

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: P709633

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

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709633
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-3500K-HI
Description: ARS 2x4 Selectable High Output 80CRI Square, SET AT 3500K AND, HI LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

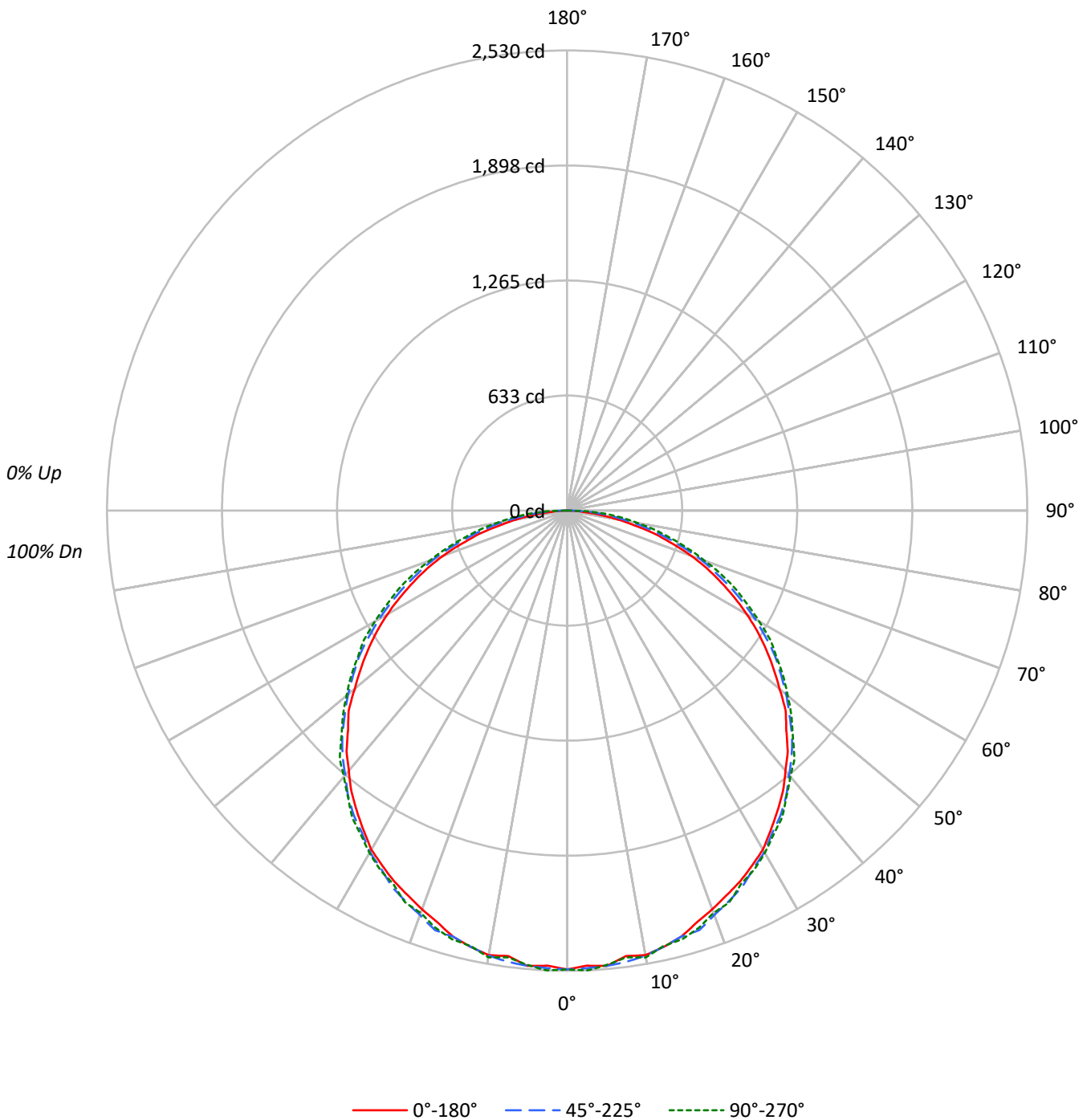
Lumens per Lamp: N/A
Luminaire Lumens: 7574.0 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1.83' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 60.1
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°	3834	3834	3834
5°	3834	3833	3826
10°	3830	3835	3849
15°	3816	3816	3840
20°	3773	3827	3807
25°	3773	3824	3796
30°	3778	3806	3814
35°	3742	3795	3823
40°	3705	3766	3789
45°	3660	3758	3771
50°	3606	3716	3743
55°	3545	3699	3723
60°	3470	3626	3709
65°	3362	3538	3678
70°	3226	3454	3571
75°	2963	3271	3485
80°	2497	3077	3456
85°	1692	3066	3802



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.9	3.2
10°-20°	686.9	9.1
20°-30°	1047.2	13.8
30°-40°	1276.5	16.9
40°-50°	1342.6	17.7
50°-60°	1238.1	16.3
60°-70°	972.4	12.8
70°-80°	586.1	7.7
80°-90°	185.4	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°	1973.0	26.0
0°-40°	3249.4	42.9
0°-60°	5830.2	77.0
0°-90°	7574.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7574.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2522	2522	2522	2522	2522	
5°	2513	2516	2512	2525	2508	238
15°	2425	2446	2425	2444	2440	682
25°	2250	2272	2280	2267	2263	1037
35°	2017	2036	2045	2051	2060	1262
45°	1703	1722	1749	1761	1754	1318
55°	1338	1373	1396	1407	1405	1195
65°	935	955	984	1012	1023	925
75°	504	518	557	586	594	528
85°	97	129	176	209	218	126
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2522.5	2522.5	2522.5	2522.5	2522.5
2.5°	2504.2	2513.3	2517.9	2523.6	2530.5
5°	2513.3	2515.6	2512.2	2524.7	2507.6
7.5°	2470.0	2508.8	2501.9	2504.2	2477.9
10°	2481.4	2477.9	2484.8	2492.8	2493.9
12.5°	2456.3	2462.0	2455.1	2475.7	2451.7
15°	2425.4	2446.0	2425.4	2443.7	2440.3
17.5°	2372.9	2379.8	2418.6	2401.5	2406.0
20°	2333.0	2362.7	2366.1	2363.8	2353.5
22.5°	2289.6	2312.4	2323.9	2335.3	2330.7
25°	2249.7	2272.5	2280.5	2266.8	2263.4
27.5°	2200.6	2210.9	2217.7	2241.7	2226.8
30°	2152.7	2152.7	2168.6	2177.8	2173.2
32.5°	2083.0	2105.9	2100.1	2110.4	2111.6
35°	2016.8	2036.2	2045.4	2051.1	2060.2
37.5°	1948.3	1962.0	1978.0	1984.9	1981.4
40°	1867.3	1878.7	1898.1	1911.8	1909.5
42.5°	1795.4	1813.7	1827.4	1838.8	1850.2
45°	1702.9	1722.4	1748.6	1761.2	1754.3
47.5°	1629.9	1636.7	1657.3	1669.8	1673.3
50°	1524.9	1563.7	1571.7	1596.8	1583.1
52.5°	1431.3	1466.7	1481.5	1499.8	1498.6
55°	1337.7	1373.1	1395.9	1407.3	1405.0
57.5°	1241.8	1270.4	1294.3	1310.3	1325.1
60°	1141.4	1166.5	1192.7	1213.3	1220.1
62.5°	1037.5	1066.1	1088.9	1124.3	1117.4
65°	934.8	955.3	983.9	1012.4	1022.7
67.5°	832.1	853.8	877.7	905.1	917.7
70°	725.9	744.2	777.3	795.5	803.5
72.5°	608.4	633.5	667.7	692.8	698.5
75°	504.5	518.2	557.0	585.5	593.5
77.5°	384.6	416.6	455.4	483.9	497.6
80°	285.3	312.7	351.5	383.5	394.9
82.5°	190.6	215.7	259.1	297.9	307.0
85°	97.0	129.0	175.8	208.9	218.0
87.5°	33.1	60.5	94.7	109.6	114.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)