

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: P709599

Luminaire Tested: **14ARS-L3C3-UNV-3500K-MID**

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709599
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-014-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14ARS-L3C3-UNV-3500K-MID
Description: ARS 1x4 Selectable Standard 80CRI Round, SET AT 3500K AND, MID LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

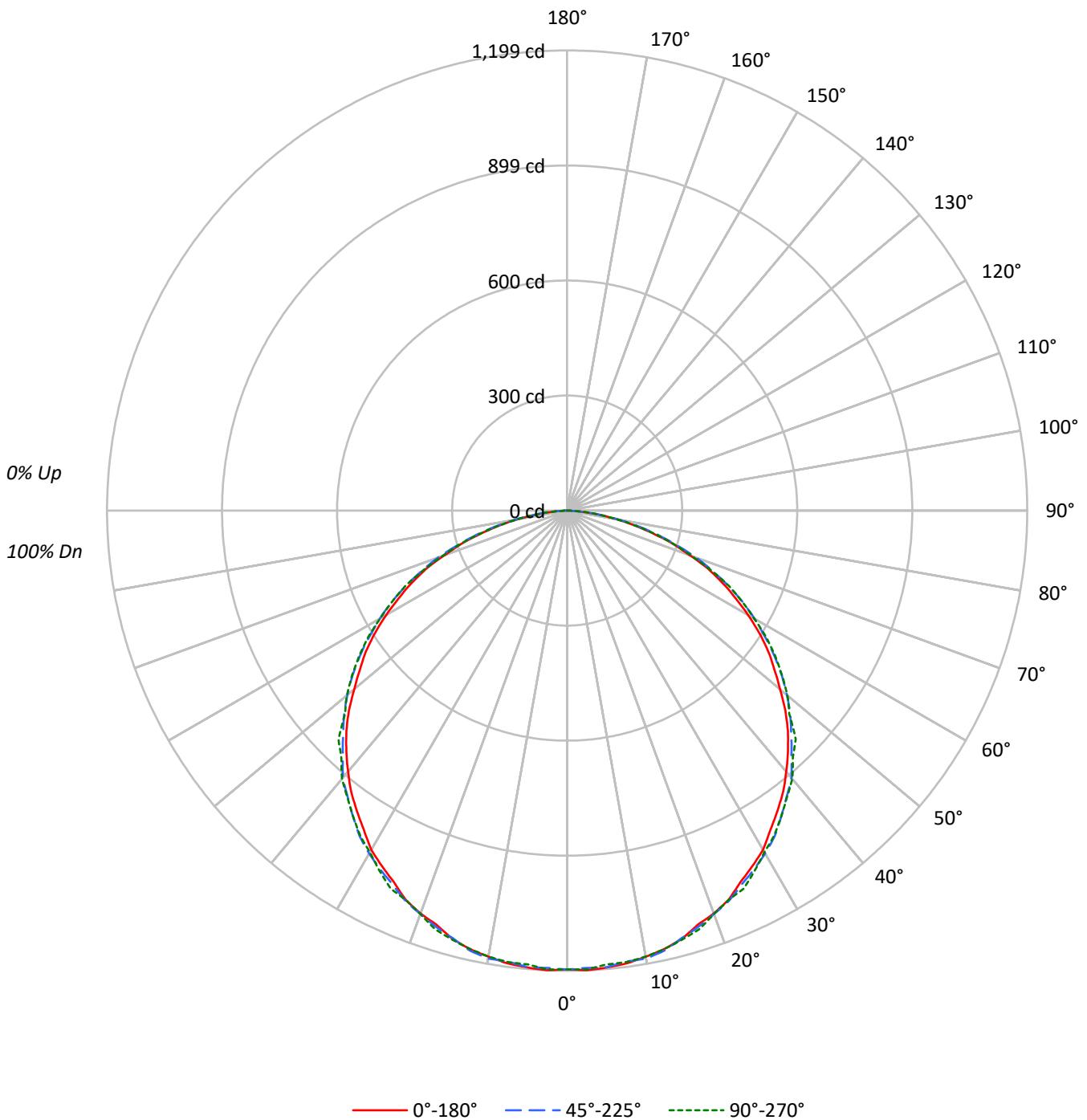
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3530.0 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.85' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 26.8
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	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61	56	52	49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55	49	45	43
6	70	56	47	40	68	55	46	40	53	46	40		52	45	40		50	44	39	37
7	64	51	42	36	63	50	41	36	48	41	35		47	40	35		46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		39	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3912	3912	3912
5°	3925	3922	3899
10°	3922	3938	3920
15°	3915	3907	3920
20°	3890	3896	3894
25°	3856	3883	3925
30°	3856	3899	3885
35°	3816	3885	3885
40°	3794	3884	3898
45°	3765	3821	3898
50°	3686	3807	3815
55°	3651	3761	3777
60°	3565	3689	3679
65°	3466	3583	3604
70°	3255	3415	3301
75°	2950	3086	3010
80°	2493	2565	2493
85°	1705	1806	1885



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	3.2
10°-20°	326.2	9.2
20°-30°	496.2	14.1
30°-40°	606.1	17.2
40°-50°	636.9	18.0
50°-60°	585.1	16.6
60°-70°	452.8	12.8
70°-80°	253.9	7.2
80°-90°	59.6	1.7
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°	935.6	26.5
0°-40°	1541.7	43.7
0°-60°	2763.7	78.3
0°-90°	3530.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3530.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1196	1196	1196	1196	1196	
5°	1195	1182	1194	1191	1187	114
15°	1156	1156	1153	1159	1157	325
25°	1068	1071	1076	1081	1087	494
35°	955	960	972	975	972	598
45°	814	818	826	830	842	626
55°	640	650	659	657	662	570
65°	448	454	463	463	466	441
75°	233	242	244	236	238	248
85°	45	46	48	49	50	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1195.5	1195.5	1195.5	1195.5	1195.5
2.5°	1198.8	1193.4	1192.8	1195.0	1196.6
5°	1195.0	1182.0	1193.9	1191.2	1186.9
7.5°	1190.1	1171.8	1184.7	1186.3	1186.3
10°	1180.4	1172.3	1185.3	1182.0	1179.9
12.5°	1170.1	1169.6	1173.9	1172.3	1170.1
15°	1155.6	1156.1	1153.4	1159.3	1157.2
17.5°	1131.3	1139.4	1137.2	1144.2	1144.2
20°	1117.2	1112.9	1118.8	1122.1	1118.3
22.5°	1098.3	1089.7	1101.0	1103.2	1098.3
25°	1068.1	1070.8	1075.6	1081.0	1087.0
27.5°	1044.9	1046.5	1054.0	1053.0	1058.4
30°	1020.6	1021.6	1031.9	1036.8	1028.1
32.5°	986.0	997.9	1006.5	1004.4	1003.8
35°	955.2	960.1	972.5	975.2	972.5
37.5°	924.4	927.7	940.1	939.6	941.2
40°	888.3	894.7	909.3	904.5	912.6
42.5°	851.5	859.1	865.0	870.4	871.0
45°	813.7	818.1	825.6	830.5	842.4
47.5°	771.1	781.4	788.9	792.7	785.1
50°	724.1	741.4	747.9	751.7	749.5
52.5°	680.9	699.3	704.7	704.7	706.3
55°	639.9	650.1	659.3	657.2	662.0
57.5°	593.4	604.8	610.7	613.4	615.6
60°	544.8	560.5	563.7	562.7	562.1
62.5°	494.6	508.7	515.1	510.8	514.6
65°	447.6	453.6	462.8	462.8	465.5
67.5°	398.0	404.4	410.4	409.3	405.0
70°	340.2	349.4	356.9	349.9	345.0
72.5°	289.4	297.0	298.1	292.7	293.2
75°	233.3	242.5	244.1	236.0	238.1
77.5°	180.4	190.1	191.7	183.1	183.1
80°	132.3	138.8	136.1	132.3	132.3
82.5°	85.9	90.2	87.5	89.6	87.5
85°	45.4	46.4	48.1	48.6	50.2
87.5°	15.1	16.7	16.2	14.6	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)