

CONVENTION CENTER APPLICATIONS

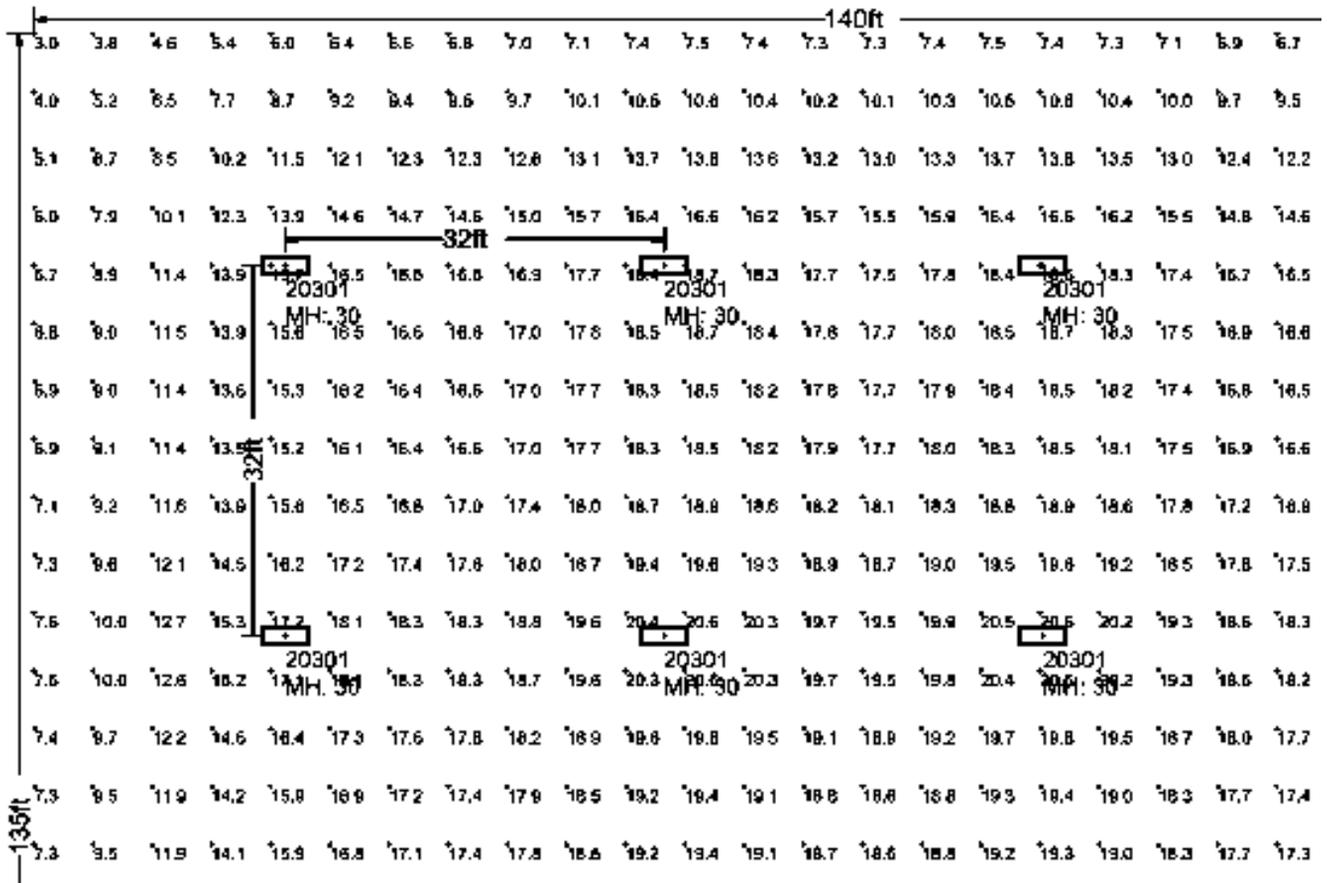
Technology is our specialty:

Convention Center lighting by LaserLight Inc.

Convention Center ceilings are a busy, rough environment for lighting fixtures. Many conventions require additional lighting and sound equipment installed in the ceiling on day-one, and then removed or changed on day four. Booms and other lift equipment that move about the ceiling, impacting the HVAC ducts, clunking into the joists, hitting the light-bars and P.A. speakers . . . And often, damaging the fixed lighting in the ceiling. Standard warehouse-grade lighting equipment is not built to stand up to these impacts. Lighting that is made of glass, thin aluminum, or Acrylic . . . very unforgiving materials when a boom or lift hits them unintentionally. The "industrial grade" LaserLight luminaire is designed to withstand all the abuse listed above and any other "collisions" in a Convention Center ceiling.

Convention Center Point-by-Point Layout

Typical plan-view of convention center floor with LaserLight product at 32 ft spacing and 30ft mounting height. Values shown in grid are Footcandles (for Lux, multiply by 10).



Because you don't need ALL the lights on ALL the TIME

Flexibility makes a difference. Here's how controls are used.

Convention center exposition floor lighting should be like illuminating any large space with a high ceiling, but it is not. Each exhibitor is a separate client with different goals and different needs. Some exhibitors provide their own lighting, others need lighting provided by the venue. This last group may need a high intensity of light, or a low intensity depending on their booth design and their marketing strategy.

Thus, having a lighting system that can cater to individual needs goes a long way to gaining customer satisfaction. Having the ability to quickly change the lighting intensity, per customer request is a benefit to both the customer and the facilities staff.

The lighting "zones" or area for which each fixture provides light, is a more difficult issue. Generally, the "zones" are approximately 30ft square, so exhibitors in ten-by-ten booths will have little choice, and be satisfied with the intensity that their neighbors receive. Exhibitors with large booths 20-by-20ft (including surrounding aisles) or larger will be able to take advantage of the control features available with LaserLight Point/Dim controls.

A user-friendly hand-held remote easily changes the light intensity from the floor with no ladders or lifts needed. The facilities mechanic simply points the control at the end of the fixture and presses the appropriate button (2-lamp, 4-lamp, 6-lamp or OFF) to meet the needs of the exhibitor.

The central controller software allows for scheduled events, and turn lights on, off or to a pre-set "scene" (remembering the custom settings for each exhibitor and re-creating it each day of the convention.)

Convention Center Energy Calculator					
		Cost of Energy (\$/KwH)	\$0.12		
WITH NO CONTROLS (100% or OFF)				3-step dimming	
				With Controls	
Lighting Equipment	Present Lighting HID HighBays	LaserLight Luminaires T5 High Bays	LaserLight Luminaires with Point/Dim controls		
number of lamps/fixt	1	6	6		
Maintained Lumens per lamp	23500	4420	4420		
Lumens per Fixture	23500	26520	26520		
Average Illumination	49	51	variable		
Number of Fixtures	1000	1000	1000		
Cost per fixtures	\$0.00	\$250.00			
Total number of lamps	1000	6000	6000		
Total number of lumens	23500000	26520000	26520000		
Fixture Efficiency	0.889	0.969	0.969		
Effective Lumens to floor	20891500	25697880	25697880		
Watts per fixture	455	356	356/118		
Total Watts	455000	356000			
Number of Hours/year	7200	7200	energy saved 43% Active	Energy Saved	
Cost of Energy	\$393,120.00	\$307,584.00	\$85,536.00	\$181,843.20	\$211,276.80
Cost of Equipment	0	\$250,000.00			\$368,627
Years to pay back			2.9		1.7
WITH POINT/DIM CONTROLS (100% / 67% / 33% / OFF)					

For ordering information, see specification sheet.

LASERLIGHT
LIGHTING AND CONTROLS EQUIPMENT



More light less energy