

# **LED Lighting Proposal**

***PREPARED FOR:***



1916 E G Ave  
Parchment, MI 49004

## ***Parchment High School***

*Scope: Upgrade of Interior Non-LED Lighting 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 Parchment High School

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

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### Electrical Consumption

|                                     |                  |
|-------------------------------------|------------------|
| Current Lighting Energy Consumption | 380,829 kWh/Year |
| LED Replacement Energy Consumption  | 153,253 kWh/Year |

|                                 |                         |
|---------------------------------|-------------------------|
| <b>Total Electricity Wasted</b> | <b>227,576 kWh/Year</b> |
|---------------------------------|-------------------------|

|                                       |            |
|---------------------------------------|------------|
| <b>Total Electricity Wasted (60%)</b> | <b>2/3</b> |
|---------------------------------------|------------|

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### Project Value \*kWh cost \$0.1200

|  | Monthly | Yearly |
|--|---------|--------|
|--|---------|--------|

|                          |         |          |
|--------------------------|---------|----------|
| Current Electric Expense | \$3,808 | \$45,696 |
| Future Electric Expense  | \$1,533 | \$18,396 |

|                             |                |                 |
|-----------------------------|----------------|-----------------|
| <b>Total Electric Waste</b> | <b>\$2,275</b> | <b>\$27,300</b> |
|-----------------------------|----------------|-----------------|

|                            |         |          |
|----------------------------|---------|----------|
| Estimated Maintenance Cost | \$1,050 | \$12,600 |
|----------------------------|---------|----------|

|                                         |                |                 |
|-----------------------------------------|----------------|-----------------|
| <b>Total Cost of Waiting to Upgrade</b> | <b>\$3,325</b> | <b>\$39,900</b> |
|-----------------------------------------|----------------|-----------------|

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### Project Investment

|                             |              |
|-----------------------------|--------------|
| Materials and Installation  | \$106,289.00 |
| Down Payment for Site Audit | \$0.00       |

|                                 |                     |
|---------------------------------|---------------------|
| <b>Total Project Investment</b> | <b>\$106,289.00</b> |
|---------------------------------|---------------------|

Estimated Incentives:

|                          |               |
|--------------------------|---------------|
| Estimated Utility Rebate | (\$11,641.40) |
|--------------------------|---------------|

|                                       |                    |
|---------------------------------------|--------------------|
| <b>Total Out-of-Pocket Investment</b> | <b>\$94,647.60</b> |
|---------------------------------------|--------------------|

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### Estimated Return on Investment (ROI)

|                                      |                  |
|--------------------------------------|------------------|
| Including yearly maintenance savings | <b>28 months</b> |
|--------------------------------------|------------------|

|                                                     |                     |
|-----------------------------------------------------|---------------------|
| <b>TOTAL SAVINGS OVER PROJECT LIFE** (11 Years)</b> | <b>\$344,252.40</b> |
|-----------------------------------------------------|---------------------|

\*\*at today's electric cost

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## **LED Lighting Benefits For Parchment High 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 **60%**
- 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

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### **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

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### **Environmental Impact**

#### **This savings of 227,576 kWh per year is equivalent to:**

- Greenhouse gas emissions from
    - **23** gasoline-powered passenger vehicles driven for one year.
    - **242655** miles driven by an average gasoline-powered passenger vehicle.
  - CO<sub>2</sub> emissions from
    - **10676** gallons of gasoline consumed.
    - **104562** pounds of coal burned.
    - **19** homes' electricity use for one year.
    - **6263484** smartphones charged.
  - Greenhouse gas emissions avoided by
    - **33** tons of waste recycled instead of landfilled.
  - Carbon sequestered by
    - **111** acres of U.S. forests in one year.
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# Project Investment (Total Materials)

| Description                                                                                                                                                                                                   | Qty  | Unit Price                            | Ext. Price          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------|---------------------|
| EHA-EEBB-8W-DF-H<br>External Emergency Battery Backup Unit 8w, input Voltage: 100-277VAC, Output voltage: 170VDC; Dual Flex..FOR USE WITH EHC TUBES & DOWNLIGHTS                                              | 25   | \$193.30                              | \$4,832.50          |
| EHB-PL-0940K-G24Q-277 Frosted<br>PL bulb 9W 4000K G24Q (Non-Dimmable) 120V-277V Frosted                                                                                                                       | 102  | \$28.75                               | \$2,932.50          |
| EHB-PL-VERT-8.540K-G24Q-277 FR<br>Vertical PL LED bulb 8.5W 4000K 1020lm 120-277V non-dimmable Frosted                                                                                                        | 55   | \$37.96                               | \$2,087.80          |
| EHF-HB-CIR-150W-CCT-277-BL<br>LED Circular High Bay..Wattage Tunable 100W-125W-150W..CCT Tunable 4000K-5000K-5700K..120-277VAC 150lm/w 80CRI..0-10V Dimmable 90° Beam Angle..Motion Sensor Base..Black Finish | 30   | \$349.95                              | \$10,498.50         |
| EHF-HB-LIN-220W-CCT-277-LS<br>2' Linear Highbay..220W-165W-110W Wattage Selectable..4000K-5000K CCT Tunable..Sensor Receptacle..0-10V Dimmable 120-277VAC 130 lm/w                                            | 14   | \$359.95                              | \$5,039.30          |
| EHL45-T524-50K-F-UEB<br>LED T5 Tube 4' 24W 3200lm 5000K 100-277VAC Frosted Cover..Universal Ended Power                                                                                                       | 36   | \$29.97                               | \$1,078.92          |
| EHL48-T815-40K-F-BBU<br>Linear 4' T8 15W LED Tube light 4000K Integrated BBU and Test Button..Frosted cover 1900lm                                                                                            | 95   | \$147.92                              | \$14,052.40         |
| EHL48-T816-40K-F-UEP<br>Linear 4' T8 16W LED Tube light 4000K Frosted cover 1800lm..Universal Ended Power                                                                                                     | 2938 | \$14.95                               | \$43,923.10         |
| EHLR24-T809-40K-SF<br>Linear 2' G13-Rotating Pins T8 9W LED Tube light 4000K Semi-frosted                                                                                                                     | 1    | \$18.50                               | \$18.50             |
| EHLR36-T813-40K-SF<br>Linear 3' G13-Rotating Pins T8 13W LED Tube T8 light 4000K Semi-frosted                                                                                                                 | 20   | \$18.50                               | \$370.00            |
|                                                                                                                                                                                                               |      |                                       |                     |
|                                                                                                                                                                                                               |      | Total Materials                       | \$84,833.52         |
|                                                                                                                                                                                                               |      | Sales Tax (0.00%)                     | <u>\$0.00</u>       |
|                                                                                                                                                                                                               |      | <b>Sub Total</b>                      | <b>\$84,833.52</b>  |
|                                                                                                                                                                                                               |      |                                       |                     |
|                                                                                                                                                                                                               |      | Installation                          | <u>\$21,455.48</u>  |
|                                                                                                                                                                                                               |      | <b>Project Invoice Amount</b>         | <b>\$106,289.00</b> |
|                                                                                                                                                                                                               |      |                                       |                     |
|                                                                                                                                                                                                               |      | Utility Rebate                        | (\$11,641.40)       |
|                                                                                                                                                                                                               |      | <b>Total Out-Of-Pocket Investment</b> | <b>\$94,647.60</b>  |
|                                                                                                                                                                                                               |      |                                       |                     |
|                                                                                                                                                                                                               |      | Estimated Contingent Expenses:        | \$7,444.20          |
| See Contingency Table for details.                                                                                                                                                                            |      |                                       |                     |

# Project Pricing Breakdown

|            | Description                                                                                                                                                                                                                                               | Qty  | Unit Price       | Ext. Price         |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|--------------------|
| <b>51%</b> | <b>Multipurpose Room / Gym 2 / Cafeteria</b>                                                                                                                                                                                                              |      |                  |                    |
|            | EHF-HB-CIR-150W-CCT-277-BL<br>LED Circular High Bay..Wattage Tunable 100W-125W-150W..CCT Tunable 4000K-5000K-5700K..120-277VAC 150lm/w 80CRI..0-10V Dimmable 90° Beam Angle..Motion Sensor Base..Black Finish<br><i>Replaces – 250W Metal Halide bulb</i> | 30   | \$349.95         | \$10,498.50        |
|            | EHF-HB-LIN-220W-CCT-277-LS<br>2' Linear Highbay..220W-165W-110W Wattage Selectable..4000K-5000K CCT Tunable..Sensor Receptacle..0-10V Dimmable 120-277VAC 130 lm/w<br><i>Replaces – T5 4' 54W Fluor. Tube HO</i>                                          | 14   | \$359.95         | \$5,039.30         |
|            | Installation                                                                                                                                                                                                                                              |      |                  | <u>\$3,423.79</u>  |
|            |                                                                                                                                                                                                                                                           |      | <b>Sub Total</b> | <b>\$18,961.59</b> |
| <b>59%</b> | <b>Main Gymnasium</b>                                                                                                                                                                                                                                     |      |                  |                    |
|            | EHA-EEBB-8W-DF-H<br>External Emergency Battery Backup Unit 8w, input Voltage: 100-277VAC,Output voltage: 170VDC; Dual Flex..FOR USE WITH EHC TUBES & DOWNLIGHTS<br><i>Replaces – N/A</i>                                                                  | 2    | \$193.30         | \$386.60           |
|            | EHB-PL-0940K-G24Q-277 Frosted<br>PL bulb 9W 4000K G24Q (Non-Dimmable) 120V-277V Frosted<br><i>Replaces – 26W CFL bulb</i>                                                                                                                                 | 4    | \$28.75          | \$115.00           |
|            | EHL48-T816-40K-F-UEP<br>Linear 4' T8 16W LED Tube light 4000K Frosted cover 1800lm..Universal Ended Power<br><i>Replaces – T8 4' 32W Fluor. Tube Std</i>                                                                                                  | 276  | \$14.95          | \$4,126.20         |
|            | Installation                                                                                                                                                                                                                                              |      |                  | <u>\$1,345.19</u>  |
|            |                                                                                                                                                                                                                                                           |      | <b>Sub Total</b> | <b>\$5,972.99</b>  |
| <b>59%</b> | <b>Restrooms/Locker Rooms</b>                                                                                                                                                                                                                             |      |                  |                    |
|            | EHL48-T816-40K-F-UEP<br>Linear 4' T8 16W LED Tube light 4000K Frosted cover 1800lm..Universal Ended Power<br><i>Replaces – T8 4' 32W Fluor. Tube Std</i>                                                                                                  | 4    | \$14.95          | \$59.80            |
|            | Installation                                                                                                                                                                                                                                              |      |                  | <u>\$18.32</u>     |
|            |                                                                                                                                                                                                                                                           |      | <b>Sub Total</b> | <b>\$78.12</b>     |
| <b>59%</b> | <b>Weight Room</b>                                                                                                                                                                                                                                        |      |                  |                    |
|            | EHB-PL-0940K-G24Q-277 Frosted<br>PL bulb 9W 4000K G24Q (Non-Dimmable) 120V-277V Frosted<br><i>Replaces – 26W CFL bulb</i>                                                                                                                                 | 4    | \$28.75          | \$115.00           |
|            | EHL48-T816-40K-F-UEP<br>Linear 4' T8 16W LED Tube light 4000K Frosted cover 1800lm..Universal Ended Power<br><i>Replaces – T8 4' 32W Fluor. Tube Std</i>                                                                                                  | 80   | \$14.95          | \$1,196.00         |
|            | Installation                                                                                                                                                                                                                                              |      |                  | <u>\$408.80</u>    |
|            |                                                                                                                                                                                                                                                           |      | <b>Sub Total</b> | <b>\$1,719.80</b>  |
| <b>60%</b> | <b>Classrooms</b>                                                                                                                                                                                                                                         |      |                  |                    |
|            | EHL48-T815-40K-F-BBU<br>Linear 4' T8 15W LED Tube light 4000K Integrated BBU and Test Button..Frosted cover 1900lm<br><i>Replaces – T8 4' 32W Fluor. Tube Std</i>                                                                                         | 19   | \$147.92         | \$2,810.48         |
|            | EHL48-T816-40K-F-UEP<br>Linear 4' T8 16W LED Tube light 4000K Frosted cover 1800lm..Universal Ended Power<br><i>Replaces – T8 4' 32W Fluor. Tube Std</i>                                                                                                  | 1081 | \$14.95          | \$16,160.95        |
|            | Installation                                                                                                                                                                                                                                              |      |                  | <u>\$5,298.94</u>  |
|            |                                                                                                                                                                                                                                                           |      | <b>Sub Total</b> | <b>\$24,270.37</b> |

|            |                                                                                                                                                                      |     |                  |                   |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------|-------------------|
| <b>60%</b> | <b>Library</b>                                                                                                                                                       |     |                  |                   |
|            | EHB-PL-VERT-8.540K-G24Q-277 FR<br>Vertical PL LED bulb 8.5W 4000K 1020lm 120-277V non-dimmable Frosted<br><i>Replaces – 26W CFL bulb</i>                             | 4   | \$37.96          | \$151.84          |
|            | EHL45-T524-50K-F-UEB<br>LED T5 Tube 4' 24W 3200lm 5000K 100-277VAC Frosted Cover..Universal<br>Ended Power<br><i>Replaces – T5 4' 54W Fluor. Tube HO</i>             | 18  | \$29.97          | \$539.46          |
|            | EHL48-T815-40K-F-BBU<br>Linear 4' T8 15W LED Tube light 4000K Integrated BBU and Test Button..Frosted<br>cover 1900lm<br><i>Replaces – T8 4' 32W Fluor. Tube Std</i> | 4   | \$147.92         | \$591.68          |
|            | EHL48-T816-40K-F-UEP<br>Linear 4' T8 16W LED Tube light 4000K Frosted cover 1800lm..Universal Ended<br>Power<br><i>Replaces – T8 4' 32W Fluor. Tube Std</i>          | 126 | \$14.95          | \$1,883.70        |
|            | Installation                                                                                                                                                         |     |                  | <u>\$860.36</u>   |
|            |                                                                                                                                                                      |     | <b>Sub Total</b> | <b>\$4,027.04</b> |
| <b>61%</b> | <b>Cafeteria/Kitchen</b>                                                                                                                                             |     |                  |                   |
|            | EHB-PL-0940K-G24Q-277 Frosted<br>PL bulb 9W 4000K G24Q (Non-Dimmable) 120V-277V Frosted<br><i>Replaces – 26W CFL bulb</i>                                            | 13  | \$28.75          | \$373.75          |
|            | EHL48-T815-40K-F-BBU<br>Linear 4' T8 15W LED Tube light 4000K Integrated BBU and Test Button..Frosted<br>cover 1900lm<br><i>Replaces – T8 4' 32W Fluor. Tube Std</i> | 8   | \$147.92         | \$1,183.36        |
|            | EHL48-T816-40K-F-UEP<br>Linear 4' T8 16W LED Tube light 4000K Frosted cover 1800lm..Universal Ended<br>Power<br><i>Replaces – T8 4' 32W Fluor. Tube Std</i>          | 107 | \$14.95          | \$1,599.65        |
|            | EHLR36-T813-40K-SF<br>Linear 3' G13-Rotating Pins T8 13W LED Tube T8 light 4000K Semi-frosted<br><i>Replaces – T8 3' 25W Fluor. Tube Std</i>                         | 16  | \$18.50          | \$296.00          |
|            | Installation                                                                                                                                                         |     |                  | <u>\$860.48</u>   |
|            |                                                                                                                                                                      |     | <b>Sub Total</b> | <b>\$4,313.24</b> |
| <b>61%</b> | <b>Maintenance/Storage</b>                                                                                                                                           |     |                  |                   |
|            | EHL45-T524-50K-F-UEB<br>LED T5 Tube 4' 24W 3200lm 5000K 100-277VAC Frosted Cover..Universal<br>Ended Power<br><i>Replaces – T5 4' 54W Fluor. Tube HO</i>             | 12  | \$29.97          | \$359.64          |
|            | EHL48-T815-40K-F-BBU<br>Linear 4' T8 15W LED Tube light 4000K Integrated BBU and Test Button..Frosted<br>cover 1900lm<br><i>Replaces – T8 4' 32W Fluor. Tube Std</i> | 9   | \$147.92         | \$1,331.28        |
|            | EHL48-T816-40K-F-UEP<br>Linear 4' T8 16W LED Tube light 4000K Frosted cover 1800lm..Universal Ended<br>Power<br><i>Replaces – T8 4' 32W Fluor. Tube Std</i>          | 225 | \$14.95          | \$3,363.75        |
|            | Installation                                                                                                                                                         |     |                  | <u>\$1,293.03</u> |
|            |                                                                                                                                                                      |     | <b>Sub Total</b> | <b>\$6,347.70</b> |
| <b>61%</b> | <b>Offices/Faculty</b>                                                                                                                                               |     |                  |                   |
|            | EHB-PL-0940K-G24Q-277 Frosted<br>PL bulb 9W 4000K G24Q (Non-Dimmable) 120V-277V Frosted<br><i>Replaces – 26W CFL bulb</i>                                            | 3   | \$28.75          | \$86.25           |
|            | EHB-PL-VERT-8.540K-G24Q-277 FR<br>Vertical PL LED bulb 8.5W 4000K 1020lm 120-277V non-dimmable Frosted<br><i>Replaces – 26W CFL bulb</i>                             | 3   | \$37.96          | \$113.88          |
|            | EHL48-T815-40K-F-BBU<br>Linear 4' T8 15W LED Tube light 4000K Integrated BBU and Test Button..Frosted<br>cover 1900lm<br><i>Replaces – T8 4' 32W Fluor. Tube Std</i> | 7   | \$147.92         | \$1,035.44        |
|            | EHL48-T816-40K-F-UEP<br>Linear 4' T8 16W LED Tube light 4000K Frosted cover 1800lm..Universal Ended<br>Power<br><i>Replaces – T8 4' 32W Fluor. Tube Std</i>          | 227 | \$14.95          | \$3,393.65        |
|            | Installation                                                                                                                                                         |     |                  | <u>\$1,246.87</u> |
|            |                                                                                                                                                                      |     | <b>Sub Total</b> | <b>\$5,876.09</b> |
| <b>62%</b> | <b>Hallways/Entryways/Common Areas</b>                                                                                                                               |     |                  |                   |

|            |                                                                                                                                                                                          |     |                  |                    |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------|--------------------|
|            | EHA-EEBB-8W-DF-H<br>External Emergency Battery Backup Unit 8w, input Voltage: 100-277VAC,Output voltage: 170VDC; Dual Flex..FOR USE WITH EHC TUBES & DOWNLIGHTS<br><i>Replaces – N/A</i> | 10  | \$193.30         | \$1,933.00         |
|            | EHB-PL-0940K-G24Q-277 Frosted<br>PL bulb 9W 4000K G24Q (Non-Dimmable) 120V-277V Frosted<br><i>Replaces – 26W CFL bulb</i>                                                                | 49  | \$28.75          | \$1,408.75         |
|            | EHB-PL-VERT-8.540K-G24Q-277 FR<br>Vertical PL LED bulb 8.5W 4000K 1020lm 120-277V non-dimmable Frosted<br><i>Replaces – 26W CFL bulb</i>                                                 | 12  | \$37.96          | \$455.52           |
|            | EHB-PL-VERT-8.540K-G24Q-277 FR<br>Vertical PL LED bulb 8.5W 4000K 1020lm 120-277V non-dimmable Frosted<br><i>Replaces – 32W CFL bulb</i>                                                 | 36  | \$37.96          | \$1,366.56         |
|            | EHL45-T524-50K-F-UEB<br>LED T5 Tube 4' 24W 3200lm 5000K 100-277VAC Frosted Cover..Universal Ended Power<br><i>Replaces – T5 4' 54W Fluor. Tube HO</i>                                    | 6   | \$29.97          | \$179.82           |
|            | EHL48-T815-40K-F-BBU<br>Linear 4' T8 15W LED Tube light 4000K Integrated BBU and Test Button..Frosted cover 1900lm<br><i>Replaces – T8 4' 32W Fluor. Tube Std</i>                        | 22  | \$147.92         | \$3,254.24         |
|            | EHL48-T816-40K-F-UEP<br>Linear 4' T8 16W LED Tube light 4000K Frosted cover 1800lm..Universal Ended Power<br><i>Replaces – T8 4' 32W Fluor. Tube Std</i>                                 | 570 | \$14.95          | \$8,521.50         |
|            | EHLR24-T809-40K-SF<br>Linear 2' G13-Rotating Pins T8 9W LED Tube light 4000K Semi-frosted<br><i>Replaces – T8 2' 17W Fluor. Tube Std</i>                                                 | 1   | \$18.50          | \$18.50            |
|            | EHLR36-T813-40K-SF<br>Linear 3' G13-Rotating Pins T8 13W LED Tube T8 light 4000K Semi-frosted<br><i>Replaces – T8 3' 25W Fluor. Tube Std</i>                                             | 4   | \$18.50          | \$74.00            |
|            | Installation                                                                                                                                                                             |     |                  | <u>\$4,558.50</u>  |
|            |                                                                                                                                                                                          |     | <b>Sub Total</b> | <b>\$21,770.39</b> |
| <b>63%</b> | <b>Lockers / Training Rooms / Offices</b>                                                                                                                                                |     |                  |                    |
|            | EHB-PL-0940K-G24Q-277 Frosted<br>PL bulb 9W 4000K G24Q (Non-Dimmable) 120V-277V Frosted<br><i>Replaces – 26W CFL bulb</i>                                                                | 3   | \$28.75          | \$86.25            |
|            | EHL48-T815-40K-F-BBU<br>Linear 4' T8 15W LED Tube light 4000K Integrated BBU and Test Button..Frosted cover 1900lm<br><i>Replaces – T8 4' 32W Fluor. Tube Std</i>                        | 16  | \$147.92         | \$2,366.72         |
|            | EHL48-T816-40K-F-UEP<br>Linear 4' T8 16W LED Tube light 4000K Frosted cover 1800lm..Universal Ended Power<br><i>Replaces – T8 4' 32W Fluor. Tube Std</i>                                 | 123 | \$14.95          | \$1,838.85         |
|            | Installation                                                                                                                                                                             |     |                  | <u>\$887.54</u>    |
|            |                                                                                                                                                                                          |     | <b>Sub Total</b> | <b>\$5,179.36</b>  |
| <b>63%</b> | <b>Restrooms</b>                                                                                                                                                                         |     |                  |                    |
|            | EHA-EEBB-8W-DF-H<br>External Emergency Battery Backup Unit 8w, input Voltage: 100-277VAC,Output voltage: 170VDC; Dual Flex..FOR USE WITH EHC TUBES & DOWNLIGHTS<br><i>Replaces – N/A</i> | 2   | \$193.30         | \$386.60           |
|            | EHB-PL-0940K-G24Q-277 Frosted<br>PL bulb 9W 4000K G24Q (Non-Dimmable) 120V-277V Frosted<br><i>Replaces – 26W CFL bulb</i>                                                                | 4   | \$28.75          | \$115.00           |
|            | EHL48-T815-40K-F-BBU<br>Linear 4' T8 15W LED Tube light 4000K Integrated BBU and Test Button..Frosted cover 1900lm<br><i>Replaces – T8 4' 32W Fluor. Tube Std</i>                        | 10  | \$147.92         | \$1,479.20         |
|            | EHL48-T816-40K-F-UEP<br>Linear 4' T8 16W LED Tube light 4000K Frosted cover 1800lm..Universal Ended Power<br><i>Replaces – T8 4' 32W Fluor. Tube Std</i>                                 | 119 | \$14.95          | \$1,779.05         |
|            | Installation                                                                                                                                                                             |     |                  | <u>\$808.70</u>    |
|            |                                                                                                                                                                                          |     | <b>Sub Total</b> | <b>\$4,568.55</b>  |
| <b>65%</b> | <b>Exterior</b>                                                                                                                                                                          |     |                  |                    |
|            | EHA-EEBB-8W-DF-H<br>External Emergency Battery Backup Unit 8w, input Voltage: 100-277VAC,Output voltage: 170VDC; Dual Flex..FOR USE WITH EHC TUBES & DOWNLIGHTS<br><i>Replaces – N/A</i> | 11  | \$193.30         | \$2,126.30         |
|            | EHB-PL-0940K-G24Q-277 Frosted<br>PL bulb 9W 4000K G24Q (Non-Dimmable) 120V-277V Frosted<br><i>Replaces – 26W CFL bulb</i>                                                                | 22  | \$28.75          | \$632.50           |

|  |              |                          |           |                 |
|--|--------------|--------------------------|-----------|-----------------|
|  | Installation |                          |           | <u>\$444.96</u> |
|  |              |                          | Sub Total | \$3,203.76      |
|  |              |                          |           |                 |
|  |              | Materials & Installation |           | \$106,289.00    |
|  |              | Sales Tax (0.00%)        |           | \$0.00          |
|  |              | Project Invoice Amount   |           | \$106,289.00    |

# 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.

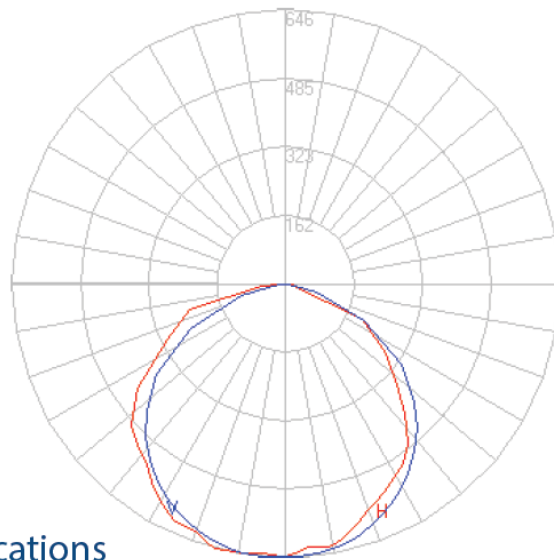
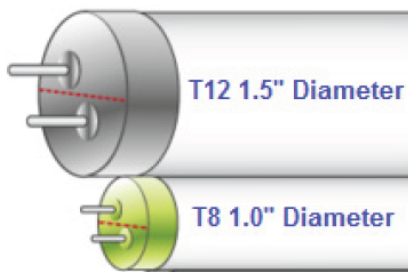
| Description                                                                                                           | Qty                              | Unit Price       | Ext. Price        |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------|-------------------|
| <b>Contingency</b>                                                                                                    |                                  |                  |                   |
| Contingent Expense - 32ft Scissor Lift Rental (Per Day)                                                               | 7                                | \$670.00         | \$4,690.00        |
| EHA-TOMB-23mm<br>29100 T8/T12 PSH-THR LH W/STOP - LL-AXIS 23mm non-shunted                                            | 1500                             | \$0.75           | \$1,125.00        |
| Installation                                                                                                          |                                  |                  | <u>\$0.00</u>     |
|                                                                                                                       |                                  | <b>Sub Total</b> | <b>\$5,815.00</b> |
| <b>Hallways/Entryways/Common Areas</b>                                                                                |                                  |                  |                   |
| EHL48-T815-40K-F-BBU<br>Linear 4' T8 15W LED Tube light 4000K Integrated BBU and Test<br>Button..Frosted cover 1900lm | 10                               | \$147.92         | \$1,479.20        |
| Installation                                                                                                          |                                  |                  | <u>\$150.00</u>   |
|                                                                                                                       |                                  | <b>Sub Total</b> | <b>\$1,629.20</b> |
|                                                                                                                       |                                  |                  |                   |
|                                                                                                                       | Estimated Contingent Costs       |                  | \$7,444.20        |
|                                                                                                                       | Sales Tax (0.00%)                |                  | \$0.00            |
|                                                                                                                       | <b>Total Contingent Expenses</b> |                  | <b>\$7,444.20</b> |

## 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

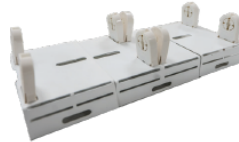
## Specifications

|                     |                            |                     |
|---------------------|----------------------------|---------------------|
| -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               |

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

[www.energyharness.com](http://www.energyharness.com)  
[sales@energyharness.com](mailto:sales@energyharness.com)

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

Project Name:

Part #:

Type:



## LED Linear High Bay

### Features

- Easy installation by chain, pendant, or surface mounting
- Suitable for dry and damp locations
- Easy wiring access from bottom of fixture
- (7) 1/2" NPT knockouts for wiring and accessories
- White powdercoat finish



### Applications

Warehouses | Grocery stores | Gymnasiums | Manufacturing | Retail stores | Automechanics

### Ordering Guide

| Series     | Wattage    | CCT         | Input Voltage    | Mounting                            | Accessories           |
|------------|------------|-------------|------------------|-------------------------------------|-----------------------|
| EHF-HB-LIN | 110 = 110W | 50K = 5000K | 347 = 120-347VAC | PM = Pendant Mount                  | SP = Surge Protection |
|            | 165 = 165W |             | 480 = 277-480VAC | SM = Surface Mount                  | MS = Motion Sensor    |
|            | 225 = 225W |             |                  | Left Blank = Chain Mount (Standard) |                       |

## Accessory Options



Surge Protection  
**Item Code:** SP  
**Part #:** EHA-SURGE-20kV-277V-Series  
20kV 240-277V series wired surge protection, diagnostic light, can style



Motion Sensor  
**Item Code:** MS  
**Part #:** EHA-SENSOR-MOTION-277V  
Line voltage occupancy motion sensor with ambient light sensor AC110-277V mechanical relay only. External box with threaded nipple



SMART RELAY CONTROLS  
EHW-EN-SWITCH-DOUBLE/SINGLE  
Pair with EHW-EN-DIM-RELAY-277-D010  
**SEE CONTROLS ORDERING FOR MORE INFO**



Chain Mounting: 2 piece suspending chain, 2 piece V hooks, wire nuts (**standard mounting included in packaging**)



Pendant Mounting  
**Item Code:** PM  
**Part #:** EHA-HB-LIN-PEN-ADAPT  
Linear Highbay (110W, 165W, 225W) pendant mounting hardware



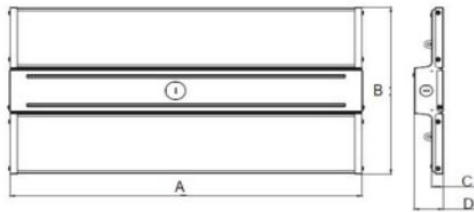
Surface Mounting  
**Item Code:** SM  
**Part #:** EHA-HB-LIN-SM-ADAPT  
Surface mount brackets for linear highbay (110W, 165W, 225W)



## Specifications

- Input Voltage: 120-347VAC | 277-480VAC
- Wattage: 110W | 165W | 225W
- Efficacy: 130lm/W - 140lm/W
- CCT: 5000K
- CRI > 80
- Power Factor > 0.9
- Total Harmonic Distortion: < 20%
- Operating Ambient Temperature: -4°F to 122°F
- Lensing: Frosted
- Dimmable: 0-10V
- IP Rating: IP20 Rated
- Beam Angle: 110°

## Product Dimensions

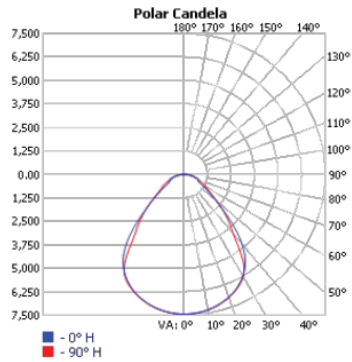


| Wattage | A       | B      | C     | D     |
|---------|---------|--------|-------|-------|
| 110W    | 23.83 " | 9.60"  | 0.79" | 1.97" |
| 165W    | 23.83"  | 12.60" | 0.79" | 1.97" |
| 225W    | 45.90"  | 12.60" | 0.79" | 1.97" |



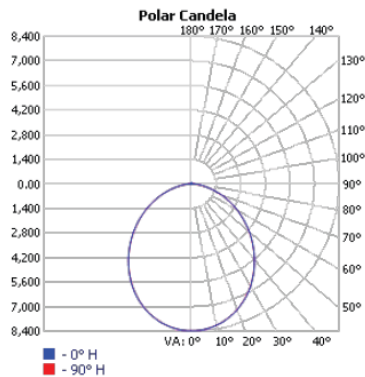
## Photometrics Data

| Luminaire Data      |                                   |
|---------------------|-----------------------------------|
| Part Number         | EHF-HB-LIN-11050K                 |
| Description         | 2' 110W LED Linear High Bay 5000K |
| Fixture Lumens (lm) | 14850 lm                          |
| Wattage (W)         | 110W                              |
| Efficacy (lm/w)     | 135 lm/w                          |



| Zone   | Lumens  | %Fixture |
|--------|---------|----------|
| 0-40   | 9157.3  | 60.4%    |
| 0-60   | 13112.3 | 86.5%    |
| 0-90   | 14965.6 | 98.7%    |
| 90-180 | 189.7   | 1.3%     |
| 0-180  | 15155.3 | 100.0%   |

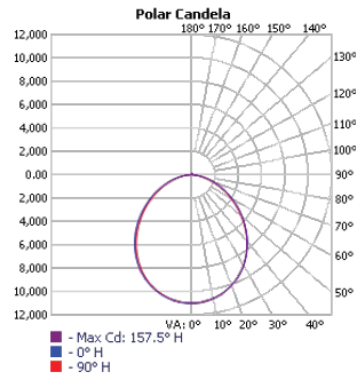
| Luminaire Data      |                                   |
|---------------------|-----------------------------------|
| Part Number         | EHF-HB-LIN-16550K                 |
| Description         | 2' 165W LED Linear High Bay 5000K |
| Fixture Lumens (lm) | 21450 lm                          |
| Wattage (W)         | 165W                              |
| Efficacy (lm/w)     | 130 lm/w                          |



| Zone   | Lumens  | %Fixture |
|--------|---------|----------|
| 0-40   | 10187.4 | 47.3%    |
| 0-60   | 17262.9 | 80.2%    |
| 0-90   | 21273.9 | 98.8%    |
| 90-180 | 260.7   | 1.2%     |
| 0-180  | 21534.6 | 100.0%   |

## Photometrics Data

| Luminaire Data      |                                   |
|---------------------|-----------------------------------|
| Part Number         | EHF-HB-LIN-22550K                 |
| Description         | 4' 225W LED Linear High Bay 5000K |
| Fixture Lumens (lm) | 28237 lm                          |
| Wattage (W)         | 225W                              |
| Efficacy (lm/w)     | 130 lm/w                          |



| Zone   | Lumens  | %Fixture |
|--------|---------|----------|
| 0-40   | 13526.8 | 47.9%    |
| 0-60   | 22847.5 | 80.9%    |
| 0-90   | 27891.2 | 98.8%    |
| 90-180 | 342.8   | 1.2%     |
| 0-180  | 28233.9 | 100.0%   |



## Features

- Wet Location Rated IP65
- Power & CCT Selectable Fixture
- Durable Die-Cast Aluminum Housing
- Easy Screw-In Installation of Optional Sensors
- PIR, Microwave Sensor Kits & Multi-Sensor Remote Available

## LED Circular High Bay



## Applications

Warehouses | Garage | Industrial | Gymnasiums | Manufacturing

## Ordering Guide

### Example:

| EHF-HB-CIR | 240                                     | CCT                                           | 480              | BK            | HK                 | WG                                 |
|------------|-----------------------------------------|-----------------------------------------------|------------------|---------------|--------------------|------------------------------------|
| Series     | Wattage                                 | CCT                                           | Input Voltage    | Fixture Color | Mounting           | Accessories                        |
| EHF-HB-CIR | 150 =<br>100W/125W/150W<br>[SELECTABLE] | CCT =<br>4,000K/5,000K/5,700K<br>[SELECTABLE] | 277 =120-277VAC  | BK = BLACK    | HK = HOOK MOUNT    | WG = WIRE GUARD                    |
|            | 240 =<br>150W/200W/240W<br>[SELECTABLE] |                                               | 480 = 277-480VAC |               | IB = I-BOLT MOUNT  | PC = PC REFLECTOR                  |
|            |                                         |                                               |                  |               | PM = PENDANT MOUNT | AR = ALUMINUM REFLECTOR            |
|            |                                         |                                               |                  |               |                    | EMD = EMERGENCY DRIVER             |
|            |                                         |                                               |                  |               |                    | MMS = MICROWAVE MO-<br>TION SENSOR |
|            |                                         |                                               |                  |               |                    | PIR = PIR MOTION SENSOR            |
|            |                                         |                                               |                  |               |                    | CNT = CONTROLLER                   |



| SPECIFICATION                 |                                |                                |
|-------------------------------|--------------------------------|--------------------------------|
| <b>WATTAGE:</b>               | 100W/125W/150W<br>[SELECTABLE] | 150W/200W/240W<br>[SELECTABLE] |
| <b>LUMEN:</b>                 | 22,500lm @ 150W                | 36,000lm @ 240W                |
| <b>EFFICACY:</b>              | 150lm/W                        |                                |
| <b>INPUT VOLTAGE:</b>         | 120-277VAC                     | 277-480VAC                     |
| <b>CCT:</b>                   | 4,000K/5,000K/5,700K           |                                |
| <b>THD:</b>                   | <20%                           |                                |
| <b>POWER FACTOR:</b>          | ≥0.95                          |                                |
| <b>DISTRIBUTION:</b>          | 90 DEGREE                      |                                |
| <b>OPERATING TEMPERATURE:</b> | -40°F to 113°F                 |                                |
| <b>LIFESPAN:</b>              | L70 @ 54,000 HOURS             |                                |
| <b>DIMMABLE:</b>              | 0-10VDC                        |                                |
| <b>IP RATING:</b>             | IP65                           |                                |
| <b>SURGE PROTECTION:</b>      | L/N 6KV , L/N-P 6KV            |                                |
| <b>LENSING:</b>               | POLYCARBONATE                  |                                |
| <b>MATERIAL:</b>              | ADC12 ALUMINUM DIE-CASTING     |                                |
| <b>WARRANTY:</b>              | 5 YEAR                         |                                |



# LED CIRCULAR HIGH BAY

| ACCESSORIES                                                                         |           |                |                         |
|-------------------------------------------------------------------------------------|-----------|----------------|-------------------------|
| REFERENCE                                                                           | ITEM CODE | PART #         | DESCRIPTION             |
|    | WG        | EHA-HB-CIR-WG  | Wire Guard              |
|    | PC        | EHA-HB-CIR-PC  | PC Reflector            |
|    | AR        | EHA-HB-CIR-AR  | Aluminum Reflector      |
|    | EMD       | EHA-HB-CIR-EMD | Emergency Driver        |
|   | MMS       | EHA-HB-CIR-MMS | Microwave Motion Sensor |
|  | PIR       | EHA-HB-CIR-PIR | PIR Motion Sensor       |
|  | CNT       | EHA-HB-CIR-CNT | Controller              |

# LED CIRCULAR HIGH BAY

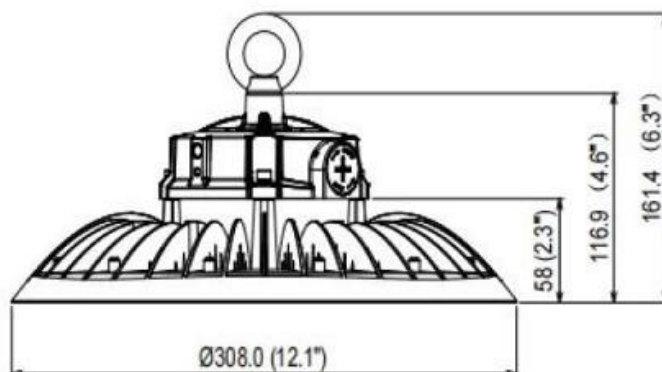
| MOUNTING HARDWARE                                                                  |           |                   |               |
|------------------------------------------------------------------------------------|-----------|-------------------|---------------|
| REFERENCE                                                                          | ITEM CODE | PART #            | DESCRIPTION   |
|   | HK        | EHA-HB-CIR-MNT-HK | Hook Mount    |
|   | IB        | EHA-HB-CIR-MNT-IB | I-BOLT Mount  |
|  | PM        | EHA-HB-CIR-MNT-PM | Pendant Mount |

# LED CIRCULAR HIGH BAY

## DIMENSIONS

150W MODEL

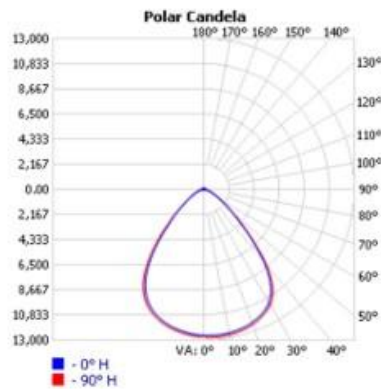
240W MODEL



# LED CIRCULAR HIGH BAY

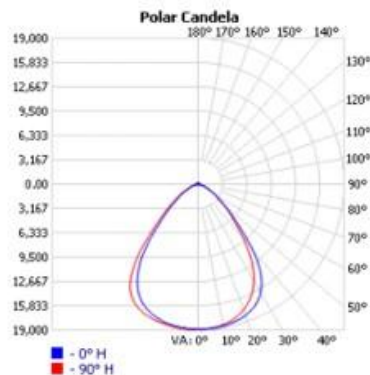
## PHOTOMETRICS DATA

| Luminaire Data      |                                   |
|---------------------|-----------------------------------|
| Part Number         | EHF-HB-CIR-150W-CCT-277-BL        |
| Description         | 150W, 57K Circular HighBay 277VAC |
| Fixture Lumens (lm) | 23,114.5lm                        |
| Wattage (W)         | 147.3W                            |
| Efficacy (lm/W)     | 156.9lm/W                         |



| Zonal Lumen Summary |             |           |
|---------------------|-------------|-----------|
| Zone                | Lumens (lm) | % Fixture |
| 0-40                | 15,678.6    | 67.8%     |
| 0-60                | 21,432.4    | 92.7%     |
| 0-90                | 22,882.3    | 99%       |
| 90-180              | 232.2       | 1%        |
| 0-180               | 23,114.5    | 100%      |

| Luminaire Data      |                                   |
|---------------------|-----------------------------------|
| Part Number         | EHF-HB-CIR-240W-CCT-480-BL        |
| Description         | 240W, 57K Circular HighBay 480VAC |
| Fixture Lumens (lm) | 34,763.6lm                        |
| Wattage (W)         | 227.6W                            |
| Efficacy (lm/W)     | 152.7lm/W                         |



| Zonal Lumen Summary |             |           |
|---------------------|-------------|-----------|
| Zone                | Lumens (lm) | % Fixture |
| 0-40                | 23,255.5    | 66.9%     |
| 0-60                | 32,030.7    | 92.1%     |
| 0-90                | 34,419.6    | 99%       |
| 90-180              | 344.1       | 1%        |
| 0-180               | 34,763.6    | 100%      |



# 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:**

|                                                                                                                                                                                                                                   |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Signature</b>                                                                                                                                                                                                                  |  |
| <b>Print Name</b>                                                                                                                                                                                                                 |  |
| <b>Title</b>                                                                                                                                                                                                                      |  |
| <b>Date</b>                                                                                                                                                                                                                       |  |
| <input type="checkbox"/> Customer will process and file the utility rebate and will receive the payment<br><input type="checkbox"/> Energy Harness will process and file the utility rebate and Customer will receive the payment |  |

## ***Products Manufacturing Contact:***

Kyle Chaffee  
Manager, Lighting Solutions  
Energy Harness Corporation  
Cell: (317) 489-7917  
[kchaffee@energyharness.com](mailto:kchaffee@energyharness.com)

Joshua Pasterz  
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Michael Fischer  
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