

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: P709616

Luminaire Tested: **22ARS-L3C3-UNV-3500K-LOW**

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-014-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22ARS-L3C3-UNV-3500K-LOW
Description: ARS 2x2 Selectable Standard 80CRI Round, SET AT 3500K AND, LOW LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

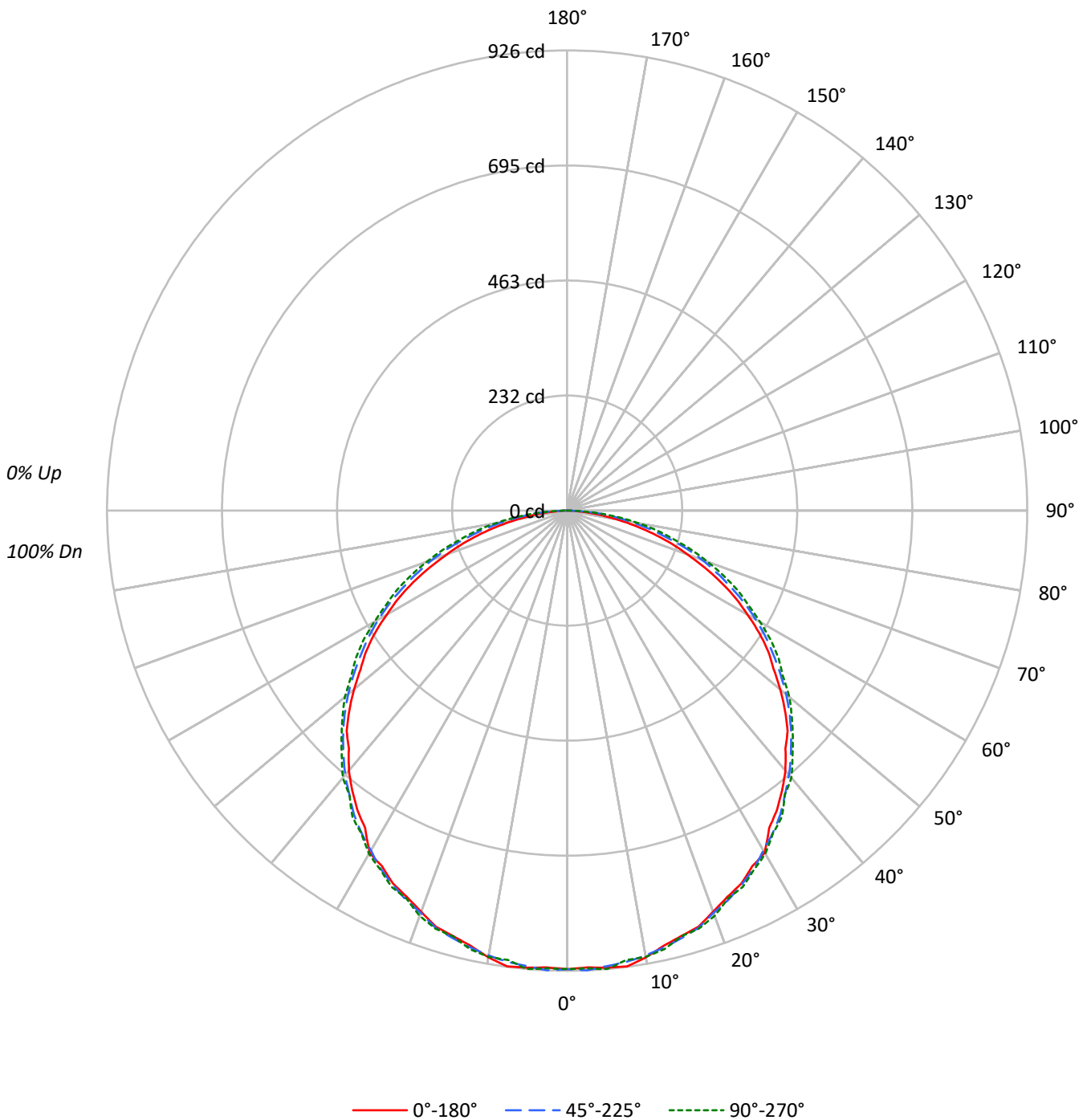
Lumens per Lamp: N/A
Luminaire Lumens: 2767.0 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1.97' x L: 1.97' x H: 0')
CIE Type: Direct

Input Watts (W): 20.8
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	88	89	87	85	83
2	98	90	83	77	96	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	61	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	45	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°	2559	2559	2559
5°	2570	2562	2578
10°	2571	2560	2569
15°	2545	2557	2547
20°	2535	2542	2561
25°	2535	2542	2557
30°	2546	2530	2554
35°	2492	2531	2550
40°	2474	2516	2542
45°	2461	2500	2519
50°	2416	2482	2519
55°	2388	2453	2513
60°	2326	2431	2486
65°	2246	2378	2479
70°	2084	2338	2435
75°	1914	2203	2374
80°	1594	2073	2319
85°	1200	1922	2030



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.6	3.2
10°-20°	251.1	9.1
20°-30°	382.5	13.8
30°-40°	465.6	16.8
40°-50°	490.4	17.7
50°-60°	453.2	16.4
60°-70°	357.5	12.9
70°-80°	216.3	7.8
80°-90°	62.8	2.3
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°	721.2	26.1
0°-40°	1186.8	42.9
0°-60°	2130.4	77.0
0°-90°	2767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2767.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	923	923	923	923	923	
5°	923	919	920	919	926	88
15°	886	890	890	888	887	251
25°	828	826	831	832	836	381
35°	736	739	748	749	753	461
45°	628	628	637	642	642	482
55°	494	497	507	518	520	440
65°	342	350	362	375	378	337
75°	179	190	206	220	222	189
85°	38	47	60	62	64	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	922.7	922.7	922.7	922.7	922.7
2.5°	920.1	924.8	926.1	922.2	921.8
5°	923.1	918.8	920.1	919.2	926.1
7.5°	925.2	918.4	915.8	913.7	912.0
10°	912.8	909.8	909.0	908.5	912.0
12.5°	897.0	899.5	900.4	899.1	903.8
15°	886.3	889.7	890.5	887.5	887.1
17.5°	878.1	875.5	880.3	875.5	882.0
20°	858.8	861.0	861.4	865.7	867.8
22.5°	841.7	847.7	847.7	850.7	845.1
25°	828.4	826.3	830.6	831.9	835.7
27.5°	807.0	805.7	812.6	807.9	814.3
30°	795.0	788.2	789.9	793.3	797.6
32.5°	756.9	767.2	769.7	771.5	770.6
35°	735.9	738.9	747.5	748.8	753.0
37.5°	710.2	709.3	720.1	724.3	720.1
40°	683.2	685.8	694.8	699.5	702.1
42.5°	650.2	656.2	666.5	671.7	671.2
45°	627.5	628.0	637.4	642.5	642.1
47.5°	594.6	598.4	607.4	615.1	613.0
50°	559.9	566.3	575.3	582.1	583.8
52.5°	523.9	531.6	541.0	554.7	547.4
55°	493.9	497.3	507.2	517.9	519.6
57.5°	458.3	462.2	473.8	483.2	486.2
60°	419.4	423.2	438.2	449.8	448.1
62.5°	382.9	388.9	401.8	412.1	410.8
65°	342.3	349.5	362.4	374.8	377.8
67.5°	299.0	308.8	325.1	338.8	339.3
70°	257.0	268.6	288.3	299.4	300.3
72.5°	219.7	228.3	248.9	260.9	261.7
75°	178.6	190.2	205.6	220.2	221.5
77.5°	138.8	150.8	168.3	182.5	185.5
80°	99.8	113.1	129.8	143.1	145.2
82.5°	65.5	78.4	94.7	106.7	106.7
85°	37.7	46.7	60.4	62.1	63.8
87.5°	12.4	18.0	22.7	24.4	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)