

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: P709602

Luminaire Tested: **14ARS-L3C3-UNV-4000K-MID**

Issue Date: 9/22/2023



Test Information

Test Method: LM-79-08
Report Number: P709602
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-4000K-MID
Description: ARS 1x4 Selectable Standard 80CRI Round, SET AT 4000K AND, MID LUMEN OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

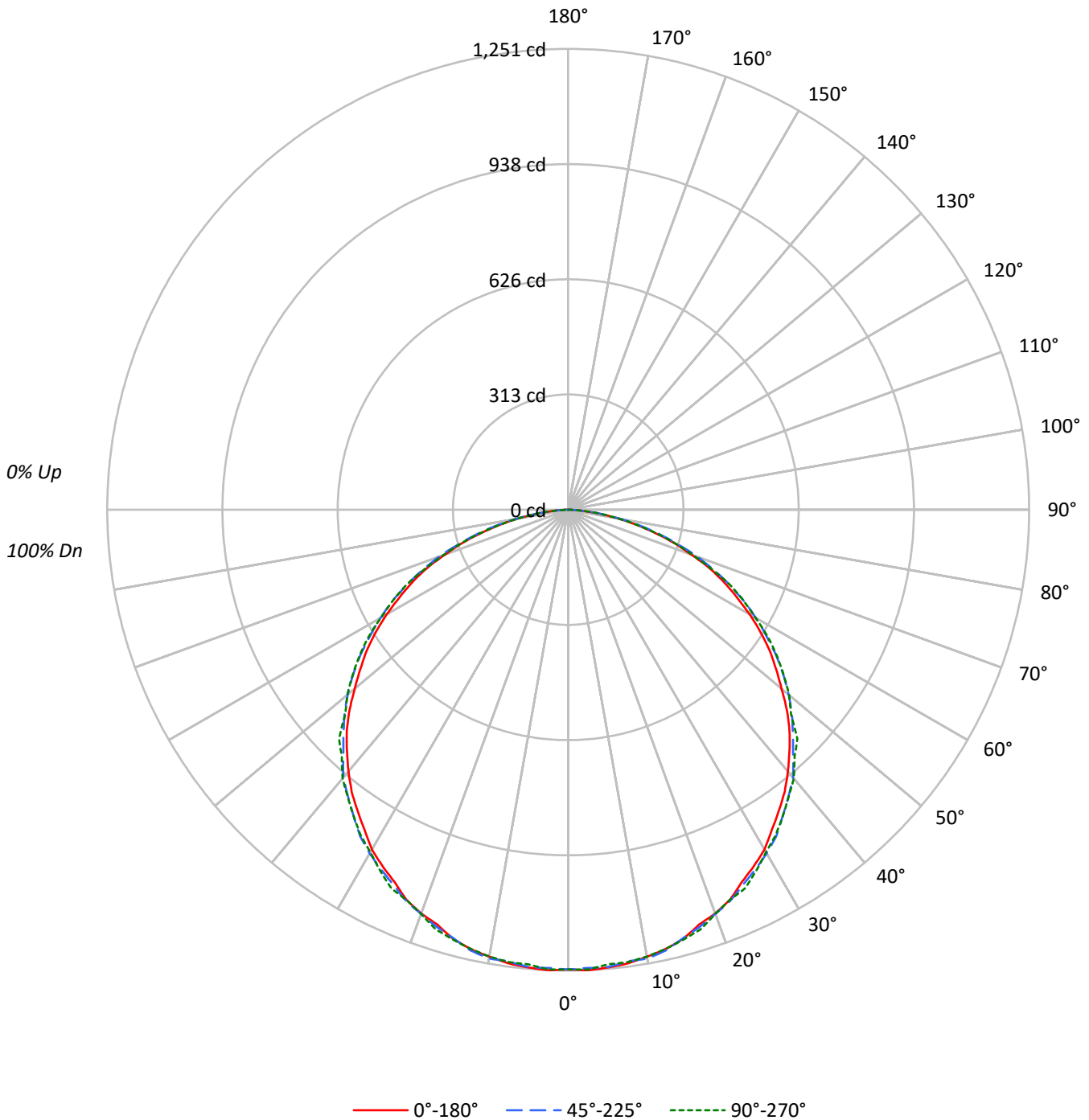
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3685.0 lumens
Efficiency: N/A
Efficacy: 142.3 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): 25.9
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

TEST NUMBER: P709602
CATALOG NUMBER: 14ARS-L3C3-UNV-4000K-MID

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°	4084	4084	4084
5°	4097	4094	4070
10°	4094	4111	4093
15°	4087	4079	4092
20°	4061	4067	4065
25°	4026	4054	4097
30°	4026	4070	4055
35°	3983	4055	4055
40°	3961	4055	4069
45°	3931	3989	4070
50°	3848	3974	3983
55°	3811	3927	3943
60°	3722	3851	3840
65°	3618	3740	3762
70°	3397	3565	3446
75°	3079	3221	3143
80°	2602	2676	2602
85°	1776	1885	1967



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.2	3.2
10°-20°	340.6	9.2
20°-30°	518.0	14.1
30°-40°	632.7	17.2
40°-50°	664.9	18.0
50°-60°	610.8	16.6
60°-70°	472.7	12.8
70°-80°	265.1	7.2
80°-90°	62.2	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°	976.7	26.5
0°-40°	1609.4	43.7
0°-60°	2885.1	78.3
0°-90°	3685.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3685.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1248	1248	1248	1248	1248	
5°	1247	1234	1246	1244	1239	119
15°	1206	1207	1204	1210	1208	340
25°	1115	1118	1123	1128	1135	516
35°	997	1002	1015	1018	1015	625
45°	850	854	862	867	879	654
55°	668	679	688	686	691	595
65°	467	474	483	483	486	460
75°	244	253	255	246	249	258
85°	47	48	50	51	52	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1248.0	1248.0	1248.0	1248.0	1248.0
2.5°	1251.4	1245.8	1245.2	1247.4	1249.1
5°	1247.4	1233.9	1246.3	1243.5	1239.0
7.5°	1242.4	1223.2	1236.7	1238.4	1238.4
10°	1232.2	1223.8	1237.3	1233.9	1231.7
12.5°	1221.5	1221.0	1225.5	1223.8	1221.5
15°	1206.3	1206.9	1204.0	1210.2	1208.0
17.5°	1180.9	1189.4	1187.1	1194.5	1194.5
20°	1166.3	1161.8	1168.0	1171.3	1167.4
22.5°	1146.5	1137.5	1149.4	1151.6	1146.5
25°	1115.0	1117.8	1122.9	1128.5	1134.7
27.5°	1090.7	1092.4	1100.3	1099.2	1104.8
30°	1065.4	1066.5	1077.2	1082.3	1073.3
32.5°	1029.3	1041.7	1050.7	1048.5	1047.9
35°	997.2	1002.2	1015.2	1018.0	1015.2
37.5°	965.0	968.4	981.4	980.8	982.5
40°	927.3	934.0	949.3	944.2	952.6
42.5°	888.9	896.8	903.0	908.7	909.2
45°	849.5	854.0	861.9	867.0	879.4
47.5°	804.9	815.7	823.6	827.5	819.6
50°	755.9	773.9	780.7	784.7	782.4
52.5°	710.8	730.0	735.6	735.6	737.3
55°	668.0	678.7	688.3	686.0	691.1
57.5°	619.5	631.3	637.5	640.4	642.6
60°	568.8	585.1	588.5	587.4	586.8
62.5°	516.3	531.0	537.8	533.3	537.2
65°	467.3	473.5	483.1	483.1	485.9
67.5°	415.4	422.2	428.4	427.3	422.8
70°	355.1	364.7	372.6	365.3	360.2
72.5°	302.1	310.0	311.2	305.5	306.1
75°	243.5	253.1	254.8	246.3	248.6
77.5°	188.3	198.4	200.1	191.1	191.1
80°	138.1	144.9	142.0	138.1	138.1
82.5°	89.6	94.1	91.3	93.6	91.3
85°	47.3	48.5	50.2	50.7	52.4
87.5°	15.8	17.5	16.9	15.2	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)