

## SIMON DESIGN ENGINEERING LLC

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## MEMORANDUM

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**To:** Drew Swenson  
**cc:** Bill Needleman  
**From:** Alan Simon  
**Date:** February 13, 2007  
**Project:** Ocean Gateway Garage  
**Subject:** Lighting Levels for Ocean Gateway Parking Structure

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The roof and exterior lighting design utilizes the latest in lighting technology. Light levels are maintained at slightly above IES minimums without exceeding the uniformity requirements. The light fixtures utilize an energy efficient fluorescent technology that minimizes light spillage outside the footprint of the parking structure through the usage of cutoff lenses at the garage perimeter.

The design photometric study of the roof and typical floors indicates minimal light spillage at each level. The roof top lighting utilizes lower than typical poles with more fixtures to minimize the light spillage on adjacent properties and maximize the available lighting uniformity. The interior overhead fixtures have internal shields within their housing to maximize up lighting on the ceiling and Louver Modules that disperse the light as required. All of the specified fixtures are specialized for use in urban parking facilities.