

The Philips logo is displayed in a white rounded rectangle with a blue border, set against a dark teal background. The word "PHILIPS" is written in a bold, blue, sans-serif font.The text "CityTouch Ready" is written in a white, sans-serif font and is positioned on a dark teal rectangular background. It is located below the Philips logo.

User Guide

CityTouch Ready Luminaire Configurator

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1 About this guide

This document is a guide through the luminaire configuration process with the help of CityTouch Ready luminaire configurator, Version 1.159.x.xxxxx. It supports you in installing the tool and helps you understand the various steps of the configuration process. You will find detailed descriptions on creating the required luminaire catalogs, on connecting and programming the luminaires, and on uploading the resulting xml files.

2 About CityTouch Ready luminaire configurator

2.1 System requirements

These are the requirements for installing CityTouch Ready luminaire configurator and programming luminaires with the tool:

- PC or laptop with Microsoft Windows 7, 8, 8.1 or 10
- 2 free USB 2.0 ports (for connection with USB2DALI interface)
- 1 free ethernet port (Art-Net protocol)
- At least 45 MB of free disk space
- Microsoft .NET Framework 4.5 and above: <https://www.microsoft.com/en-us/download/details.aspx?id=40779>
- Internet connection (for data upload to CityTouch)
- MultiOne USB2DALI interface (LCN8600) with a production date of 2014 or higher:



- Black USB cable supplied with the MultiOne USB2DALI interface with a ferrite bead at the end of the mini-USB

2.2 Installing CityTouch Ready luminaire configurator

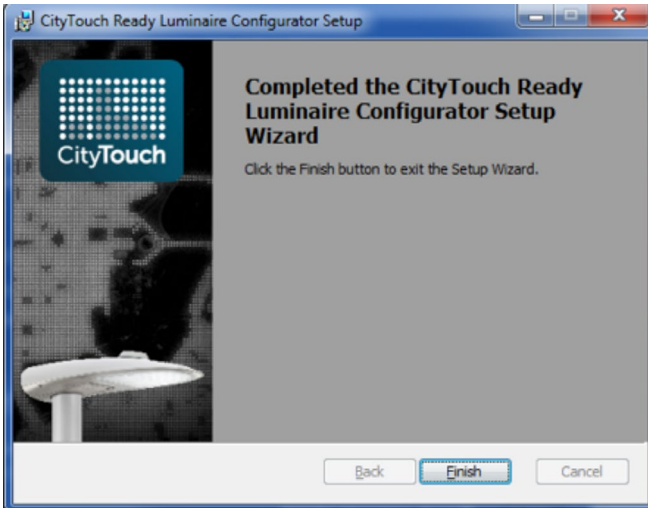
Proceed as follows to install CityTouchReadyLuminaire Configurator:

- 1 Find the installer package **CityTouchReadyLuminaire Configurator.msi** on your machine and double-click it. The installation wizard is started:



- 2 Click **Next** to start the installation. Depending on your system configuration you might need to confirm the installation start.

3 After the successful installation click the **Finish** button:



CityTouch Ready luminaire configurator is now installed on the local hard drive of your machine. You can start the tool via a shortcut on the desktop or via an entry in the Windows **Start** menu.

Note

To re-install a previous version of CityTouch Ready luminaire configurator proceed as follows:

- 1 Uninstall the current version of CityTouch Ready luminaire configurator via **Control Panel > Programs and Features > Uninstall a program** in the Windows **Start** menu.
- 2 Install the desired version of CityTouch Ready luminaire configurator as described above.

2.3 Setting up the label printer

As part of the CityTouch Ready certification requirements, the luminaire vendor must print 3 labels for traceability of each CityTouch Ready luminaire. The label must contain the unique luminaire identifier (service tag). The label must be visible on the luminaire (e.g. on the LED board), printed on the packing box, and printed on a separate label for placement inside the pole.

The CityTouch Ready luminaire configurator software includes automatic printing of the service tag.

2.3.1 Supported printers

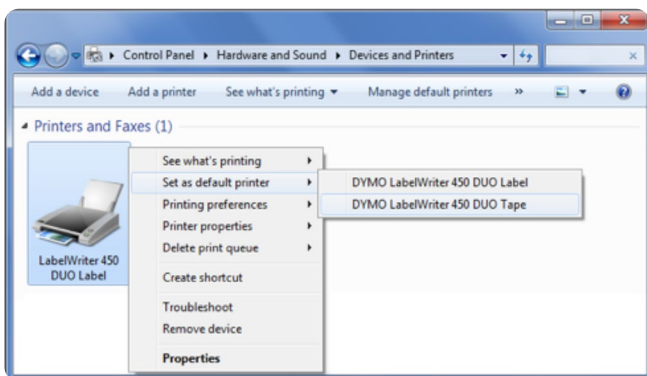
The CityTouch Ready luminaire configurator software supports printing with any printer. Precondition is that the printer is set as **default printer** in Windows.

2.3.2 Adding the printer

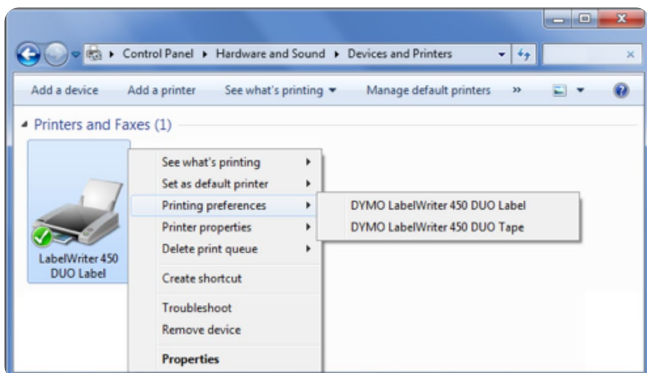
Adding a printer will look differently for each device. The following example shows how to add the DYMO LabelWriter 450 DUO Label or the DYMO LabelWriter 450 DUO Tape printer. Both are recommendable for the label printing task in CityTouch Ready luminaire configurator. The printer driver is installed automatically when connecting the printer to the computer. Alternatively, the printer driver can be downloaded from the DYMO website.

After installation, either the DYMO LabelWriter 450 DUO Label or the DYMO LabelWriter 450 DUO Tape printer must be set as default printer and the paper size must be set. Proceed as follows:

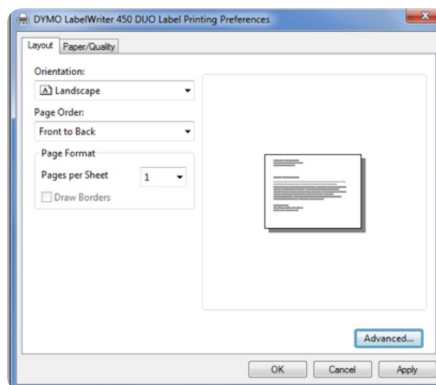
- 1 Open the **Devices and Printers** window in the **Control Panel**.
- 2 Select the Printer LabelWriter 450 DUO Label, right-click the printer icon, select **Set as default printer**, and select either DYMO LabelWriter 450 DUO Label or DYMO LabelWriter 450 DUO Tape.



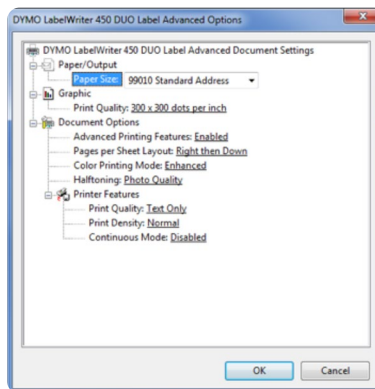
- 3 Click on **Printer preferences** and select the default printer that has been set in the previous step.



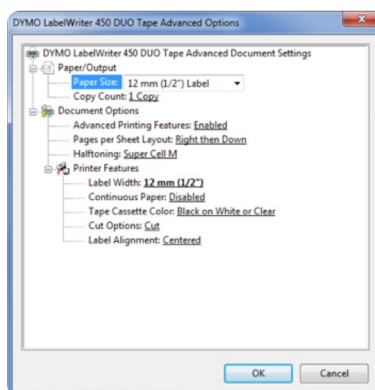
- 4 In the **Printing Preferences** window, click the **Advanced...** button.



- 5 For DYMO LabelWriter 450 DUO Label, select **99010 Standard Address** from the **Paper Size** drop-down menu.



- For DYMO LabelWriter 450 DUO Tape, **select 12 mm (1/2") Label** from the **Paper Size** drop-down menu.

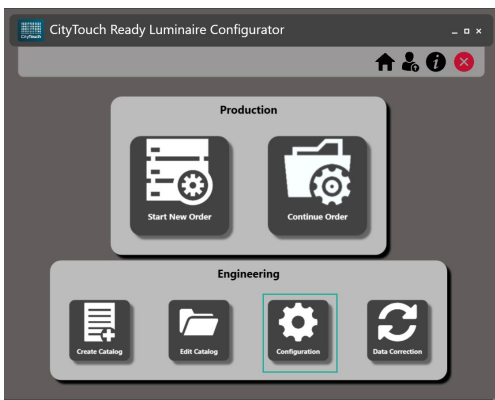



- 6 Click the **OK** button.

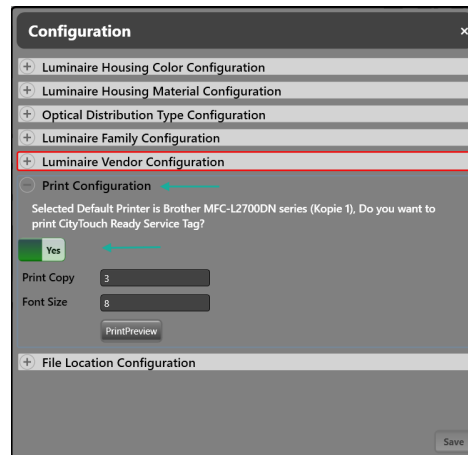
2.3.3 Setting automatic printing

You can configure CityTouch Ready luminaire configurator to automatically print the service tag after the successful programming of the luminaire. Proceed as follows:

- 1 Click the **Configuration** button on the home page to open the **Configuration** dialog:



- 2 In the **Configuration** dialog, click the **Expand** button  to open the **Print Configuration** section.

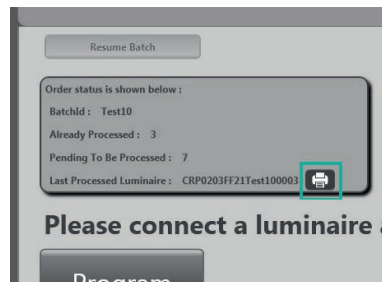


- 3 Move the slider to **Yes** to activate automatic printing. Make sure that you have installed the printer driver and marked the desired printer as default printer.

- 4 Set your printing preferences:
Print Copy: Specify the number of copies to be printed for each luminaire.
Font Size: Specify the size of the label text.
PrintPreview: Click this button for a preview of your font size setting.

- 5 Click **Save** to confirm the settings.

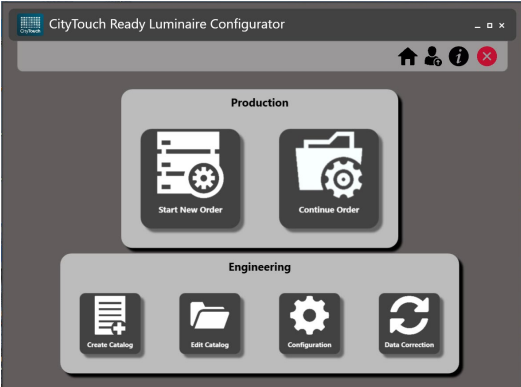
Note
With automatic printing and for each programmed luminaire, the specified number of copies of the service tag will be printed. If printing is interrupted, e.g. because of an empty cartridge, you can restart printing by clicking the **Print** button behind the name of the **Last Processed Luminaire** in the **Order status** box:



2.4 Basic details about CityTouch Ready Luminaire Configurator

2.4.1 Overview of the tool functions

Find here a function overview of the CityTouch Ready luminaire configurator:



You have the following options:

Toolbar buttons

Depending on the currently open page you will find here the following buttons:

Table with 4 rows describing toolbar buttons: Home, Credentials, Info, MultiOne Device Status, and Configuration. Each row includes an icon and a detailed description of its function.



The **Save** button is visible when you are creating or editing a catalog. Click the **Save** button to save the fully defined catalog to an xml file. The **Save** button only becomes active if all fields are filled in the property tabs of the catalog.



The **Update AssetData** button is visible when you are working with the **Data Correction** function. Click the **Update AssetData** button to upload the luminaire data via your factory account after you have [corrected the data](#).

Production buttons

These buttons give you access to the luminaire programming functions:



Click the **Start New Order** button to [start a batch order](#) and [program the luminaires](#) of that batch order.



Click the **Continue Order** button to [open an already existing batch order](#) and continue programming the luminaires of that batch order.

Engineering buttons

These buttons help you prepare the required catalog file for the luminaire programming:



Click the **Create catalog** button to [open a new catalog](#) with the tabs **General Properties**, **LED Driver**, **LED Module**, and **CityTouch Node**.

A catalog is the required input for processing a batch order of luminaires.



Click the **Edit catalog** button to [open an existing catalog](#). You can then adjust individual properties for a new batch of luminaires and save everything in a new catalog file.



Click the **Configuration** button to open the **Configuration** dialog. Here you can [define specific properties for the luminaire](#): color, material, and optics as well as the luminaire family name and the vendor configuration. These properties are necessary for creating a catalog.

In addition, you can [set printing preferences](#) for the printing of the service tag. You can also use the configuration dialog to [change the location of directories and files](#) that are created by CityTouch Ready Luminaire Configurator.

When you are creating or editing a catalog, this function is available via a smaller toolbar button (see above).



Click the **Data Correction** button to open the **Data Correction** dialog. Here you can [retrieve and correct luminaire data](#) of an already programmed luminaire. To use this function, you need your factory account credentials as well as the service tag of the luminaire.

2.4.2 Directory structure of CityTouch Ready Luminaire Configurator

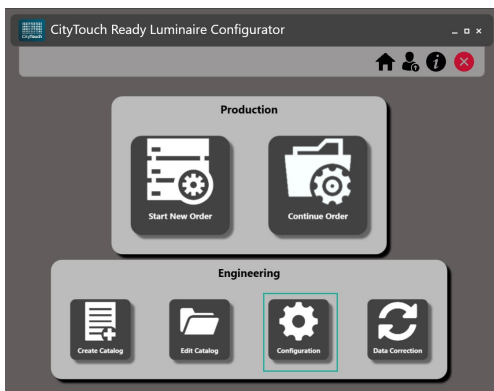
CityTouch Ready luminaire configurator automatically creates the following directory structure:

- My Documents
 - CityTouchReadyLuminaires
 - Catalogs
 - Configurations
 - Credentials
 - Logs
 - Orders

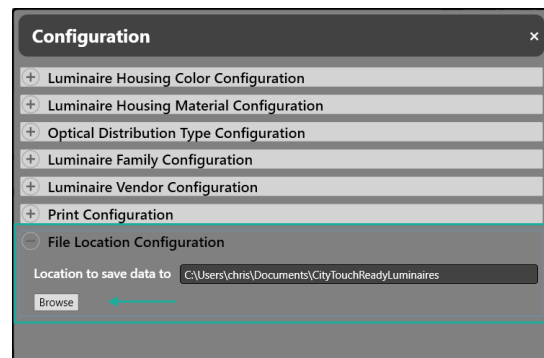
Customizing the location of the directory structure

You can change the automatically chosen location for the directory structure of CityTouch Ready luminaire configurator. To do so proceed as follows:

- 1 Click the **Configuration** button on the home page to open the **Configuration** dialog:



- 2 In the **Configuration** dialog, click the **Expand** button **+** to open the **File Location Configuration** section.
- 3 Click **Browse** to search for and select the desired location:



- 4 Click **Save** to finalize your changes. The application will then perform the following actions:
 - The directory **CityTouchReadyLuminaires** with all its subdirectories and their contents will be copied to the new location.
 - The file **FileLocationConfig.xml** – the application's link to the file location – remains in the original default file location. The file's content is adjusted automatically to the new location.

Note

- Make sure that the file **FileLocationConfig.xml** always remains in the default location **My Documents > CityTouchReadyLuminaires**. If you remove the file, the application loses its link to the new file location.
- Make sure that the whole path to the new location is correct and accessible. This is especially important for network drives.

Content of the directories

This is what you will find in the individual directories:

CityTouchReadyLuminaires	Besides the subdirectories, this directory also contains the file FileLocationConfig.xml . The file is required in this location if you have defined your own location for the directories of CityTouch Ready luminaire configurator. Do not delete it.
Orders	This directory contains the subdirectories with your luminaire orders for programming. The individual subdirectories are named after the Batch ID you have given to the order. You create an order via the Start New Order button on the home page.
Catalogs	This directory contains the luminaire catalogs you have created with CityTouch Ready luminaire configurator. You can only use catalogs with CityTouch Ready luminaire configurator if they are placed in this directory. You create a catalog file via the Create Catalog button on the home page.
Configurations	This directory contains the configuration files with manufacturer-specific parameters like luminaire housing color and material as well as information on the luminaire family or the luminaire vendor. It also contains the configuration file with the printing preferences. You create the configuration files via the Configurations button on the home page. CityTouch Ready luminaire configurator can only access configuration files in this directory.
Logs	This directory contains the log files of the program.
Credentials	This directory contains the credentials file to access your factory account. To place the credentials file here, you have to use the credentials function of the program. CityTouch Ready luminaire configurator can only access credentials files in this directory.

Note

If you are working with different user accounts, you have to synchronize the catalog files and configuration files between the respective user accounts.

2.5 Overview of the luminaire configuration process

The factory process flow for producing CityTouch Ready luminaires consists of 4 consecutive steps.

- 1 Assemble Philips connector node into luminaire.
- 2 Generate luminaire catalog file.
- 3 Program CityTouch Ready luminaire.
- 4 Upload luminaire asset file to CityTouch server.

Steps 2 to 4 are implemented in the CityTouch Ready luminaire configurator and described in this user manual. The first step is described in the design-in manual.



The following list gives a concise overview of the luminaire configuration process with the CityTouch Ready luminaire configurator.

Step 1 - Defining manufacturer-specific properties

This step is typically executed by a luminaire expert of the manufacturer. Manufacturer-specific properties to be defined are among others luminaire housing color and material or information on luminaire family and luminaire vendor.

Step 2 - Creating a luminaire catalog with all generic luminaire properties

This step is typically executed by a luminaire expert of the manufacturer. The resulting luminaire catalog in xml format is required as input for the next part of the configuration process, the batch programming.

Step 3 - Programming a luminaire order

This step is typically performed directly at a luminaire factory. It consists of three main tasks:

- Creating a new order.
- Connecting the luminaires of the order.
- Programming the connected luminaires.

The step results in the xml files that are necessary for CityTouch to recognize the luminaires. For each luminaire, one file in xml format is generated and functions like a fingerprint for the luminaire.

Step 4 - Uploading the programmed files

The programmed output files are automatically uploaded to the CityTouch server via your factory account. For the [access to this account](#), you will receive a credentials file that you have to integrate in CityTouch Ready luminaire configurator.

In case a luminaire has been programmed with incorrect data, the application also offers a [data correction workflow](#). This workflow can be accessed with the factory account credentials, too.

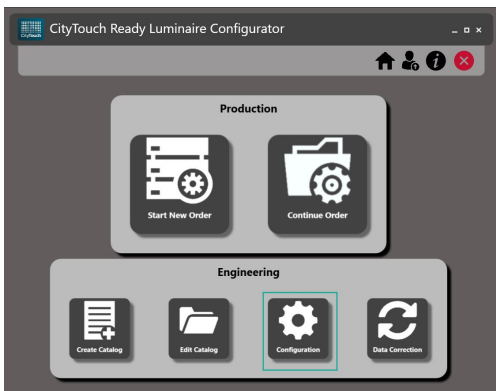
Please refer to the following sections for detailed information on each step.

3 Defining manufacturer-specific properties

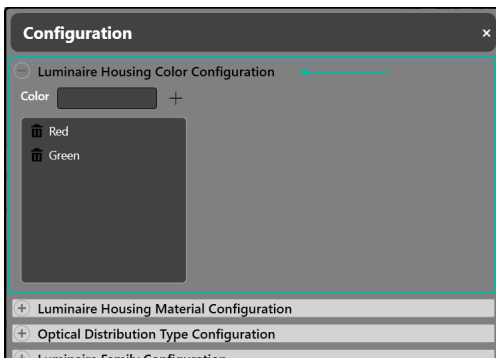
Parameters for luminaire colors, luminaire material, and luminaire optics are typically manufacturer-specific. Use the **Configuration** dialog of the CityTouch Ready luminaire configurator to specify your luminaires' values for these properties. In addition, you can use this dialog to specify luminaire families as well as the luminaire brand name and the production location.

The following example shows how to configure luminaire colors – you can proceed likewise for all other luminaire properties in this dialog. Proceed as follows:

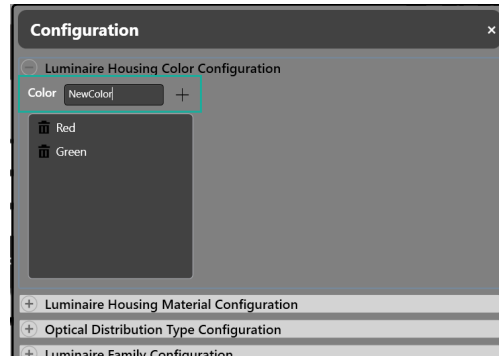
- 1 Click the **Configuration** button on the home page to open the **Configuration** dialog:



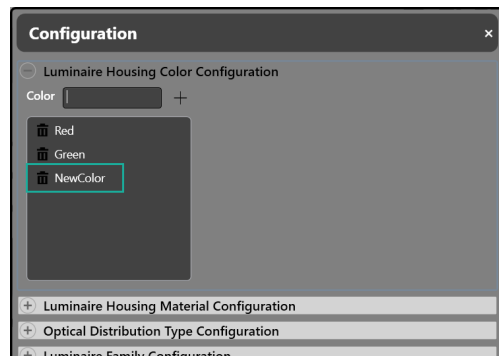
- 2 In the **Configuration** dialog, click the **Expand** button **+** to open the **Luminaire Housing Color Configuration** section:



- 3 Type the name of a luminaire color in the field **Color**:



- 4 Click **+** or press **ENTER** to add the color to the list:



- 5 Proceed likewise for all luminaire housing colors you want to add.
- 6 Click **Save** to confirm the configuration.

Notes

To remove a color, a material, or an optic from the list, move the mouse over the list entry and click the **Delete** button

The **Configuration** dialog is also accessible while you are filling the property fields for the luminaire catalog: Click the small **Configuration** button in the toolbar and add any missing value. It will be immediately available in the drop-down lists of the **General Properties** tab.

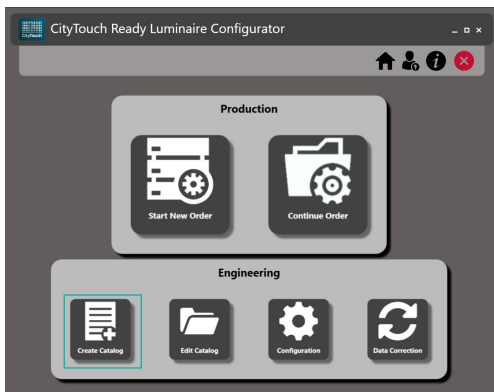
If you add values for a property during the catalog creation via the **Configuration** dialog, your existing selection for that property will be reset.

4 Creating a luminaire catalog

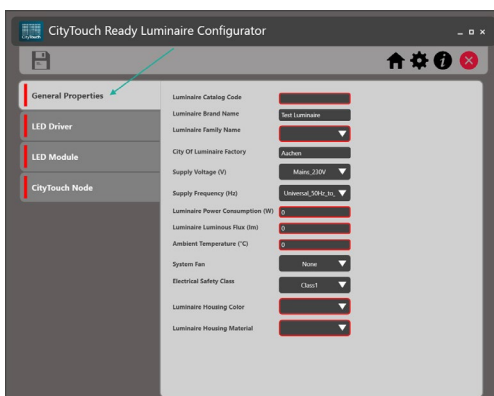
This chapter explains how to create a new luminaire catalog and how to edit an existing catalog. The individual properties that need to be filled in for each catalog are also described in detail.

4.1 Creating a new catalog

- 1 Click the **Create Catalog** button on the home page:



- 2 The new catalog opens with the **General Properties** tab:



You will find here the following options and information:


Property tabs On the left, there are the 4 property tabs with the required property fields for the catalog:

- **General Properties** tab
- **LED Driver** tab
- **LED Module** tab
- **CityTouch Node** tab
- **Line Switch** tab (optional)
- **DynaDimmer** tab (optional)

Note that the optional tabs are only visible with a Sensor Ready **Driver Type** and the value **None** for **CityTouch Node**. Switch between the tabs by clicking the desired tab.

Central work space

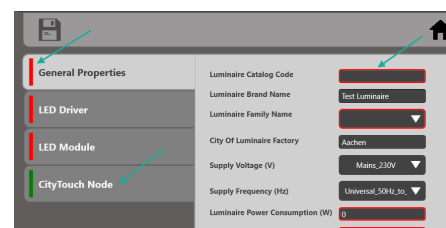
When you click a tab on the left, you will see the property fields in the central work space of CityTouch Ready luminaire configurator.

- 3 Fill in all properties in each tab. When all properties in all tabs are filled, the **Save** button becomes active. For details on the properties, please refer to the section on the respective tab.
- 4 Click the **Save** button  and enter a name for your catalog file. The file will be saved in xml format.

Notes

You need to fill in all the fields in all tabs in order to save a catalog. The **Save** button only becomes active when all mandatory fields are specified.

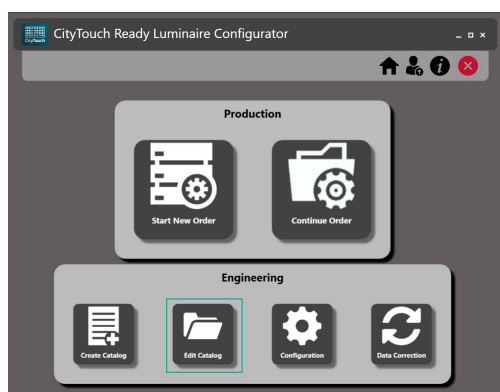
You will find red markers for empty and incorrectly filled fields, and for tabs with missing or incorrect information. Tabs with all required information are marked in green:




4.2 Editing an existing catalog

You can use existing catalogs as a basis for a new catalog.
Proceed as follows:

- 1 Click the **Edit catalog** button on the home page:



- 2 Search for and open the catalog that you want to use as a basis for your new catalog.
- 3 In the properties tabs, adjust the properties that are different for your new catalog.
- 4 Click the **Save** button  in the toolbar and enter a new name for the changed catalog.

📘 **Note**
Do not change a catalog while it is being used for an order.

4.3 General Properties tab

The following list provides you with an explanation for each of the luminaire properties in the **General Properties** tab.



Note

Invalid symbols:

&
<
>
,”


General property name	Description	Valid values
Luminaire Catalog Code	Catalog code describing luminaire configuration e.g. Luminaire code Light output CRI Optics Electrical Class.	
Luminaire Brand Name	Name of the luminaire vendor. This property has to be configured in the Configuration dialog . It is not editable here.	
Luminaire Family Name	(Family) name of the luminaire. This property has to be configured in the Configuration dialog . Select the appropriate value from the list.	
City Of Luminaire Factory	Location where the luminaire is produced. This property has to be configured in the Configuration dialog . It is not editable here.	
Supply Voltage (V)	Nominal input voltage of luminaire. This value is typically 230 V in Europe.	Predefined: <ul style="list-style-type: none"> • Mains_120V • Mains_230V • Universal_120_to_277V • Unknown
Supply Frequency (Hz)	Nominal input frequency of luminaire.	Predefined: <ul style="list-style-type: none"> • Frequency_50Hz • Frequency_60Hz • Universal_50_to_60Hz • Unknown
Luminaire Power Consumption (W)	Input power of the luminaire at operating conditions.	Between 1 and 1000
Luminaire Luminous Flux (lm)	Light output of the luminaire at operating conditions.	Between 1 and 100000

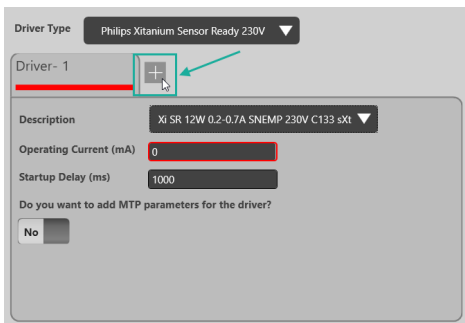
General property name	Description	Valid values
Ambient Temperature (°C)	Ambient temperature in the application.	Between 1 and 80
System Fan	Specifies if the luminaire contains an internal fan.	
Electrical Safety Class	Electrical Safety classification. This field is Class1 for luminaires with earth connection or Class2 for luminaires without earth connection.	Predefined: <ul style="list-style-type: none">• Class1• Class2
Luminaire Housing Color	Color of the luminaire's housing, to be defined via the tool's Configuration section.	
Luminaire Housing Material	Material of the luminaire's housing, to be defined via the tool's Configuration section.	


4.4 LED Driver tab

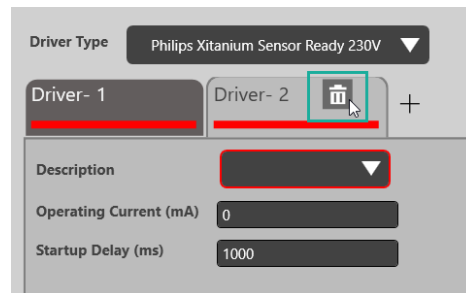
The following sections provide you with explanations for all features and property fields in the **LED Driver** tab.

4.4.1 LED Driver properties

After you have selected the **Driver Type**, you will see the **Driver 1** properties box. The list **Description** contains all drivers that are available for the selected **Driver Type**. To add properties for a second driver, click the **Add** button  beside the driver tab:



To remove a driver, click the driver tab, move the mouse over the tab header and click the **Delete** button :



Note

If the **Driver Type** is **Sensor Ready**, you can add up to 4 drivers to the **LED Driver** tab. Multiple drivers with the same description must have the same values for **Operating Current**, for **Startup Delay** and for MTP parameters.

LED Driver property name	Description	Valid values
Driver Type	List with available driver types. Selecting a driver type has the following results: <ul style="list-style-type: none"> Only the corresponding drivers are offered under Description. Only the corresponding nodes are offered in the CityTouch Node tab under Commercial Designation. 	
Description	Name of the LED driver, printed on the casing. The list contains all drivers that are available for the selected Driver Type .	
Operating current (mA)	Output current of the LED driver to the Light Source.	As specified in the datasheet of the selected LED driver.
Startup Delay (ms)	Fade-up time of the driver during startup.	Between 70 and 30000

4.4.2 LED Driver – MTP properties

MTP properties are necessary for the **Module Thermal Protection** (MTP), a feature that regulates lamp power when the LED module gets too hot. At a certain temperature the lamp starts to dim in order to control temperature. At a critical temperature level the lamp will switch off completely.

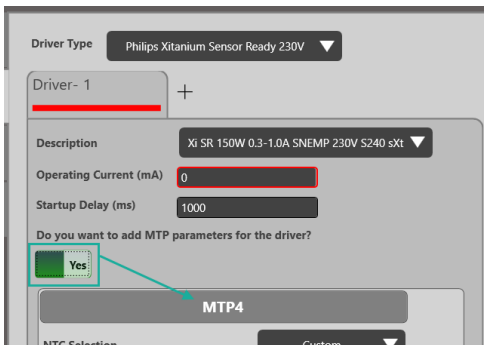
Getting correct MTP values for the driver

1. Open the MultiOne tool and connect the driver to be programmed.
2. Scan the network to find the device. Alternatively, go to **All Devices > Add Virtual Device** and select the correct driver as Virtual Device from the drop-down list.
3. Select the **MTP** tab and set the correct MTP values.
4. Go to **File > Save As**, and select only **MTP** from the **Features** list.
5. Save the xml file.
6. Open the xml file and read the values for the MTP parameters described in the tables below.

Entering MTP properties

To enter MTP properties for the driver, proceed as follows:

1. Click the **Yes/No** slider in the **LED Driver** tab. The MTP parameters section will appear. Depending on the driver choice, the MTP1 profile or the MTP4 profile is automatically selected:



2. Fill in all required parameters.

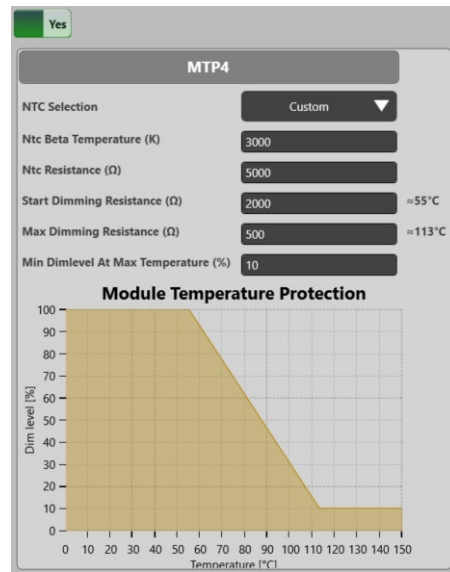
To find out about valid value ranges, move the mouse over the respective field:



The MTP4 resistance values are based on ohm. For your assistance, the approximate values in degree Celsius for **Start** and **Max Dimming Resistance** are also displayed:



3. When all fields are filled with valid values the graph of the **Module Temperature Protection** appears:



Notes

MTP is unavailable for the following **Driver Type** selections:

- All drivers of the type **Osram 4DIM**
- All drivers of the type **Philips Xitanium Sensor Ready 120-277 V**

In MTP4 profiles, the valid value ranges for **Start Dimming Resistance** and **Max Dimming Resistance** depend on the values for **Ntc Beta Temperature** and **Ntc Resistance**: If you change the **Beta Temperature** and **Resistance** values, the valid range for **Start ...** and **Max ...** will also change.

MTP1 properties

MTP1 is automatically selected for **Philips Xitanium programmable** driver types.

Property name	Description	Valid values
NTC Selection	Negative Temperature Coefficient (NTC) resistance.	Predefined: <ul style="list-style-type: none"> • Custom • NTC1 • NTC2
Start Dimming Temperature (°C)	Temperature at which the driver starts dimming.	<ul style="list-style-type: none"> • Between 50 and 105 degrees • At least 5 degrees below Max Dimming Temperature
Max Dimming Temperature (°C)	Temperature at which the driver dims down to the minimum defined dimming light level.	<ul style="list-style-type: none"> • Between 50 and 110 degrees • At least 5 degrees above Start Dimming Temperature
Min Dim Level at Max Temperature (%)	Minimum dimmed light level if the temperature sensor exceed the maximum temperature.	Between 1 and 100

MTP4 properties

MTP4 is automatically selected for **Philips Xitanium FULL programmable** and **Philips Xitanium Sensor Ready** driver types.

Property name	Description	Valid values
NTC Selection	Negative Temperature Coefficient (NTC) resistance.	Predefined: <ul style="list-style-type: none"> • Custom • NTC1 • NTC2
NTC Beta temperature (K)	Constant expressing the dependency of resistance to temperature. This value can be found as parameter Beta in the driver Feature file. The value is only editable if Custom is selected for NTC Selection . For NTC1 and NTC2 , it is predefined.	Between 3000 and 5000
NTC Resistance (Ω)	Resistance of the temperature sensor. This value can be found as parameter R in the driver Feature file. The value is only editable if Custom is selected for NTC Selection . For NTC1 and NTC2 , it is predefined.	Between 5000 and 25000
Start Dimming Resistance (Ω)	Resistance of the NTC at which the driver starts dimming.	<ul style="list-style-type: none"> • Calculated Start Dimming Resistance between 50 and 145 degrees • Start Dimming Resistance at least 5 degrees below Max Dimming Resistance
Max Dimming Resistance (Ω)	Resistance of the NTC at which the driver dims down to the minimum defined dimmed light level.	<ul style="list-style-type: none"> • Calculated Max Dimming Resistance between 55 and 150 degrees • Max Dimming Resistance at least 5 degrees above Start Dimming Resistance
Min DimLevel at Max Temperature (%)	Minimum dimmed light level if the temperature sensor exceeds the maximum resistance.	Between 1 and 100

4.5 LED Module tab

The following sections provide you with explanations for all features and property fields in the **LED Module** tab.

Note

Scenarios with multiple drivers:

You can only define 1 profile for **Lumen Depreciation** and **Constant Light Output (CLO)** per luminaire. In case of multiple LED drivers, all drivers will use the same values.

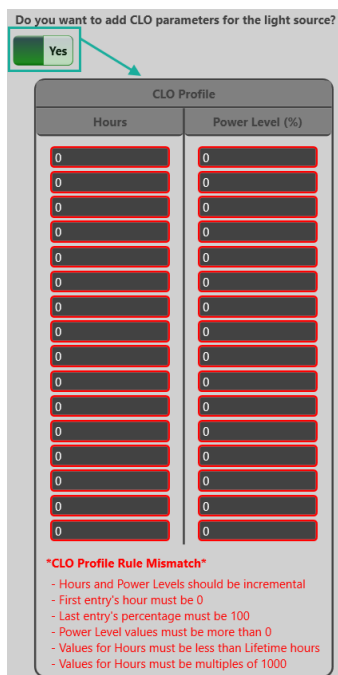
4.5.1 LED Module properties

LED Module property name	Description	Valid values
LED Module type name	Product name of the light engine.	
LED Module brand name	Name of the light engine manufacturer.	
LED color	Select list to define the LED color. Depending on your selection here, further options are enabled or disabled: <ul style="list-style-type: none"> White: Enables Correlated Color Temperature and Color Rendering Index. TunableWhite: Disables Correlated Color Temperature. All other values: Disable Correlated Color Temperature and Color Rendering Index. 	Predefined: <ul style="list-style-type: none"> White TunableWhite ClearField Amber Red Blue Green
Correlated Color Temperature [K]	Correlated color temperature of the LED. This applies to the LED color White only. The value is typically between 3000 and 5700. The value 0 is invalid.	Between 1000 and 10000
Color Rendering Index	Color Rendering Index (CRI). This applies to the LED colors White and TunableWhite . This value is typically between 70 and 80. The value 0 is invalid.	Between 1 and 100
Lumen Depreciation L80 [hours]	L80 lumen depreciation of the Light Source. This value corresponds to the expected operating hours until the light output has diminished to 80% of its initial level. The value 0 is invalid.	Between 1 and 16777216
Optical Distribution Type	Optical distribution of the luminaire, to be defined via the tool's Configuration section.	

4.5.2 Light Source - CLO Properties

The lumen output of an LED module usually decreases over its lifetime. This can be compensated with the Constant Light Output (CLO) feature: a schedule can be created that gradually increases the lamp's power level over time.

To define CLO properties for the light source, click the **Yes/No** slider. The **CLO parameters** section will appear:



Click the slider again to remove the section.

CLO Profile

The CLO profile has to match the following rules:

- Values for **Hours** and **Power Level** should be incremental.
- The first value for **Hours** must be 0.
- The last value for **Power Level** must be 100.
- **Power Level** values must be more than 0.
- Values for **Hours** must be less than the value for **Lifetime (hr)**.
- Values for **Hours** must be multiples of 500.
- You need to specify all 16 sets of values (**Hours/Power level**).
- Set the last entry of **Power Level** to the value **100**.

CLO profile property name	Description	Valid values
Hours	Operating hours for the Power Level in the same line.	Must match the CLO profile rule
Power Level (%)	Power level percentage for the operating hours in the same line.	Must match the CLO profile rule

4.6 CityTouch Node

The following list provides you with explanations for all property fields in the **CityTouch Node** tab.

CityTouch Node property name	Description	Valid values
Description	Type number of the Philips connector node.	
Switching type	<p>Specify here how the node is switched. You have the following options:</p> <ul style="list-style-type: none"> • Switched power grid: Power is switched on/off by switching mains power grid (For example mainland EU). • Sunrise and sunset time: Continuous mains power grid and luminaire is switched on/off by astroclock (Example UK). • Measured light level: Continuous mains power grid and luminaire is switched on/off by photocell (Example UK). 	<p>Predefined:</p> <ul style="list-style-type: none"> • Switched power grid • Sunrise and sunset time • Measured light level
Photocell Levels	Different lux levels at which light is switched off and switched on. This option is only valid and editable with the Switch Regime option Measured light level .	<p>Predefined:</p> <ul style="list-style-type: none"> • Levels_35_18 • Levels_55_28 • Levels_70_35

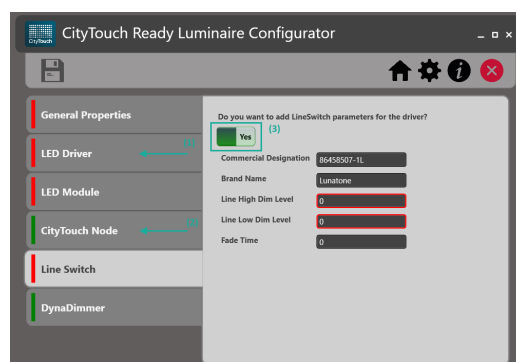
4.7 Line Switch (optional)

Line switch group dimming is supported for Sensor Ready LED drivers. The LineSwitch feature provides an interface to easily dim a group of luminaires via pilot-line.

Sensor Ready LED drivers do not have the LineSwitch feature. Therefore, a separate DALI control module is fitted into the luminaire. The CityTouch Ready Sensor Ready certified luminaires can then be controlled in line switch dimming mode until a Philips connector node is mounted onto the socket. CityTouch supports the Lunatone MC1L LineDimmer.

To see the **Line Switch** tab and its properties, you have to make the following settings:

- In the tab **LED Driver** (1):
For **Driver Type**, select a **Sensor Ready** driver.
- In the tab **CityTouch Node** (2):
For **Description**, select **Test node**.
- In the tab **LineSwitch**, move the slider to **Yes** (3).



Note
You can only activate either the **Line Switch** tab or the **DynaDimmer** tab. You cannot activate them both at a time.

The following list provides you with explanations for all property fields in the Line Switch tab.

Line Switch property name	Description	Valid values
Commercial Designation	Article number of the line dimmer	
Brand Name	Brand name of the line dimmer.	
Line High Dim Level	Light level in % to be set when high voltage is detected on the mains.	Between 1 and 100
Line Low Dim Level	Light level in % to be set when low voltage is detected on the mains.	Between 1 and 100
Fade Time	Fading time in seconds between Line High Dim Level and Line Low Dim Level, and vice versa.	Between 1 and 100

4.8 DynaDimmer (optional)

DynaDimmer is a common feature of LED drivers and is used to dim a stand-alone or non-connected luminaire. If enabled here, the luminaire will run the DynaDimmer **Dim levels schedule** until the customer connects the Philips connector node in the field. As soon as the node is connected, the CityTouch dimming calendar will overrule the DynaDimmer **Dim levels schedule**.

To see the tab **DynaDimmer** and its properties, you have to make the following settings:

- In the tab **LED Driver** (1):
For **Driver Type**, select a **Sensor Ready** driver.
- In the tab **CityTouch Node** (2):
For **Description**, select **Test node**.
- In the tab **DynaDimmer**, move the slider to **Yes** (3).

Do you want to add DynaDimmer parameters for the driver?

Yes (3)

Midnight shift (Minutes)

Hour	Minute	Percentage	Add/Delete
18	0	100	
21	0	80	
0	0	50	
5	30	80	

+

Dim levels schedule

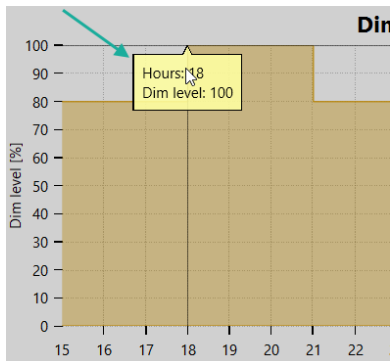
Dim level (%) vs Hours [h]

Hours [h]	Dim level (%)
15	80
16	80
17	80
18	100
19	100
20	100
21	80
22	80
23	80
0	50
1	50
2	50
3	50
4	50
5	80
6	80
7	80
8	80
9	80
10	80

Note
You can only activate either the **Line Switch** tab or the **DynaDimmer** tab. You cannot activate them both at a time.

The following list provides you with explanations for all parameters and functions in the **DynaDimmer** tab.

DynaDimmer parameters & functions	Description	Valid values
Midnight shift [Minutes]	<p>The midnight shift can be used to correct the difference between the “real midnight” (00:00 o’clock) and the “middle of the night period”, that is, the time from powering on to powering off the lights. This night period – and consequently the midnight shift – is calculated depending on the site’s longitude, latitude, and time zone. CityTouch Ready luminaires do not calculate the midnight shift automatically. Use this field to enter the value manually.</p>	Between -120 and 120
Hour/Minute/Percentage	<p>Use these fields to define the start and light level for each dim level:</p> <p>Hour: Enter the full hour for the start of the dim level. Minute: Enter the minutes after the full hour. Percentage: Enter the dimming percentage for the dim level.</p> <p><i>Example:</i> At 6 PM, the lights should be on at 100%. Enter the following values: Hour: 18 Minute: 0 Percentage: 100</p>	<ul style="list-style-type: none">• Hour: Between 0 and 9 OR between 15 and 23• Minute Between 0 and 59• Percentage Between 0 and 100
+ / -	<p>Click the Add button + to define a new dim level. Click the Delete button - to remove an existing dim level.</p>	
Dim levels schedule	<p>This illustration shows you at a glance the effect of your entries. The yellow shape signifies when the lights are on. Click on a position in the shape to see the dim level defined for that time:</p>	



5 Connecting and programming the luminaires

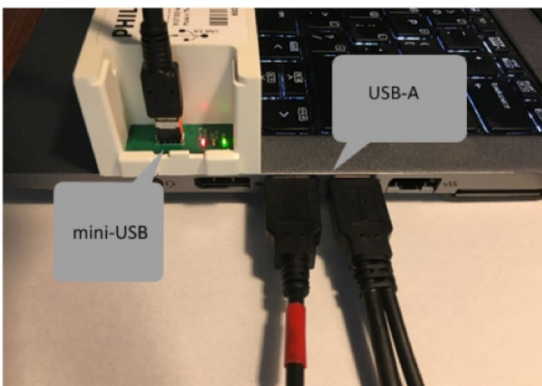
In this chapter, the consecutive steps for connecting the MultiOne USB2DALI interface and programming the luminaires are explained.

- 1 Connect the MultiOne USB2DALI interface to the computer.
- 2 Connect the MultiOne USB2DALI interface to the intra-luminaire DALI bus.
- 3 Launch the CityTouch Ready luminaire configurator software.
- 4 Program the CityTouch Ready luminaire (batch).

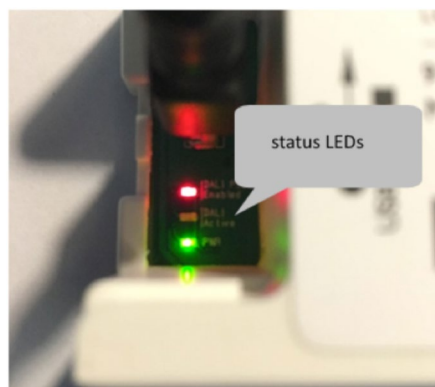
Make sure the steps are followed in this order.

5.1 Connect the MultiOne USB2DALI interface to the computer

- 1 Connect both USB plugs (USB-A) of the provided cable into your computer's USB ports: When only one USB port is available, connect the black USB plug.
- 2 Second, connect the other end of the cable (mini-USB) to the USB2DALI interface.



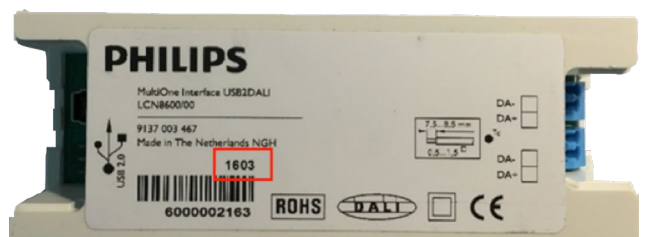
- 3 Make sure that:
 - The DALI power supply is enabled. This is indicated by the **red status LED**.
 - The USB2DALI interface is switched on. This is indicated by the **green blinking status LED**.



If this is not the case, use different USB ports on your computer or use a different MultiOne USB2DALI interface.

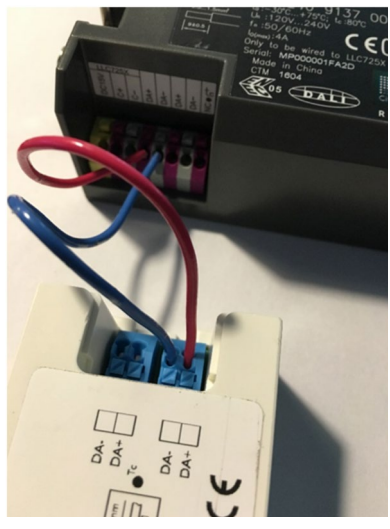
Note

The production date of the MultiOne USB2DALI interface should be 2014 or higher.



5.2 Connect the MultiOne USB2DALI interface to the intra-luminaire DALI bus

Make sure that the DALI wires between the MultiOne USB2DALI interface and the DALI bus in the luminaire are connected with the right polarity (DA+ to DA+ and DA- to DA-). Possible location of connecting DALI wires are free DALI connections on power box.



5.3 Launch the CityTouch Ready luminaire configurator software

Launch the CityTouch Ready luminaire configurator via a shortcut on the desktop or via the Windows Start menu.



5.4 Program the CityTouch Ready luminaire order

During the programming of the CityTouch Ready luminaire, following actions are performed:

- Programming of output current and temperature protection into driver.
- Programming of constant light output and switch regime into CityTouch OLC communication box.
- Reading the serial numbers of the CityTouch OLC communication box, auxiliary power unit and LED driver.
- Testing of system power at maximum and dimmed (50%) drive current.

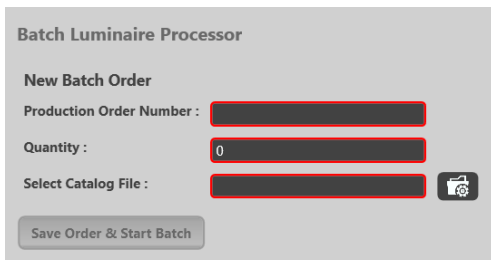
Note
A CityTouch Ready luminaire is only programmable during the first 10 seconds after power-on. In these 10 seconds, a Factory Test firmware in the CityTouch OLC communication box is active and you can click the **Program** button.

After the 10 seconds of the test firmware, programming is no longer possible. You then need to switch off the luminaire and switch it on again.

- 1 Click the **Start New Order** button on the home page:



2 Fill in the fields for the **New Batch Order**:



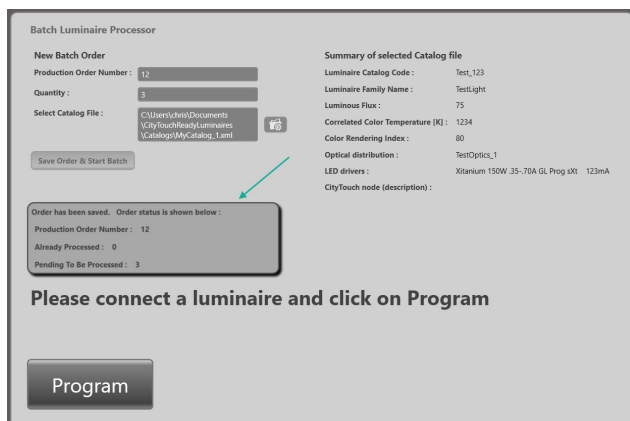
Batch Id: Enter here the ID for this batch of luminaires. This is typically the OEM's or customer's order number. The ID can have a maximum of 10 characters. The following characters are allowed:

- a-z
- A-Z
- 0-9
- and _ and ;

Quantity: Enter here the number of luminaires in this order.

Select Catalog File: Select the catalog file in xml format that contains the asset data of the luminaires in this order. You must select the catalog file from the directory "**...\MyDocuments\CityTouchReadyLuminaires\Catalogs**"

3 Click the **Save Order & Start Batch** button. The order will be saved and you will see an order summary on the right, informing you about key properties in your file. You can now continue with connecting and programming the luminaires. In case of problems with internet connection or credentials, the process will be interrupted and you will be asked to fix the internet connection.



4 Power on the connected luminaire and click **Program**.

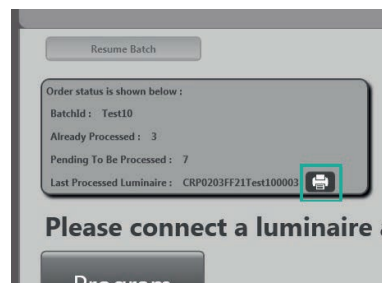
5 When the programming has successfully finished, the **service tag** appears on the programming screen and can be printed as follows:

- **Automatic printing:** This is supported if you are working with DYMO LabelWriter 450 Duo.
- **Manual printing:** You can copy the service tag with **Ctrl + C** or by right-clicking it and then selecting the option **Copy**. You can then paste it to your label printing software. This option is also available in the list of processed luminaires.



Note

With automatic printing and for each programmed luminaire, three copies of the service tag will be printed. If printing is interrupted, e.g. because of an empty cartridge, you can restart printing by clicking the **Print** button behind the name of the **Last Processed Luminaire** in the **Order status** box:



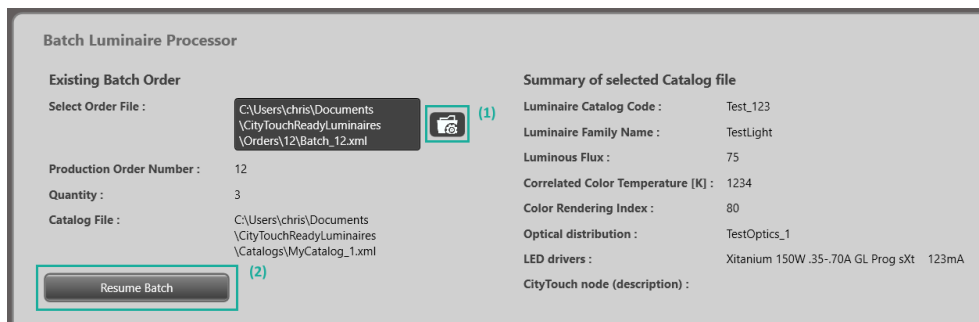
The programmed xml file is automatically uploaded to **CityTouch** via your factory account. You can go back to Step 5.2. to connect the next luminaire for programming.

Notes

Do not disconnect the MultiOne USB2DALI interface from the computer during programming a batch order. In case the MultiOne USB2DALI interface is removed, re-start the CityTouch Ready luminaire configurator.

If you have interrupted the process, proceed as follows to resume it:

Click the **Continue Order** button on the home page, select the existing order file (1), and click **Resume Batch** (2): The catalog summary on the right informs you about key properties in your file:



The xml file that results from the programming process is required for CityTouch to recognize the luminaire. If the xml file is lost or corrupt, CityTouch will not recognize the respective luminaire.

6 Uploading output files via factory account

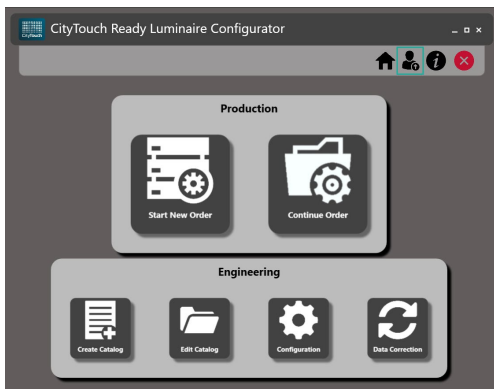
After the luminaire has been programmed successfully, the resulting xml file is automatically uploaded to CityTouch via your factory account. Precondition for the upload is that CityTouch Ready luminaire configurator knows your credentials. For this, the program needs a credential file. You will receive the credential file after signing the CityTouch Ready Luminaire Vendor certification agreement. Proceed as follows to make the file available to CityTouch Ready luminaire configurator:

- 1 Place the credentials file titled Credentials.xml on any location on your computer.

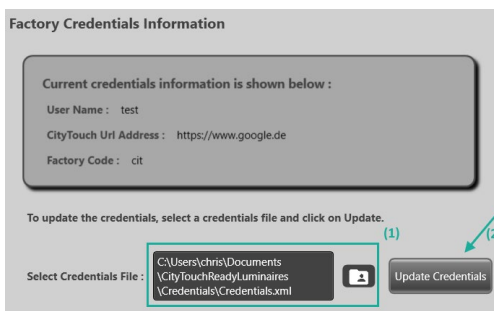
Note

The credentials file must be titled **Credentials.xml**. Do not rename it.

- 2 Click the **Credentials** button in the toolbar on the home page:

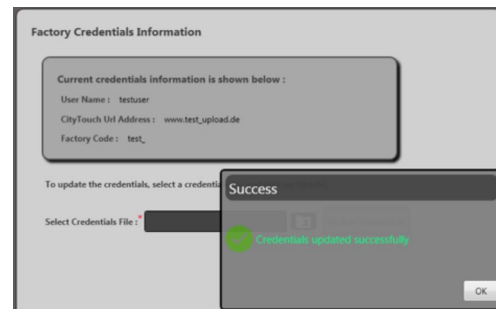


- 3 Search for and select the xml credentials (1) file:



- 4 Click the **Update Credentials** button (2) to start the update process.

- 5 After the successful update, the credentials information will be displayed:



Once the valid credentials are available, the generated xml files are uploaded automatically to the CityTouch server during the programming of each CityTouch Ready luminaire.

Note

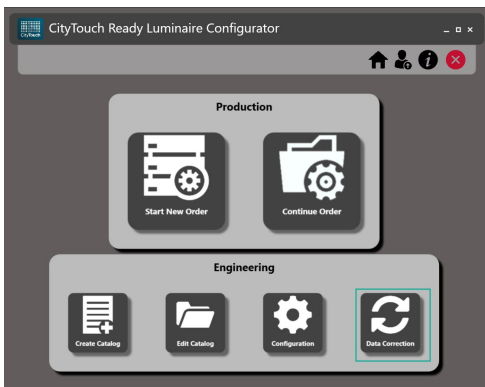
You will also need your credentials if you want to use the **Data Correction** function. This function allows you to retrieve and correct luminaire data.

7 Correcting uploaded output files

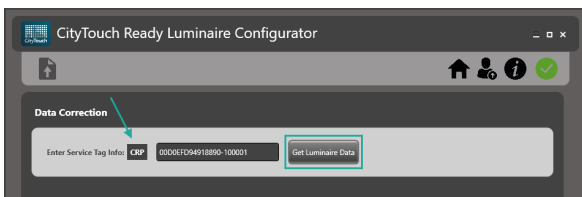
CityTouch Ready luminaire configurator offers you a data correction function to correct luminaire data that has already been programmed and uploaded. The function enables you to retrieve uploaded luminaire data, change it, and then resend it to CityTouch via factory account.

For this function, you will need your credentials file as well as the service tag of the affected luminaire. Proceed as follows to start the correction workflow:

- 1 Click the **Data Correction** button on the home page:



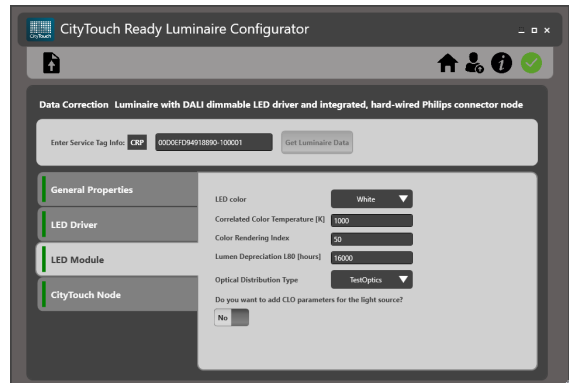
- 2 Enter the service tag of the affected luminaire in the field behind the 3-characters factory code prefix and click the **Get Luminaire Data** button:



Note

The factory code prefix is unique for the production factory and the luminaire vendor. You cannot change the factory code prefix. Therefore, you can only correct data for luminaires that were produced in the corresponding factory.

- 3 The luminaire data that is available for change will be loaded and displayed.



- 4 When your changes are complete, click the **Update AssetData button** in the toolbar. The corrected data is uploaded to CityTouch and the luminaire data will be updated.

Note

To ensure the operability of the programmed luminaire, the workflow is only available for non-critical luminaire properties. You can only change the following properties:

General Properties

- Luminaire Catalog Code
- Luminaire Brand Name
- Luminaire Family Name
- Luminaire Luminous Flux
- Color Rendering Index
- Ambient Temperature
- Electrical Safety Class
- Luminaire Housing Color
- Luminaire Housing Material
- Optical Distribution Type

LED Module Properties

- LED Color
- Correlated Color Temperature
- Color Rendering Index
- Lumen Depreciation
- Optical Distribution Type
- CLO Setting

CityTouch Node properties

- Switching types

8 Troubleshooting

In case you experience errors that you cannot resolve, collect all relevant files and send them to the Signify representative of the CityTouch Ready partner program. The relevant files are:

- The software’s logfile from the date you experienced the error:
`OemUiTool-(date).txt`
- The folder with all generated xml files from the batch with which you experienced the error:
`BatchId`

Finding the software’s logfile

- On your computer, go to your “..\MyDocuments” directory.
- Navigate to the folder:
`CityTouchReadyLuminaires\Logs`
- Select the file `OemUiTool-(date).txt`. `(date)` stands for the date on which the error occurred.

Finding the folder with the generated xml files

- On your computer, go to your “..\MyDocuments” directory.
- Navigate to the folder:
`CityTouchReadyLuminaires\Orders`
- Select the complete folder `BatchId`

Note

The above information on the files’ locations refers to the default file location created by CityTouch Ready luminaire configurator. If you have changed the file location you have to look for the directory **CityTouchReadyLuminaires** and its subdirectories in your customized location.

9 Error messages

9.1 General error messages

Find below general error messages that can occur at any stage of working with CityTouch Ready luminaire configurator.

Error	Root cause	Action
Please check the configured file location path and its contents: [your configured file location path]	The customized file path to the application's directory structure is not accessible or not found.	Click the Configuration button, open the File Location Configuration section and check the following: <ul style="list-style-type: none">• If the file location is on a network drive, check the connection to the network.• Check all individual parts and contents of the configured path. The path components must all be correct and accessible.
Unknown error occurred.		Contact the Signify representative of the CityTouch Ready partner program.

9.2 Error messages during the Create Catalog / Edit Catalog process

Find below error messages that can occur while you are creating or editing a catalog.

Error	Root cause	Action
Luminaire Catalog has invalid configuration values. [Value of missing color] is missing in Luminaire Housing Color configuration.	The Luminaire Housing Color Configuration does not contain the color found in the downloaded luminaire data.	Click the Configuration button and add the missing color configuration.
Luminaire Catalog has invalid configuration values. [Value of missing material] is missing in Luminaire Material configuration.	The Luminaire Housing Material Configuration does not contain the material found in the downloaded luminaire data.	Click the Configuration button and add the missing material configuration.
Luminaire Catalog has invalid configuration values. [Value of missing optics] is missing in Optical Distribution Type configuration.	The Optical Distribution Type Configuration does not contain the optics found in the downloaded luminaire data.	Click the Configuration button and add the missing optics configuration.
Luminaire Catalog has invalid configuration values. [Value of missing Luminaire Family] is missing in Luminaire Family configuration.	The Luminaire Family Configuration does not contain the family name found in the downloaded luminaire data.	Click the Configuration button and add the missing luminaire family configuration.
Luminaire Catalog has invalid configuration values. [Value of missing Luminaire Brand Name] is missing in Luminaire Brand Name configuration.	The Luminaire Brand Name Configuration does not contain the brand name found in the downloaded luminaire data	Click the Configuration button and add the missing brand name configuration.

9.3 Error messages during the Data Correction process

Find below error messages that can occur while you are retrieving and correcting the luminaire data of an already programmed luminaire.

Error	Root cause	Action
Luminaire XML file download failure. Please check your service tag and internet connection.	Invalid service tag.	Check the provided service tag and try again.
Luminaire XML file download failure. Please check your service tag and internet connection.	No internet connection.	Check the internet connection and try again.
Luminaire XML file download failure. Please check your service tag and internet connection.	CityTouch server is not reachable.	Please try again. If the error remains contact the Product Manager of the CityTouch Ready partner program
Luminaire XML file download failure. Access denied by CityTouch.	User credentials are invalid.	Submit a ticket to the online help desk to request a valid CityTouch factory account.
Luminaire XML file download failure. [Cause of error].	General failure while downloading Luminaire data.	Contact the Signify representative of the CityTouch Ready partner program.

9.4 Error messages while programming luminaires



Find below errors that can occur during the luminaire programming process.

Simple error messages

This section, like the sections above, lists errors that can occur during programming and suggests potential root causes as well as possible solutions.

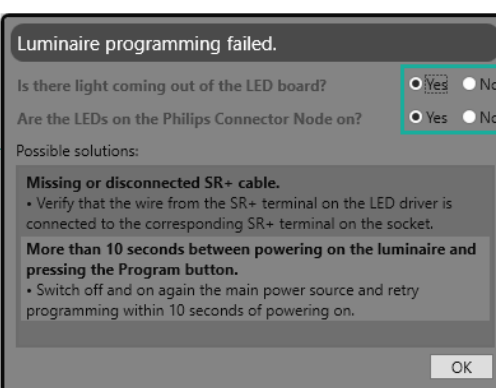
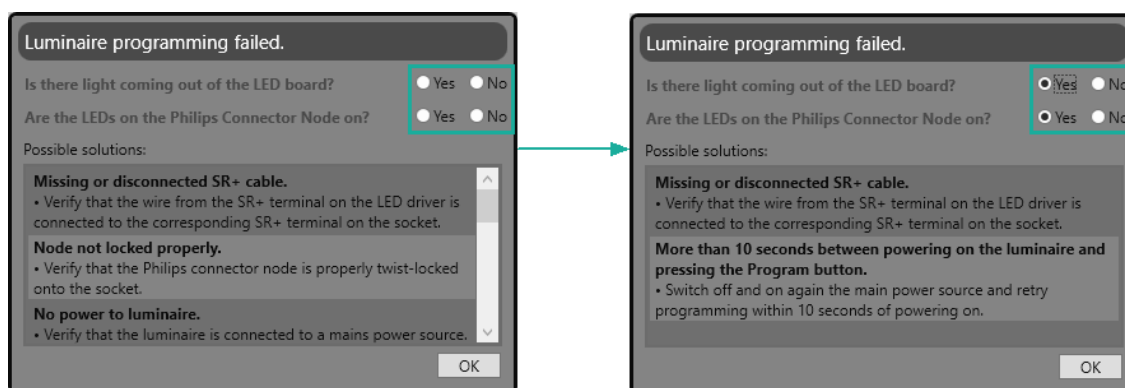
Error	Root cause	Action
Comboxes (LLC7250 and LLC7251) are phased out. Please select one from the available Comboxes.	The Combox defined in the catalog has been phased out.	Click the Edit Catalog button to open the engineering section. Go to the tab CityTouch Node and select a valid Combox.
No internet access. Please fix the internet connection to continue programming.	The connectivity check for the Batch Order feature or the Data Correction feature has detected a problem with the internet connection.	Restore the internet connection and try again.
No USB2DALI interface found.	MultiOne USB2DALI interface not properly recognized.	Remove and plug-in the MultiOne USB cable into the USB plug of the computer.
More than one USB2DALI interface found.	More than one USB2DALI interface connected to the computer.	Connect only one USB2DALI interface to the computer. Restart the CityTouch Ready luminaire configurator .
Failed to connect to USB2DALI interface.	No connection made to the USB2DALI interface.	Please restart CityTouch Ready Luminaire Configurator application.
No Credential Info found. Files will not be uploaded to CityTouch.	No CityTouch factory account available for uploading luminaire data files to the CityTouch server.	Submit a ticket to the online help desk to request a CityTouch factory account.
Luminaire xml file upload failure.	General failure while uploading luminaire data.	Contact the Signify representative of the CityTouch Ready partner program.
Luminaire xml file upload failure. Access denied by CityTouch.	Access to the CityTouch server denied due to invalid CityTouch factory account.	Submit a ticket to the online help desk to request a valid CityTouch factory account.
Luminaire xml file upload failure. Cannot reach CityTouch.	Connection to the CityTouch server cannot be established.	Check the internet connection and try again.
No connected led driver found (light source emits light).	DALI cables between the auxiliary power unit and the LED driver not connected properly.	Check connections of the DALI terminals (DA+/DA-) on the auxiliary power unit to the DALI terminals (DA+/DA-) on the LED driver.

Error	Root cause	Action
No connected led driver found (light source emits no light).	Power cables between the auxiliary power unit and the LED driver not connected properly.	Check connections of the Line-out (Lo) and Neutral-out (No) terminals on the auxiliary power unit to the Line (L) and Neutral (N) terminals on the LED driver.
Light source emits no light during programming.	Power cables between the LED driver and the light source not connected properly.	Check connections of the LED plus and LED minus terminals between the LED driver and the light source.
100% actual wattage is not in range.	Polarity of the power cables between the LED driver and the light source reversed.	Check connections of the LED plus and LED minus terminals on the LED driver to the light source.
100% actual wattage is not in range.	Incorrect system power defined in the catalog file.	Click the Edit Catalog button to open the engineering section. Go to the tab General Properties and select the correct value for Supply Frequency .
100% actual wattage is not in range.	Incorrect supply voltage defined in the catalog file.	Click the Edit Catalog button to open the engineering section. Go to the tab General Properties and select the correct value for Supply Voltage .
LedDriver Name and firmware version does not match with input data.	The connected LED driver(s) do not match the LED driver(s) defined in the catalog file.	You have two options: a Click the Edit Catalog button to open the engineering section. Go to the tab LED Driver and select the correct driver type. b Connect different LED driver(s).
LedDriver Name and firmware version does not match with input data.	The firmware version of the connected LED driver(s) is not in the list of supported CityTouch Ready drivers	Replace the LED driver(s) with a correct firmware version.
Found {x} driver(s) which does not match with the input xml {y} driver(s).	The number of connected LED drivers does not match the number of LED drivers defined in the catalog file.	Click the Edit Catalog button to open the engineering section. Go to the tab LED Driver and adjust the number of LED drivers.
Found {x} driver(s) which does not match with the input xml {y} driver(s).	Power cables between the auxiliary power unit and LED drivers not connected properly.	Check connections of the Line-out (Lo) and Neutral-out (No) terminals on the auxiliary power unit to the Line (L) and Neutral (N) terminals on the LED drivers.

Error	Root cause	Action
Found Combox does not match with input.	The connected CityTouch OLC communication box does not match the communication box defined in the catalog file.	You have two options: a Click the Edit Catalog button to open the engineering section. Go to the tab CityTouch Node and use the Description list to select the communication box. b Connect a different CityTouch OLC communication box.
Dali communication error.		Contact the Signify representative of the CityTouch Ready partner program.
No or invalid credentials info found.	Credentials file is missing.	Click the Credentials button  in the title bar of the home page to check for and update the credentials file and try again.
No or invalid credentials info found.	Credentials file is not a valid XML File.	Click the Credentials button  in the title bar of the home page to check for and update the credentials file and try again.

Interactive solution approach for error “Luminaire programming failed”

The error “Luminaire programming failed” can be caused by a number of different root causes. To support your search for the actual cause, CityTouch Ready luminaire configurator comes with an interactive dialog. As soon as you answer the questions in this dialog, the list of possible root causes and solutions is automatically reduced:



The following table lists all possible causes as well as the actions to solve them. If applicable, it also informs you about the additional observation that will be asked for to confine the problem.

Error / Root cause	Light on LED board?	LEDs on connector node?	Action
More than 10 seconds between powering on the luminaire and pressing the Program button.	On or Off	On or Off	Switch the main power source off and on again and retry programming within 10 seconds of powering on.
No power to luminaire.	Off	Off	Verify that the luminaire is connected to a mains power source.
Node not locked properly.	On	Off	Verify that the Philips connector node is properly twist-locked onto the socket.
Broken LED driver.	Off	Off	Replace the LED driver.
Broken connector node.	Off	Off	Replace the connector node.
Broken connector node.	On	On	Replace the connector node.
The wires between the MultiOne USB2DALI device and the Philips LLC7240 device are missing or loose.	On	On	Verify that the wires between the DALI (DA+, DA-) terminals on the MultiOne USB2DALI interface are connected to the DALI (DA+, DA-) terminals on the Philips LLC7240 device. Polarity of the DALI connections may be disregarded.
The C+ and C- wires between the Philips connector node and the Philips LLC7240 device are reversed.	On	On	Verify that the wires from the C+ and C- terminals on the Philips connector node are connected to the corresponding C+ and C- terminals on the Philips LLC7240 device.
The DC and C+ wires between the Philips connector node and the Philips LLC7240 device are reversed.	On	On	Verify that the wires from the DC15V and C+ terminals on the Philips connector node are connected to the corresponding DC15V and C+ terminals on the Philips LLC7240 device.
This LLC7240 device has been used before and its firmware has been updated, therefore, it cannot be used anymore.	On or Off	On or Off	Replace the Philips LLC7240 device.
Loose C+ wire.	On	On	Verify that the wire from the C+ terminal on the Philips connector node is connected to the corresponding C+ terminal on the Philips LLC7240 device.

Error / Root cause	Light on LED board?	LEDs on connector node?	Action
Loose C- wire.	On	Off	Verify that the wire from the C- terminal on the Philips connector node is connected to the corresponding C- terminal on the Philips LLC7240 device.
Loose DC+15V wire.	On	Off	Verify that the wire from the DC terminal on the Philips connector node is connected to the corresponding DC15V terminal on the Philips LLC7240 device.
Missing or disconnected SR+ cable.	On	On	Verify that the wire from the SR+ terminal on the LED driver is connected to the corresponding SR+ terminal on the socket.
Missing or disconnected SR- cable.	On	Off	Verify that the wire from the SR- terminal on the LED driver is connected to the corresponding SR- terminal on the socket.
Missing or disconnected AUX cable.	On	Off	Verify that the wire from the AUX terminal on the LED driver is connected to the corresponding AUX terminal on the socket.
Mains input wires to LED driver not connected properly.	Off	Off	Verify that the Line (L) and Neutral (N) terminals on the LED driver are connected to a mains power source.
Reversed AUX and SR+ wire.	On	Off	Verify that the wires from the SR+ and AUX terminals on the LED driver are connected to the corresponding SR+ and AUX terminals on the socket.
A driver in this luminaire has already been programmed recently.	n.a.	n.a.	Please use another driver.
A luminaire with this connector node has already been programmed recently.	n.a.	n.a.	Please use another connector node.
A luminaire with this connector node has been programmed before and the connector node has registered to the cellular network. Therefore, this connector node can not be used anymore.	n.a.	n.a.	Please attach another connector node.

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