

4 Conclusion

The light shelf system is one of the natural lighting systems designed to reduce the usage of lighting energy in buildings. The installation costs are low and its performance is superior. In the case of the light shelf system proposed in this study, the required luminance can be satisfied to some degree by changing the angle of the light shelf according to the required luminance of the user, and in the case of insufficient luminance, the required luminance can be satisfied through lighting. The efficiency of the light shelf applying user awareness technology can be improved through dimming lighting, and effective energy savings can be achieved as light shelves and lighting can be controlled in response to user needs.

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