

COST ANALYSIS

Schain Mold & Engineering **Interior and Exterior**

Rochester Hills, MI 48309

Project Cost \$45,431.85

DTE Incentive \$23,373.13

Retrofit Costs (With Rebates) \$22,058.72

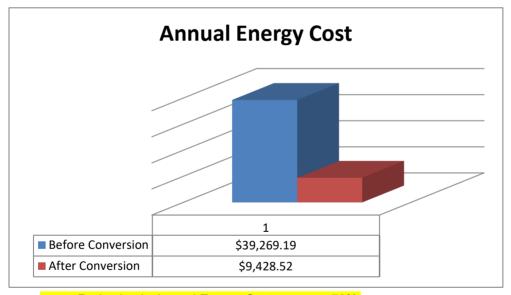
Annual Energy Savings \$29,840.68

Project Pay Back Period 9 Months

Return on Investment Thru 5 years 519.54%

> Project Cost- DTE Incentive Annual Energy Savings Project pay back period equal to

Project Cost less DTE Incentive divided by Annual Energy Savings



Reduction in Annual Energy Cost

EcoAdvantage: CO2 Emissions Reduction

352662.554 Lbs.

SUV's off the road



91 High bays,400w MH - 120 watt LED 8 Wall pack, 400w MH - 80w LED 9 High bays,400w MH - 18.5 watt LED



Schain Mold & Engineering

3/4/2015

Power Usage Sheet

Interior and Exterior

DTE

rate/kw 0.11

Presently installed lighting plant

DTE REF	QTY	DESCRIPTION	Watts Per	watts per	Watts Used	watts Used	Annual Hours	Annual KWH	Annual KWH	Annual energy cost	Data Reference	Page
8-18	7	400w MH lamp/ballast M400MLTAC4M	458	458	3206	3206	4380	14042.3	14042.3	\$1,544.65	Sect_5_HID.pdf	20
8-13	91	400w MH lamp/ballast M400MLTAC4M	458	458	41678	41678	7488	312085	312085	\$34,329.34	Sect_5_HID.pdf	20
8-14	9	400w MH lamp/ballast M400MLTAC4M	458	458	4122	4122	7488	30865.5	30865.5	\$3,395.21	Sect_5_HID.pdf	20

41.678

107 Units **Totals 356993 356993 \$39,269.19**

Proposed lighting plant

DTE REF	QTY	DESCRIPTION	Watts Per	DTE watts per	Watts Used	DTE watts Used	Annual Hours	Annual KWH	DTE Annual KWH	Annual energy cost	Data Reference	Page
8-18	7	80w 6700k LED CRN-80-HO	88	88	616	616	4380	2698.08	2698.08	\$296.79	CRN-80-HO.pdf	
8-13	91	120w 6700k LED CRN-150-HO	120	120	10920	10920	7488	81769	81769	\$8,994.59	CRN-120-HO.pdf	
											soraa-00807-	
8-14	9	18.5w 5000k PAR30 LED 36°	18.5	18.5	166.5	166.5	7488	1246.75	1246.75	\$137.14	spec.pdf	

10.92

107 Units **Totals 85713.8 85713.8 \$9,428.52**

Measure cost DTE Allowed KWH Savings

Proposed lighting plant 271279

Actual Kw savings 271279

Total Annual Savings \$29,840.68

Before Conversion \$39,269.19 After Conversion \$9,428.52

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Schain Mold & Engineering Scope of Work Interior and Exterior

DTE REF

Interior High Bays Main Shop

- **8-13** Qty (76) 400 watt Metal Halide fixture retrofitted to 120 watt LED CRN lamp **Side Shop**
- **8-13** Qty (15) 400 watt Metal Halide Fixture retrofitted to 120 watt LED CRN lamp **Lobby**
- 8-14 Qty (9) 400 watt Metal Halide Fixture retrofitted to 18.5 watt PAR30 LED 36° lamp

Exterior Wall Packs

8-18 Qty (7) 400 watt Metal Halide fixture retrofitted to 80 watt LED CRN lamp

Hours
24
24
24
24
24
24
144
7488

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