



Ref: CS-TIVTAAM  
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# Tiv-Taam

## Background

Tiv Taam is a high-end delicatessen supermarket chain in Israel and has 15 stores. This case study refers to the design and installation of their new store which opened in 2005.

The original design included: 222 x 400W MH luminaries with magnetic ballasts, where the original illumination requirement was 126 FC (1350 lux) on average.

After discussion with Metrolight, the customer decided to change the design of the lighting system and reduce the number of luminaries to 167 x 350W MH luminaries with SuperHID, without compromising on illumination level.

Due to the reduced number of luminaries, the initial cost of installation with SuperHID electronic ballast was lower than with magnetic ballast!

## Summary of Results

	Magnetic	SuperHID
Number of lamps	222	167
Lamp wattage / Setup	400W	350W
Ballast type	Magnetic	SuperHID-350MH
Light output FC (lux)	FC 126 (1350 lux)	FC 126 (1350lux)
Price per KWH	\$0.12	\$0.12
Annual power consumption KWH	601,361	358,993
Annual cost (US\$)	\$69,491	\$41,484
10 years maintenance cost <sup>(1)</sup> (US\$)	\$88,890	\$28,850
Initial Cost (US\$)	\$106,141	\$91,344
Total 10 years cost (US\$)	\$889,936	\$534,831
<b>Total 10 years saving</b>		<b>\$355,105</b>

Notes:

(1) Relamping every 2 years with magnetic ballast and 5 years with SuperHID