Multi-phase project boosts efficiency

Beginning in 2018, Tharp Custom Cabinetry in Loveland upgraded to LED lighting in the manufacturing area of their new facility. More than $128,000 in Efficiency Works rebates helped to minimize up front costs, allowing them to upgrade lighting in both their office and showroom.

“Brighter and more efficient LED lights on our manufacturing floor made a huge difference in our productivity and the mood of everyone on the floor. It was a breeze working with Efficiency Works, they were extremely helpful in advising us on energy savings and helped maximized our incentives through the program.”

Ming Rummery
Executive Vice President
Tharp Custom Cabinetry

### Project details

<table>
<thead>
<tr>
<th>Location</th>
<th>Lights removed</th>
<th>Lights installed</th>
<th>Rebate</th>
<th>Annual kWh savings</th>
<th>Annual cost savings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturing warehouse (Phase 1)</td>
<td>211 metal halide and fluorescent fixtures</td>
<td>157 LED fixtures</td>
<td>$49,068</td>
<td>114,032</td>
<td>$9,009</td>
</tr>
<tr>
<td>Office and showroom</td>
<td>577 metal halide, fluorescent and incandescent fixtures</td>
<td>402 LED fixtures</td>
<td>$50,000</td>
<td>116,243</td>
<td>$9,183</td>
</tr>
<tr>
<td>Manufacturing warehouse (Phase 2)</td>
<td>143 metal halide and fluorescent fixtures</td>
<td>130 LED fixtures</td>
<td>$29,432</td>
<td>91,826</td>
<td>$7,549</td>
</tr>
</tbody>
</table>

### Additional benefits

- An Efficiency Works energy advisor helped Tharp Custom Cabinetry sort through multiple competitive bids from contractors. After the scope was selected, the energy advisor also helped complete incentive applications to ensure quick funding approvals.

- This project was completed in three phases to maximize the incentives and minimize out of pocket expenses. Simple payback periods after incentives were less than two years.
  - Replacement was prioritized based on move in timeline to take advantage of unoccupied areas of the building.
  - Second phase (2019): finished manufacturing area lighting upgrade as well as office and showroom.
  - Third phase (2021): upgraded lighting in previously subleased area of building.

- As they look to the future, facility staff is looking to upgrade exterior lighting and install high efficiency, variable speed compressors, all with the help of the Efficiency Works Business programs.

Energy advisors from Nexant assisted this customer on this project.