

# Interior Lighting and Energy Credits in LEED

- How can lighting designs help earn energy based points in LEED?



# Lighting for Open Offices

- New 2-lamp recessed RT5 system
- 30% reduction in energy compared to traditional 3-lamp T8 parabolics



Fixture spacing	8' x 10'
Average illuminance	57 fc
Power density achieved	0.745 w / sf (42.7% below 90.1-2001) (32.2% below 90.1-2004)



# Lighting for Schools

- High efficiency recessed 2'x2' T5HO
- Step level dimming for bi-level control and daylight integration



Fixture spacing	8' x 8'
Average illuminance	45 fc
Power Density Achieved	0.83 watts / sf (48% below 90.1-2001) (40% below 90.1-2004)



# Lighting for Manufacturing

- High efficiency metal halide pulse-start highbay lighting
- 20% reduction in energy from 400w to 320w MH pulse-start



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Fixture spacing	20' x 20'
Average illuminance	38 fc
Power Density Achieved:	0.92 watts / sf (58% below 90.1-2001) (45% below 90.1-2004)

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# Lighting for Warehouses

- High efficiency T5 HO fluorescent lighting
- Reduction in energy compared to MH
  - 37% reduction compared to 250w MH
  - 59% reduction compared to 400w MH



Fixture spacing (4-lamp T5HO)	22' on center in aisles
Average illuminance	24 fc
Power Density Achieved:	0.47 watts / sf (57% below 90.1-2001) (47% below 90.1-2004)



# Lighting for Mega Stores

- High efficiency 6-lamp T8 fluorescent
- Superior color rendition
- Easily dims with skylights



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Fixture spacing	12' x 12'
Average illuminance	58 fc
Power Density Achieved:	1.13 watts / sf (46% below 90.1-2001) (33% below 90.1-2004)

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# Lighting Controls

- Lithonia produces a wide range of control systems for both architectural dimming and lighting energy management. These systems are suitable for applications in high-rise office buildings, multi-building complexes, manufacturing plants and sports facilities.
- Lithonia's control systems dramatically enhance efficiency by governing the amount of light needed to maintain illuminance levels and by limiting light use to occupied spaces.



# Lighting Control Options

Architectural Dimming  
and Switching



Astronomic Timeclock



Flexible Manual  
Override Solutions



Daylight-Responsive Switching  
and Dimming Control



Network and BAS  
Integration



Occupancy Sensing



Telephone Override  
and Modem



DM512 Theatrical  
Interface



A/V System Interface

