



INDUSTRIAL WAREHOUSE SAN DIEGO, CALIFORNIA

Project Scope:

- ✓ Remove 324, T5, 54W Linear Fluorescent Tubes in 54 fixtures with 6 tubes each and remove 3 ballast per fixture.
- ✓ Install 324, Hennessy HD High Output, T5 Tube Light, 20 W, 5000 K and 162, 2 Channel Drivers.

Implementation of an LED lighting upgrade In this industrial warehouse, presented an excellent opportunity to save energy and money, while reducing the environmental impact and increasing the sustainability of the whole facility.

This energy savings project is anticipated to have the following impacts:

- Reduce the electricity demand by **11.7 kW**
- Reduce the electricity consumption by **18,706 kWh** per year
- Reduce the carbon dioxide emissions by **13.2** metric tons per year
- Energy reduction of **65%**.
- Atmospheric Mercury contamination avoided.
- Lighting conditions will improve—uniformity and light levels will increase.
- Save about **\$4,583.00** on the annual electricity bill at current rates
- Save about **\$2,775.00** on the annual maintenance cost
- Section 179 Federal tax deduction of **\$3,775.00**
- Increase in Facility value with a Capitalization Rate of 8.00%, of **\$91,974.00**
- Simple payback of the investment of **2.4** years.

LED's are more appealing, and they will make the property more visible, safe, and inviting. In addition, they will help attract environmentally conscious customers seeking efficient green spaces.

The total cost for the project (LED lamps plus installation labor and materials) was 100% financed with Green Funding, as a lease with, 60 cash flow positive monthly payments.



NEW LED TUBE LIGHTS



Titan LED World Headquarters, 850 East Covey Lane, Phoenix, AZ 85204 P. 623.552.7065



OLD LAMPS



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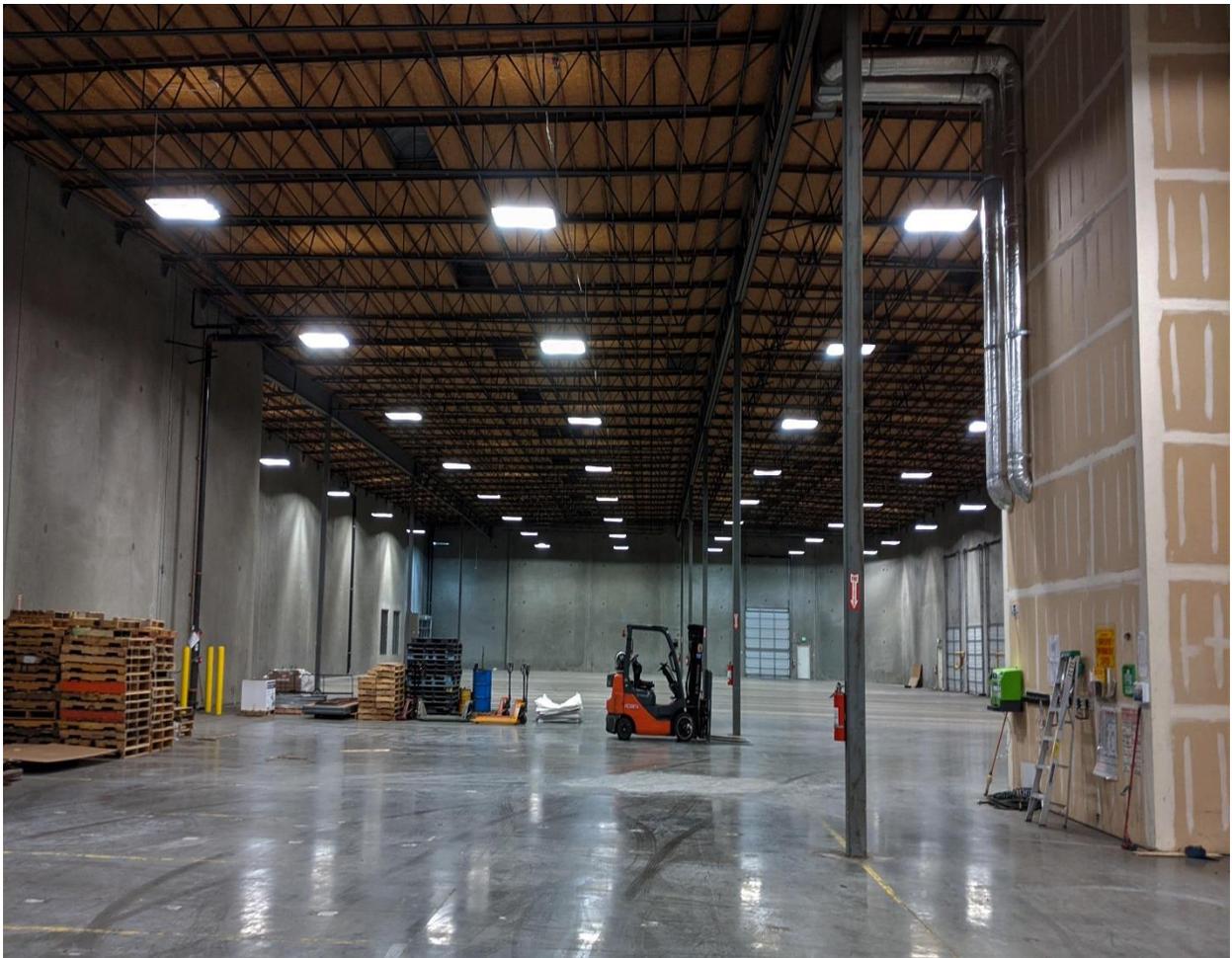
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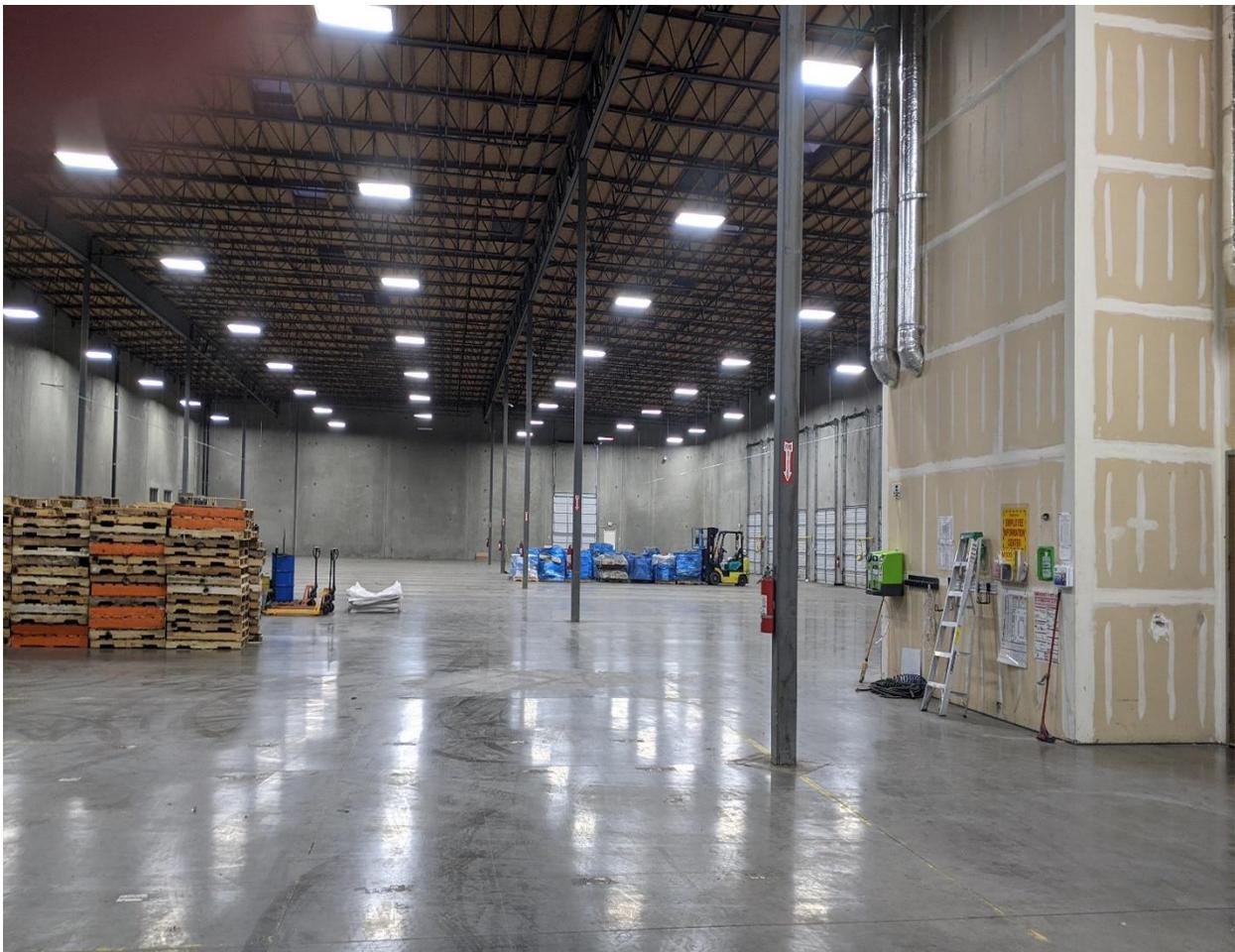
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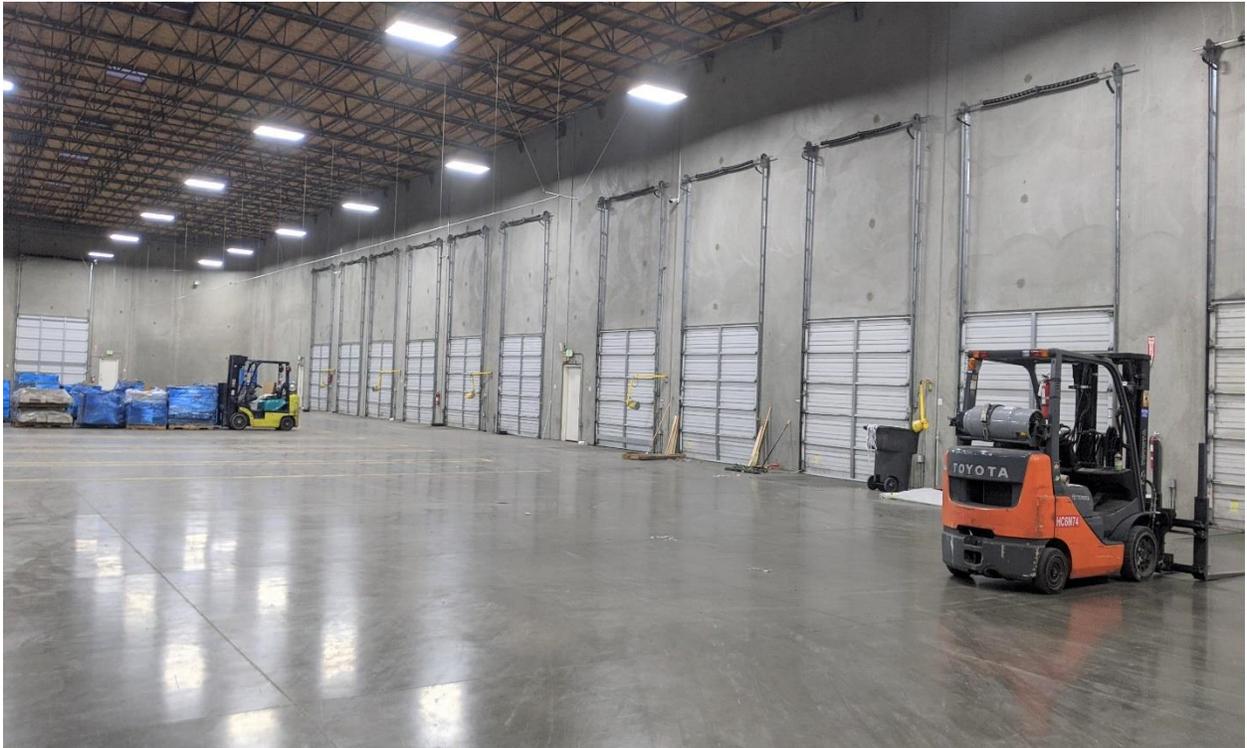
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LIGHT LUMEN INCREASE

ROW NUMBER	LINEAR FLUORESCENT LAMPS LUMEN	TITAN LED T5 TUBE LIGHTS LUMEN	PERCENTAGE DIFFEREN LUMEN INCREASE
1	257	305	19%
2	275	325	18%
3	289	323	12%
4	285	320	12%
5	275	316	15%
6	288	324	13%
7	271	334	23%
8	248	283	14%
AVERAGE	273.5	316.25	16%

Notes.

- This building was built in 2005.
- The lamps replaced are now 15 years old
- The lamps are old but they have very few hours of operation.
- The building has 2 sets of sky lights that provide many hours of sunlight.
- The facility has never been occupied 24 hours a day.
- For all this reasons the Lumen increase is only 16%
- The main area of this warehouse, has a grid of 8 rows with 6 fixtures per row.
- The Lumen readings are from the fixtures in the center row on the right side.