

How to calculate the illumination of premises (rooms)

All payment 2 minutes 2 steps. All quickly and simply Dear readers in this article we will not give detailed complex methods of calculation of lighting won't make You carefully look into building codes and tables to find the desired coefficients. We will tell you how approximately using simplified quick methods to calculate the required lighting of the room as well as how to calculate the necessary for a comfortable lighting number of bulbs. To begin with, we need to know what illuminance is measured in Lux and the Lux luminous flux - in lumens LM. Again, this calculation method of illumination enables us to understand the relationships and intricacies of these quantities. Approach this is simple - we need to know in order to choose the correct lamps and number of lamps for areas of the room. The calculation steps The formula for calculating the luminous flux in lumens LM $SP \text{ luminous flux} = A B C$ where A - standard value of ambient light of the room presented in the table below B - the area of room in sqm In - the ratio of ceiling height to 27 m - 10 27-30 m - 12 m 30-35- 15 35-40 - 20 So we have identified the necessary luminous flux. Now we can calculate the required number of lamps in the room the room. Below is a table where you can choose the number of lamps for areas of the room and compare the popular types of lamps according to their characteristics of light flux and power ratio. The data presented in the table are approximate, depending on manufacturer they can vary. A few small tips on calculating luminous flux and the selection of the number of lamps If You need to calculate the illuminance and the number of bulbs for non-standard spaces with very high ceilings or odd shapes or do You need to find better lighting for room, home or office give us a call and our experts will provide detailed advice and will offer

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