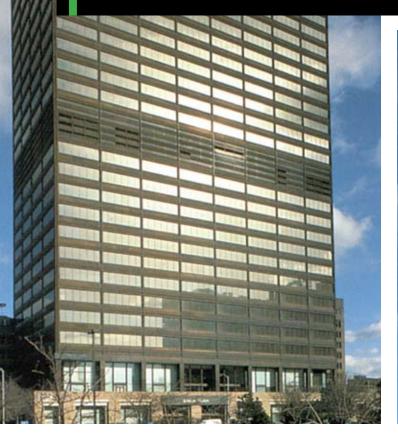
## **Energy efficiency problems solved**



**SITUATION:** Behind the beauty and drama created by the glass facade of the Edison Plaza office building lay a host of challenges for Jessica Sims, a property manager. "During the summer, we'd have to start our two 820-ton chillers at four in the morning to have the building cool enough by nine," said Sims, "and then we'd have to run at capacity for most of the day. But the fact that one side of the building would be freezing while the other was hot told us that the sun was preventing us from maintaining a consistent temperature throughout the building, and that the factory tint in the glass was not sufficient to do the job." Sims also mentioned an additional aesthetic problem created by some tenants drawing blinds to cut the heat or for privacy, which created an unappealing checkerboard effect from the street.

**SOLUTION:** After a lengthy investigation of available films and installers, Sims chose LLumar Low-E 1220 Window Film for all 80,000 square feet (7,432 square meters). "You could feel the difference when you stepped in front of one of the test panels and then back into an untreated area," said Sims. "Since the LLumar Film was installed, the improvement in our ability to control and maintain temperature has been dramatic."

RESULTS: Edison Plaza expects to reduce its annual energy use by at least 5%, partly due to a 82% reduction in summer solar heat gain and a lowering in its chiller capacity from 100% to 80%. Consistency in climate control has been achieved. With the reduced energy usages and a \$24,000 energy rebate, the entire installation will be paid back in less than three years!

Building

Edison Plaza

Location

Detroit, Michigan

LLumar

Film

E-1220 SR CDF (Silver)

Type

Solar Control Film

"Since the LLumar film was installed, the improvement in our ability to control and maintain temperature has been dramatic"

## Performance Data

Low-E Sarias

E-1220 SR CDF (Silver)

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Low-E film provides superior energy conservation by reducing winter heat loss through windows. It is scratch-resistant, shields 99% of UV rays, reduces glare, and has the highest heat rejection performance of all LLumar films. It is suitable for commercial applications where summer and winter energy control are major concerns.

8 58 34 12 66 70 0.77 0.18 99 0.36 0.15 85 0.80 82 25 87