

# Program Notice

FGIS-PN-22-05

May 26, 2022

**APPROVAL OF NEW LIGHT EMITTING DIODE (LED) LAMPS**

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**1. PURPOSE**

This program notice announces that the Federal Grain Inspection Service (FGIS) has approved the NorthLux™ 95 CRI T8 LED Tube for Art & Studio LED lamp for official use in inspection of all grains and commodities listed under the United States Grain Standards Act (USGSA) and the Agricultural Marketing Act (AMA) of 1946.

**2. BACKGROUND**

The true color of a material or substance is best determined under natural daylight conditions, such as north-sky light on a semi-overcast day, or under artificial light in a room with muted tones. Since it is impossible to consistently maintain such lighting in a laboratory setting, FGIS requires artificial illumination that adequately simulates north-sky daylight in all grading laboratories to support grading accuracy.

**3. LAMP SPECIFICATIONS AND ADDITIONAL INSTRUCTIONS**

Approved Lamp information:

NorthLux™ 95 CRI T8 LED Tube for Art & Studio  
Product Number: 4024.65  
Product Size: T8  
Color Temperature: 6500°K  
Color Rendering Index: 95

Supplier: Waveform Lighting  
4400 NE 77th Avenue Suite 275  
Vancouver, Washington 98662  
<https://www.waveformlighting.com/>

Additional LED lamp specifications

Table 1. LED Emitter Specifications

Lamp Radiation	Specifications
1800 Lumens	Color Rendering Index > 95 Color Temperature 6500 °K Rated Average Life > 50,000 Hours

Additional Instructions:

- a. Fixtures over grading surfaces must contain either all approved fluorescent lamps or all approved LED lamps. A mixture of the technologies within a lighting fixture or bank of lighting is not allowed.

- b. The height of fixtures above the grading surface may need adjustment to obtain the required light intensity reading of between 150 and 200 foot-candles (optimum 180 foot-candles). When necessary, this adjustment must be made and verified to result in an appropriate light intensity for grading before work begins.
- c. For an updated list of approved lighting for official use in grain inspections, review the List of Approved Equipment located at <https://www.ams.usda.gov/services/fgis/standardization/approved-equipment>.

#### **4. EFFECTIVE DATE**

This program notice is effective upon receipt.

#### **5. FILING INSTRUCTIONS**

File a copy of this program notice with the Equipment Handbook. The handbook will be revised later to include these changes. The List of Approved Equipment will be updated. Field office managers must ensure that a copy of this memorandum is available to official agencies operating within their circuit.

#### **6. QUESTIONS**

Direct any questions concerning this program notice to the Inspection Instrumentation Branch at (816) 702-3800.