ASSESSMENT & PREDICTION OF DAYLIGHT EFFICIENCY
IN SIDE-LIT SPACE IN SINGAPORE

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ABSTRACT

Part I assesses the information established on the daylight source, in relation to the tropical context of Singapore, and covers the key principles determining availability and efficiency of the daylighting system. Visual comfort requirements, or effects on the quality of the daylight source, are assessed against glare and luminance requirements.

Part II makes an assessment of behaviour and efficiency of lighting system with side-lighting as the primary lighting source in selected library spaces in Singapore. The analysis is based on first principles of daylight design. The measure of availability is factored by the Daylight Factor (DF). It serves to highlight the real situation hidden behind design theory.
Design principles are largely gathered from R.G. Hopkinson's book, which is written around methods. The authors have found them useful for the handling of both numerical and qualitative aspects of daylighting (based on work done by Building Research Station in England).

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