

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: P709605

Luminaire Tested: **14ARS-L3C3-UNV-5000K-MID**

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709605
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-5000K-MID
Description: ARS 1x4 Selectable Standard 80CRI Round, SET AT 5000K AND, MID LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

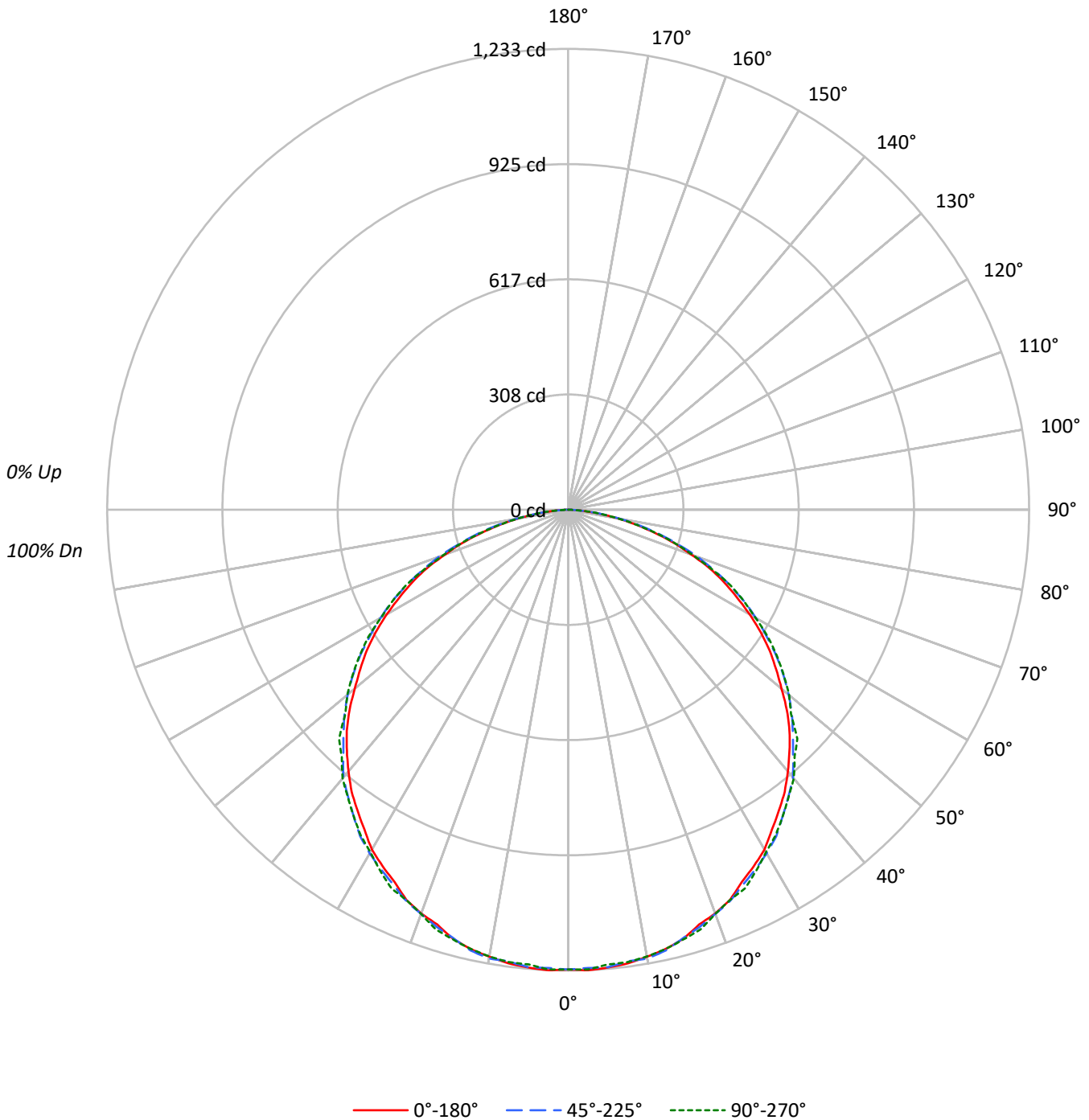
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3632.0 lumens
Efficiency: N/A
Efficacy: 135.0 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): 26.9
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°	4025	4025	4025
5°	4039	4035	4011
10°	4035	4052	4033
15°	4028	4020	4033
20°	4003	4009	4007
25°	3968	3996	4038
30°	3968	4012	3997
35°	3926	3997	3997
40°	3904	3996	4011
45°	3875	3931	4011
50°	3793	3917	3925
55°	3756	3870	3886
60°	3669	3796	3785
65°	3566	3686	3708
70°	3349	3513	3396
75°	3034	3175	3097
80°	2565	2638	2565
85°	1753	1855	1941



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.5	3.2
10°-20°	335.7	9.2
20°-30°	510.6	14.1
30°-40°	623.6	17.2
40°-50°	655.3	18.0
50°-60°	602.0	16.6
60°-70°	465.9	12.8
70°-80°	261.3	7.2
80°-90°	61.3	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°	962.7	26.5
0°-40°	1586.3	43.7
0°-60°	2843.6	78.3
0°-90°	3632.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3632.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1230	1230	1230	1230	1230	
5°	1230	1216	1228	1226	1221	117
15°	1189	1190	1187	1193	1191	335
25°	1099	1102	1107	1112	1118	508
35°	983	988	1001	1003	1001	616
45°	837	842	850	854	867	644
55°	658	669	678	676	681	587
65°	461	467	476	476	479	454
75°	240	250	251	243	245	255
85°	47	48	49	50	52	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1230.1	1230.1	1230.1	1230.1	1230.1
2.5°	1233.4	1227.8	1227.3	1229.5	1231.2
5°	1229.5	1216.2	1228.4	1225.6	1221.2
7.5°	1224.5	1205.6	1218.9	1220.6	1220.6
10°	1214.5	1206.2	1219.5	1216.2	1213.9
12.5°	1203.9	1203.4	1207.8	1206.2	1203.9
15°	1188.9	1189.5	1186.7	1192.8	1190.6
17.5°	1163.9	1172.3	1170.1	1177.3	1177.3
20°	1149.5	1145.1	1151.2	1154.5	1150.6
22.5°	1130.1	1121.2	1132.8	1135.1	1130.1
25°	1098.9	1101.7	1106.7	1112.3	1118.4
27.5°	1075.1	1076.7	1084.5	1083.4	1088.9
30°	1050.1	1051.2	1061.7	1066.7	1057.8
32.5°	1014.5	1026.7	1035.6	1033.4	1032.8
35°	982.8	987.8	1000.6	1003.4	1000.6
37.5°	951.2	954.5	967.3	966.7	968.4
40°	913.9	920.6	935.6	930.6	938.9
42.5°	876.2	883.9	890.0	895.6	896.2
45°	837.3	841.7	849.5	854.5	866.7
47.5°	793.4	803.9	811.7	815.6	807.8
50°	745.0	762.8	769.5	773.4	771.1
52.5°	700.6	719.5	725.0	725.0	726.7
55°	658.4	668.9	678.4	676.1	681.1
57.5°	610.6	622.3	628.4	631.1	633.4
60°	560.6	576.7	580.0	578.9	578.4
62.5°	508.9	523.4	530.0	525.6	529.5
65°	460.6	466.7	476.1	476.1	478.9
67.5°	409.5	416.1	422.2	421.1	416.7
70°	350.0	359.5	367.2	360.0	355.0
72.5°	297.8	305.6	306.7	301.1	301.7
75°	240.0	249.5	251.1	242.8	245.0
77.5°	185.6	195.6	197.2	188.3	188.3
80°	136.1	142.8	140.0	136.1	136.1
82.5°	88.3	92.8	90.0	92.2	90.0
85°	46.7	47.8	49.4	50.0	51.7
87.5°	15.6	17.2	16.7	15.0	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)