



Draft Summary of Round 11 Compact Fluorescent Results by Dr. Larry Knab

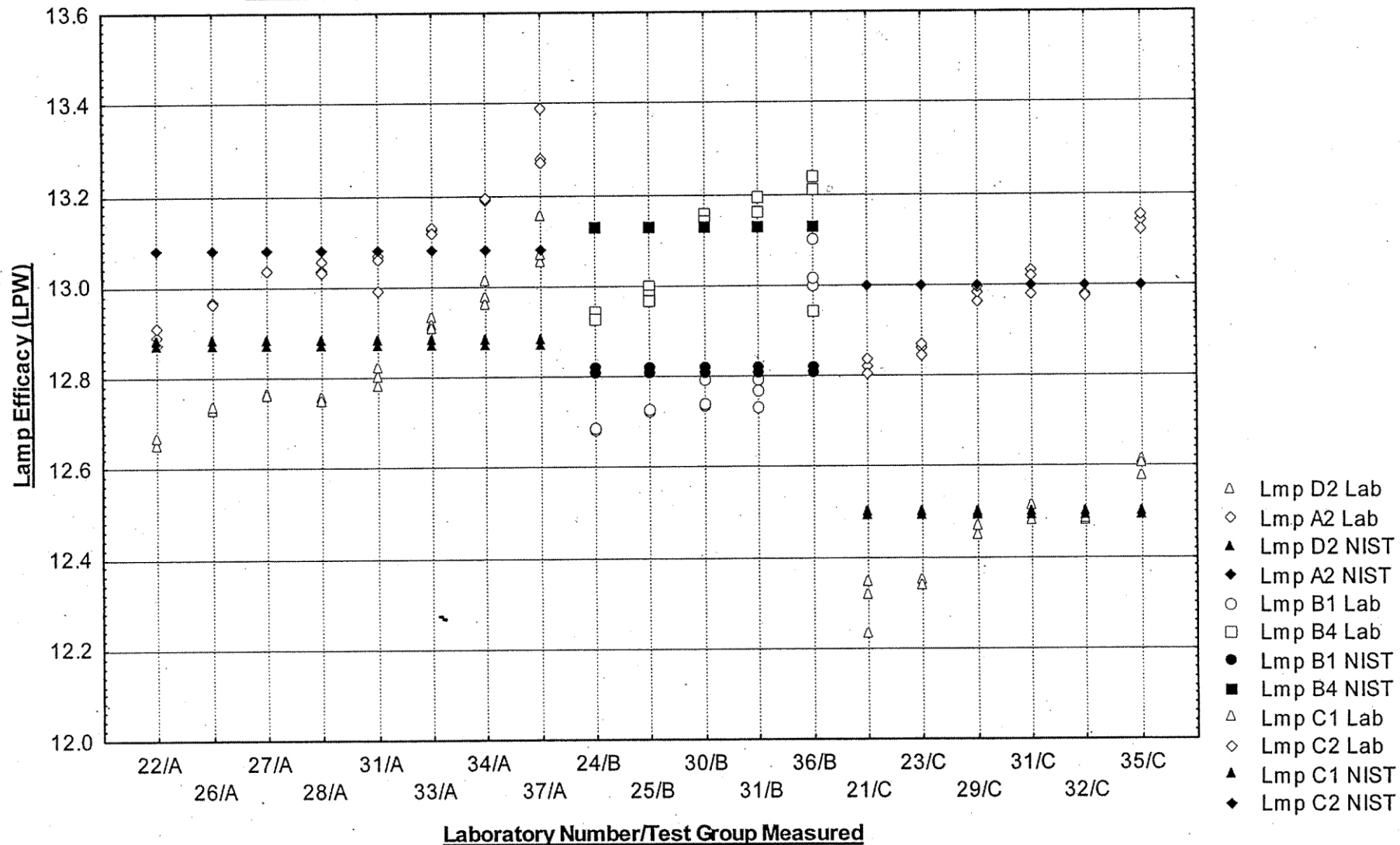
Credit: Ken Rattray
Proficiency Testing Contractor

NIST/NVLAP
May 9, 2007

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Figure 6

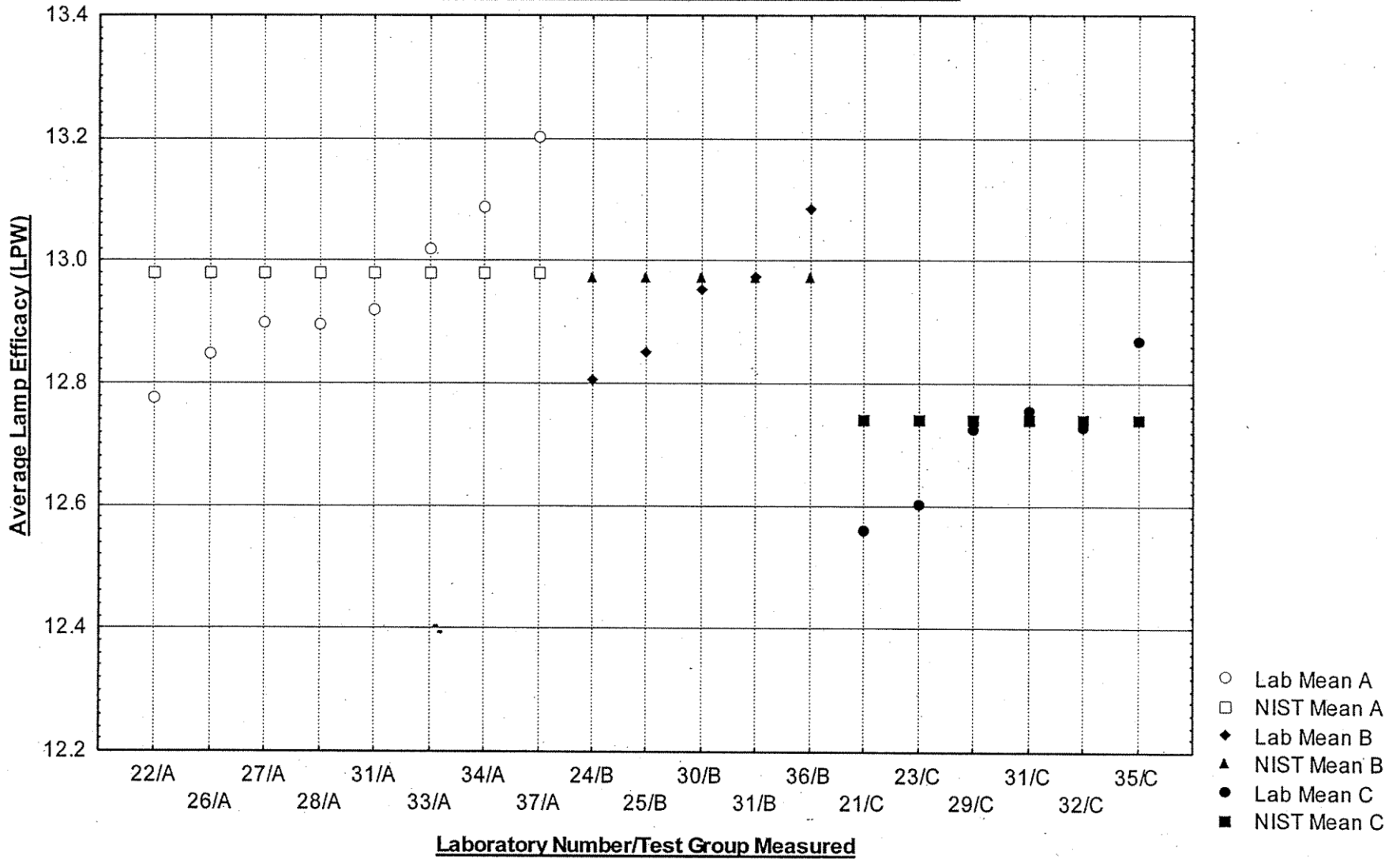
Individual Lamp Efficacy Values for Incandescent Lamps measured by Both NIST and the Proficiency Test Laboratories During EEL Round #11



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Figure 7

Average Lamp Efficacy Values for Incandescent Lamps Measured by
Both NIST and the Proficiency Test Laboratories During EEL Round #11



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Figure 8

Percent Deviation from NIST Efficacy Values for Proficiency

Test Laboratories Measuring the Same Lamps as NIST

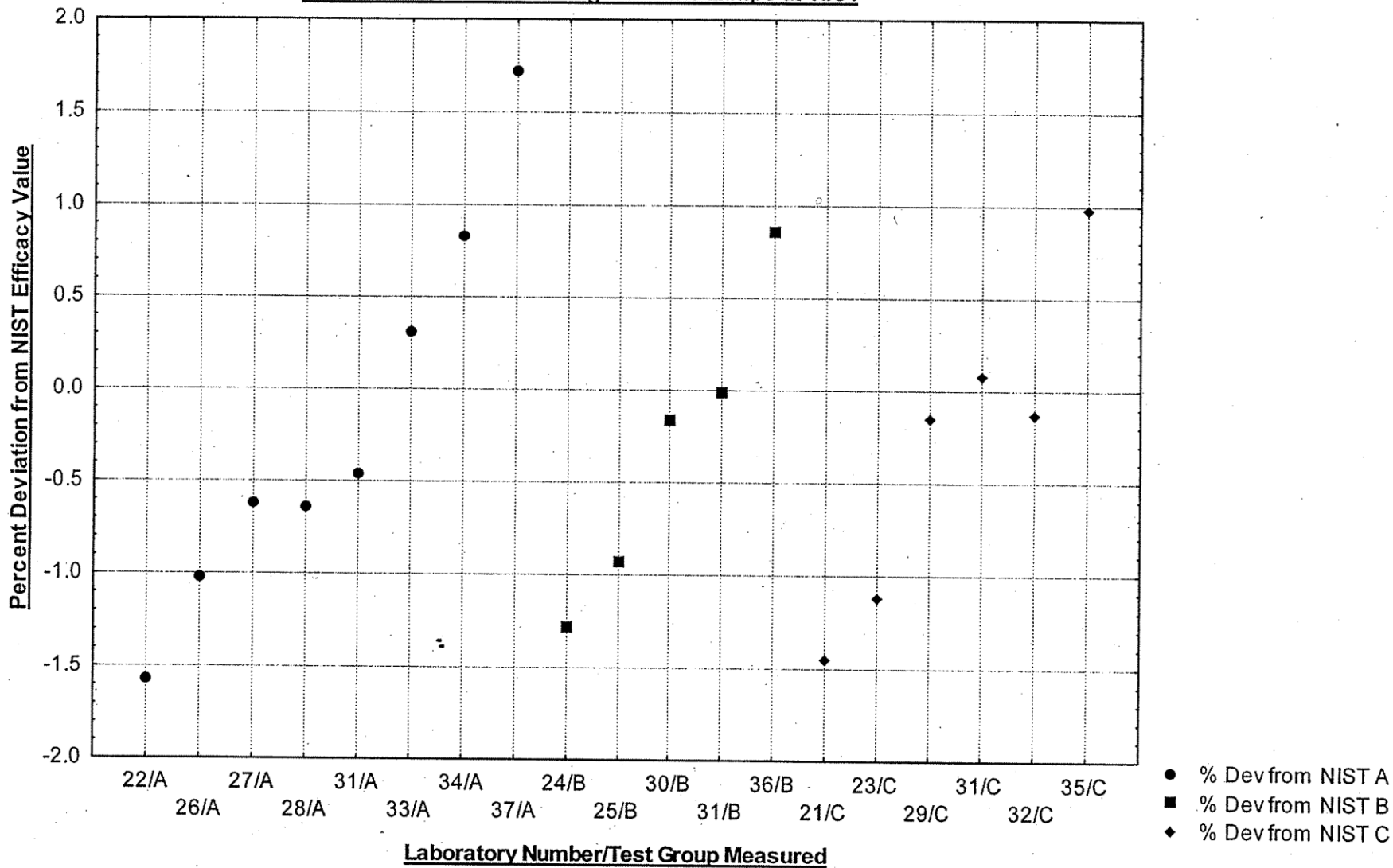


Figure 1

Compact Fluorescent Lamp Efficacy as a Function of
Total Operating Hours During EEL Rounds #8, 9 and 10

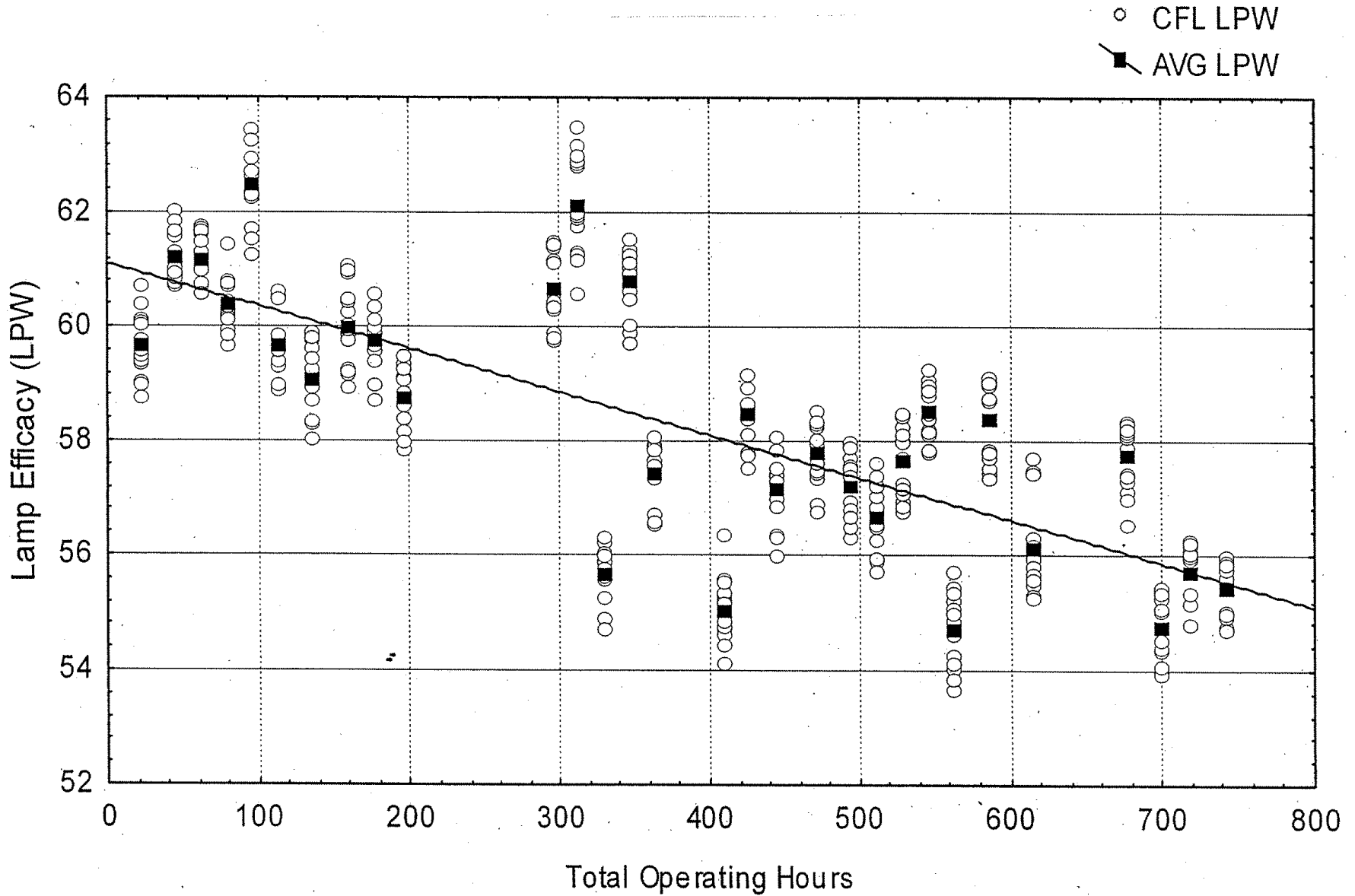
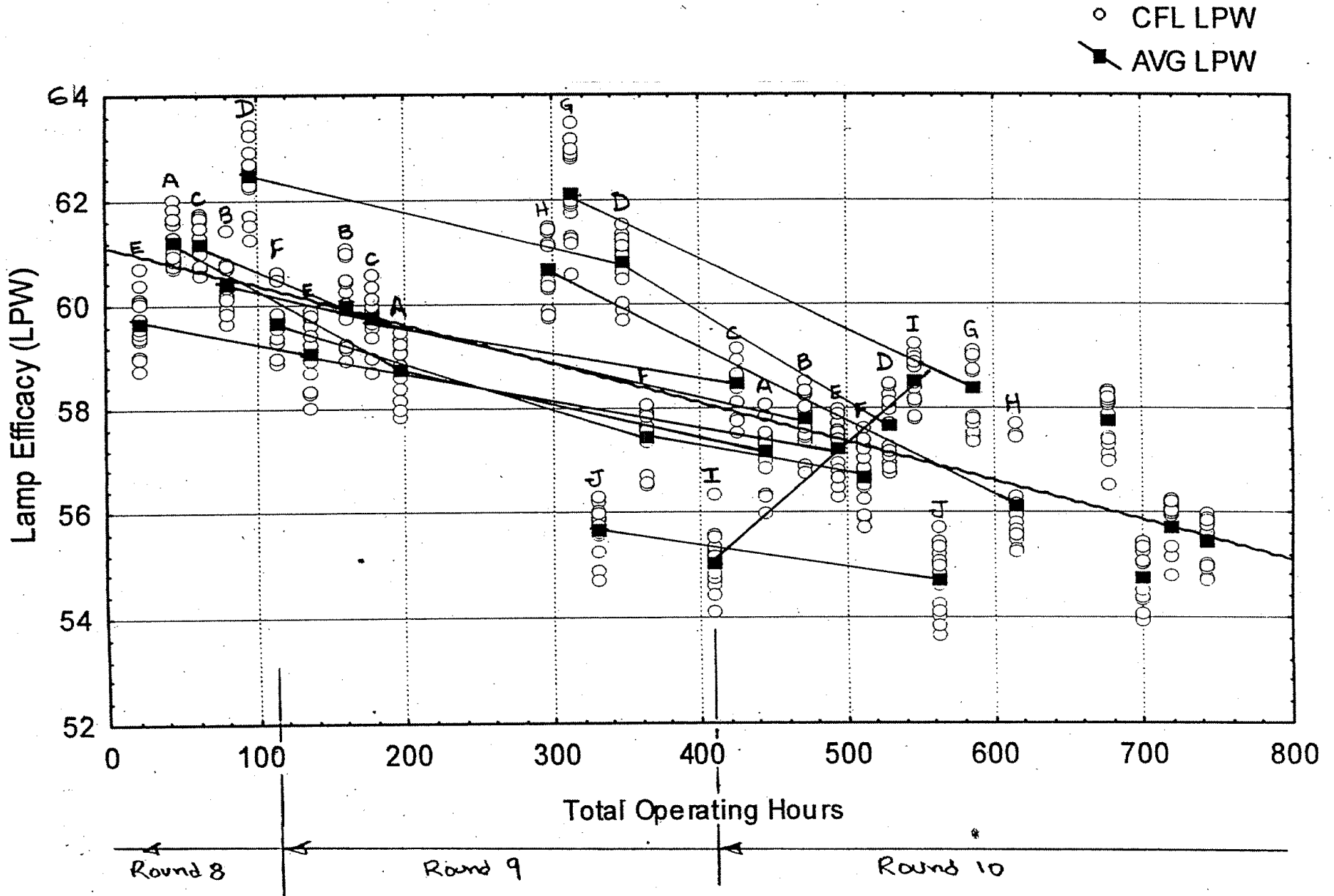


Figure 1

Compact Fluorescent Lamp Efficacy as a Function of
Total Operating Hours During EEL Rounds #8, 9 and 10



EFFICACY DEPRECIATION CORRECTION

- SLOPE OF BEST FIT LINE OF EFFICACY vs. TOTAL OPERATING HRS
- TOTAL OPERATING HRS x SLOPE = EFFICACY CORRECTION FACTOR
- REPORTED MEAN EFFICACY CORRECTED BY INCREASING ITS MEAN EFFICACY TO WHAT IT WOULD HAVE BEEN IF NO DEPRECIATION HAD OCCURRED

Figure 14
 Round 9 - Compact Fluorescent Lamp Efficacy
 [R]eported Data Grand Mean = 58.90, "[C]orrected" Grand Mean = 61.36

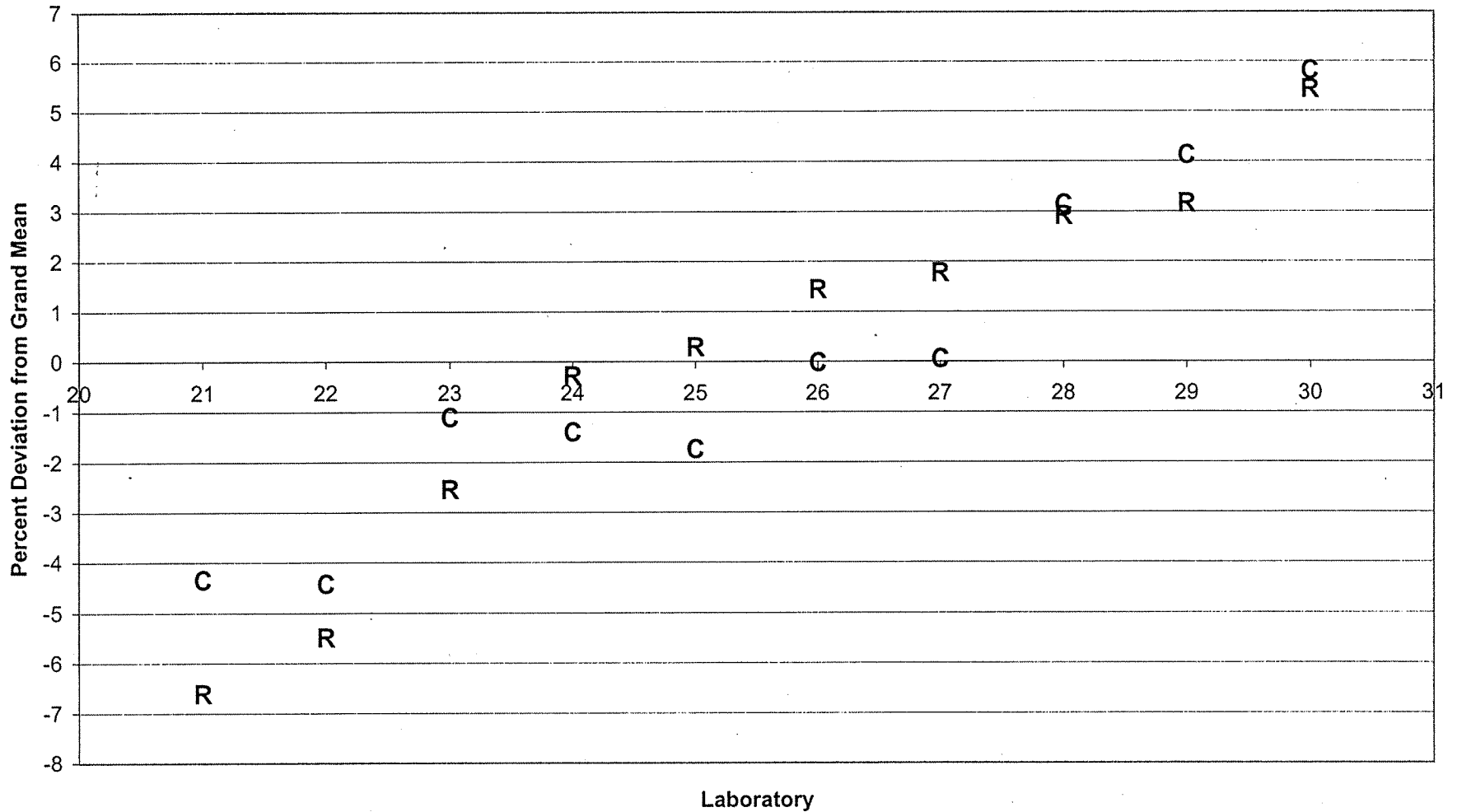


Figure 6

Round 10 - Compact Fluorescent Lamp Efficacy
[R]eported Data Grand Mean = 56.86, "[C]orrected" Grand Mean = 61.16

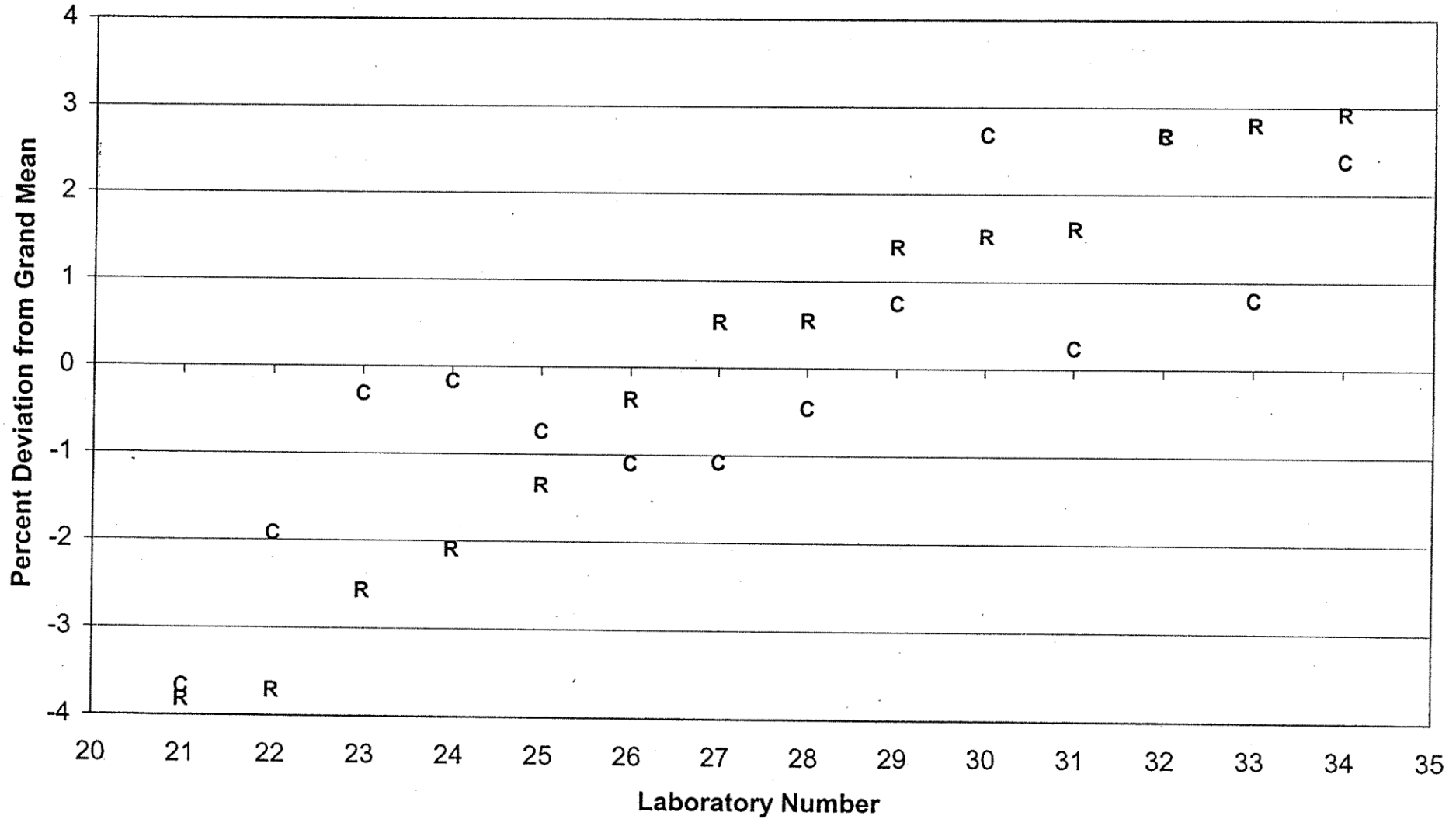


Figure 1

Reported Compact Fluorescent Lamp Efficacy - Test Group A
EEL Program Proficiency Test - Round #11

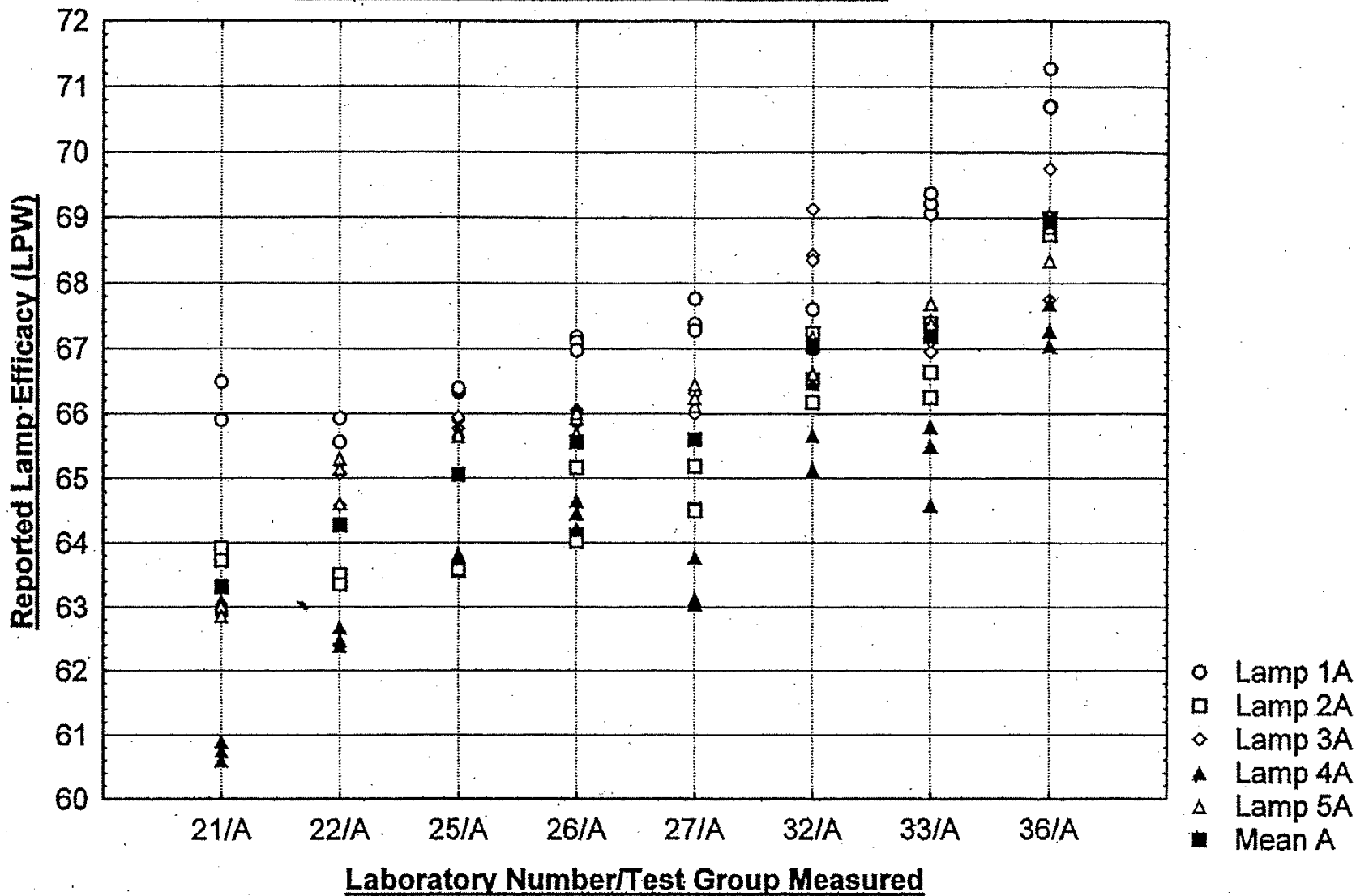


Figure 2

Percent Deviation of the Laboratory Mean from the Grand mean for
Reported and Corrected Efficacy of Compact Fluorescent Lamps

Test Group A - EEL Round #11

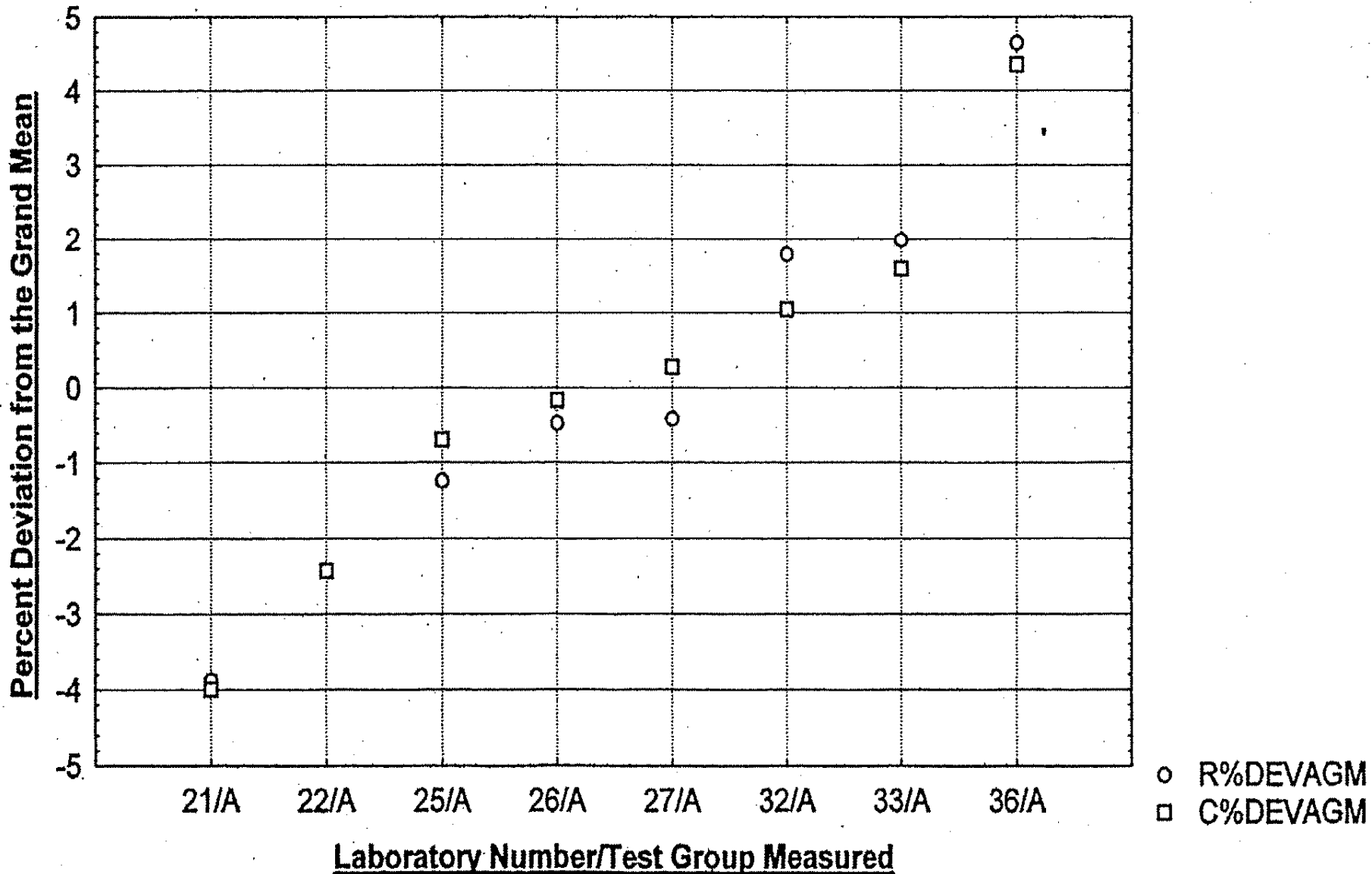


Figure 3

Reported Compact Fluorescent Lamp Efficacy - Test Group B
EEL Program Proficiency Test - Round #11

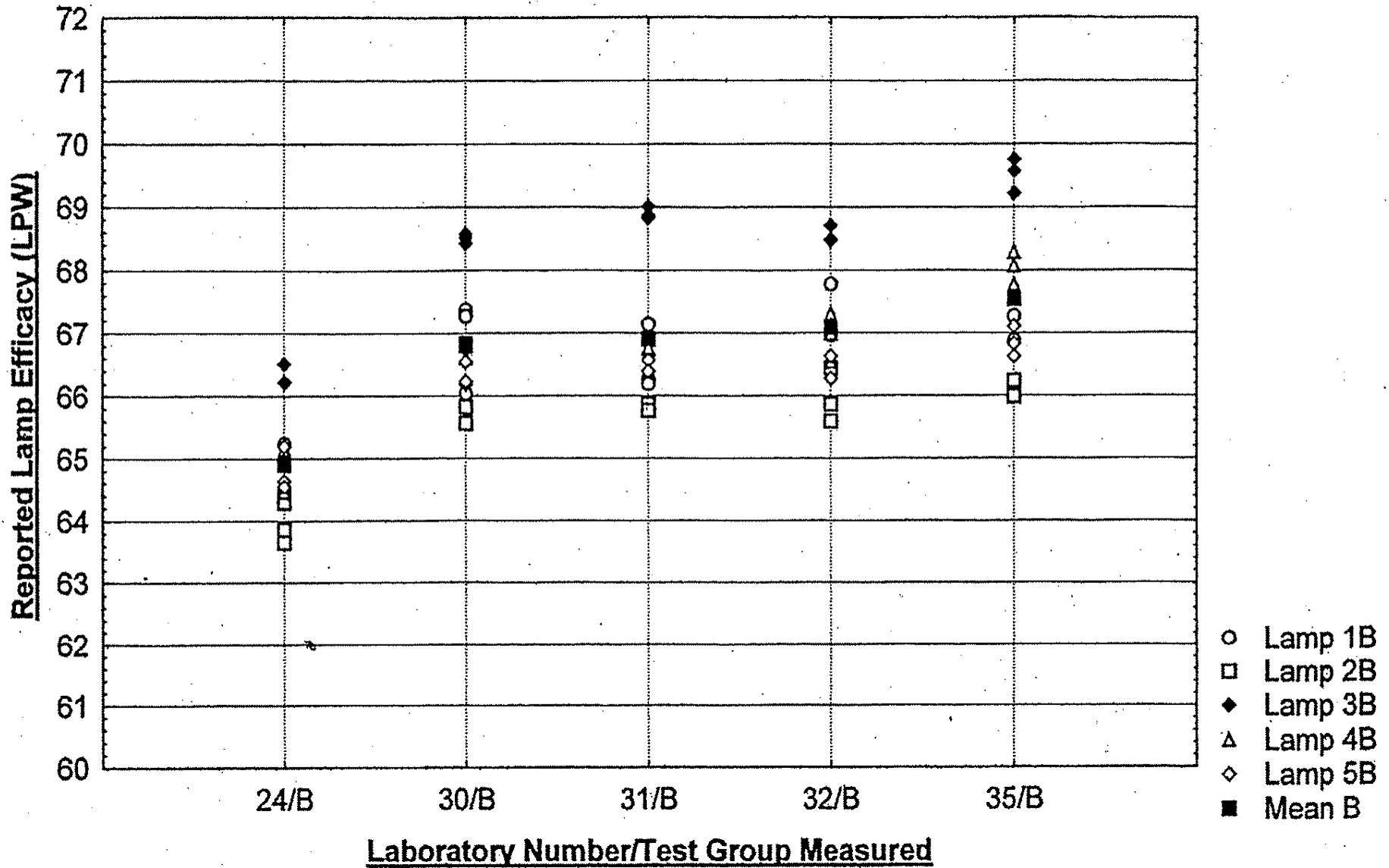


Figure 4

Percent Deviation of the Laboratory Mean from the Grand Mean for
Reported and Corrected Efficacy of Compact Fluorescent Lamps

Test Group B - EEL Round #11

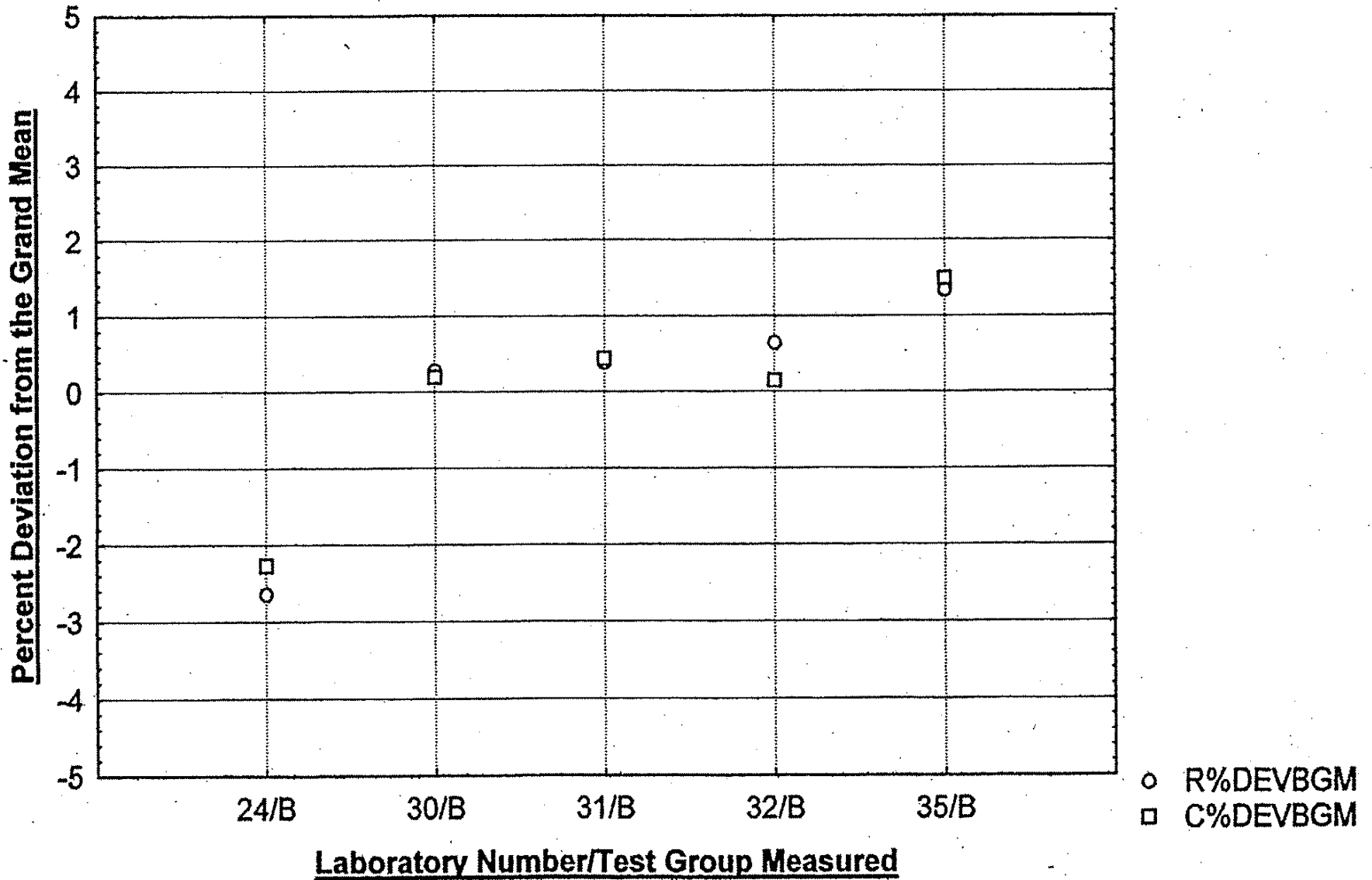


Figure 5

Reported Compact Fluorescent Lamp Efficacy - Test Group C

EEL Program Proficiency Test - Round #11

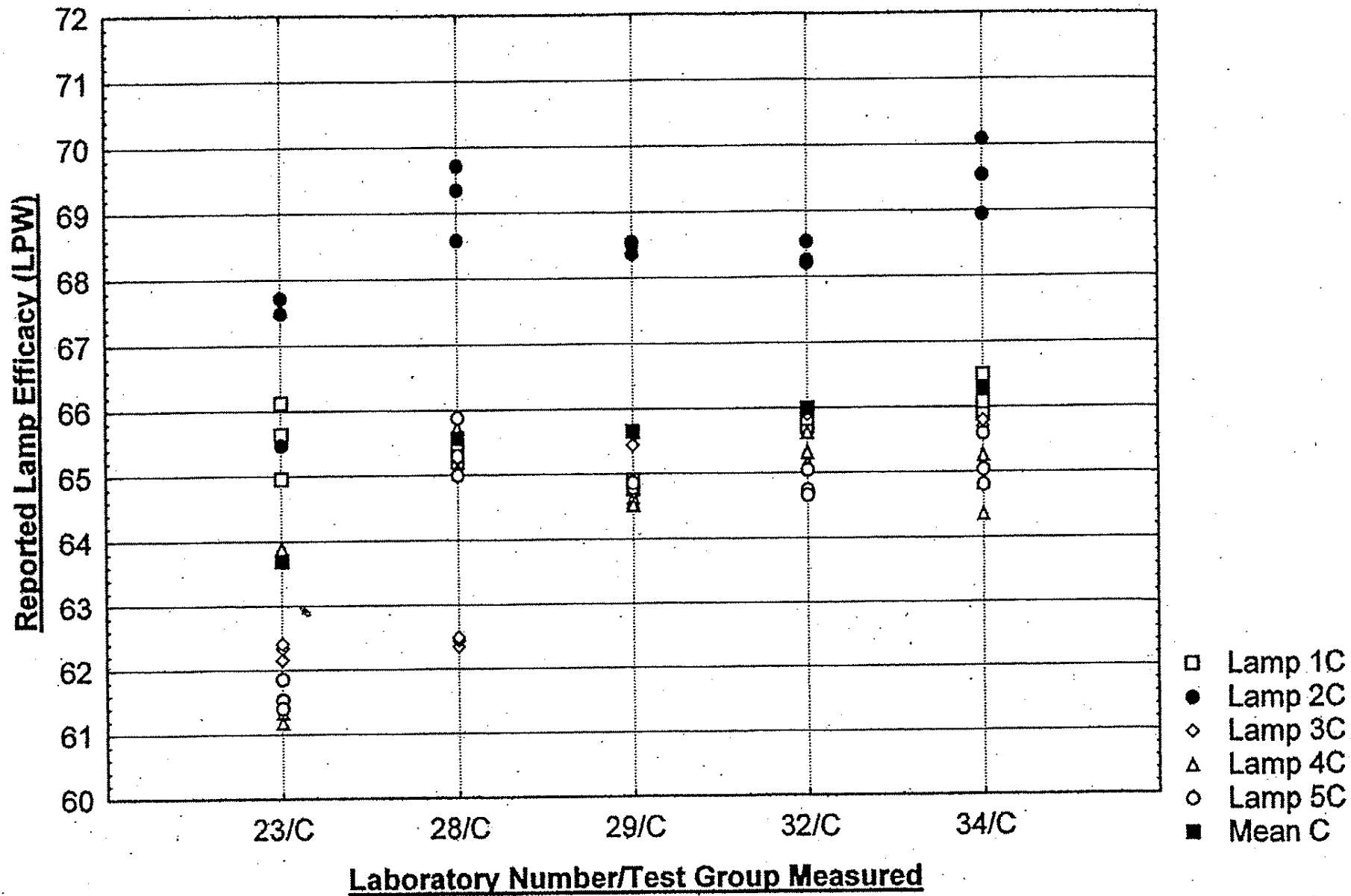
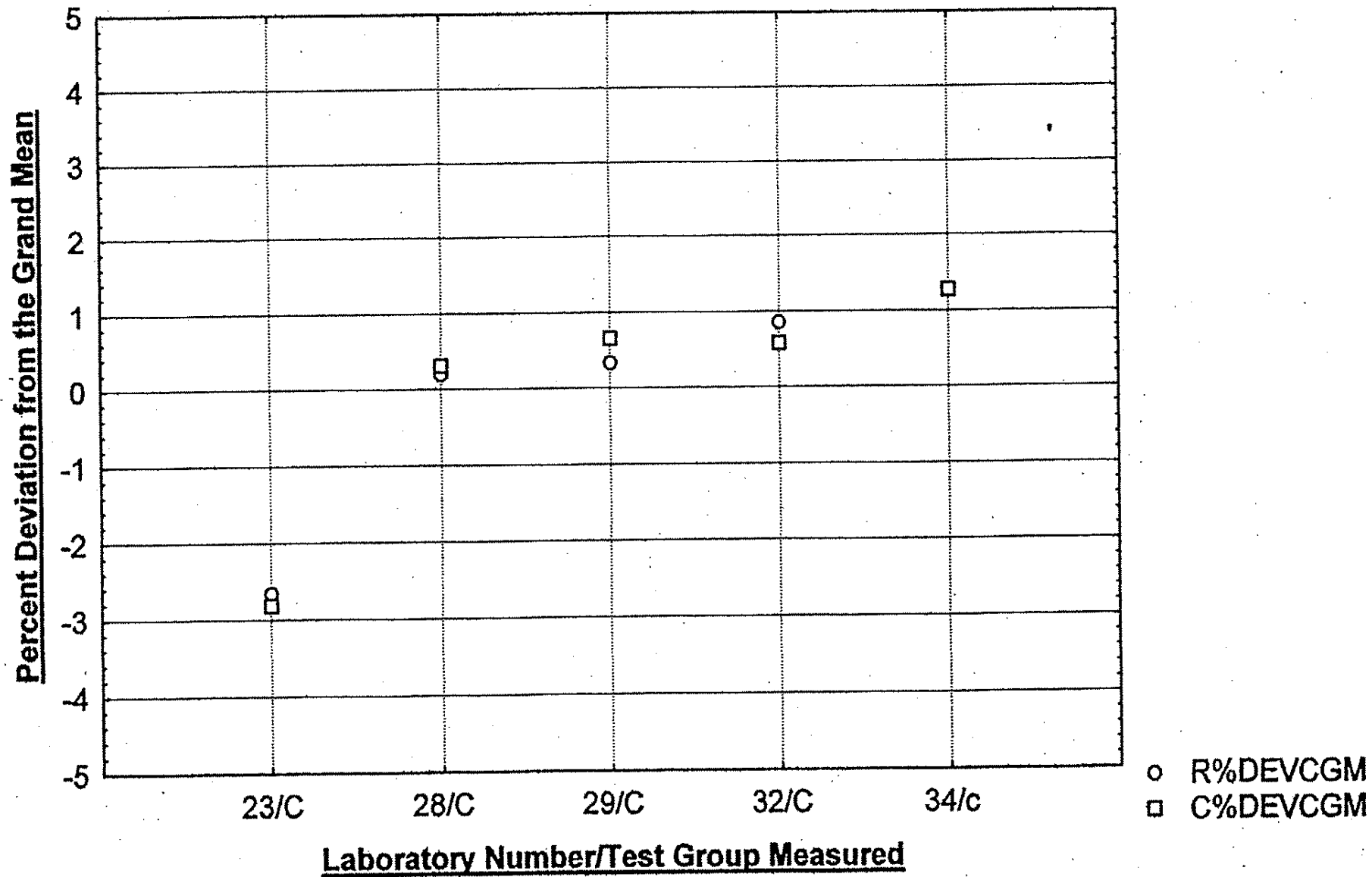


Figure 6

Percent Deviation of the Laboratory Mean from the Grand Mean for
Reported and Corrected Efficacy of Compact Fluorescent Lamps

Test Group C - EEL Round #11



ALIGNED EFFICACY

- ALIGNED LUMENS FOR EACH GRP A LAB = REPORTED LUMENS FOR EACH GRP A LAB times RATIO
- RATIO = MEAN OF 15 GRP B LUMEN VALUES AS MEASURED BY CENTRL LAB DIVIDED MEAN OF 15 GRP A LUMEN VALUES AS MEASURED BY CENTRL LAB

Figure 7

Reported Compact Fluorescent Lamp Efficacy - Test Groups A, B and C

EEL Program Proficiency Test - Round #11

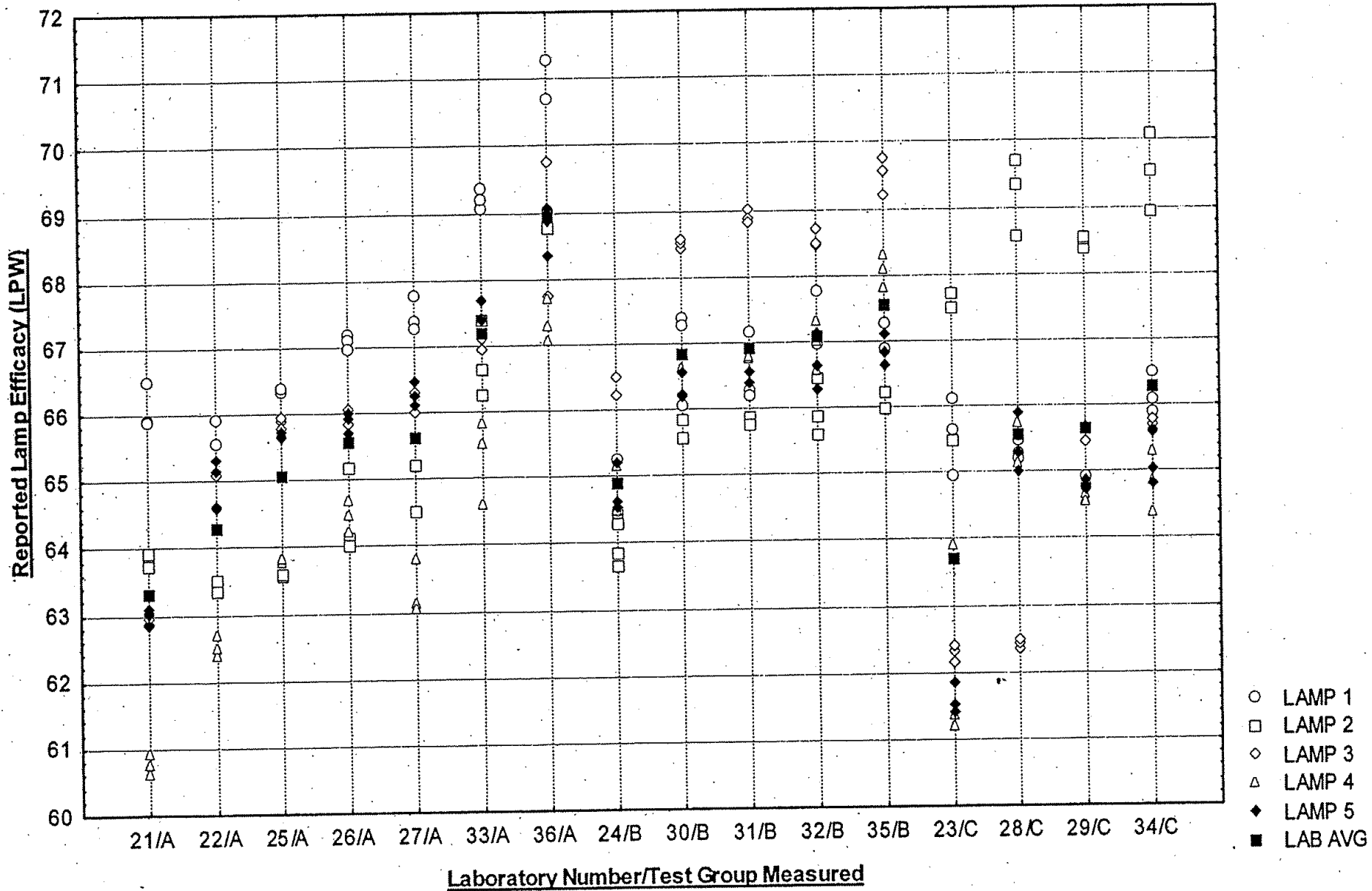


Figure 8, EEL Proficiency Testing - Round 11
Compact Fluorescent Lamp Efficacy Results for Test Groups A, B, and C
(a) Aligned Lab Mean and (b) Aligned then Corrected Lab Mean

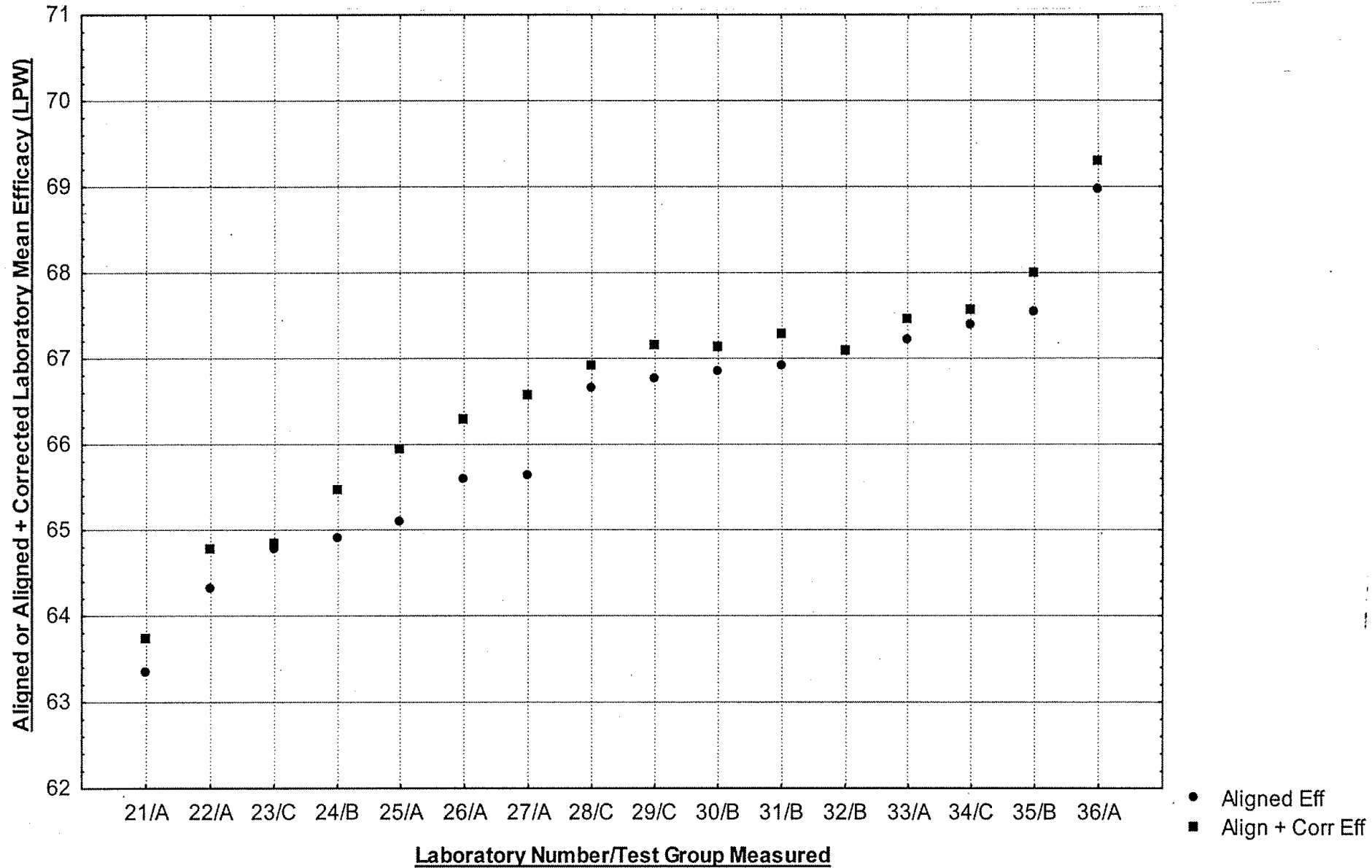
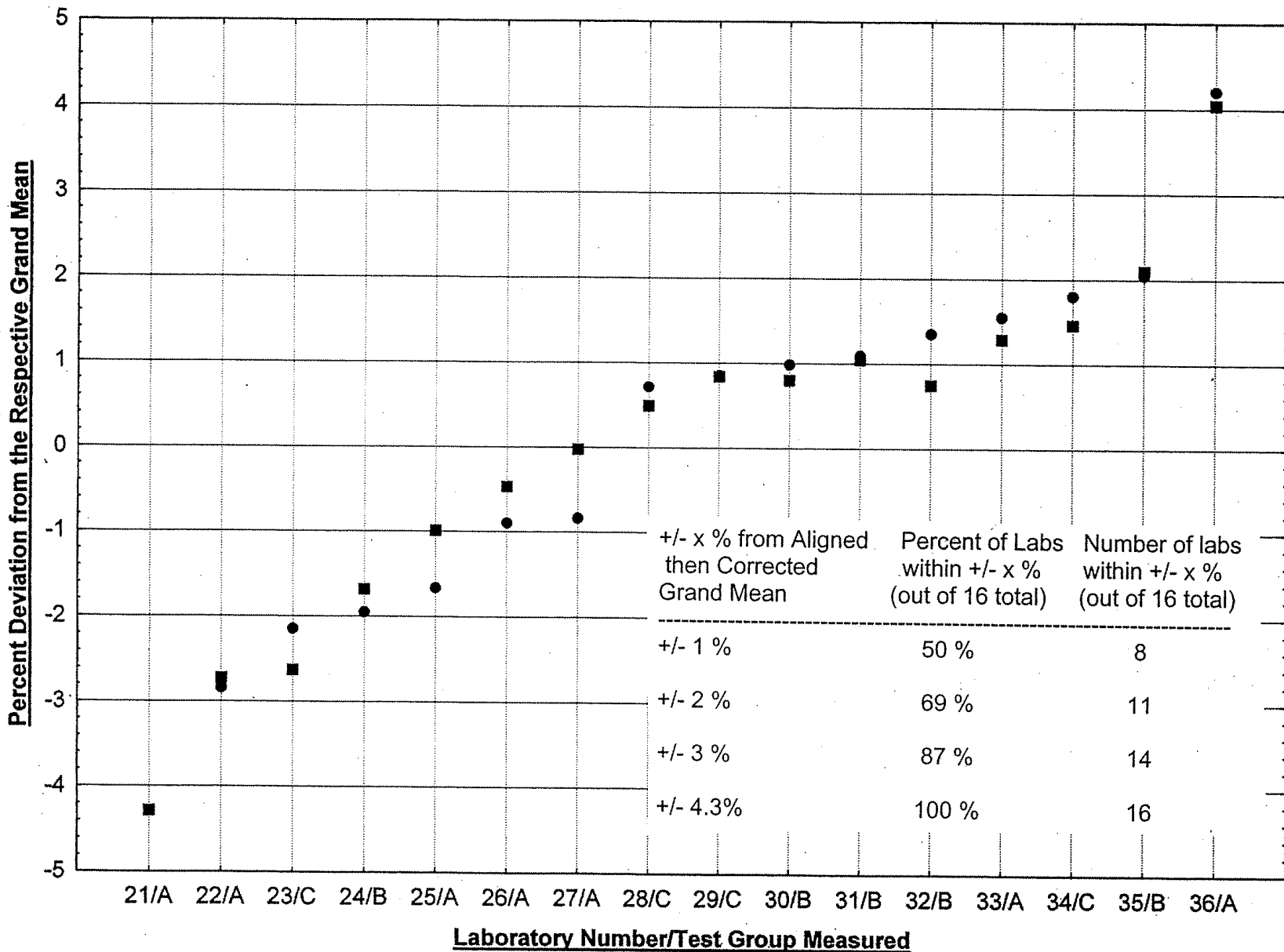


Figure 9, EEL Proficiency Testing - Round 11

Compact Fluorescent Lamp Efficacy Results for Test Groups A, B, and C
 (a) Percent Deviation of Aligned Lab Mean from Aligned Grand Mean and (b)
 Percent Deviation of Aligned then Corrected Lab Mean from Aligned then
 Corrected Grand Mean



● A%DEVGM
 ■ A+C%DEVGM

