

Datasheet Photometer

Photometer device

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This document shows technical characteristics of the simulated device Photometer.

VERSION

Version	Date	Description
V1.0	12/03/13	File creation
V1.1	18/03/2013	Major change on properties table
V1.2	15/04/2013	Homogenize properties names

General Description

Photometer can supply only one model of photometer which is a standard photometer.

The photometer returns the value of the current illuminance. This value is expressed as a double, in lux units. We describe in section Photometer device Outline methods linked to this device.

Device properties

Property name	Constant name	Value	Default Value	Type	Modifiable
<code>photometer.currentIlluminance</code>	<code>PHOTOMETER_CURRENT_ILLUMINANCE</code>	[0.0 - undefined]	0.0	Double	No

Note: The property `currentIlluminance` is set by default at 0.0. Then this value can take any double value.

Electro-optical considerations

There is no physical consideration for this type of device. Indeed, this device is used to return a physical value. In our case, we do not care about the way the sensor gives this value.

It is necessary to have the global variable named `Illuminance` in a room if you want to use the Photometer sensor without getting errors.

Photometer device Outline

Hereafter we explain methods that can be useful for the user to use a photometer.

Interface: **fr.liglab.adele.icasa.device.light.Photometer**

<code>getSerialNumber()</code>	Get the device ID
<code>getIlluminance()</code>	Get the current illuminance in lux