

installation. The Holophane shade is the most scientific shade in the world. I went to this church and was very surprised to see that although the light was very good in some parts of the church, there were spots underneath the gallery which were almost dark. I called up the minister of the church next morning, and asked him what was the matter with it, and he said, "I don't know; I know there is something wrong with it. Do you think you could tell me?" "Well now," I said, "I don't know." He said, "Come down and have a look at it." So I went down, and saw in a moment what was the matter with it. As I said before they used the Holophane shade; under the gallery they used type F or Focusing shade, and type E or Extensive shade up in the dome. "Now," I said, "if you will reverse these, bringing the extensive type E shade down below the gallery and put the focusing type shade up in the dome, you will get much better results." However, he took my advice and reversed them; he is now having good results. As I said, this is the great trouble: people in selecting shades, select the shade which pleases them regardless of efficiency.

Mr. Helps,—

In regard to Mr. Butler's remarks, I might state that the question of indirect lighting fixtures giving a glare is a question of the design of the fixture. I had to abbreviate somewhat and so did not say much about "Holophane." I consider that the Holophane glassware is in a class by itself. There is nothing in the world to compare with it. For scientific reasons, Holophane glassware is the best in the way of prismatic reflectors that this world has ever produced. There is, however, a great deal in what Mr. Butler has said in regard to the choice of the *correct form* of reflector. It is highly important.

What is known as semi-indirect lighting is a mixture. It is a case of mixing indirect lighting with direct. Some of the light is thrown on the ceiling and reflected down into the room, whilst some is permitted to pass down through a translucent glass bowl, which causes a breaking up of the light, sending it off hither and thither. As a matter of fact, it is not very efficient. It relieves the eyes.

I would like to relate to you an incident which has just come to my mind. Some time ago I was given the task of designing the lighting system for a church.

I used a special form of Holophane glassware, and on the first Sunday evening the work was not quite completed. The people said there was not near enough light. "Oh!" I said, "the work is not quite completed,"—there were a few screws to go in, etc. On the following Sunday, they were quite cheerful to see the improvement in the light. They called me up on Mon-