

|             |  |           |  |      |  |
|-------------|--|-----------|--|------|--|
| Project     |  | Catalog # |  | Type |  |
| Prepared by |  | Notes     |  | Date |  |



# Ephesus

## LUMASPORT 16

White LED Sports & Entertainment Luminaire

**Typical Applications**  
Pro Stadiums • University & Collegiate Stadiums

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### Product Certification

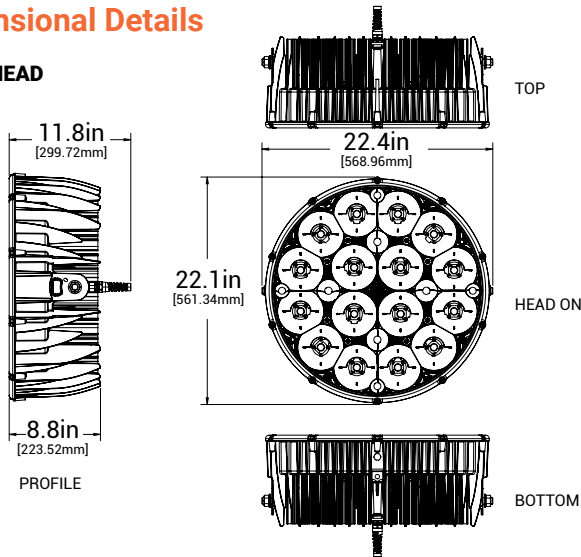


### Top Product Features

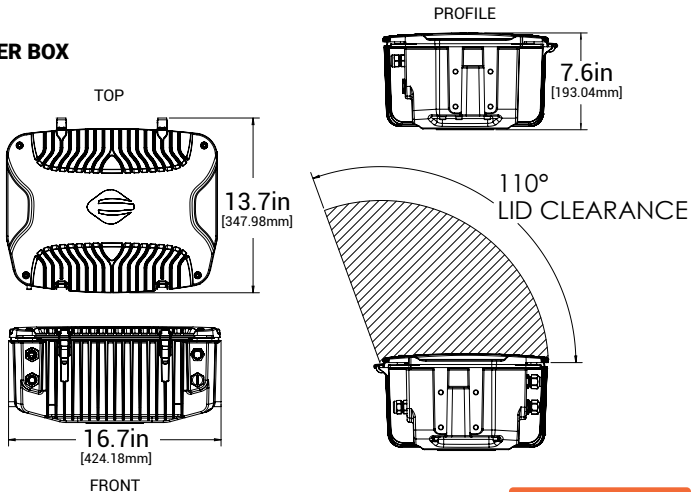
- 158,000 to 199,000 lumen output options
- Glare and cutoff control with three patented and award-winning optical system solutions
- Reduce install time with pre-aimable two-piece assembly
- Virtually eliminate maintenance with power redundancy
- Industry leading light source reliability with Chip-on-Board LEDs
- Greater than 80% lumen maintenance at >66,000
- Wired DMX or Wireless AirMesh controls options to suit your needs
- Options to meet Trade Agreements Act requirements

### Dimensional Details

#### LIGHT HEAD



#### DRIVER BOX



 **Installation Instructions**

## Ordering Information - Luminaire

NOTE: A complete luminaire order requires a selection entry for **Brand, Family, Model, Power, Color, CCT, CRI, Optic, DC Cable, Voltage, Controls, Mount, AC Cable, Options, Packaging, and International Options.**

SAMPLE ORDER NUMBER: **EPH-LS-16-1200L-BLK-57-80-1R-C04-LV-AM-LY-A00-HEG-BP-ST**

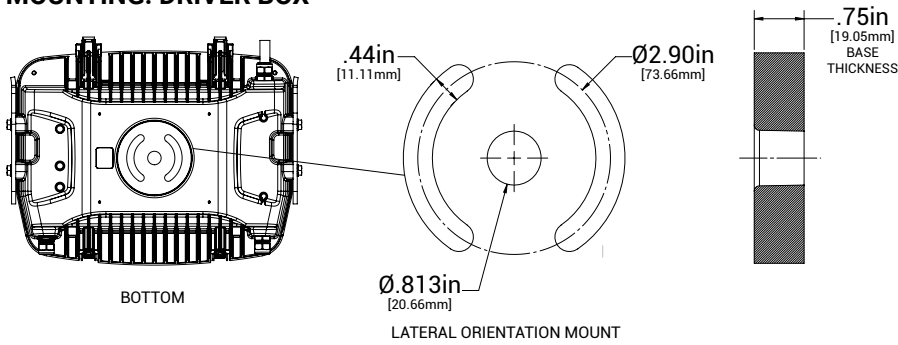
| Brand                                                                                                                                                                                                                                                                                                                            | Family                | Model                 | Power                                                                                                  | Color                                                                           | CCT                                                    | CRI                                      | Optic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Light Head Cable (DC)                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| Brand                                                                                                                                                                                                                                                                                                                            | Family                | Model                 | Power                                                                                                  | Color <sup>3</sup>                                                              | CCT <sup>4</sup>                                       | CRI                                      | Optic <sup>5</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Light Head Cable (DC) <sup>6</sup>                                  |
| <b>EPH</b> = Ephesus, Standard<br><b>TAA</b> =Trade Agreements Act <sup>1</sup>                                                                                                                                                                                                                                                  | <b>LS</b> = LumaSport | <b>16</b> = 16 Optics | <b>1200L</b> = 1200W<br>Local Power <sup>2</sup>                                                       | <b>BLK</b> = Black<br><b>WHT</b> = White                                        | <b>40</b> = 4000K<br><b>57</b> = 5700K                 | <b>70</b> = 70 CRI<br><b>80</b> = 80 CRI | <b>1R</b> = Reflector: NEMA 2   11   21<br><b>2R</b> = Reflector: NEMA 3   16   32<br><b>3R</b> = Reflector: NEMA 2   15   27<br><b>4R</b> = Reflector: NEMA 3   19   37<br><b>5R</b> = Reflector: NEMA 3   25   37<br><b>1L</b> = Reflector + Louver: NEMA 2   11   22<br><b>3L</b> = Reflector + Louver: NEMA 2   13   27<br><b>5L</b> = Reflector + Louver: NEMA 3   20   38<br><b>1S</b> = Silicone: NEMA 3   18   34<br><b>2S</b> = Silicone: NEMA 3   22   41<br><b>3S</b> = Silicone: NEMA 3   27   48<br><b>4S</b> = Silicone: NEMA 4   36   67<br><b>5S</b> = Silicone: NEMA 5   47   81 | <b>C04</b> = 4ft Cable, Standard<br><b>C10</b> = 10ft Cable         |
| Notes:<br>(1) Only product configurations with this designated prefix are built to be compliant with the Trade Agreements Act of 1979 (TAA). Please refer to <a href="#">DOMESTIC PREFERENCES</a> website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. |                       |                       | Notes:<br>(2) Local Power means that the light head is attached to the driver box with the yoke mount. | Notes:<br>(3) Not coastal rated. Contact Ephesus for coastal luminaire options. | Notes:<br>(4) 4000K option is available in 70 CRI only |                                          | Notes:<br>(5) Optic = NEMA TYPE; BEAM ANGLE; FIELD ANGLE. Additional optical performance data within spec sheet.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Notes:<br>(6) DC Cable connecting the Light Head to the Driver Box. |

| Voltage                                             | Controls                                                                        | Mount                  | Power Cable (AC)                                                                                                | Options                                                                                                                                                | Packaging                  | International Options |
|-----------------------------------------------------|---------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------|
| Voltage                                             | Control                                                                         | Mount                  | Power Cable (AC) <sup>7</sup>                                                                                   | Options <sup>8</sup>                                                                                                                                   | Packaging                  | International Options |
| <b>LV</b> = Low Voltage<br><b>HV</b> = High Voltage | <b>AM</b> = Wireless AirMesh<br><b>LB</b> = Wired DMX<br><b>NC</b> = No Control | <b>LY</b> = Local Yoke | <b>A00</b> = No Cable, Standard<br><b>A05</b> = 5ft Cable<br><b>A10</b> = 10ft Cable<br><b>A15</b> = 15ft Cable | <b>HEG</b> = No Visor   High Efficiency Glass Lens                                                                                                     | <b>BP</b> = Bulk Packaging | <b>ST</b> = Standard  |
| :                                                   |                                                                                 |                        | Notes:<br>(7) AC Cable connecting the Driver Box to the electrical power source.                                | Notes:<br>(8) Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. |                            |                       |

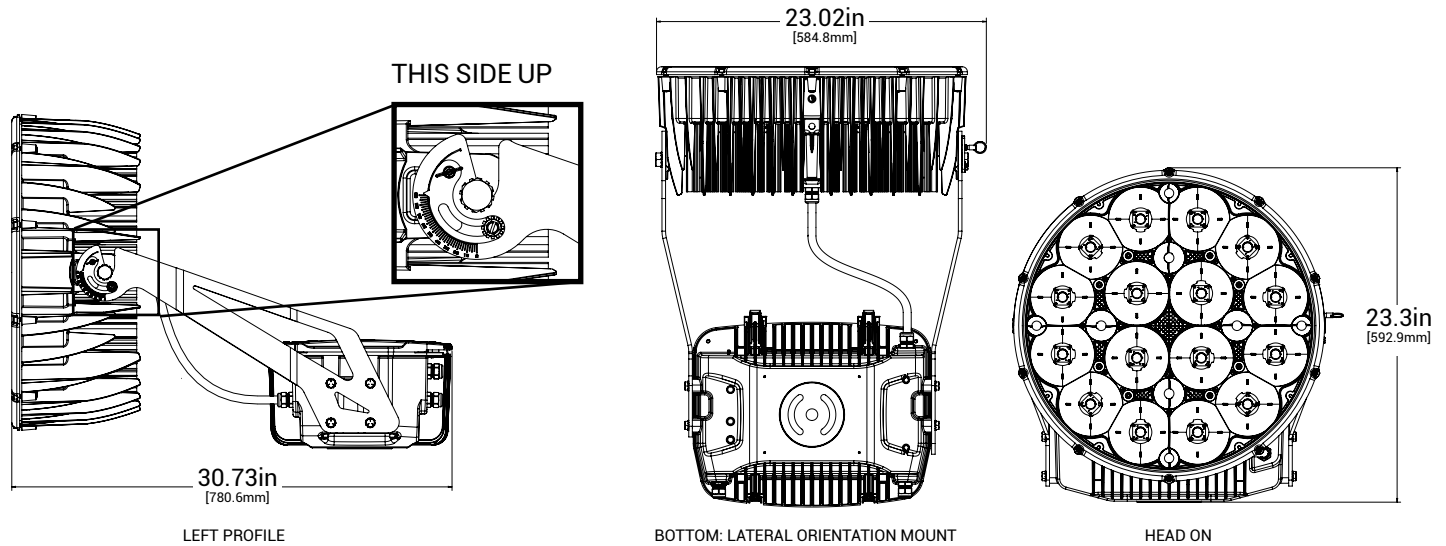
DesignLights Consortium® Qualified. Refer to [www.designlights.org](http://www.designlights.org) Qualified Products List under Family Models for details

## Dimensional and Mounting Details

### MOUNTING: DRIVER BOX



### MOUNTING CONFIGURATION: LOCAL YOKE



## Performance Data<sup>1</sup>

|                                           | LUMASPORT 16                               |
|-------------------------------------------|--------------------------------------------|
| Lumen Output Range <sup>2</sup>           | 158,000lm to 199,000lm                     |
| Nominal Power <sup>3</sup>                | 1302W                                      |
| Input Voltage (Low Voltage)               | 208-277VAC                                 |
| Input Voltage (High Voltage)              | 347-480VAC                                 |
| Efficacy Range <sup>2</sup>               | 126 - 160lm/W                              |
| CRI <sup>4</sup>                          | 70, 80                                     |
| TLCI <sup>3</sup>                         | 75                                         |
| CCT                                       | 4000K, 5700K                               |
| Distribution (NEMA)                       | 2, 3, 4, 5                                 |
| Dimming Range                             | DIM TO OFF, 10%-100%                       |
| Operating Temperature Range               | -40°C to +40°C                             |
| Usage                                     | INDOOR, OUTDOOR5                           |
| Mounting Options (1.5G RATED)             | LOCAL YOKE                                 |
| Electrical Certifications                 | FCC, UL8750, UL1598, DLC Standard (NANQSV) |
| Environmental Certifications <sup>6</sup> | ANSI C136.31-2010 1.5G, IP66, NEMA 4X      |
| Surge                                     | 10kV                                       |
| Effective Projected Area (EPA)            | 2.9 (sq. ft.)                              |
| Approximate Weight <sup>7</sup>           | 94.5 lbs                                   |

#### NOTES:

- (1) Specifications are subject to change without notice.
- (2) Refer to Optical Performance Data.
- (3) Values are +/- 4% when luminaire is operated at 25°C ambient.
- (4) Values are +/- 2%
- (5) When driver box is mounted in upright position.
- (6) Light head meets NEMA4X Certification
- (7) Weight may vary depending on mounting bracket, light head and driver box selection.

## Electrical Performance Data

| Product                      | Input voltage range (VAC) | Input current (A) | Nominal input power (W) | Power factor (@ max load) | THDi (@ max load)% | Inrush period (ms) | Peak Inrush (A) |
|------------------------------|---------------------------|-------------------|-------------------------|---------------------------|--------------------|--------------------|-----------------|
| EPH-LS-16-1200L (LV drivers) | 208                       | 6.2               | 1290                    | >0.9                      | <20%               | 10.8               | 40.4            |
|                              | 240                       | 5.4               | 1290                    | >0.9                      | <20%               | 10.8               | 40.4            |
| EPH-LS-16-1200L (HV drivers) | 277                       | 4.7               | 1302                    | >0.9                      | <20%               | 1.2                | 250.3           |
|                              | 347                       | 3.7               | 1284                    | >0.9                      | <20%               | 1.2                | 250.3           |
|                              | 480                       | 2.8               | 1344                    | >0.9                      | <20%               | 1.2                | 250.3           |

Note: All the values measured at 25°C ambient

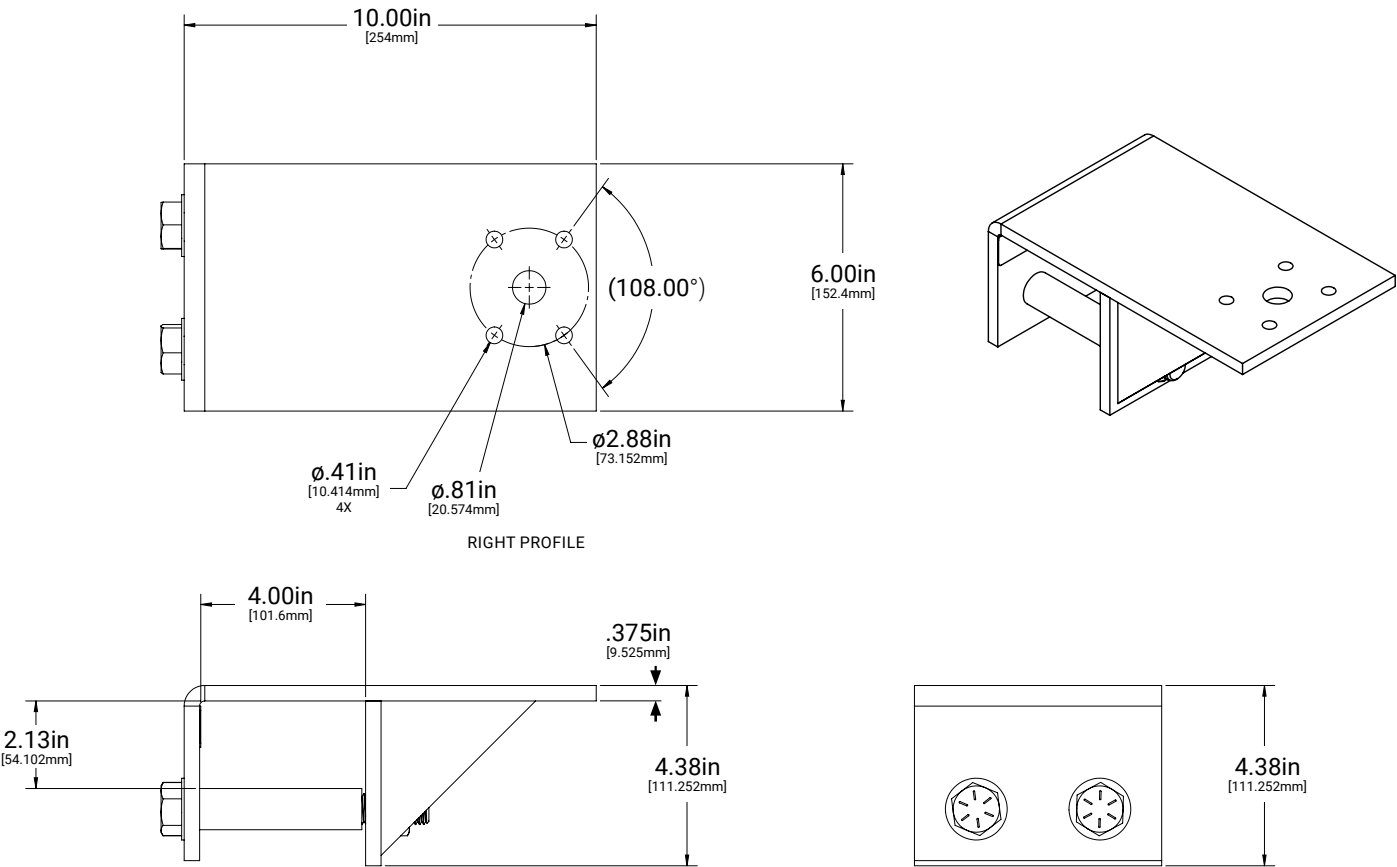
## Ordering Information for Accessories

NOTE: A complete accessory order requires a selection entry for **Brand, Accessory, Option**.

SAMPLE ORDER NUMBER: **EPH-HRDM34-025**

| Brand         | Accessory                                                                                                         | Option                                                                         | Intended Use                                                                                                                                                                                                                                                                                                                              |
|---------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EPH = Ephesus | DVGBRD = Diving Board <sup>1</sup>                                                                                |                                                                                | Designed to be used with the LUMASPORT 8, LUMASPORT 16 & LUMADAPT 8 luminaires only.                                                                                                                                                                                                                                                      |
|               | HRDM34 = Mounting Hardware 3/4in diameter                                                                         | 025 = .25in <sup>2</sup><br>075 = .75in <sup>2</sup><br>200 = 2in <sup>2</sup> | <b>HRDM34-025:</b> .25-.50in clamping thickness, use for diving board (DVGBRD) or other flat surfaces drilled for 3/4 hardware<br><b>HRDM34-075:</b> .50-.75in clamping thickness, flat surfaces drilled for 3/4 hardware<br><b>HRDM34-200:</b> 2.00in clamping thickness, use for 2in x 4in Cross arms that are drilled for 3/4 hardware |
|               | Notes:<br>(1) Additional mounting fastener hardware kit needed to attach a luminaire to the DVGBRD = Diving Board | Notes:<br>(2) Option only available for use with HRDM34                        |                                                                                                                                                                                                                                                                                                                                           |

Diving Board (DVGBRD) Dimension and Part Details:



Diving Board Data

| Model #             | Weight (lbs) |
|---------------------|--------------|
| DVGBRD              | 15.1         |
| DVGBRD + HRDM34-025 | 16.1         |

Diving Board Parts

| Description                                            | Quantity |
|--------------------------------------------------------|----------|
| Welded Bracket                                         | 1        |
| Bolt Sleeve                                            | 2        |
| 3/4in-10 X 6in Structural Hex Bolt, Hot Dip Galvanized | 2        |
| 3/4in Steel Flat Washer, Hot Dip Galvanized            | 2        |
| 3/4in Ext Tooth Washer, Steel, Magni-565 Grey Polycoat | 2        |
| 3/4in-10 Structural Steel Hex Nut, Hot Dip Galvanized  | 2        |
| Stainless Shim                                         | 1        |

## HRDM34 Dimension and Part Details:

### HRDM34-025:

.25-.50in clamping thickness, use for diving board (DVGBRD) or other flat surfaces drilled for 3/4 hardware

### HRDM34-075:

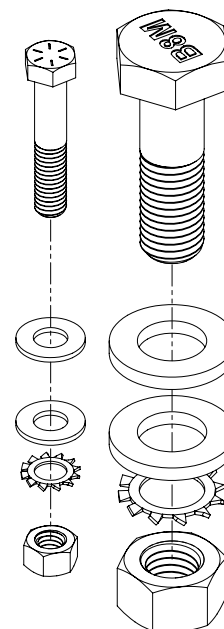
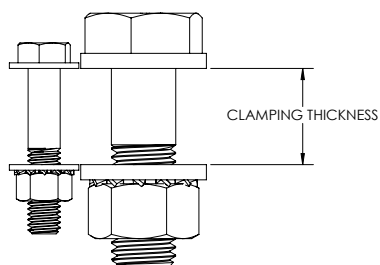
.50-.75in clamping thickness, flat surfaces drilled for 3/4 hardware

### HRDM34-200:

2.00in clamping thickness, use for 2inx4in Cross arms that are drilled for 3/4 hardware

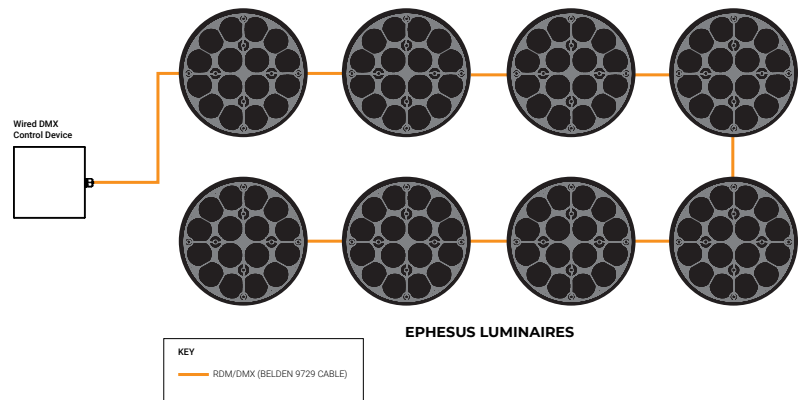
## HRDM34 Data

| Model #    | Weight (lbs) |
|------------|--------------|
| HRDM34-025 | 1            |
| HRDM34-075 | 1.5          |
| HRDM34-200 | 2            |



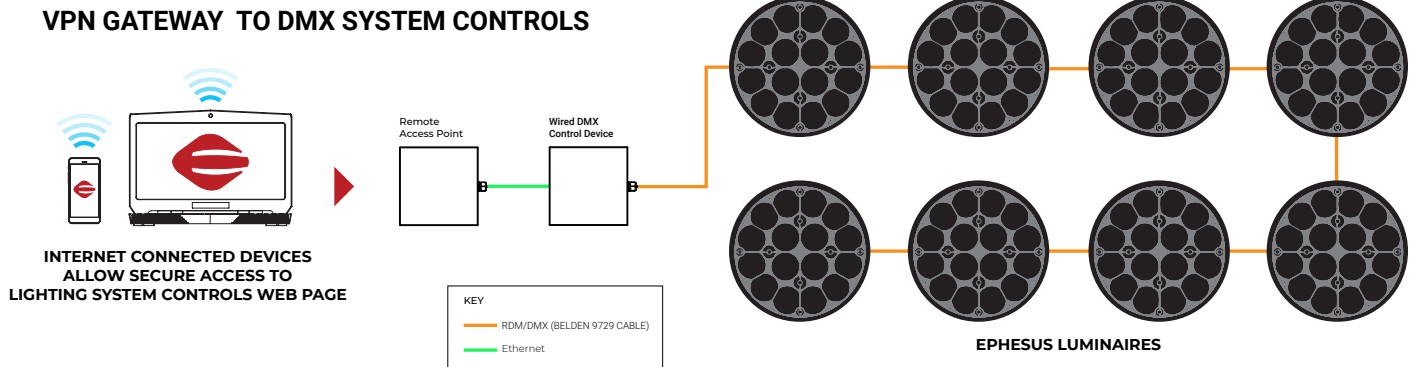
## Example System Topology (Wired DMX Controls)

Example system topology showing the LUMASPORT 16 System in a commonly used wired DMX Control Installation. Refer to the specifications and limitations of your wired DMX control device before installing this configuration.



## Example System Topology (Remote Access Point With Wired DMX Controls)

Example system topology showing the LUMASPORT 16 System in a commonly used remote access point with wired DMX Control Installation. Refer to the specifications and limitations of your wired DMX control device before installing this configuration. Note: Laptop and mobile device not included. A cellular network connection requires a cellular carrier network plan.



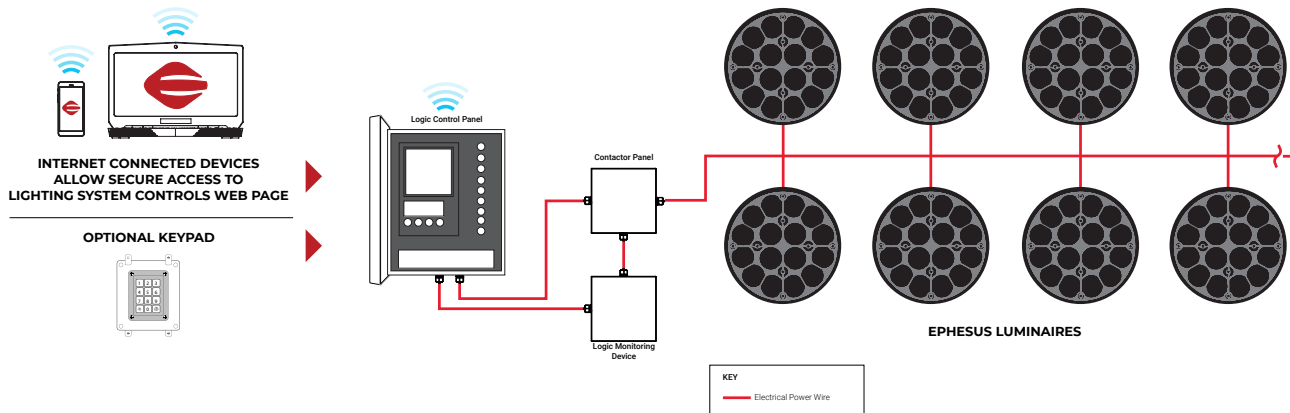
### NOTES:

Remote Access Point requires either a wired internet connection at the lighting system site or through a cellular carrier network connection plan.

## Example System Topology (Contactor Controls)

Example system topology showing the LUMASPORT 16 System in a Wired Contactor Controls Installation.

Note: Laptop and mobile device not included. A cellular network connection requires a cellular carrier network plan.



## Example System Topology (Wireless AirMesh Controls)

Example system topology showing the LUMASPORT 16 System in a Wireless AirMesh Control Installation.

Note: Laptop and mobile device not included. A cellular network connection requires a cellular carrier network plan.

