

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: P709619

Luminaire Tested: **22ARS-L3C3-UNV-4000K-LOW**

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709619
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-4000K-LOW
Description: ARS 2x2 Selectable Standard 80CRI Round, SET AT 4000K AND, LOW LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

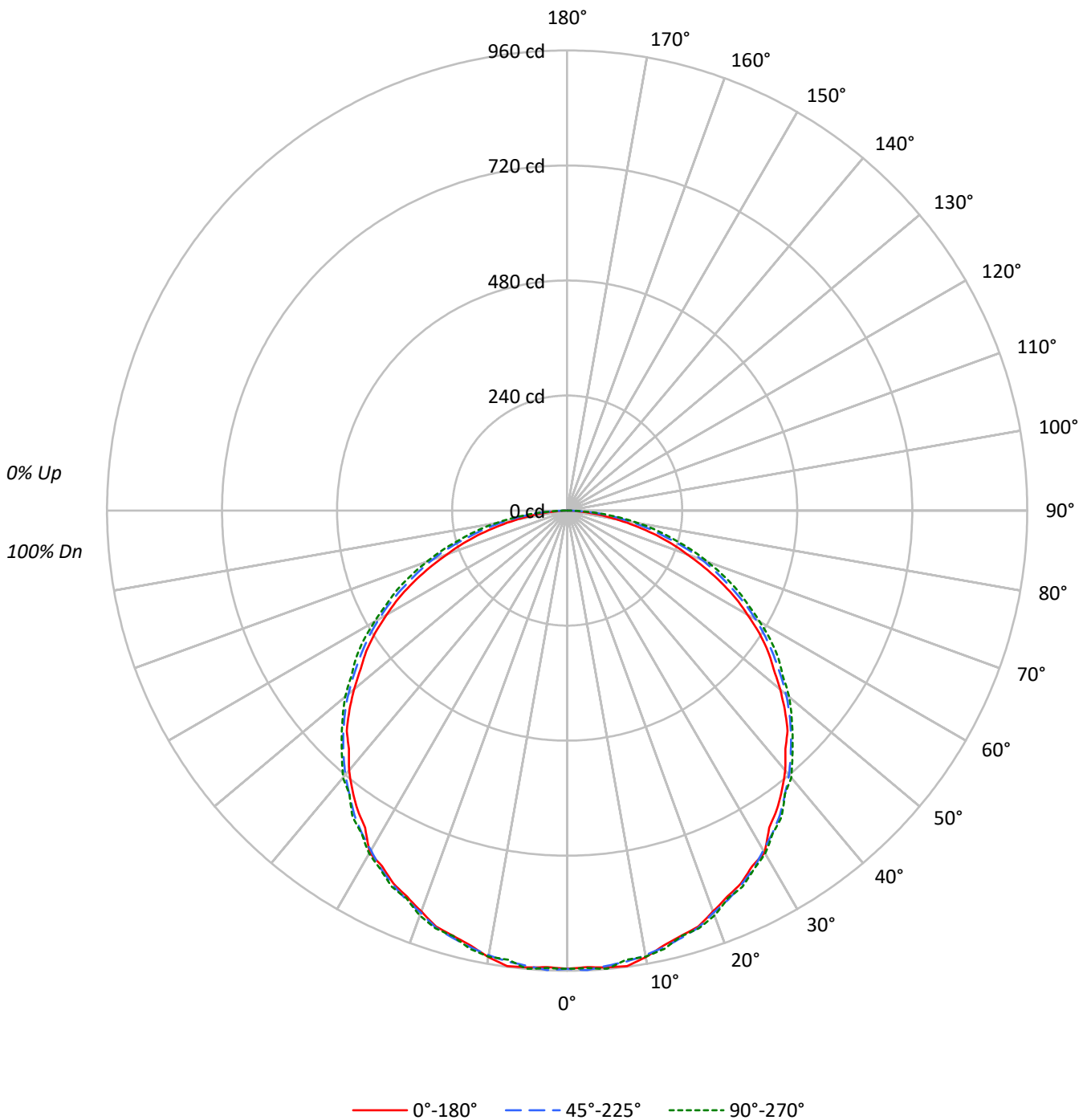
Lumens per Lamp: N/A
Luminaire Lumens: 2867.0 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1.97' x L: 1.97' x H: 0')
CIE Type: Direct

Input Watts (W): 20.2
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

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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°	2652	2652	2652
5°	2663	2654	2672
10°	2664	2652	2661
15°	2637	2649	2639
20°	2627	2634	2654
25°	2627	2634	2650
30°	2638	2621	2647
35°	2582	2622	2642
40°	2563	2606	2634
45°	2550	2590	2610
50°	2503	2572	2610
55°	2474	2541	2603
60°	2410	2518	2575
65°	2327	2464	2569
70°	2160	2422	2523
75°	1984	2283	2459
80°	1652	2148	2404
85°	1244	1992	2104



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	3.2
10°-20°	260.2	9.1
20°-30°	396.3	13.8
30°-40°	482.5	16.8
40°-50°	508.1	17.7
50°-60°	469.6	16.4
60°-70°	370.4	12.9
70°-80°	224.1	7.8
80°-90°	65.1	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°	747.2	26.1
0°-40°	1229.7	42.9
0°-60°	2207.4	77.0
0°-90°	2867.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2867.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	956	956	956	956	956	
5°	956	952	953	952	960	91
15°	918	922	923	920	919	260
25°	858	856	861	862	866	395
35°	762	766	774	776	780	477
45°	650	651	660	666	665	499
55°	512	515	526	537	538	456
65°	355	362	376	388	392	349
75°	185	197	213	228	230	195
85°	39	48	63	64	66	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	956.0	956.0	956.0	956.0	956.0
2.5°	953.3	958.2	959.6	955.6	955.1
5°	956.5	952.0	953.3	952.5	959.6
7.5°	958.7	951.6	948.9	946.7	944.9
10°	945.8	942.7	941.8	941.4	944.9
12.5°	929.4	932.0	932.9	931.6	936.5
15°	918.3	921.8	922.7	919.6	919.2
17.5°	909.9	907.2	912.1	907.2	913.8
20°	889.9	892.1	892.5	897.0	899.2
22.5°	872.1	878.3	878.3	881.4	875.7
25°	858.4	856.1	860.6	861.9	865.9
27.5°	836.2	834.8	841.9	837.1	843.7
30°	823.8	816.6	818.4	822.0	826.4
32.5°	784.2	794.9	797.6	799.3	798.5
35°	762.5	765.6	774.5	775.8	780.3
37.5°	735.9	735.0	746.1	750.5	746.1
40°	707.9	710.6	719.9	724.8	727.4
42.5°	673.7	679.9	690.6	695.9	695.5
45°	650.2	650.7	660.4	665.7	665.3
47.5°	616.0	620.0	629.4	637.3	635.1
50°	580.1	586.7	596.1	603.2	604.9
52.5°	542.8	550.8	560.6	574.8	567.2
55°	511.7	515.3	525.5	536.6	538.4
57.5°	474.9	478.9	490.9	500.6	503.7
60°	434.5	438.5	454.0	466.0	464.2
62.5°	396.8	403.0	416.3	427.0	425.6
65°	354.6	362.2	375.5	388.4	391.5
67.5°	309.8	320.0	336.9	351.1	351.5
70°	266.3	278.3	298.7	310.2	311.1
72.5°	227.7	236.6	257.9	270.3	271.2
75°	185.1	197.1	213.0	228.1	229.5
77.5°	143.8	156.2	174.4	189.1	192.2
80°	103.4	117.2	134.5	148.2	150.5
82.5°	67.9	81.2	98.1	110.5	110.5
85°	39.1	48.4	62.6	64.4	66.1
87.5°	12.9	18.6	23.5	25.3	25.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)