

Luminator 3.7.0

User Manual

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Application Scope & Purpose

The Luminator app offers a mobile interface for the Schnell Smart Lighting System's on-field Fleet, enabling users to manage installation, operation, monitoring, and advanced maintenance of Luminodes and Gateways. With this application, users can install and control ILM, CCMS, GW, Lamp, and Pole functionalities seamlessly.

Document Purpose

This document provides a manual for the application users. It provides instructions for the app users to Install, Remove, Replace and Operate the devices on field.

Overview

Introducing Luminator 3.7.0, an enhanced version surpassing the Luminator 3.x app. This update features a significantly simplified User Interface (UI) and streamlined operations. Data collection requirements have been drastically reduced, with device identification now facilitated through QR code scanning within the app, eliminating the need for manual entry of device IDs. Device locations are accurately captured within a < 10m radius. Additionally, validations such as Ward Geo-fencing and Firmware compatibility have been incorporated.

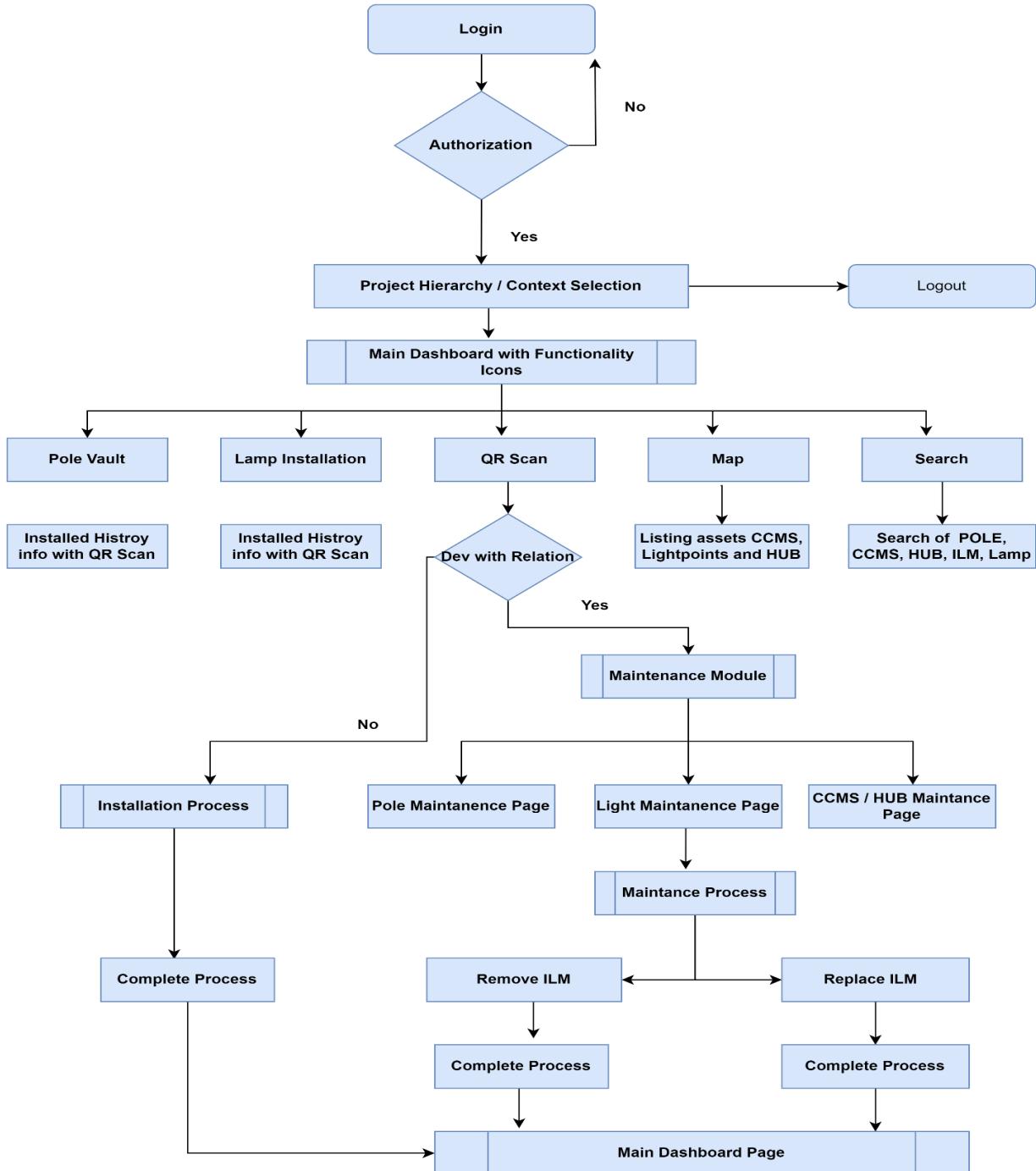
The Luminator app simplifies the installation and maintenance of various assets and devices within the schnellIOT system. It also efficiently manages tickets and issues associated with these assets, providing a seamless user experience.

Target Audience

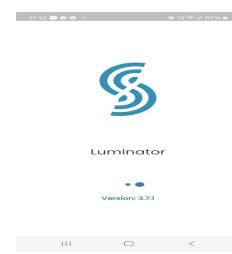
All Smart Light Systems hosted on the schnelliot.in (Thingsboard) platform can use this application to ease their process for Installation and Maintenance.

All the field personnels doing Installation can use this manual to install and Maintaining their Devices for their day-to-day operations. Future scope includes Ticketing features.

Organization Structure



Home Screen / Splash Screen



Login Page

Enter the valid credentials against the Luminator application and click the Login button.



Selection Criteria

Successful logins lead to authenticated Project list pages. user able to select the particular project/Region if eligible for multiple projects / regions..



Dashboard Page

In the Home page now grids are available for POLE and LAMP Asset installation.

Menus and icons available at the homescreen are below:

Top Bar:

Menu Bar 

Search icon 

Tickets icon 

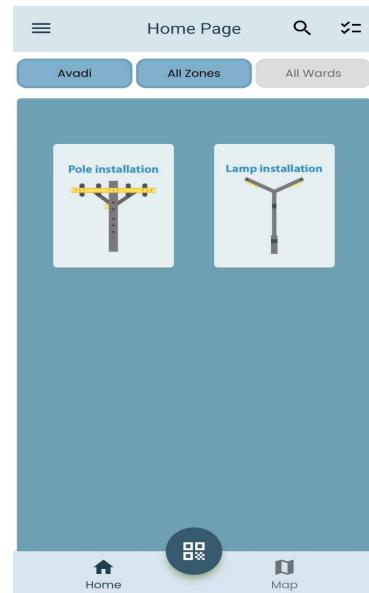
Home Page

Selected Project /region  Avadi

Zone list  All Zones

Ward list  All Wards

Pole Installation Grid 



Lamp Installation Grid 

Bottom Bar

Home icon 

Map Icon 

QR scan button 

Pole Installation

Before proceeding with Pole Installation, ensure the following prerequisites are met:

- Install the Pole Vault app from the Play Store.
- Properly select or set the project context (Region >>> Zone >>> Ward).



PoleVault

Version: 1.1.0

Clicking on the Pole Installation icon offers two options:

- If accessing the Pole Vault app for the first time, it will lead to the installation of the app.
- For users with the app already installed, it provides the option to install the POLE asset within the selected project context.



Upon launching the Pole Vault app, users are presented with an information page showing the count of installed Poles within the selected Ward, along with access to installation history for the past 5 days. To begin the installation process, a QR scan icon is available.

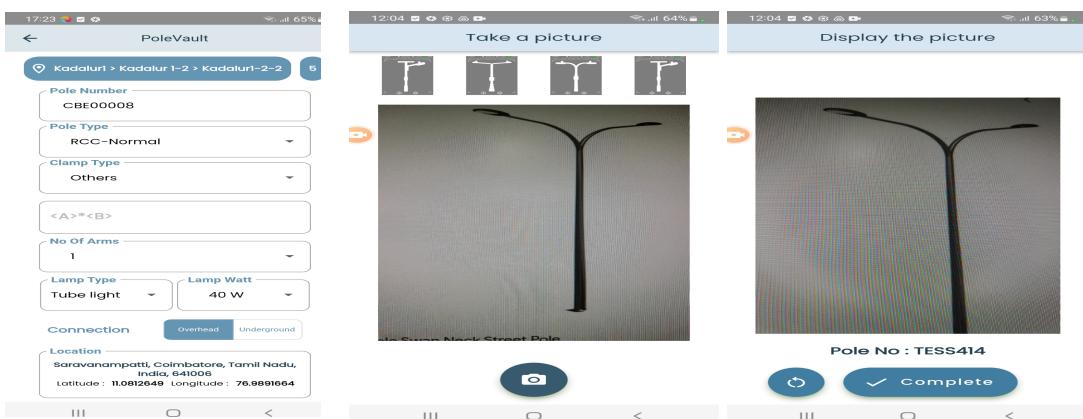
Installation Process - POLE

Once the QR code corresponding to the Pole number is scanned, it undergoes validation against the Pole numbering format to ensure accuracy and consistency. Users are then prompted to provide necessary information about the Pole, with the app automatically fetching the location of the installed pole..



Date	Pole Count
Today	6
19-09-2023	8
13-09-2023	12
12-09-2023	4
06-09-2023	3

After supplying all required details, users proceed to the Photo Capture page to take an image of the installed Pole. Upon capturing the photo, the installation process is considered complete.

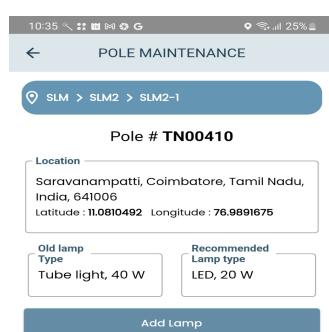


Installation Process - Lamp

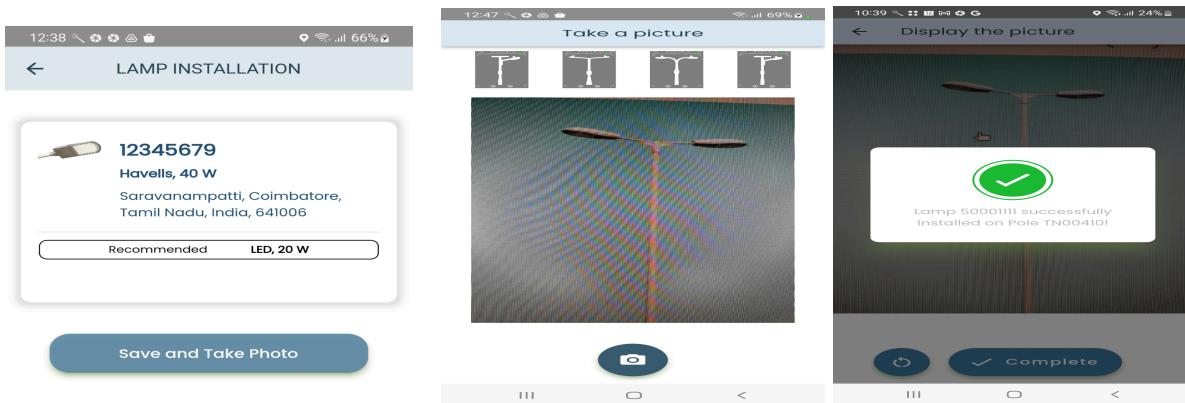
Upon selecting "Lamp Grid," users will be directed to a screen that displays the count of installed lamps within the selected ward, along with their Lamp installation history. Additionally, a Scan QR icon is provided.



To initiate the Lamp Installation process, users must scan the QR code associated with the Lamp's Pole. If the scanned Pole number indicates that the Pole is in an "Installed" state, users will receive information about both the old and recommended lamps, Pole Location details, and an "Add Lamp" button based on the number of arms on the Pole.



Clicking the "Add Lamp" button will navigate users to a QR scan page. Once the Lamp's QR code is scanned, the app will present details such as QR code, Lamp type, Wattage, and more. Users can proceed by capturing a photo.



Successful completion of the photo capture marks the conclusion of the installation process.

Navigation to Device

- QR Code Scanning
- Search Method

QR Code Scanning Method



Users can select their respective Region, zone, and ward from the default options displayed on the Dashboard screen. When they click the scan QR icon, it redirects them to the **Scan QR code page** for QR scanning. Depending on the state and condition of the scanned device, the application will either navigate to the Installation Process or the Maintenance Process.



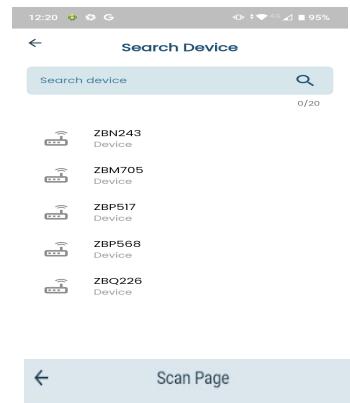
Device List / Search View Method

Click on the Search icon will lead to the Search device page with the Text box to enter the search key values



Enter the device name, then click on the search button to retrieve a list of all related devices.

From the search results, select the device which has to be installed. And the same above mentioned scenario is followed for the selected ILM device.



Installation Process - ILM

According to the Scanned or Searched ILM device Condition and State (condition: New / Service state: Installable), the application will navigate to the LAMP Scanning Page.

It will detect the device state. According to the device state, the installation process is allowed with or without an alert.

Even if the device is not in Installable state , (Testable, Test In progress, Tested OK) app will show a “Confirmation Alert pop-up” to the user and the flow will be according to the user selection.

Not in an Installable state (Installed state ie Installed in different Region) —

app will show a “Confirmation Alert Pop-UP” with the Device Installation information (Ward details) to the user with the following options:

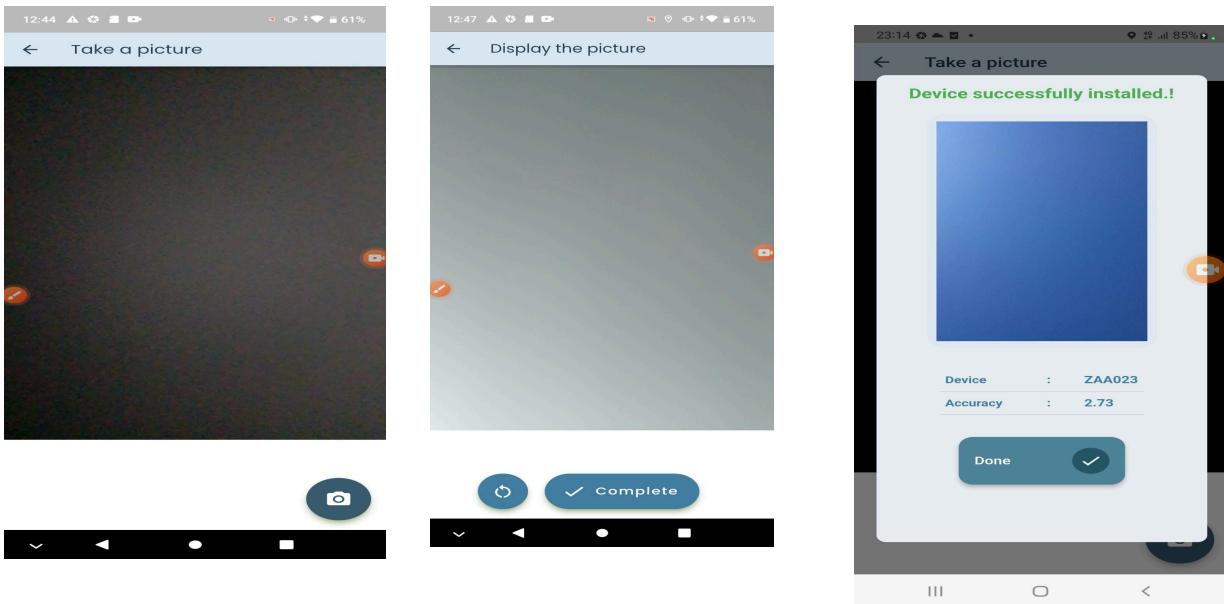
- *Proceed to Install --- Lamp QR Scan page*
- *Skip and Scan another device — Home page*

Not in an Installable state (Installed state ie Installed in different ward with Same Region) app will show a “Confirmation Alert Pop-UP” with the Device Installation information (Ward details) to the user with the following options:

- *Proceed to Install --- Lamp QR Scan page(same as Installation Flow)*
- *Skip and Scan another device --- Home Page*
- *Take to Maintenance ----- Maintenance Page*

Scanned Device is in Scrapped condition — > Leads to show an Alert msg with OK button (no further action on the device is allowed)

If the user chooses to scan a lamp QR button, the lamp QR page will be shown. Alternatively, if the user selects to install without a lamp, the camera screen will be displayed.



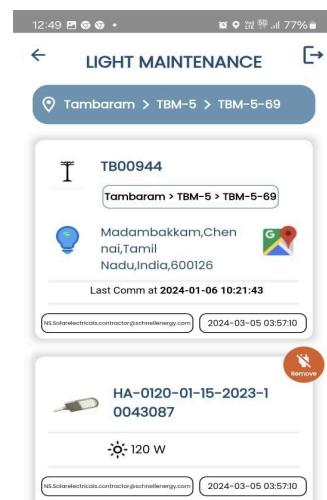
Once the user captures an image and clicks on the "Complete" button, a popup indicating successful device installation will be displayed.

Maintenance Process - ILM & Lamp

Maintenance module has following major functionalities

- Removing an ILM
- Removing a Lamp
- Replace ILM
- Replace Lamp
- Replace Lamp and ILM

Maintenance page is reachable via QR Scan method or Device or asset search method.



Removing ILM with Shorting Cap

Step 1:

Scan the QR code or use the search icon to fetch Device Details and proceed to the maintenance page.

Prerequisites: Ensure user login to the app and select the appropriate Project context.

Step 2:

When scanning an Installed state ILM Device within the same ward, the ILM maintenance page will be displayed. However, scanning a device in a different ward, region, or in a scrap condition will trigger a respective warning popup.

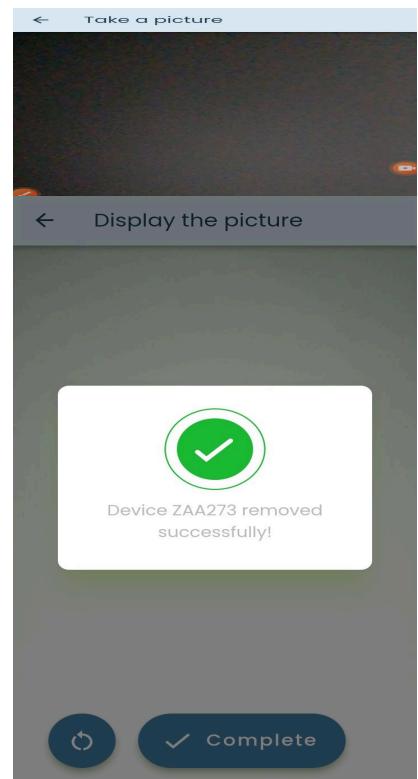
Step 3:

Successful device scan leads to the Maintenance Module Page, displaying options to Replace with Shorting CAP and ILM buttons.



Step 4:

Click the Shorting Cap icon to open the mobile camera screen. Capture a photo of the Cap replaced with the Selected ILM Device.



Step 5:

After successfully capturing the photo/image, the screen displays the picture along with the following buttons:

- *Retake:* Opens the camera for another photo.
- *Complete:* Proceeds to the Device Removal page, displaying a "Device Successfully Removed" Pop Up message.



Step 2:

When the user scans an Installed state ILM Device in the same ward, the ILM maintenance page will be displayed. However, if the user scans a device in a different ward, region, or in a scrap condition, a respective warning popup will appear.

Step 3:

Device scanned successfully leads to the Maintenance Module Page where it shows Replace with
Shorting CAP and ILM buttons.

Step 4:

Once the **Shorting Cap** icon is clicked, the mobile camera screen is opened. Select the capture Icon to capture a photo of the Cap which is replaced with the Selected ILM Device.

Step 5:

Once the photo / image is taken successfully, the screen will display the picture with the following buttons.

- Retake – Retake will open the camera and will take the photo again
- Complete – Complete button leads to the Device Removal page.. Complete button leads to the “Device Successfully Removed” Pop Up message,

Removing Lamp

Replace the Device

QR Code Scanning Method

Step 1:

Users are able to select the respective Region, zone, and ward default displayed on the Dashboard screen. Click the Scan QR icon, then the **Scan QR code page** is displayed for scanning the QR.



Step 2:

When the user scans an Installed state ILM Device in the same ward, the ILM maintenance page will be displayed. However, if the user scans a device in a different ward, region, or in a scrap condition, a respective warning popup will appear..



Step 3:

Device scanned successfully leads to the Maintenance Page as shown. Device details are shown in the page.



Step 4:

Click the Replace with ILM button the Scan QR page should be opened. If scan a valid ILM device QR with State : NEW, SERVICE Condition : INSTALLABLE the page directly navigates to the Camera page. Otherwise the Confirmation Alert message will be displayed.



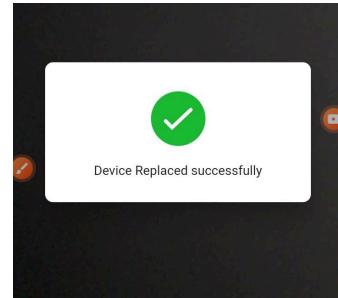
Step 5:

Then take a Photo and submit it by clicking on Tick Icon.

Step 6:

Once the photo / image is uploaded successfully, then click on the "Complete" button to complete the process.

If all the processes are successfully completed, then the user will get a pop message as “[POPUP] <DEV_1> was replaced with <DEV_2> successfully!”. Device relationship with Ward will be swapped old to new ILM device.



Installation Process - CCMS / HUB

QR Code Scanning Method

Step 1:

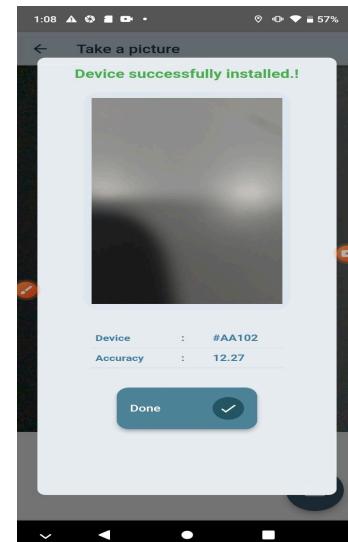
Scan the QR code to fetch the device details.

Users are able to select the respective region, zone, and ward default displayed on the Dashboard screen. Once the below marked icon is clicked, then the **Scan QR Code page** is displayed for scanning the QR.



If a user scans a Without CCMS/HUB asset relation device, "**Device not despatched properly**" popup will be shown to the mobile application.

Step 2: If User selects the installable state of CCMS/HUB with gateway devices, the Camera screen will be displayed



Step 3: Upon selecting the COMPLETE icon, the image is captured, and the successful installation of the device is displayed.

When a user scans an individual gateway device in the Installable state, a message indicating that the device has not been dispatched correctly is shown.

Device View List Method

Step 1:



Click on the Search icon will lead to the Search device page with the Text box to enter the search key values

Step 2:

Enter the device name, then click on the search button to retrieve a list of all related devices.

From the search results, select the device which has to be installed. And the same above mentioned scenario is followed for the selected ILM device.

Then the same Step 3 and Step 4 of the QR Code Scanning process is to be performed to complete the Installation.

Gateway Replacement

QR Code Scanning Method How new panel needs to be installed?

Step 1:

Scan the QR code to fetch the device details.

Users are able to select the respective region, zone, and ward default displayed on the Dashboard screen. Once the below marked icon is clicked, then the **Scan QR Code page** is displayed for scanning the QR.



Step 2:

When the user selects the "Scan QR" button and scans an installed CCMS/HUB gateway device, the Gateway Maintenance page is displayed.



Step3:

Replace Gateway The Device page is displayed when the user selects the Replace Gateway button. After scanning a valid gateway QR, the Capture Image page should be displayed.

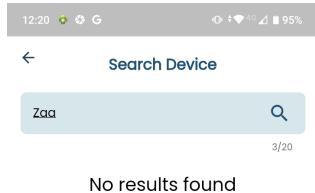
Step 4:

If the user captures the image and then selects the "Complete" button, a popup message saying "Gateway Replaced Successfully" is shown.

Device View List Method

Step 1:

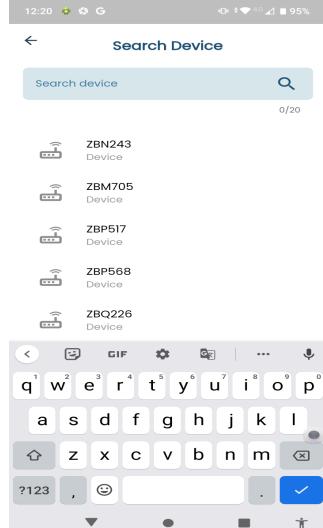
Click on the Search icon will lead to the Search device page with the Text box to enter the search key values

**Step 2:**

Enter the device name, then click on the search button to retrieve a list of all related devices.

From the search results, select the device which has to be installed. And the same scenario is followed for the selected ILM device.

Then the same Step 3 and Step 4 of the QR Code Scanning process is to be performed to complete the Installation.



Summary

This manual describes the installation and Maintenance of the Latest Luminator Phase III application. It is useful for all smart light projects' field persons to Install and Maintaining the device in an easy manner.