.0
5°	2166.2	2168.2	2165.2	2176.1	2161.3
7.5°	2128.8	2162.3	2156.4	2158.4	2135.7
10°	2138.7	2135.7	2141.6	2148.5	2149.5
12.5°	2117.0	2122.0	2116.1	2133.8	2113.1
15°	2090.5	2108.2	2090.5	2106.2	2103.3
17.5°	2045.2	2051.1	2084.6	2069.8	2073.8
20°	2010.8	2036.4	2039.3	2037.4	2028.5
22.5°	1973.4	1993.1	2002.9	2012.8	2008.8
25°	1939.0	1958.7	1965.5	1953.7	1950.8
27.5°	1896.7	1905.5	1911.4	1932.1	1919.3
30°	1855.4	1855.4	1869.1	1877.0	1873.1
32.5°	1795.4	1815.0	1810.1	1819.0	1819.9
35°	1738.3	1755.0	1762.9	1767.8	1775.7
37.5°	1679.3	1691.1	1704.8	1710.8	1707.8
40°	1609.4	1619.3	1636.0	1647.8	1645.8
42.5°	1547.4	1563.2	1575.0	1584.8	1594.7
45°	1467.8	1484.5	1507.1	1517.9	1512.0
47.5°	1404.8	1410.7	1428.4	1439.2	1442.2
50°	1314.3	1347.7	1354.6	1376.3	1364.5
52.5°	1233.6	1264.1	1276.9	1292.7	1291.7
55°	1153.0	1183.5	1203.1	1213.0	1211.0
57.5°	1070.3	1094.9	1115.6	1129.4	1142.1
60°	983.8	1005.4	1028.0	1045.7	1051.6
62.5°	894.2	918.8	938.5	969.0	963.1
65°	805.7	823.4	848.0	872.6	881.4
67.5°	717.2	735.8	756.5	780.1	790.9
70°	625.7	641.4	669.9	685.7	692.6
72.5°	524.3	546.0	575.5	597.1	602.1
75°	434.8	446.6	480.1	504.7	511.6
77.5°	331.5	359.1	392.5	417.1	428.9
80°	245.9	269.5	303.0	330.5	340.4
82.5°	164.3	185.9	223.3	256.8	264.6
85°	83.6	111.2	151.5	180.0	187.9
87.5°	28.5	52.1	81.7	94.4	98.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)