

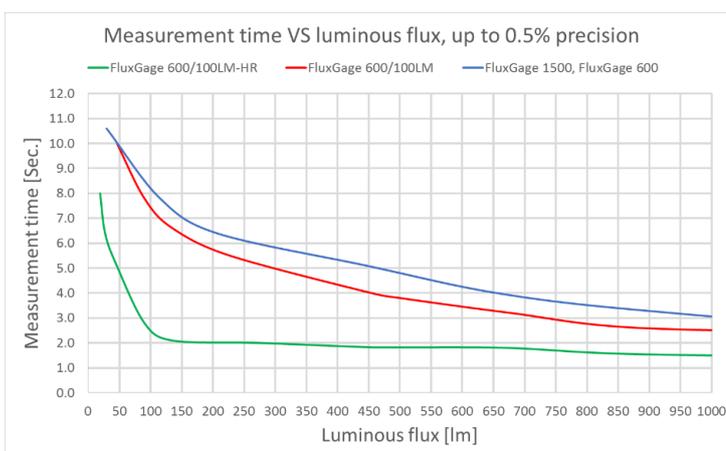
Choosing the optimal FluxGage model for your application

To select the Ophir FluxGage model that will best suit your needs, first consider two questions: What size are the luminaires that you plan to measure (what is their light emitting surface size), and what is their expected luminous flux? The answers to these questions will help you find the right solution. The following table lists the specifications for each of the different FluxGage models:

Model name	FluxGage 600	FluxGage 600/100LM	FluxGage 600/100LM-HR	FluxGage 1500
Maximal size of light emitting surface of the luminaire [cm]	64 X 48	64 X 48	64 X 48	144 X 64
Luminous flux range [lumen]	500-40,000	100-5,000	20-5,000	500-80,000
Measurement time of 4000° K CCT, 1000 lumens LED [sec]	3	3	1.5	3

The table clearly shows that, if you have a luminaire with a light emitting surface larger than 64 x 48 cm in size, your solution is Ophir FluxGage 1500. Otherwise, you should concentrate on the expected luminous flux range: For example, if you intend to measure high-flux luminaires (i.e. higher than 5,000 lumens), then FluxGage 600 is your best option. However, for low-flux applications, you can choose between FluxGage 600/100LM and FluxGage 600/100LM-HR. These two models differ in the type of spectrometer they use. FluxGage 600/100LM-HR includes a low-noise, 2048-pixel CCD spectrometer that offers higher optical resolution and is ideal for faster measurements and extremely low-light levels (20-100 lumens).

The third line of the table is derived from measurements taken using a 4000° K CCT luminaire that emits different flux levels depending on its driving current. The results are given in the following graph:



For the various luminous flux levels (horizontal axis), the time between two consecutive screen updates in the FluxGage software was defined as the measurement time (vertical axis). Naturally, the measurement time decreases as the flux level increases, so at a flux of 5,000 lumens it is less than 2 seconds for all FluxGage models. We verified that the flux precision, i.e. the standard deviation of the flux value, is better than 0.5%. Since all models exhibit highly stable flux values, the FluxGage software only requires an averaging of 1 to obtain these results.