RETAIL
REFRIGERATOR CASES
LED RETROFIT

THE OPPORTUNITY
In typical grocery store with freezer and refrigerator cases, it is possible to provide high quality case lighting that adequately illuminates the product shelving, and greatly reduces the connected load, which in turn helps meet the energy code for retail spaces. This solution is the current best recommended practice for refrigerator cases.

THE SOLUTION
Install surface mounted, vertically oriented, linear LED luminaires in each refrigerator case. Although the IES does not publish illuminance recommendations for this application, this solution exceeds the target illumination of at least 40 footcandles (fc) in standard refrigerator cases. The directional optics of LEDs deliver more light with better uniformity than fluorescent sources, leading to energy savings of greater than fluorescent.

DESIGN CONSIDERATIONS
Freezer and refrigerators are typically kept at temperatures low enough that linear fluorescent lamps often do not operate optimally. LEDs prefer cold temperatures and also provide additional energy savings on average of 20% in cooling costs, making them ideal for this application.
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