

EASY ON THE EYES

Designed on minimalist principals, the Accolade series by Alight, combines clean lines with high performance from a three inch aperture housing. The lighting design for this LEED Gold project, Intuit Regional Headquarters in San Diego, California, required a careful look at energy efficiency and employee comfort, and concluded that the Accolade series would work perfectly in various private offices, cubicle areas and conference rooms in the building.



Architect: Carrier Johnson
Electrical Engineering/Lighting Design: Michael Wall Engineering
Product: accolade⁵, recipient of a Good Design Award, Dec 2008.

Single T5HO lamping is combined with our Aparabola louver, officially recognized by the IES as a “significant advancement in lighting,” being the first to meet the recommended practice for direct distribution in computer intensive evirons. IES RP1-04 recommends an average of 30-foot candles while maintaining no more than 300 candela at 55 degrees (with 90 degree being at horizon, or in this case,

ceiling surface). RP1-04 also addresses the surface brightness of the luminaire aperture. The recommended practice is for a low, even brightness appearance along the illuminated surface of the luminaire, thereby reducing the potential for a distracting light attribute in the space. By using reflection controlled and properly shielded direct distribution, the Aparabola louver presents an effective, low-brightness, direct distribution without glare.

The Intuit project was designed to be Gold LEED certified and the lighting design as a whole performs 16 percent better than Title 24 requirements. In addition to meeting the IES recommendations, the Accolade with aparabola louver can greatly reduce energy consumption, contributing to LEED conformance. A single three inch by four foot T5HO luminaire effectively replaces a standard two foot by four foot 3-lamp T8 troffer, and can achieve as low as 0.7 watts

per square foot when spaced properly. Four fixtures, each with a single, 4ft T5HO lamp, when placed in a 20 by 16 foot space, as seen in the conference room photo, generate a mere 0.76 watts/square foot, while still yielding an average footcandle level in compliance with IES RP1-04.

The Accolade5 with a single T5HO lamp, when applied properly, will significantly reduce wattage consumption, while pleasantly and effectively illuminating the space. Alight challenges the old efficiency primacy equation with our concept of Co-efficient of Illuminance Quality.

The considerations that lead to an effectively illuminated space are what Alight has coined CIQ or Coefficient of Illuminance Quality. The CIQ equals the watts and square feet plus pleasant perception plus prescribed luminance.

The watts per square foot equals the reduced energy consumption. Pleasant perception is the biological needs of the occupants which could be safety, pleasant perception, an interesting environment, or comfortable task engagement. The prescribed luminance is close but necessarily rigid adherence to IES/ANSI recommendations.

Each of these elements affects the other in achieving a well lit environment. By addressing each element relative to the others, the lighting plan evolves into a contributor to the natural environment (reduced energy), people’s appreciation of the architectural environment (perception), and the workers’ capability to complete their tasks comfortably (prescribed illuminance). Alight works closely with lighting and interior designers, architects, and engineers to help them accomplish these tasks.

Accolade housings are made of 60% recycled aluminum in rows or patterns of any length. It adapts to numerous suspended ceilings, shadow molding, gypsum, wood or metal ceilings. It has T5 fluorescent or MR16 accents, lens and wall wash louver options, staggered lamping and wet location specification available.

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