

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: P709636

Luminaire Tested: **24ARS-L3C3-HO-SQR-UNV-4000K-HI**

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709636
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-4000K-HI
Description: ARS 2x4 Selectable High Output 80CRI Square, SET AT 4000K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

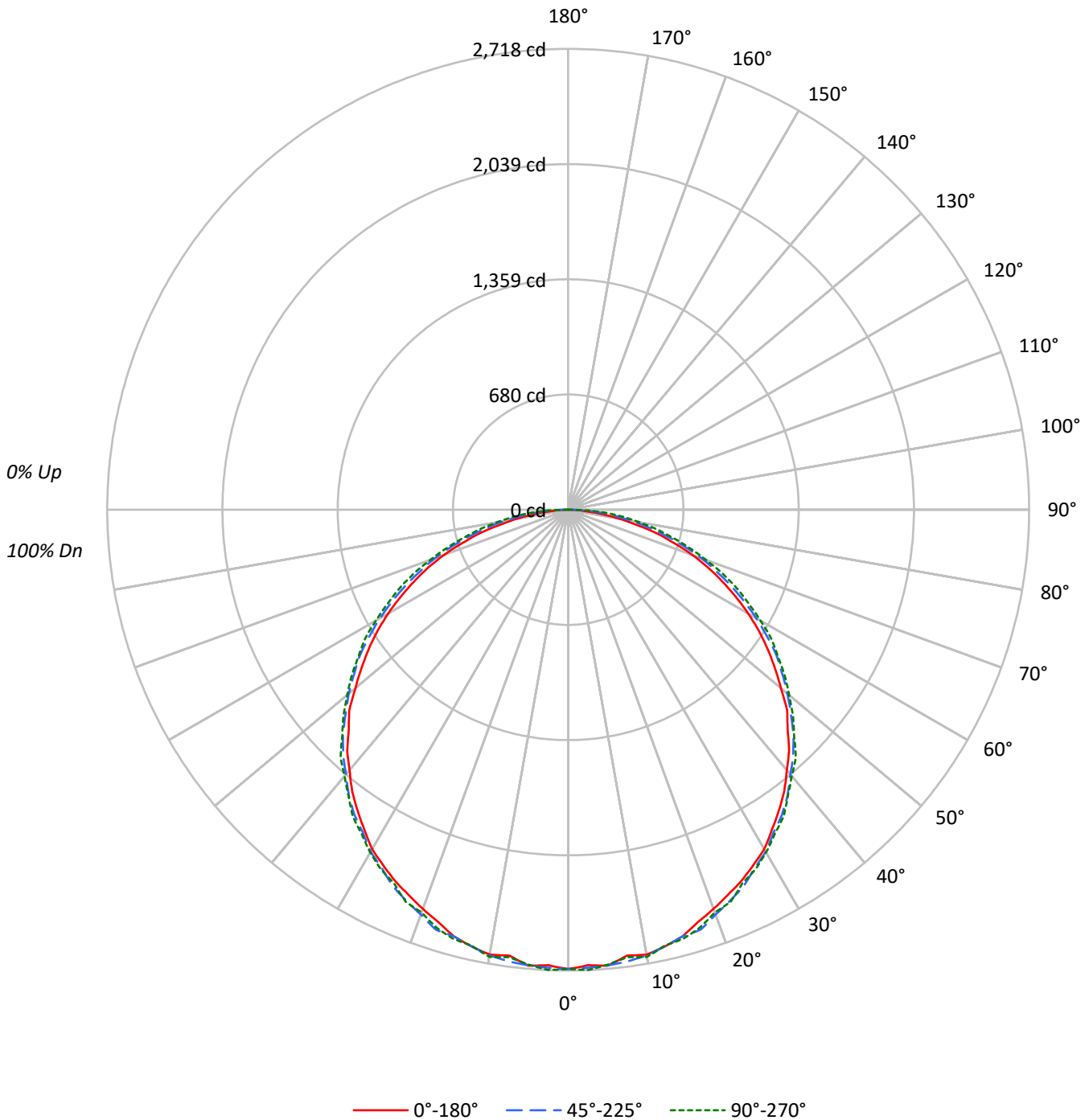
Lumens per Lamp: N/A
Luminaire Lumens: 8134.0 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1.83' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 57.6
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°	4117	4117	4117
5°	4118	4116	4109
10°	4113	4118	4133
15°	4099	4099	4124
20°	4052	4110	4088
25°	4052	4107	4076
30°	4057	4087	4096
35°	4019	4076	4105
40°	3979	4045	4069
45°	3931	4036	4050
50°	3872	3991	4020
55°	3807	3972	3998
60°	3726	3894	3983
65°	3610	3800	3950
70°	3464	3710	3835
75°	3182	3513	3743
80°	2682	3304	3712
85°	1817	3292	4082



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.6	3.2
10°-20°	737.7	9.1
20°-30°	1124.6	13.8
30°-40°	1370.8	16.9
40°-50°	1441.9	17.7
50°-60°	1329.7	16.3
60°-70°	1044.2	12.8
70°-80°	629.4	7.7
80°-90°	199.1	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°	2118.9	26.0
0°-40°	3489.7	42.9
0°-60°	6261.2	77.0
0°-90°	8134.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8134.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2709	2709	2709	2709	2709	
5°	2699	2702	2698	2711	2693	255
15°	2605	2627	2605	2624	2621	733
25°	2416	2440	2449	2434	2431	1114
35°	2166	2187	2197	2203	2212	1355
45°	1829	1850	1878	1891	1884	1415
55°	1437	1475	1499	1511	1509	1284
65°	1004	1026	1057	1087	1098	993
75°	542	556	598	629	637	567
85°	104	138	189	224	234	135
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2709.0	2709.0	2709.0	2709.0	2709.0
2.5°	2689.4	2699.2	2704.1	2710.2	2717.5
5°	2699.2	2701.6	2697.9	2711.4	2693.0
7.5°	2652.6	2694.3	2686.9	2689.4	2661.2
10°	2664.8	2661.2	2668.5	2677.1	2678.3
12.5°	2637.9	2644.0	2636.6	2658.7	2633.0
15°	2604.8	2626.8	2604.8	2624.4	2620.7
17.5°	2548.4	2555.7	2597.4	2579.0	2583.9
20°	2505.5	2537.4	2541.0	2538.6	2527.6
22.5°	2458.9	2483.4	2495.7	2507.9	2503.0
25°	2416.0	2440.5	2449.1	2434.4	2430.7
27.5°	2363.3	2374.3	2381.7	2407.4	2391.5
30°	2311.8	2311.8	2329.0	2338.8	2333.9
32.5°	2237.0	2261.6	2255.4	2266.5	2267.7
35°	2165.9	2186.8	2196.6	2202.7	2212.5
37.5°	2092.4	2107.1	2124.3	2131.6	2127.9
40°	2005.4	2017.6	2038.5	2053.2	2050.7
42.5°	1928.1	1947.8	1962.5	1974.7	1987.0
45°	1828.9	1849.7	1877.9	1891.4	1884.0
47.5°	1750.4	1757.8	1779.8	1793.3	1797.0
50°	1637.6	1679.3	1687.9	1714.9	1700.2
52.5°	1537.1	1575.1	1591.1	1610.7	1609.4
55°	1436.6	1474.6	1499.1	1511.4	1508.9
57.5°	1333.6	1364.3	1390.0	1407.2	1423.1
60°	1225.8	1252.7	1280.9	1303.0	1310.4
62.5°	1114.2	1144.9	1169.4	1207.4	1200.0
65°	1003.9	1026.0	1056.6	1087.3	1098.3
67.5°	893.6	916.9	942.6	972.0	985.5
70°	779.6	799.2	834.8	854.4	862.9
72.5°	653.3	680.3	717.1	744.0	750.2
75°	541.8	556.5	598.2	628.8	637.4
77.5°	413.1	447.4	489.1	519.7	534.4
80°	306.4	335.9	377.5	411.9	424.1
82.5°	204.7	231.7	278.3	319.9	329.7
85°	104.2	138.5	188.8	224.3	234.1
87.5°	35.5	65.0	101.7	117.7	122.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)