

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: P709639

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

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709639
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-SQR-UNV-5000K-HI
Description: ARS 2x4 Selectable High Output 80CRI Square, SET AT 5000K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

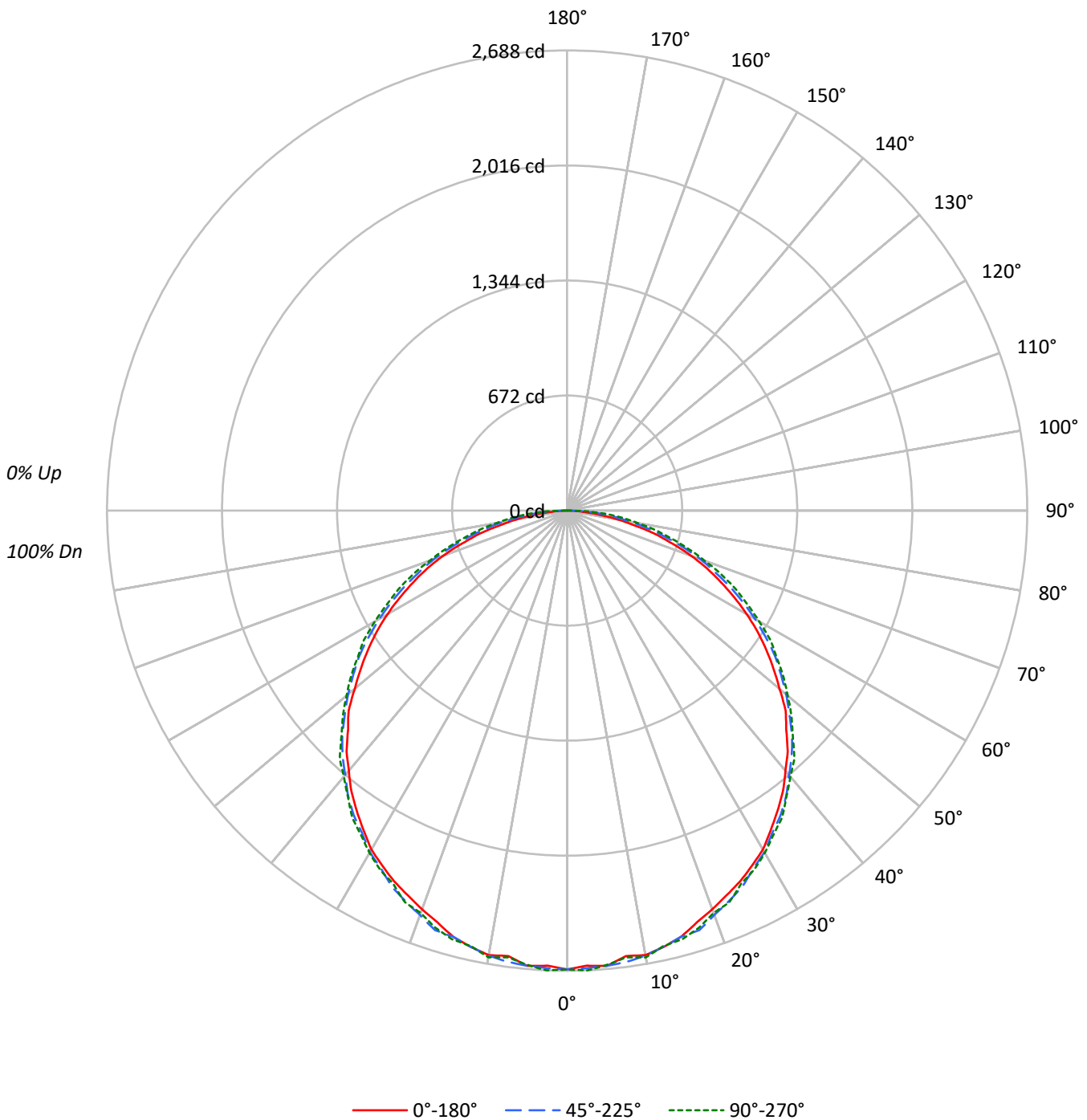
Lumens per Lamp: N/A
Luminaire Lumens: 8047.0 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1.83' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 60
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

TEST NUMBER: P709639

CATALOG NUMBER: 24ARS-L3C3-HO-SQR-UNV-5000K-HI

Luminous Intensity Polar Plot





TEST NUMBER: P709639

CATALOG NUMBER: 24ARS-L3C3-HO-SQR-UNV-5000K-HI

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°	4073	4073	4073
5°	4074	4072	4065
10°	4069	4074	4089
15°	4055	4055	4080
20°	4009	4066	4044
25°	4008	4063	4033
30°	4014	4044	4052
35°	3976	4032	4061
40°	3936	4001	4025
45°	3889	3993	4006
50°	3831	3948	3977
55°	3766	3930	3956
60°	3686	3852	3940
65°	3572	3759	3907
70°	3428	3670	3794
75°	3148	3475	3703
80°	2654	3269	3673
85°	1798	3258	4039



TEST NUMBER: P709639

CATALOG NUMBER: 24ARS-L3C3-HO-SQR-UNV-5000K-HI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.8	3.2
10°-20°	729.8	9.1
20°-30°	1112.6	13.8
30°-40°	1356.2	16.9
40°-50°	1426.5	17.7
50°-60°	1315.4	16.3
60°-70°	1033.1	12.8
70°-80°	622.7	7.7
80°-90°	197.0	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°	2096.2	26.0
0°-40°	3452.4	42.9
0°-60°	6194.3	77.0
0°-90°	8047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8047.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2680	2680	2680	2680	2680	
5°	2670	2673	2669	2682	2664	252
15°	2577	2599	2577	2596	2593	725
25°	2390	2414	2423	2408	2405	1102
35°	2143	2163	2173	2179	2189	1341
45°	1809	1830	1858	1871	1864	1400
55°	1421	1459	1483	1495	1493	1270
65°	993	1015	1045	1076	1086	983
75°	536	551	592	622	631	561
85°	103	137	187	222	232	134
90°	0	0	0	0	0	



TEST NUMBER: P709639

CATALOG NUMBER: 24ARS-L3C3-HO-SQR-UNV-5000K-HI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2680.0	2680.0	2680.0	2680.0	2680.0
2.5°	2660.6	2670.3	2675.1	2681.2	2688.5
5°	2670.3	2672.7	2669.1	2682.4	2664.2
7.5°	2624.2	2665.4	2658.2	2660.6	2632.7
10°	2636.3	2632.7	2640.0	2648.5	2649.7
12.5°	2609.7	2615.7	2608.4	2630.3	2604.8
15°	2576.9	2598.7	2576.9	2596.3	2592.7
17.5°	2521.1	2528.4	2569.6	2551.4	2556.3
20°	2478.7	2510.2	2513.9	2511.4	2500.5
22.5°	2432.6	2456.9	2469.0	2481.1	2476.3
25°	2390.2	2414.4	2422.9	2408.4	2404.7
27.5°	2338.0	2348.9	2356.2	2381.7	2365.9
30°	2287.1	2287.1	2304.1	2313.8	2308.9
32.5°	2213.1	2237.4	2231.3	2242.2	2243.4
35°	2142.8	2163.4	2173.1	2179.2	2188.9
37.5°	2070.0	2084.6	2101.5	2108.8	2105.2
40°	1983.9	1996.0	2016.7	2031.2	2028.8
42.5°	1907.5	1926.9	1941.5	1953.6	1965.7
45°	1809.3	1829.9	1857.8	1871.1	1863.9
47.5°	1731.7	1739.0	1760.8	1774.1	1777.8
50°	1620.1	1661.4	1669.8	1696.5	1682.0
52.5°	1520.7	1558.3	1574.0	1593.4	1592.2
55°	1421.2	1458.8	1483.1	1495.2	1492.8
57.5°	1319.4	1349.7	1375.2	1392.1	1407.9
60°	1212.7	1239.3	1267.2	1289.1	1296.3
62.5°	1102.3	1132.6	1156.9	1194.5	1187.2
65°	993.2	1015.0	1045.3	1075.6	1086.5
67.5°	884.0	907.1	932.5	961.6	975.0
70°	771.3	790.7	825.8	845.2	853.7
72.5°	646.4	673.0	709.4	736.1	742.2
75°	536.0	550.6	591.8	622.1	630.6
77.5°	408.7	442.6	483.9	514.2	528.7
80°	303.2	332.3	373.5	407.5	419.6
82.5°	202.5	229.2	275.3	316.5	326.2
85°	103.1	137.0	186.8	221.9	231.6
87.5°	35.2	64.3	100.7	116.4	121.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)