

LED Lighting Proposal

PREPARED FOR:



516 N. Orient St
Parchment, MI 49004

Central Elementary School

*Scope: Upgrade Non-LED Lighting Across Elementary School to LED
Using Retrofit Approach*

Presented By:

Energy Harness Corporation as of April 2025



Note: The prices in this document are confidential and should not be shared with any vendors.

Customized LED Lighting Audit

Prepared For Central Elementary School

Thank you for giving Energy Harness Corporation an opportunity to show what we can do for your facility's lighting.

Electrical Consumption

Current Lighting Energy Consumption	97,152 kWh/Year
LED Replacement Energy Consumption	40,661 kWh/Year

Total Electricity Wasted	56,491 kWh/Year
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Total Electricity Wasted (58%)	1/2
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Project Value *kWh cost \$0.1200

	Monthly	Yearly
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Current Electric Expense	\$972	\$11,664
Future Electric Expense	\$407	\$4,884

Total Electric Waste	\$565	\$6,780
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Estimated Maintenance Cost	\$317	\$3,804
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Total Cost of Waiting to Upgrade	\$882	\$10,584
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Project Investment

Materials and Installation	\$22,031.11
Down Payment for Site Audit	\$0.00

Total Project Investment	\$22,031.11
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Estimated Incentives:

Estimated Utility Rebate	(\$3,039.00)
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Total Out-of-Pocket Investment	\$18,992.11
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Estimated Return on Investment (ROI)

Including yearly maintenance savings	22 months
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TOTAL SAVINGS OVER PROJECT LIFE** (11 Years)	\$97,431.89
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**at today's electric cost

LED Lighting Benefits For Central Elementary School

Thank you for giving Energy Harness Corporation an opportunity to show what we can do for your facility's lighting.

Primary Client Benefits

- Electrical kWh cost savings of **58%**
- Dramatically improved lighting
- Eliminate lighting maintenance costs

Additional Value Added Benefits

- Long lasting lighting (8 times longer than existing fluorescent lighting)
- No light degradation over lifespan of lighting system
- Instant on lighting (no warm up period required)
- 5 year limited parts and labor

Installation and Follow-Up Process (What you can expect from Energy Harness)

1. @ 30 - 45 days: Installation is scheduled and performed
2. @ 90 days: Initial lighting inspection performed
3. @ 365 days: Yearly assessment performed

Environmental Impact

This savings of 56,491 kWh per year is equivalent to:

- Greenhouse gas emissions from
 - **6** gasoline-powered passenger vehicles driven for one year.
 - **60234** miles driven by an average gasoline-powered passenger vehicle.
 - CO₂ emissions from
 - **2650** gallons of gasoline consumed.
 - **25955** pounds of coal burned.
 - **5** homes' electricity use for one year.
 - **1554779** smartphones charged.
 - Greenhouse gas emissions avoided by
 - **8** tons of waste recycled instead of landfilled.
 - Carbon sequestered by
 - **28** acres of U.S. forests in one year.
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Project Investment (Total Materials)

Description	Qty	Unit Price	Ext. Price
EHB-PL-0940K-G24Q-277 Frosted PL bulb 9W 4000K G24Q (Non-Dimmable) 120V-277V Frosted	4	\$28.75	\$115.00
EHD8-18W-CCT-277-D010 LED Down Light 18W 8" Round Trim..CCT Tunable 2700K-3000K-3500K-4000K-5000K..Wattage Tunable 15W-18W..120-277VAC 0-10V dimmable	6	\$92.40	\$554.40
EHL48-T815-40K-F-BBU Linear 4' T8 15W LED Tube light 4000K Integrated BBU and Test Button..Frosted cover 1900lm	6	\$147.92	\$887.52
EHL48-T816-40K-F-UEP Linear 4' T8 16W LED Tube light 4000K Frosted cover 1800lm..Universal Ended Power	1032	\$14.95	\$15,428.40
EHLR24-T809-40K-SF Linear 2' G13-Rotating Pins T8 9W LED Tube light 4000K Semi-frosted	2	\$18.50	\$37.00
		Total Materials	\$17,022.32
		Sales Tax (0.00%)	\$0.00
		Sub Total	\$17,022.32
		Installation	\$5,008.79
		Project Invoice Amount	\$22,031.11
		Utility Rebate	(\$3,039.00)
		Total Out-Of-Pocket Investment	\$18,992.11
		Estimated Contingent Expenses:	\$2,244.00
See Contingency Table for details.			

Project Pricing Breakdown

	Description	Qty	Unit Price	Ext. Price
43%	Restrooms			
	EHL48-T816-40K-F-UEP Linear 4' T8 16W LED Tube light 4000K Frosted cover 1800lm..Universal Ended Power <i>Replaces – Ballast Comp 14W LED Tube</i>	6	\$14.95	\$89.70
	EHL48-T816-40K-F-UEP Linear 4' T8 16W LED Tube light 4000K Frosted cover 1800lm..Universal Ended Power <i>Replaces – T8 4' 32W Fluor. Tube Std</i>	8	\$14.95	\$119.60
	Installation			<u>\$64.14</u>
			Sub Total	\$273.44
50%	Hallways/Entryways/Foyers			
	EHB-PL-0940K-G24Q-277 Frosted PL bulb 9W 4000K G24Q (Non-Dimmable) 120V-277V Frosted <i>Replaces – 26W CFL bulb</i>	2	\$28.75	\$57.50
	EHB-PL-0940K-G24Q-277 Frosted PL bulb 9W 4000K G24Q (Non-Dimmable) 120V-277V Frosted <i>Replaces – 32W CFL bulb</i>	2	\$28.75	\$57.50
	EHL48-T816-40K-F-UEP Linear 4' T8 16W LED Tube light 4000K Frosted cover 1800lm..Universal Ended Power <i>Replaces – Ballast Comp 14W LED Tube</i>	42	\$14.95	\$627.90
	EHL48-T816-40K-F-UEP Linear 4' T8 16W LED Tube light 4000K Frosted cover 1800lm..Universal Ended Power <i>Replaces – T8 4' 32W Fluor. Tube Std</i>	107	\$14.95	\$1,599.65
	EHLR24-T809-40K-SF Linear 2' G13-Rotating Pins T8 9W LED Tube light 4000K Semi-frosted <i>Replaces – T8 2' 17W Fluor. Tube Std</i>	2	\$18.50	\$37.00
	Installation			<u>\$736.35</u>
			Sub Total	\$3,115.90
57%	Kitchen			
	EHL48-T816-40K-F-UEP Linear 4' T8 16W LED Tube light 4000K Frosted cover 1800lm..Universal Ended Power <i>Replaces – Ballast Comp 14W LED Tube</i>	1	\$14.95	\$14.95
	EHL48-T816-40K-F-UEP Linear 4' T8 16W LED Tube light 4000K Frosted cover 1800lm..Universal Ended Power <i>Replaces – T8 4' 32W Fluor. Tube Std</i>	15	\$14.95	\$224.25
	Installation			<u>\$73.30</u>
			Sub Total	\$312.50
57%	Offices/Faculty			
	EHL48-T816-40K-F-UEP Linear 4' T8 16W LED Tube light 4000K Frosted cover 1800lm..Universal Ended Power <i>Replaces – Ballast Comp 14W LED Tube</i>	4	\$14.95	\$59.80
	EHL48-T816-40K-F-UEP Linear 4' T8 16W LED Tube light 4000K Frosted cover 1800lm..Universal Ended Power <i>Replaces – T8 4' 32W Fluor. Tube Std</i>	64	\$14.95	\$956.80
	Installation			<u>\$311.55</u>
			Sub Total	\$1,328.15

59%	Classrooms			
	EHL48-T815-40K-F-BBU Linear 4' T8 15W LED Tube light 4000K Integrated BBU and Test Button..Frosted cover 1900lm <i>Replaces – T8 4' 32W Fluor. Tube Std</i>	2	\$147.92	\$295.84
	EHL48-T816-40K-F-UEP Linear 4' T8 16W LED Tube light 4000K Frosted cover 1800lm..Universal Ended Power <i>Replaces – T8 4' 32W Fluor. Tube Std</i>	575	\$14.95	\$8,596.25
	Installation			<u>\$2,675.80</u>
			Sub Total	\$11,567.89
59%	Library			
	EHL48-T816-40K-F-UEP Linear 4' T8 16W LED Tube light 4000K Frosted cover 1800lm..Universal Ended Power <i>Replaces – T8 4' 32W Fluor. Tube Std</i>	120	\$14.95	\$1,794.00
	Installation			<u>\$549.77</u>
			Sub Total	\$2,343.77
59%	Maintenance/Storage/Other			
	EHL48-T816-40K-F-UEP Linear 4' T8 16W LED Tube light 4000K Frosted cover 1800lm..Universal Ended Power <i>Replaces – T8 4' 32W Fluor. Tube Std</i>	14	\$14.95	\$209.30
	Installation			<u>\$64.13</u>
			Sub Total	\$273.43
61%	Gymnasium			
	EHL48-T815-40K-F-BBU Linear 4' T8 15W LED Tube light 4000K Integrated BBU and Test Button..Frosted cover 1900lm <i>Replaces – T8 4' 32W Fluor. Tube Std</i>	4	\$147.92	\$591.68
	EHL48-T816-40K-F-UEP Linear 4' T8 16W LED Tube light 4000K Frosted cover 1800lm..Universal Ended Power <i>Replaces – T8 4' 32W Fluor. Tube Std</i>	76	\$14.95	\$1,136.20
	Installation			<u>\$431.19</u>
			Sub Total	\$2,159.07
84%	Exterior			
	EHD8-18W-CCT-277-D010 LED Down Light 18W 8" Round Trim..CCT Tunable 2700K-3000K-3500K-4000K-5000K..Wattage Tunable 15W-18W..120-277VAC 0-10V dimmable <i>Replaces – 70W Metal Halide bulb</i>	6	\$92.40	\$554.40
	Installation			<u>\$102.56</u>
			Sub Total	\$656.96
		Materials & Installation		\$22,031.11
		Sales Tax (0.00%)		\$0.00
		Project Invoice Amount		\$22,031.11

Contingent Expense Breakdown

Below you will find the estimated details for possible contingent expenses needed to perform the LED Lighting upgrade. These costs can be minimized or avoided in many cases such as you having a lift on site or wanting to utilize your own vendor. These expenses will be invoiced separately at time of completion.

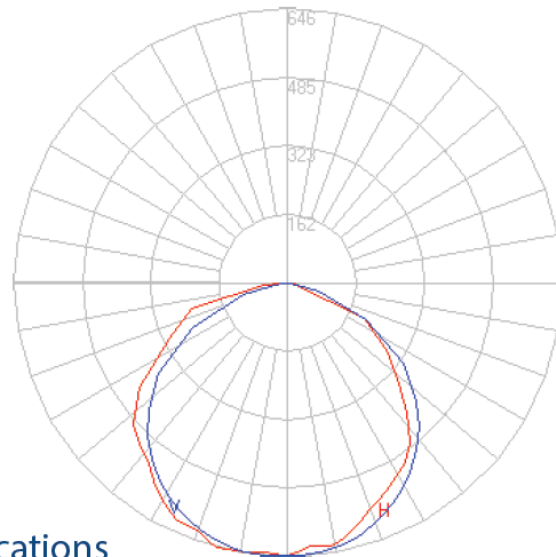
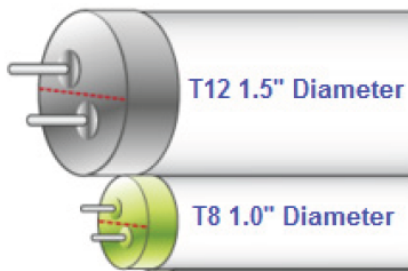
Description	Qty	Unit Price	Ext. Price
Contingency			
Contingent Expense - 19ft Scissor Lift Rental (Per Day)	3	\$490.00	\$1,470.00
EHA-TOMB-23mm 29100 T8/T12 PSH-THR LH W/STOP - LL-AXIS 23mm non-shunted	1032	\$0.75	\$774.00
Installation			<u>\$0.00</u>
		Sub Total	\$2,244.00
	Estimated Contingent Costs		\$2,244.00
	Sales Tax (0.00%)		\$0.00
	Total Contingent Expenses		\$2,244.00

LED Linear T8 Tube Lights



Energy Harness® LED linear lighting is designed to replace traditional fluorescent T8 and T12 lighting with energy saving and long lasting LED technology. Keep your fixtures and upgrade only your lights. These lights do not use a ballast and are environmentally friendly (no mercury). With energy savings between 50-65% and no maintenance required throughout the lifespan of the bulb, these LED lights are sure to pay for themselves!

Replacement



Applications

- Lobbies
- Warehouses
- Common areas

- Hospitals
- Offices
- More!



LED Linear T8 Tube Lights

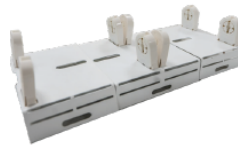
Specifications

- CRI > 80
- 100-277VAC 50/60hz
- Ballast bypass
- Beam angle > 120°
- Isolated internal driver
- Single ended power
- Power factor > 0.9
- Working temp: 14° - 113°F
- Aluminum housing
- IP20 rated

Accessories



23 mm non-shunted
lampholders



(2) Lamp 8ft to (4) lamp
4ft Conversion Kit

T8 Tube:	2'	3'	4'	4'	4'
EHC Part Number	EHLR24-T809-xxK	EHLR36-T813-xxK	EHL48-T809-50K	EHL48-T816-xxK	EHLR48-T816-xxK
Replacement	15-25W	20-30W	30-40W	30-40W	30-40W
Wattage	9W	13W	9W	16W	16W
Lumens	955lm	1360lm	1500lm	1920lm	1920lm
Actual Length (in)	23.187"	35.158"	47.165"	47.165"	47.165"
Color (CCT)	3000K, 4000K, 5000K	3000K, 4000K, 5000K	5000K	4000K, 5000K	3000K, 4000K, 5000K, 6500K
Efficacy	105lm/w	105lm/w	165lm/w	112.5lm/w	112.5lm/w
Plastic Cover	Semi frosted	Semi frosted	Striped	Frosted	Semi frosted
Base	Rotating G13	Rotating G13	G13	G13	Rotating G13

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71 Mid Cape Terrace
Cape Coral, FL 33991
1-239-790-3300 (Sales)

www.energyharness.com
sales@energyharness.com

Energy Harness Corporation (Midwest)
10815 Deandra Dr.
Zionsville, IN 46077
1-317-999-5561 (Midwest Sales)

Past Project Pictures - Interior

Manufacturing – Before and After



School – Before and After



Standard Terms and Conditions

- 1) All invoice payments shall be mailed to:
Energy Harness Corporation
Attn: Accounts Receivables
10815 Deandra Drive
Zionsville, IN 46077
- 2) Invoicing and Payment Terms: Since this is a custom project designed specifically for you the following terms apply:
 - 50% of Materials due upon material arrival
 - Remaining Invoice Balance due upon Project Completion
 - Contingent Expenses invoiced and due upon Project Completion
- 3) Standard Installation: It includes disabling and bypassing ballasts (but not its removal), checking 'tombstones' and replacing as needed, towel-cleaning of acrylics, and recycling of lamps. Additional installation requirements will incur additional installation charges.
- 4) Key work environment:
 - a. Customer will supply power to each light fixture.
 - b. Customer is responsible for providing unrestricted access to the work area. This includes moving any furnishings, equipment, wall-hangings, or other items which could prevent Energy Harness Corporation from carrying out the listed services.
 - c. Energy Harness will leave the premises in broom clean condition.
- 5) Change Orders: Any deviation, alteration and/or change from this proposal must be executed through a written and mutually-executed change order document.
- 6) Utility Rebate Estimates: Utility rebate amounts are estimates and subject to utility company rules and approval. Energy Harness Corporation does not guarantee the rebate amount.
- 7) Utility Rebate Processing: Standard procedure is for the customer to process, file and receive payment of the utility rebates. Energy Harness can help guide the client through the process as needed. The Customer can request Energy Harness to process and file the rebate with the utility provider payable to the Customer. If selected, Energy Harness will charge a fee of 1% of the project value up to a maximum of \$ 250.
- 8) Contingent Expenses: Energy Harness will notify you on the anticipated contingent expenses required to complete the project. These contingent expenses will be fully invoiced at the completion of the project.

By signing below, the Customer authorizes Energy Harness Corporation to complete the work as outlined in this proposal:

Signature	
Print Name	
Title	
Date	
☐ Customer will process and file the utility rebate and will receive the payment ☐ Energy Harness will process and file the utility rebate and Customer will receive the payment	

Products Manufacturing Contact:

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