

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: P709642

Luminaire Tested: **24ARS-L3C3-HO-UNV-3500K-HI**

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709642
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-3500K-HI
Description: ARS 2x4 Selectable High Output 80CRI Round, SET AT 3500K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

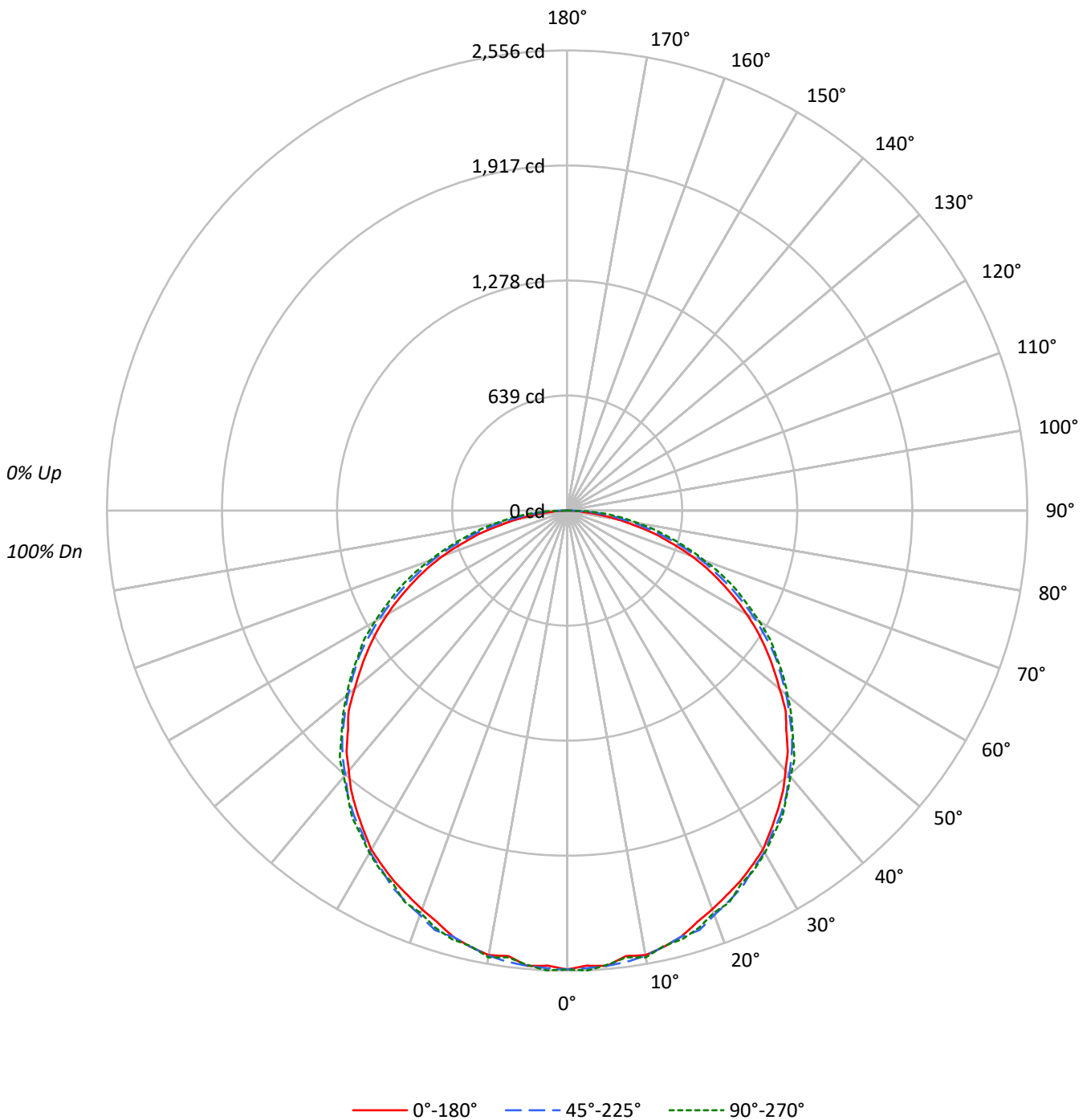
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7652.0 lumens
Efficiency: N/A
Efficacy: 125.6 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): 60.9
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°	3873	3873	3873
5°	3874	3872	3865
10°	3869	3874	3889
15°	3856	3856	3879
20°	3812	3866	3846
25°	3811	3864	3835
30°	3817	3845	3853
35°	3781	3834	3862
40°	3743	3805	3828
45°	3698	3797	3810
50°	3643	3755	3782
55°	3581	3737	3761
60°	3505	3663	3747
65°	3396	3575	3716
70°	3259	3490	3607
75°	2993	3304	3521
80°	2523	3109	3492
85°	1709	3097	3840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.4	3.2
10°-20°	693.9	9.1
20°-30°	1058.0	13.8
30°-40°	1289.6	16.9
40°-50°	1356.4	17.7
50°-60°	1250.9	16.3
60°-70°	982.3	12.8
70°-80°	592.1	7.7
80°-90°	187.3	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°	1993.3	26.0
0°-40°	3282.9	42.9
0°-60°	5890.2	77.0
0°-90°	7652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7652.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2548	2548	2548	2548	2548	
5°	2539	2542	2538	2551	2533	240
15°	2450	2471	2450	2469	2465	689
25°	2273	2296	2304	2290	2287	1048
35°	2038	2057	2066	2072	2081	1275
45°	1720	1740	1767	1779	1772	1331
55°	1352	1387	1410	1422	1420	1208
65°	944	965	994	1023	1033	935
75°	510	524	563	592	600	534
85°	98	130	178	211	220	127
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2548.4	2548.4	2548.4	2548.4	2548.4
2.5°	2530.0	2539.2	2543.8	2549.6	2556.5
5°	2539.2	2541.5	2538.1	2550.7	2533.4
7.5°	2495.4	2534.6	2527.7	2530.0	2503.5
10°	2506.9	2503.5	2510.4	2518.5	2519.6
12.5°	2481.6	2487.3	2480.4	2501.2	2476.9
15°	2450.4	2471.2	2450.4	2468.9	2465.4
17.5°	2397.4	2404.3	2443.5	2426.2	2430.8
20°	2357.0	2387.0	2390.5	2388.2	2377.8
22.5°	2313.2	2336.3	2347.8	2359.3	2354.7
25°	2272.8	2295.9	2304.0	2290.1	2286.7
27.5°	2223.3	2233.6	2240.6	2264.8	2249.8
30°	2174.8	2174.8	2191.0	2200.2	2195.6
32.5°	2104.5	2127.5	2121.8	2132.2	2133.3
35°	2037.6	2057.2	2066.4	2072.2	2081.4
37.5°	1968.4	1982.2	1998.4	2005.3	2001.9
40°	1886.5	1898.1	1917.7	1931.5	1929.2
42.5°	1813.9	1832.3	1846.2	1857.7	1869.2
45°	1720.5	1740.1	1766.6	1779.3	1772.4
47.5°	1646.7	1653.6	1674.4	1687.0	1690.5
50°	1540.6	1579.8	1587.9	1613.2	1599.4
52.5°	1446.0	1481.8	1496.8	1515.2	1514.1
55°	1351.5	1387.2	1410.3	1421.8	1419.5
57.5°	1254.6	1283.4	1307.7	1323.8	1338.8
60°	1153.1	1178.5	1205.0	1225.8	1232.7
62.5°	1048.2	1077.0	1100.1	1135.8	1128.9
65°	944.4	965.2	994.0	1022.8	1033.2
67.5°	840.6	862.5	886.8	914.4	927.1
70°	733.4	751.8	785.3	803.7	811.8
72.5°	614.6	640.0	674.6	700.0	705.7
75°	509.7	523.5	562.7	591.6	599.6
77.5°	388.6	420.9	460.1	488.9	502.8
80°	288.3	316.0	355.2	387.5	399.0
82.5°	192.6	217.9	261.8	301.0	310.2
85°	98.0	130.3	177.6	211.0	220.2
87.5°	33.4	61.1	95.7	110.7	115.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)