



## Instruction sheet:

- 1 . Types
- 2 . Family Type panel, how it works
- 3 . Inside the host project



NOTES

# Smart M

## What to look for:

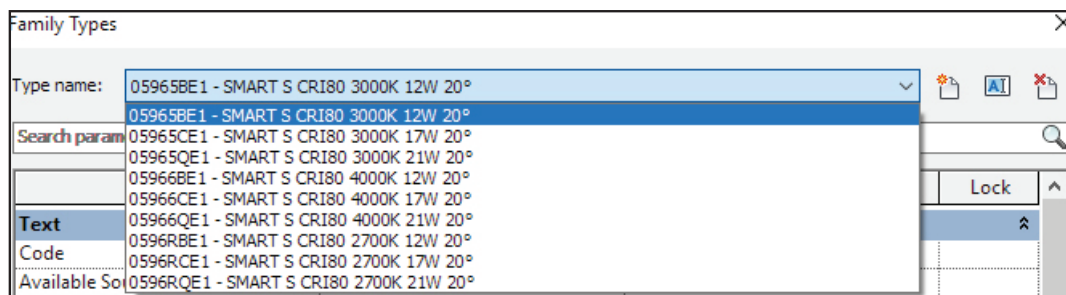
The .rfa file is a "Family" file. It contains a number of 3D models handled by various parameters. In addition to with those models you will find all the necessary information to use them.

### 1 . Types:

Open the file and go to:

Create tab -> Properties tab -> Family types (Image\_1)

Here you can find all the available versions of the product. They have different Color Temperatures (K) and Powers (W) while they have the same beam angle.



\_1



Please note that if you need the same product with different beam angles, you should refer to Ilmas product search application (link) and download it.

Every type is easily identified by a unique code (e.g.) (Image\_2):

- ① Model code (initial 4 numbers)
- ② Color temperature (K) code (a single number or letter)
- ③ Power (W) code (a single number or letter)
- ④ Beam angle code (a single letter)
- ⑤ Standard finishing code (1)
- ⑥ Characteristics recap



\_2

## 2. Family type panel, how it works

### Text info

The first section is about the available versions of the product depending on:

- ① Source quality
- ② Color Temperature
- ③ Beam angle
- ④ Finishing colors
- ⑤ Recap of all the Lighting parameters.



*Please note that accessories such as Reflectors and Drivers must be purchased separately.*

For those accessories you need to identify the correct code from each given info section ( Image\_3 ) and put together the right sequence starting with the 4 numbers that identify the model.

The screenshot shows the 'Family Types' window with a table of parameters. The 'Type name' is '05965BE1 - SMART S CRI80 3000K 12W 20°'. The table has columns: Parameter, Value, Formula, and Lock. The 'Text' section is expanded, showing parameters 1 through 5. An 'Edit Text' dialog box is open, showing a list of reflector codes. The 'Available Color Temperature' parameter is highlighted in red in the table, and its value '2700K (cod.R) - 3000K (cod.5) - 400' is also highlighted in red in the dialog box.

Parameter	Value	Formula	Lock
<b>Text</b>			
Code	0596..... (code to complete)	=	
① Available Source Quality	CRI>80 - CRI>90 - CRI>90Fashio	=	
② Available Color Temperature	2700K (cod.R) - 3000K (cod.5) - 400	=	
③ Available Beam	20° (cod. E) - 40° (cod. N) - 50° (co	=	
④ Available Colors Finishing	White (cod.1)	=	
Available Reflector Colors (Access	CLICK here for INFO ----->	=	
Available Driver			
⑤ Setting of lighting pa			
<b>Materials and Finish</b>			
Color Reflector	CLICK here for INFO ----->		
Colors Finishing	Accessory to be ordered separately REFLECTOR code 0596..		
<b>Electrical</b>			
Wattage Comments	- Reflector matt WHITE (cod.10)		
Lamp	- Reflector matt BLACK (cod.11)		
<b>Electrical Engineering</b>	- Reflector matt CHROME (cod.13)		
Costant current	- Reflector glossy GOLD (cod.14)		
<b>Electrical - Lighting</b>	- Reflector glossy COPPER (cod.15)		
Calculate Coefficient	- Reflector RED (cod.16)		
Coefficient of Utilizat	- Reflector ORANGE (cod.17)		
<b>Electrical - Loads</b>	- Reflector light BLUE (cod.18)		
Apparent Load			
<b>Photometrics</b>			
Tilt Angle			
Beam			



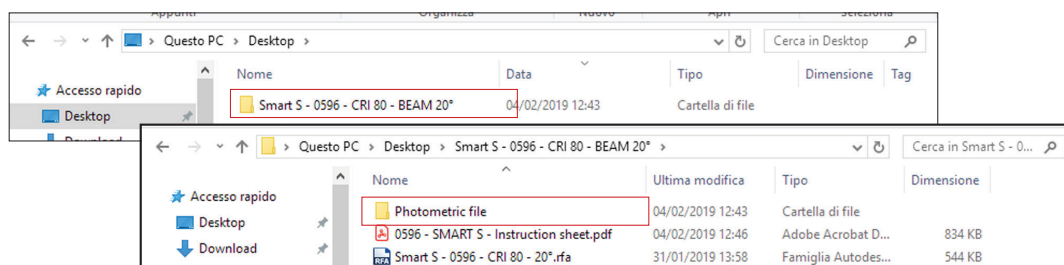
## Electric / Photometric info:

The following part of the interactive panel is about electric and photometric characteristics.



*Please note that this section is given to you already filled with the correct information so you don't need to manually change anything. Each type is ready-to-use.*

Each product type is linked to the proper photometric .ies file. The .ies file will be automatically downloaded within the 3D model and placed in a specific folder. (Image\_4)



\_4



*Please don't change the position of the .ies file or you will need to manually relink it inside the software.*

## Identity data:

The last part of the panel contains some useful links (Image\_5). One that directly takes you to the data sheet of the specific type on the Ilmas website, another one that takes you to the price list request form and the last one that takes you to Ilmas Website.

Here you also have the Model Name, a brief description and an email address to refer to if necessary.

Data sheet	<a href="https://s3-eu-west-1.amazonaws.com">https://s3-eu-west-1.amazonaws.com</a>	=	
Description	Fixed downlight with die-cast alum	=	
Type Image		=	
Info	<a href="mailto:ilmas@ilmas.com">ilmas@ilmas.com</a>	=	
Model	SMART S 0596	=	
Keynote		=	
Price list	<a href="http://www.ilmas.com/en/richie">http://www.ilmas.com/en/richie</a>	=	
Manufacturer	ILMAS s.p.a.	=	
URL	<a href="http://www.ilmas.com/en/index">http://www.ilmas.com/en/index</a>	=	

\_5



*All .rfa files are fully editable but if you need a special product you can ask for the specific file. Do not hesitate to contact us.*



## 3. Inside the host project

### 3.1 How to import a .rfa file

Open your project.

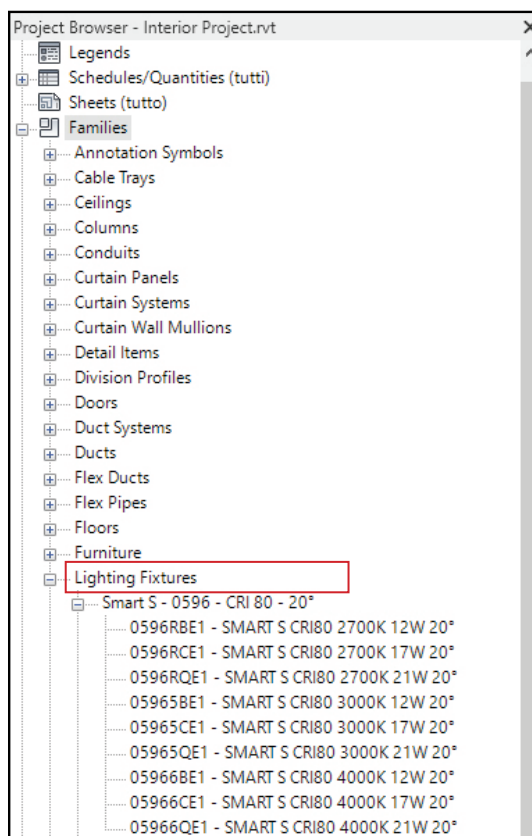
Go to: *Insert* tab. -> *Load from library* -> *Load Family*

Choose the .rfa you have previously downloaded and click open.

Revit will automatically place the Family file in the project Browser under the heading *Families - Lighting fixtures* (Image\_6)

The tree diagram will now show the family types listed under the Family name.

Select the type you want to use according to the characteristics.



\_6

On the right side of your monitor you will find all the object properties that have been already set out. To place the object just drag and drop it from the Project browser to the correct position in your project.



*Please note that the current lighting fixture is designed on a ceiling based Template. It means that you can only place it on an existing ceiling/false ceiling. The software will only allow to drop it there.*

Moreover you will notice that by placing the object on the ceiling/false ceiling it automatically creates an installing opening of an appropriate size.

## 3.2 Moving through the types

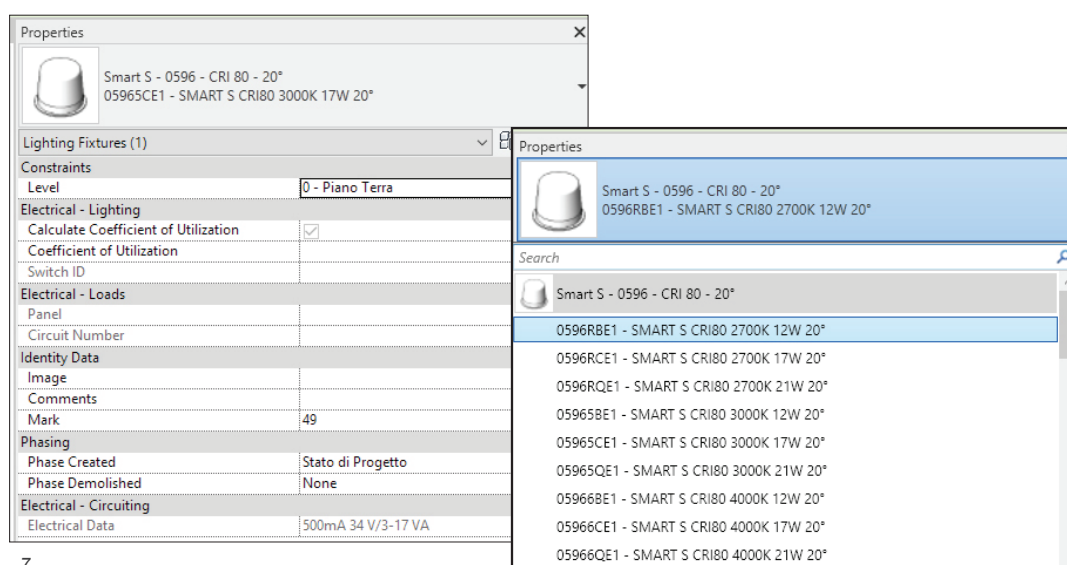
Once you have placed the object you can see the *photometric diagram* in 3D.

If it doesn't happen please check the box *Light Source* in your *Visibility/ Graphic Overrides* options under the heading of *Lighting Fixtures* and select *Apply*.

The useful feature of a Family file is that you can switch from a type to another an endless number of times.

Select it in one of the available views then go to the *Properties* tab on the right side of the monitor and choose a different one from the drop-down menu listing all the types. (Image\_7)

See the Photometric diagram changing in 3D model.

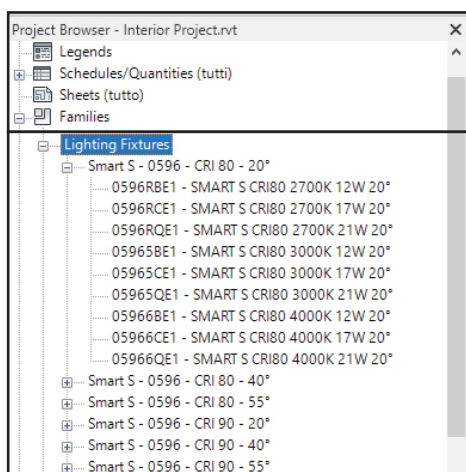


\_7

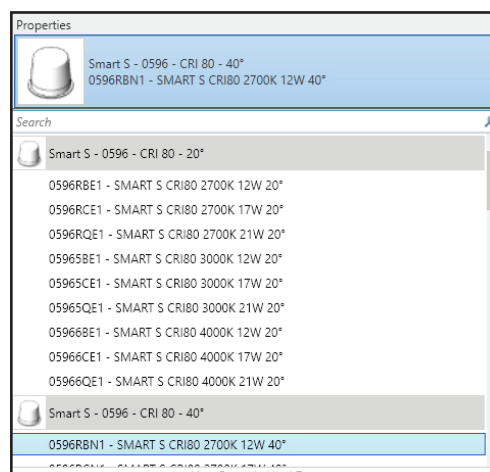


Please note that the same Project can host more than a single Family.

You can download a product (or even a completely different one) in all the existing beam angles and upload every file in the same project. The *Project Browser* updates as it happens and shows all the loaded families (Image\_8). It is now possible to switch not only from a type to another but also from a Family to another without having to remove the old object and place a new one every time. Revit will automatically replace it in the model in the right position. To do so follow the same process previously illustrated. (Image\_9)



\_8



\_9



### 3.3 Accessories, how to choose

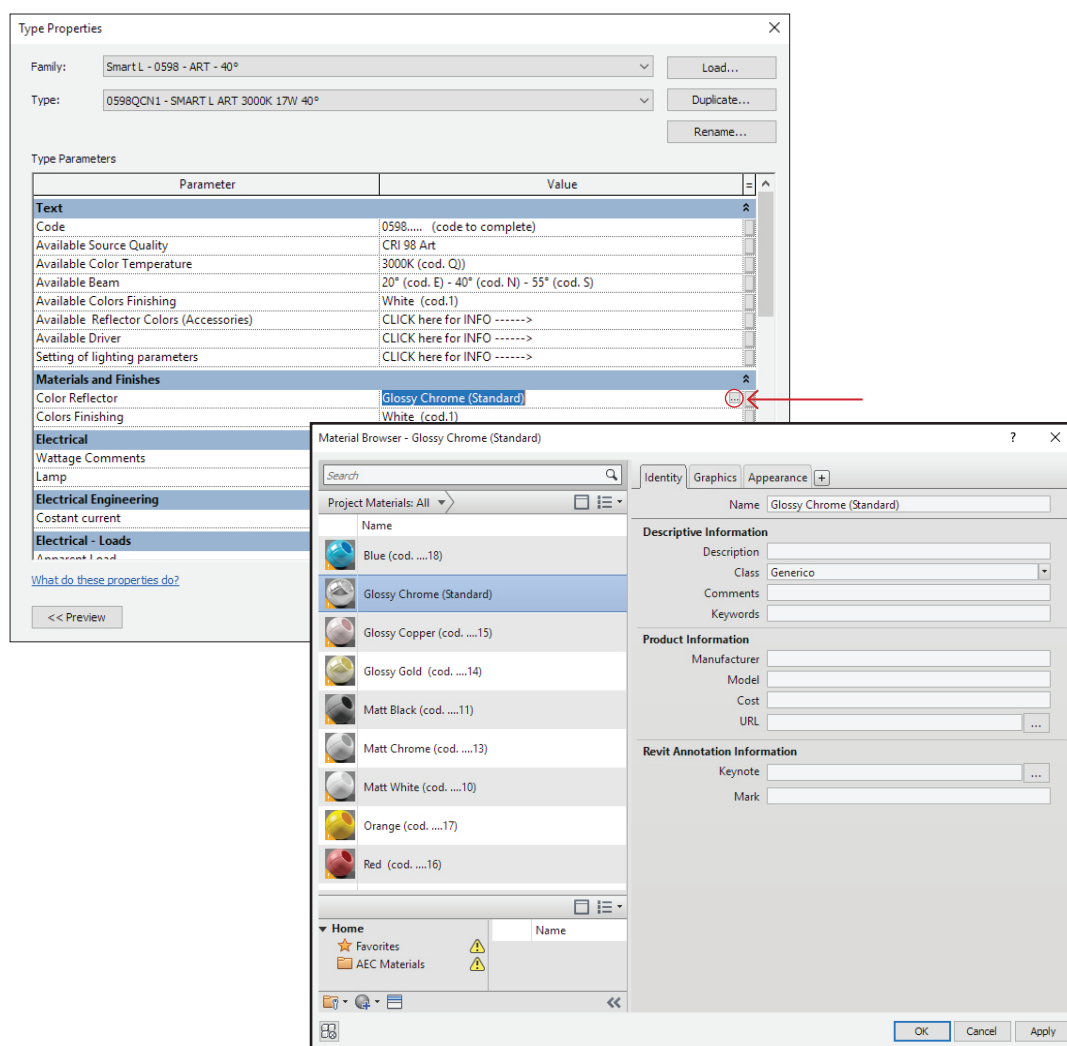
Accessories such as Interchangeable Reflectors and Drivers must be purchased separately (please refer to pg.2 for further explanation on how to put the Code together).

Once loaded in a host project, every Type of every .rfa file offers the possibility to choose and visualize all the available color options for the Reflectors.

Follow the instructions to change the finishing color:

*Left Click* on the object, go to the *Properties* tab on the right side of the monitor and select *Edit Type*.

Go to the second section of the panel that opens and click on the *Reflector Color - Value* line. *Glossy Chrome* is the default option. Please click the dots at the end of the line to open the *Material Browser* and choose among the possibilities. (Image\_10)



\_10



Please keep in mind that by changing the Reflector's color the name and the relative Code of every type does NOT change. If you need to use and catalogue different Reflector finishes for the same product the type will have to be duplicated and saved with a proper name.

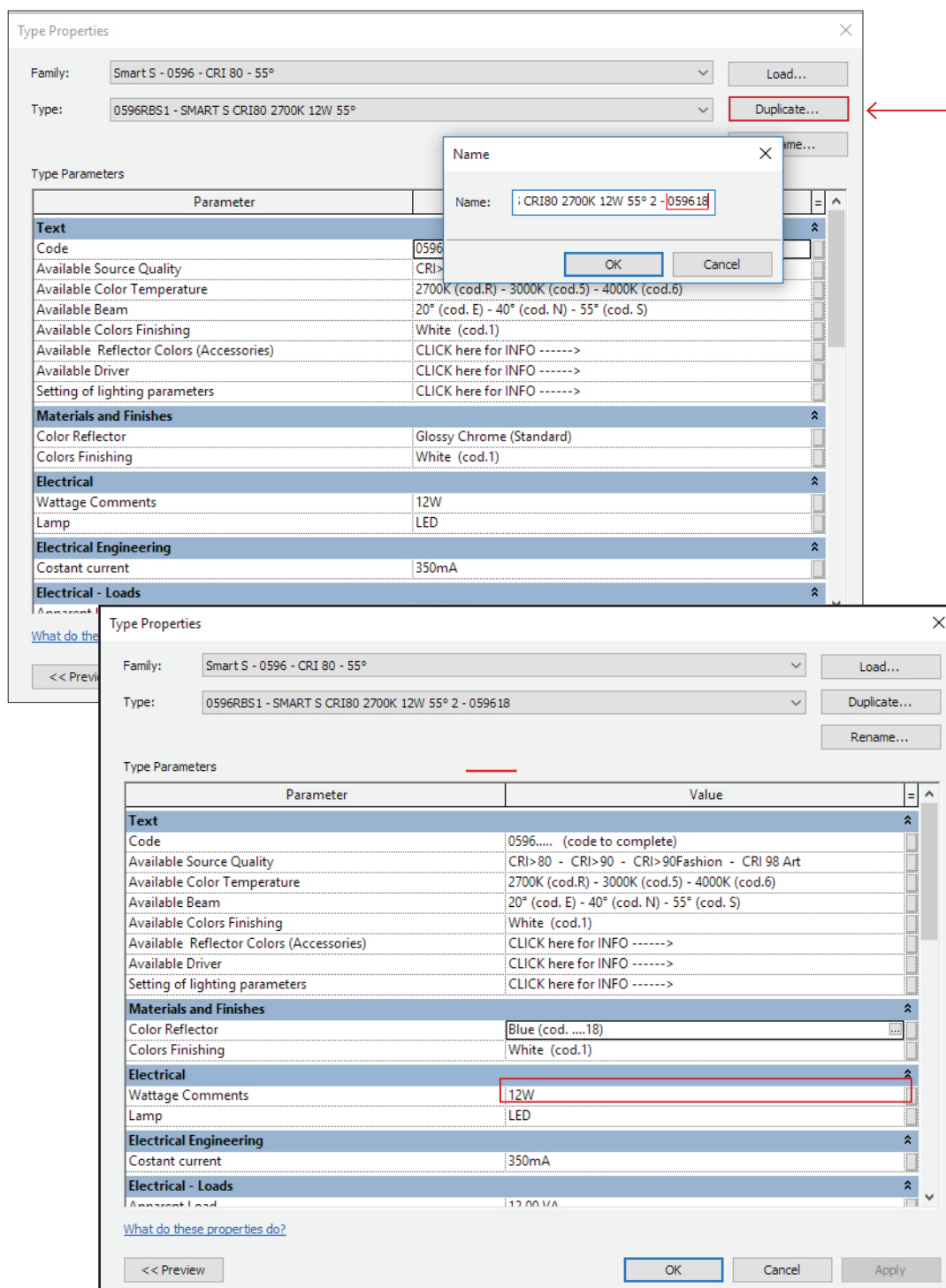




Open the *Type Properties* panel as shown earlier by clicking on *Edit Type*.

Select *Duplicate*, give a new unique name to the object. Maybe incorporate the additional *Code for the Accessories* and *Save*. (Image\_11)

This will allow you to catalogue all the types within a *Schedule of Materials/Objects/Lighting fixtures*.





## Final comments:



All the instruction given here can be applied to all the SMART category products.  
Names and images referring to a specific product are to be intended as an example.

Ilmas S.p.a is always available for any necessity. Please refer to the society contacts for your requests, we will be glad to help.

Dimensions and shapes of the 3D models are indicative. Always check the Data Sheets before your purchase.

Ilmas reserves the right to change Photometric and Electric characteristics of the products without notice. Once again, always refer to Data Sheets for official information.