



## CASE STUDY:

### Parans Fiber Optic Skylight Installation at the EnviroCenter 7761 Waterloo Road, Jessup, MD 20794

Installation Date: November 28, 2007

Location: The EnviroCenter, Maryland's first green office center and technology demonstration site. Home of the Green Building Institute

Issue: Although most of the building is flooded with natural light, there were a few interior spaces out of reach of traditional daylighting methods.

Result: The Parans Fiber Optic Skylight System was installed to bring natural light deep into interior spaces. Including the front reception area, an interior office and a mechanical room



Left:  
Exterior view of EnviroCenter with Parans SP2 Solar Panel (see orange circle) with 64 sun-tracking Fresnel lenses

Bottom:  
Close up of SP2 Solar Panel, mounted at 39 degree angle to match latitude. Each lens has a 120 degree range of motion on two axis to track and concentrate the sunlight



Left:  
Close up of Parans Optical Cable bundle entering the building through 1.5" conduit





## CASE STUDY:

### Parans Fiber Optic Skylight Installation at the EnviroCenter



Left: Receptionist desk featuring a Parans L1 Luminaire with two fiber optic cables, each 20 meters long. (the two gray cables are visible above the center of the fixture)

11/30/07 at 1:05 PM, light meter reading at desk top was 41 FC



Right: An interior office with a Parans L1 Luminaire with one fiber optic cable, 10 meters long.

11/30/07 at 1:20 PM, light meter reading at desk top was 34 FC



Left: In the mechanical room a Parans L3 Luminaire was installed. This is a small spot light type fixture. (see the orange circle around fixture which is creating the spot light on the floor) This L3 is fed by one fiber optic cable, 10 meters long.

11/30/07 at 1:15 PM, light meter reading at 1 meter from fixture was 251 FC