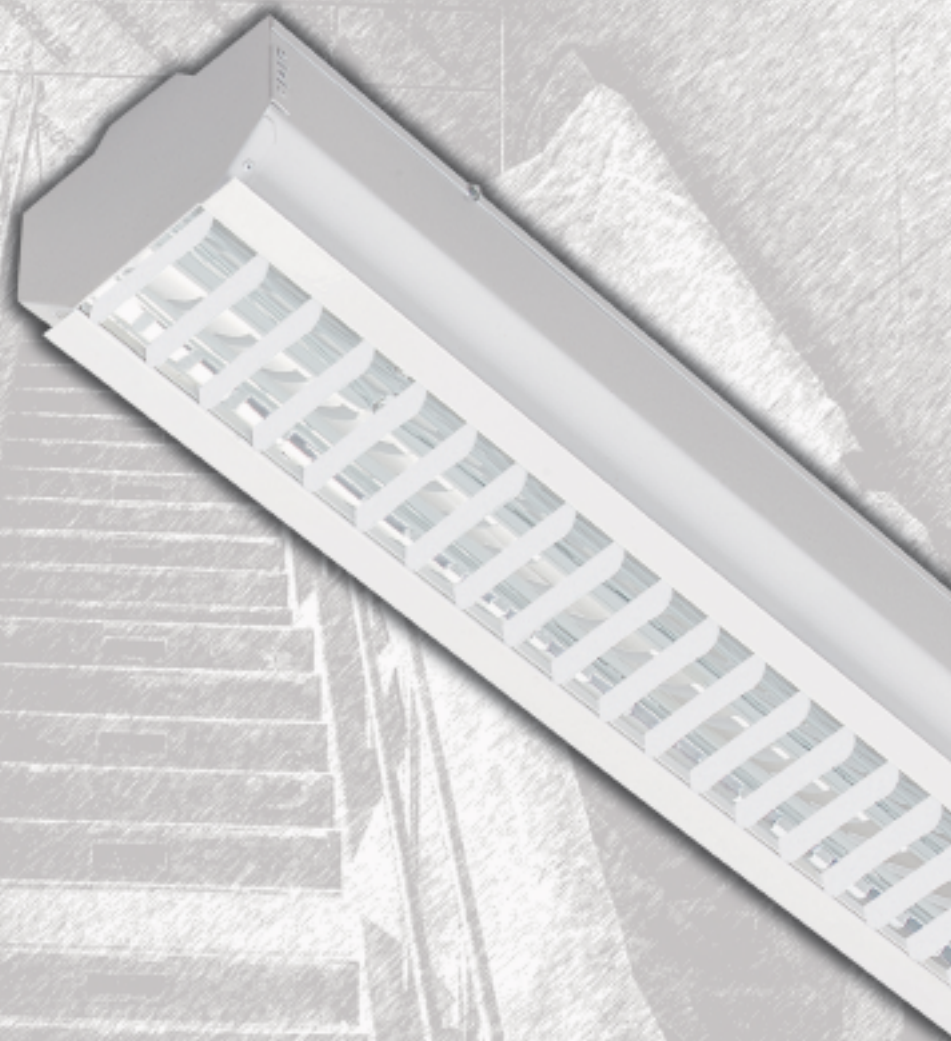


A Study In...

Commercial Lighting

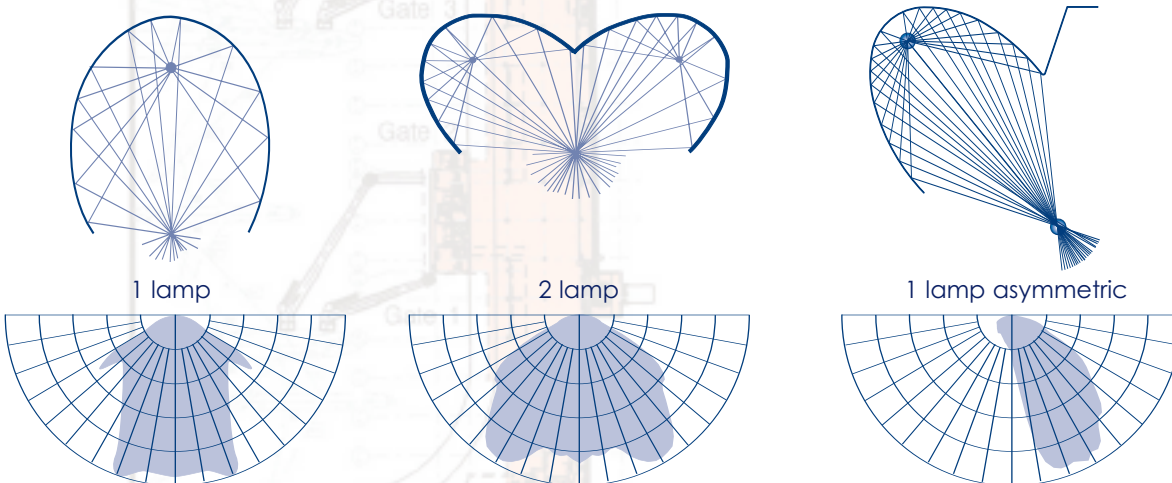


microslot™

International Terminal D in the Dallas/Fort Worth International Airport opens in Summer 2005, equipped with state-of-the-art lighting technology from Day-Brite Lighting. Specifiers chose Day-Brite's MicroSlot™ for its high efficiency output performance and "sleek" appearance. Providing general illumination using T5HO linear luminaires with 3.5" apertures, MicroSlot™ will greet all international passengers arriving at the Terminal and transform their entry to the United States into a "lighting experience."



MicroSlot™ is one of the latest innovations from Day-Brite® Lighting. This luminaire is designed with T5 lamps and patented Optix® Multi-Focus Technology. Utilizing the optical properties of an ellipse, a lamp is placed at one focal point of an elliptical reflector to emit rays of light that bounce off the reflector and converge at the other focal point to form a "virtual lamp." The "virtual lamp" provides significantly better vertical illumination than conventional optical systems, without sacrificing horizontal illumination. This precise optical control also allows the use of a narrow 3-1/2" aperture to radically reduce ceiling usage with no penalty in efficiency. Two lamp models using 54wT5HO lamps provide as much light as a 4 lamp troffer! In most cases, conventional recessed luminaires can be replaced by a smaller number of MicroSlots to provide equivalent horizontal illumination, improved uniformity, superior vertical illumination, and reduced installation and maintenance costs.



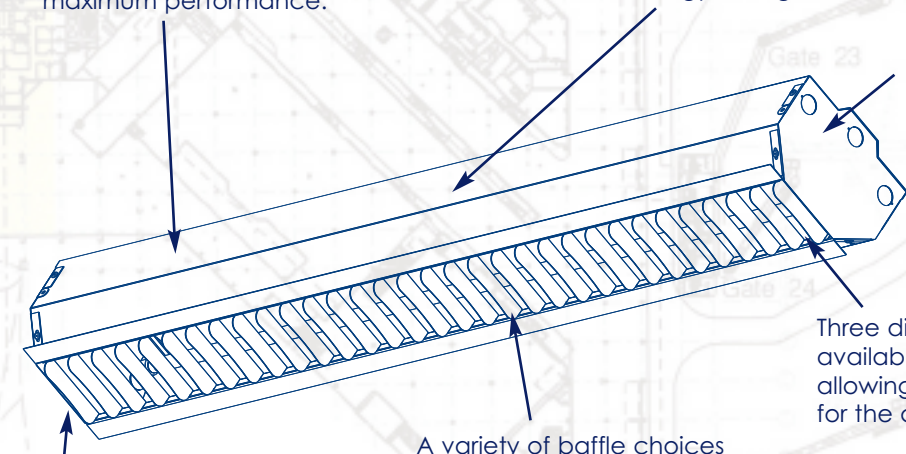
This patented luminaire provides high-impact lighting while minimizing visual impact on the space, so that you see the light and not the luminaire. A 4' MicroSlot consumes 85% less ceiling area than a 2x4 and 71% less than a 2x2 or 1x4, while providing equivalent or superior efficiency. This same narrow aperture is used for 1 lamp symmetric, 1 lamp asymmetric, and 2 lamp symmetric models, allowing optimization of the distribution for the application while maintaining the same appearance. MicroSlot reflectors are Miro® by Alanod providing 95% minimum reflectance with high specularity, and baffles are standard to provide longitudinal shielding. Availability of multiple lengths, ceiling options, emergency ballasts, baffle options, and both high efficiency and high output lamps, creates more application flexibility.

microslot™

Elliptical and Dual-Elliptical reflectors provide highly controlled light distributions for maximum performance.

T5 and T5HO sources deliver high-level illumination and maximize energy savings.

Optix Multi-Focus Technology creates high efficiency, excellent horizontal illumination and outstanding vertical illumination.



3-1/2" aperture minimizes intrusion on ceiling design.

A variety of baffle choices provide longitudinal shielding and aesthetic flexibility.

Three different light distributions are available with the same aperture, allowing the Microslot to be optimized for the application.

“The manufacturer worked with the local distributor to handle our request for storing all luminaires in their warehouses until we needed them since International Terminal D has no storage facilities. We are phasing the lighting in as the work progresses and the luminaires are added when the ceiling grids are completed. The manufacturer provided us with the required filler pans in order to properly fit the luminaires in different ceiling grid configurations. We received support in handling this special request.”

Alan S. Kuhn

—Installing Contractor, Alan Kuhn, Project Manager, Mills Electrical Contractors, DFW International Airport



Approximately 2,500 MicroSlot™ luminaires illuminate the main concourse, the arrival level, and several other general circulation areas of Terminal D. In the main concourse, one lamp luminaires light the perimeter window areas with ceiling height below 10 feet. Spaced ten feet cross-wise and 15 feet length-wise, these luminaires provide general illumination to those window areas directly under the arrival walkway. In the same concourse, where the ceiling areas reach 20 feet, over 900 two lamp luminaires in single row configuration with fifteen foot spacing fulfill the requirement of higher light levels.

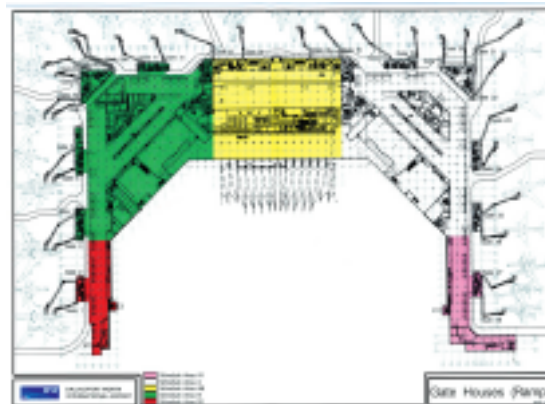
The third level leads to the main INS area and serves as the perimeter walkway for the arriving international passengers. This walkway is visible from the main concourse, but glass walls secure it from the rest of the building. One lamp MicroSlots™ spaced 10 feet cross-wise and 15 feet length-wise provide general illumination throughout the walkway. Also, MicroSlot™ luminaires will service all general circulation areas leading to this walkway and from the gate areas.

At the request of the airport to address additional safety requirements, battery back-ups equip approximately 1100 luminaires (or 46%).

An additional feature of the MicroSlot™ is the availability of customized filler pans to accommodate any type of ceiling configuration and address special construction issues.

INVOLVED PARTIES...

Owner: **DFW International Airport**
General Contractor: **Austin Commercial**
Local Distributor: **Graybar Electric**
Lighting Specifier: **NBBJ, Seattle, WA**
Installing Electrical Contractor: **Mills Electrical Contractors, Dallas/Fort Worth Airport**



NBBJ was responsible for design and development of all architectural lighting for the new International Terminal D at Dallas/Fort Worth International Airport. This includes day lighting and electric lighting system design, as well as documentation of the terminal building, adjacent Grand Hyatt Hotel, terminal connecting skybridge, 8,100 car parking garage, and terminal roadways.

The NBBJ lighting group is founded on the belief that light has the power to reveal and enrich client aspirations and project goals. This core philosophy drives design excellence, illuminating ideas embodied in the site and the design vision. Through close collaboration with clients, architects, interior designers, and environmental graphics designers, the NBBJ team brings highly conceptual ideas to life by designing light rather than lighting.

“MicroSlot was selected as the main system for providing general lighting throughout the entire terminal because we wanted a linear appearance with a sleek and small aperture but with a high enough light output to illuminate low ceiling height areas up to 20 feet.”

—Melanie Taylor, Lighting Designer, NBBJ, Seattle, WA.

Mills Electrical Contractors Mills Electrical Contractors has strategic alliances with eighty-two electrical and communication contractors in over one hundred thirty locations across the United States due to their association with Integrated Electrical Services (IES). In that capacity, they provide innovative engineering techniques, exemplary job site performance, and play a vital role as a member of the construction team. Their multiple operating groups are structured to meet the needs of each client, focusing on projects that best reflect their expertise.



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