1. PURPOSE OF PROPOSAL:
   To change the lux values listed in the Rules under section 6.9.f, to reflect the correct conversion from ft-c to lux.

2. PRESENT RULE:
   6.9 Explanation of Table 6A
   ....

   f. Light. — Where light is prescribed in Table 6A, it should be provided by a cool white fluorescent or LED (Light-Emitting Diode) source. The illuminance for dormant seed should be 75–125 ft-c (750–1250 lux). The seeds should be illuminated for at least eight hours in every 24. Where the seeds are germinated at alternating temperatures they should be illuminated during the high temperature period. Except for ryegrass fluorescence tests in rolled filter paper, seeds for which light is prescribed should be germinated on top of the substratum. Illuminance for non-dormant seed and during seedling development (to enable the essential structures to be evaluated with greater certainty) may be as low as 25 ft-c. For tree and shrub seeds (as categorized by AOSA Rules for Testing Seeds Vol. 3 Uniform Classification of Weed and Crop Seeds, see section 4), light shall be provided as described above with the following provisions: (a) illuminance for non-dormant seed and during seedling development shall remain at 75–125 ft-c; (b) Up to 16 hours of light may be beneficial in some test conditions and for some lots, as noted in Table 6A, but continuous light should not be used unless it is known that this does not inhibit germination of the species.

3. PROPOSED RULE:
   f. Light. — Where light is prescribed in Table 6A, it should be provided by a cool white fluorescent or LED (Light-Emitting Diode) source. The illuminance for dormant seed should be 75–125 ft-c (807-1346 lux). The seeds should be illuminated for at least eight hours in every 24. Where the seeds are germinated at alternating temperatures they should be illuminated during the high temperature period. Except for ryegrass fluorescence tests in rolled filter paper, seeds for which light is prescribed should be germinated on top of the substratum. Illuminance for non-dormant seed and during seedling development (to enable the essential structures to be evaluated with greater certainty) may be as low as 25 ft-c. For tree and shrub seeds (as categorized by AOSA Rules for Testing Seeds Vol. 3 Uniform Classification of Weed and Crop Seeds, see section 4), light shall be provided as described above with the following provisions: (a) illuminance for non-dormant seed and during seedling development shall remain at 75–125 ft-c; (b) Up to 16 hours of light may be beneficial in some test conditions and for some lots, as noted in Table 6A, but continuous light should not be used unless it is known that this does not inhibit germination of the species.

4. HARMONIZATION AND IMPACT STATEMENT:
   ISTA Rules – this proposal would not harmonize with the adjusted lux values with similar corrections currently proposed for ISTA Rules.
FSA – the proposed lux values will deviate from those currently listed under the FSA.

Canadian M&P – The Canadian M&P only list values in lux, and do not provide the ft-c equivalent.

5. SUPPORTING EVIDENCE:

The correct conversion factor from ft-c to lux is: 1 ft-c = 10.764 lux

6. SUBMITTED BY:

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7. DATE SUBMITTED:
October 15, 2018