

Technical Requirements for

## LIGHT-EMITTING DIODE (LED) LINEAR TUBE, 18 WATTS

### PRODUCT SPECIFICATIONS

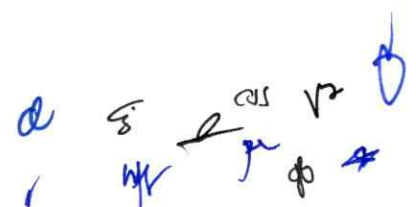
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- Lighting Output (Lumen):  $\geq 1,944$  lumens
- Power Consumption (max.): 18 watts
- Efficacy:  $\geq 108$  lumens/watts
- Color Rendering Index:  $\geq 80$
- Color Temperature: 6,000 - 6,500 K
- Voltage Input: 220-240 volts, AC
- Socket Base: G13
- Power Factor:  $\geq 0.50$
- Minimum Rated Lamp Life:  $\geq 15,000$  hours
- Light Color: Daylight/Cool White
- Type of Lamp: Linear LED Tube
- Length (-2mm): 1200mm
- Diameter (-2mm): 26mm
- With DOE energy label
- Brand shall be engraved/embossed/printed/permanently stickered on the item.
- With PS Quality or ICC Certificate Markings

### EVIDENCE and VERIFICATION

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- **Documentary Evidence to be submitted during Post-qualification:**
  - Valid test report from a government laboratory testing center or government accredited private laboratory testing center or third party laboratory testing center. In case there is no available government laboratory center or the required testing method is not available, the test may be conducted by a government accredited private testing center; or if still not available, by a third party laboratory testing center.
    - Valid test report showing compliance:
      - Verification Testing for Self-Ballasted LED Lamps
  - Brochure and/or Technical Data Sheet:
    - With PS Quality or ICC Certificate
- **A Confirmatory Test during delivery** from a government laboratory testing center or government accredited private laboratory testing center or third party laboratory testing center. In case there is no available government laboratory center or the required testing method is not



available, the test may be conducted by a government accredited private testing center; or if still not available, by a third party laboratory testing center.

- o Valid test report showing compliance:
  - Verification Testing for Self-Ballasted LED Lamps

- **In-House Test:**

- o Includes driver
- o Functionality Test
  - Place the linear tube on a socket.
  - The linear tube should be lit with the electricity on.
- o Determine the dimensions by using a measuring tape: :
  - Length (-2mm): 1200mm
- o Determine the dimensions by using a vernier caliper:
  - Diameter (-2mm): 26mm
- o Check the following markings:
  - PS Quality or ICC Certificate markings
  - DOE Energy Label

- Two (2) tubes with marking/labeling shall be provided by the bidder during the submission of additional post-qualification documents for verification of the product specifications.

## PACKAGING

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- Packaging shall be made of 100% recyclable material.
- Individually packed in a carton box  
Twenty (20) tubes per box or standard packaging of the manufacturer..
- Additional Requirement on Packaging, refer to the attached Annex "A"

## MARKING/LABELING

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- Shall conform with the minimum Marking and Labeling Requirements under Article 77 of Republic Act 7394 (Consumer Act of the Philippines) whichever is/are applicable among those requirements to this item.
- Brand shall be engraved/embossed/printed/permanently stickered on the item.
- With PS Quality or ICC Certificate Markings

## REFERENCES

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- None

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