



Document Title:  
**Numbering Label for the Distribution System**

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**Material Specifications**

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**4350.022**

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**Distribution Standards & Materials 1**

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## Document History

Date	Revision Comments
Sep. 27, 2021	Initial Release (Ver. 1)
Jun. 06, 2022	General format modifications (Ver. 6)
May. 15, 2023	Description Section modified. Cover Page and Table of Compliance (TOC) added. Table 3 modified (first two columns) (Ver. 7).

Warehouse Catalog #	Version	Date
002-82274	7	05/15/2023
002-82275	7	05/15/2023
002-82276	7	05/15/2023
002-82277	7	05/15/2023
002-82278	7	05/15/2023
002-82279	7	05/15/2023
002-82280	7	05/15/2023
002-82281	7	05/15/2023
002-82282	7	05/15/2023
002-82283	7	05/15/2023
002-82284	7	05/15/2023
002-82285	7	05/15/2023



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## Numbering Label for the Distribution System

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### 1. Introduction

This is a general specification that covers the minimum requirements for a polyester-laminate label to be used in the distribution system in Puerto Rico. Further information will be provided by LUMA Energy at the time of order placement and will provide information on site specific conditions, quantity, and other requirements. This document includes the general mechanical characteristics of the material.

### 2. Special Requirements

Samples shall be furnished as requested by LUMA Energy. Vendors that have supplied this equipment/material to LUMA on previous orders, will not have to furnish samples at bid opening. If any equipment/material or design changes were made to an approved product, it must be re-submitted to the Material Specification engineer for approval before shipping.

### 3. Quantity/Literature

Descriptive and technical literature must be supplied by the vendor at time of bidding. This literature may include, but is not limited to details of material, drawings, documented testing, and instructions for use and installation. Failure to submit documents on time will cause bidder disqualification.

### 4. Markings

- 4.1. Containers shall be marked outside with LUMA Energy's purchase order and item number.
- 4.2. Packaging labels and tags shall be waterproof.

### 5. Equal or Approved Equal to

- 5.1. Almetek Industries, Inc. (LABEL-18678 for assets, LABEL-18679 for devices)
- 5.2. Tech Products, Inc.
- 5.3. William Frick & company

### 6. Packaging

All material and equipment shall be packaged and marked in such a way as to facilitate handling and protection from damage and that the receiving warehouse can readily identify it and send it, in one complete unit, to a field location without opening crates or boxes to sort items and/or parts.



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### 7. Number Per Package (Logistics)

Standard Package: Ten (10) units per box on a hard carton box, containing 100 units, or as requested by LUMA.

### 8. Acceptance Criteria

8.1. Test required: certified by external qualified laboratories.

8.2. Latest applicable codes, standards, and other regulations: ANSI/ASTM (Z535), IEEE.

### 9. Description

9.1. This label is used as a unique unambiguous designation for numbering and visual identification of assets and devices on switching units, pad-mounted units, and vaults.

9.2. Number identification label with seven (7) digits (Calibri font) on a polyester-laminate.

9.3. There will be two different labels, used in a horizontal way. Dimensions, color, and letter size will be shown in a table below (line 9.7 of this description).

9.4. The labels must have the following features:

a. Permanent adhesion.

b. Weather, UV, and abrasive resistant for 10 years life minimum of durability.

c. Should withstands 0 °F to 180 °F (-17.78 C to 82.22 C) temperature without dimensional stability loss.

d. Must be reflective and highly visible (excellent quality sheeting and ink).

e. Pre-cut or hole-punched sheets accepted.

9.5. A bar-code shall be included at the right end of the label, not interfering with the numbers. This bar-code shall contain the exact numbering showing on the label and will be no more than 1" (2.54 cm) on its shortest side.

9.6. The supplier will be notified by LUMA about the exact numbering to be included in the label once the purchase order is given.



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9.7. Table 1: Dimensions and color

	APPROXIMATE LENGTH & WIDTH	LETTER SIZE	BACK-GROUND COLOR	LETTER COLOR
<b>LABEL 1 (ASSET)</b>	12" X 3"	1.5"	YELLOW	BLACK
	(30.48 X 7.62) cm	(3.81) cm		
<b>LABEL 2 (DEVICE)</b>	12" X 3"	1.5"	BLACK	YELLOW
	(30.48 X 7.62) cm	(3.81) cm		

9.8. See Table 2 for digit placement and warehouse number.

### 10. Inspection

The acceptance of any material or equipment shall in no way relieve the vendor from his responsibility to meet all the requirements of this specification, and it would not prevent subsequent rejection if such materials were found later to be defective.

### 11. Proposal Information

11.1. Submitted proposals must include:

- a. Technical information
- b. Table of Compliance completed by the bidder with reference (see Appendix 1).

### 12. Table 2: Warehouse and Asset Suite Identification Number for Assets

ASSET (SEVEN DIGITS)								
Digit 1 Region	Digit 2	Digit 3	Digit 4	Digit 5	Digit 6	Digit 7	Ware-house #	Asset Suite
1	X	X	X	X	X	X	002-82274	82274
2	X	X	X	X	X	X	002-82275	82275
3	X	X	X	X	X	X	002-82276	82276
4	X	X	X	X	X	X	002-82277	82277
5	X	X	X	X	X	X	002-82278	82278
6	X	X	X	X	X	X	002-82279	82279



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### 13. Table 3: Warehouse and Asset Suite Identification Number for Devices

DEVICE (SEVEN DIGITS)								
Digit 1 Device	Digit 2 Region	Digit 3	Digit 4	Digit 5	Digit 6	Digit 7	Ware- house #	Asset Suite
D	1	X	X	X	X	X	002-82280	82280
D	2	X	X	X	X	X	002-82281	82281
D	3	X	X	X	X	X	002-82282	82282
D	4	X	X	X	X	X	002-82283	82283
D	5	X	X	X	X	X	002-82284	82284
D	6	X	X	X	X	X	002-82285	82285

— End of Specification —



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# **Appendix**



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### Appendix 1: Table of Compliance

Line	Criteria	Description	Pass/Fail (P / F)	Comments
1	Specification	The Proponent complies with the corresponding specification document (4350.022).		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document (ANSI/ASTM, IEEE).		
3	Material	Polyester-laminate		
4	Product Requirements	Horizontal Layout		
		Seven digits, Calibri Font		
		Permanent Adhesion		
		Weather, UV, and Abrasive resistant		
		Reflective and High Visibility		
		Bar Code at the right end of the label as per section 9.5.		
5	Dimensions	12" Long X 3" Wide		
		Letters and Numbers: 1.5" Height		
6	Color	Asset: Yellow Background and Black Letters		
		Device: Black Background and Yellow Letters		
7	Numbering	As per Tables 2 and 3		











# 4350.022 Dist Sys Label (5-15-23)

Final Audit Report

2023-05-16

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