

Ferris ISD

Sports Lighting Proposal



FEATURING  ephesus

WE LIGHT
THE WAY.





NGU

SPORTS LIGHTING

FEATURING  ephesus



Switch to an LED sports lighting solution
because it all comes down to



CONTROL

THE SYSTEM ♥ THE LIGHTS ♥ THE PRESENTATION ♥ THE COSTS

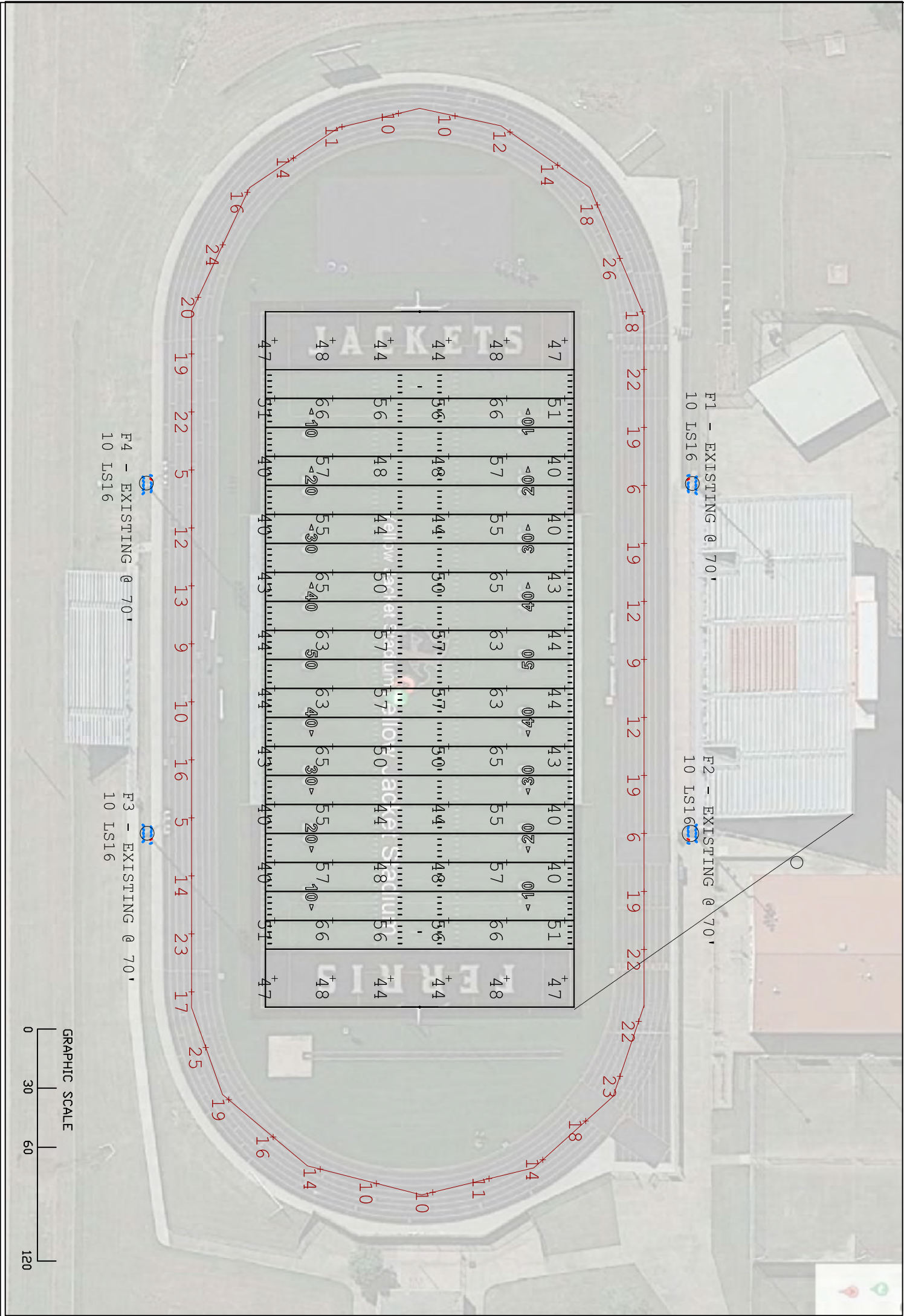


To learn how to take control of your sports lighting, scan this QR code.
1-800-573-3600 | ephesuslighting.com



Luminaire Schedule							
Symbol	Qty	Label	Lum. Lumens	LLF	Description	Lum. Watts	Total Watts
	36	LS-4R	158622	0.950	EPH-LS-16-1200L-57-80-4R	1290	46440
	4	LS-2R	158312	0.950	EPH-LS-16-1200L-57-80-2R	1290	5160

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Field	Illuminance	Fc	51.00	66	40	1.28	1.65
Track	Illuminance	Fc	15.33	26	5	3.07	5.20
							CV
							UG



THIS IS NOT A CONSTRUCTION DOCUMENT

NOTICE: THIS DRAWING IS THE EXCLUSIVE PROPERTY OF NGU SPORTS LIGHTING LLC. ITS ACCEPTANCE CONSTITUTES AGREEMENT THAT THE DRAWING WILL BE TREATED AS CONFIDENTIAL. IT IS TO BE RETURNED UPON REQUEST AND IS NOT TO BE COMMUNICATED, DISCLOSED, OR COPIED EXCEPT AS EXPRESSLY AUTHORIZED BY NGU.

THE INTENT OF THIS LIGHTING LAYOUT IS TO SUGGEST THE BEST UTILIZATION AND THE PERFORMANCE OF EPHESIS LUMINAIRES REPRESENTED HERE. IT WAS BASED UPON INFORMATION PROVIDED TO NGU SPORTS LIGHTING, LLC AND ANY VARIATION FROM DESIGN TO INSTALLATION MAY AFFECT THE EXPECTED RESULTS.



2401 PGA Blvd, Suite 110
Palm Beach Gardens, FL 33410
www.NGUsportslighting.com
Phone: 1-855-NGU-LEDS
Passion and Commitment exclusively for Epietus LED Sports Lighting

YELLOW JACKET STADIUM
FERRIS, TX
50 AVERAGE FC FIELD/ 15 AVERAGE FC TRACK
EXISTING 70' POLES

DESIGNED BY	DATE	SCALE	DRAWING NUMBER
H. JOHNSON, LC	3/01/2022	1" = 60'	LD22381

NGU Sports Lighting, LLC

2401 PGA Blvd., Suite 110
Palm Beach Gardens, FL 33410
kathy@ngusportslighting.com
www.ngusportslighting.com



BUDGET ESTIMATE

TO:

James Hartman – Superintendent
Steve Greek – Athletic Director
Ferris High School
301 E. 5th St., Ferris Texas 75125

PROJECT NAME

Ferris Independent School District
Football, Softball, Baseball Field(s) LED Upgrade

BUDGET ESTIMATE #: 2022030122

DATE: 03/09/2022

EXPIRATION DATE: 04/30/2022

Following up on the inquiry for the Ferris ISD we are pleased to provide you with a budget estimate, for the project located in Ferris, TX. NGU Sports Lighting provides state of the art LED lighting systems. We use steadfast equipment and have the best professionals working for us.

NGU Sports Lighting will provide a new solid-state LED sports lighting system for the football (50 horizontal footcandles average) maintained, baseball (50/30 infield/outfield footcandles average) maintained and softball field (30/20 infield/outfield footcandles average) maintained. NGU intends to provide a turnkey system with material, installation, and project management services. This system will incorporate a wireless communication system (AirMesh) with remote control programming for up to eight standard or dynamic scenes and includes operational training.

The new system will be utilizing the Lumasport 16 fixture on the football and the Lumasport 8 fixture on the baseball and softball fields, mounting hardware, an AirMesh wireless control system, and a 10-year equipment warranty covering the LED fixtures.

- Demolition of existing HID fixtures and installation of the new LED fixture(s) per design including mounting hardware
- Commissioning of fixtures to be used with the Synapse system
- Aiming of the fixtures
- User operational training

Additional items for consideration:

- EPA comparisons have been completed by the NGU team. However, NGU is not responsible for the structural integrity of existing infrastructure.
- Prior to installation, all HID fixtures need to be in working order, void of any electrical issues. HID lamp outages are understandable, but all wiring, junction box, remote ballast boxes, drop cable or voltage concerns need to be dealt with prior to NGU installation.

- o NGU Lighting Designer requested mounting heights and setbacks be confirmed for a final design and aiming diagram.
- o One (1) AirMesh Hub included. The HUB can be installed anywhere you need with wireless, push-button control. The hub does not require LAN connection or cellular network for local communication.
- o To operate the lights, *when not on the premises*, remote connectivity to the HUB is required via Ethernet or cellular service. If local VPN service is not available or cellular access is used, a remote management service called Simply Snap Cloud is necessary, which requires a yearly subscription. Please review the product overview cutsheets and ask your sales specialist for more information regarding the AirMesh Hub and remote connectivity.
- o The offers are based on installing the fixtures (*on all fields*) in a 2–3-week schedule. This will eliminate multiple mobilization for lifts and crews. It will also save on freight and the need for multiple trips for the NGU project management team.

❖ FOOTBALL LED SPORTS LIGHTING UPGRADE	\$208,000
❖ BASEBALL LED SPORTS LIGHTING UPGRADE	\$165,000
❖ SOFTBALL LED SPORTS LIGHTING UPGRADE	\$ 65,000

TOTAL	<u>\$438,000</u>
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Commission Program

NGU would like to host showcase events – highlighting the new Ephesus sports lighting system – and invite other high school decision makers to see the new systems. We will coordinate these events with you to insure schedules work. We would be responsible for all costs incurred for these events. We have found them to be very effective in helping us grow the business.

In return for allowing us this marketing opportunity we will pay a 3% commission – based on the total project volume – for all sales made to customers who participated in these events. We will provide you with a list of attendees and provide periodic updates on our sales process. Within 30 days of a receipt of a customer PO we will make the payment.

This program will cover the period two years from the completion of the projects. Given the market and our past experience we believe the commission generated can significantly offset the project costs for these fields. upgrade.

Important Notes/Terms and Conditions – **PLEASE READ**

- ✓ The schedule will be developed upon receipt of the order with our customer by a Senior Project Manager dedicated to your project success
- ✓ Price includes delivery to Jobsite using standard shipping methods
- ✓ Payment Terms: 50% down payment, 35% when material ships, 15% at the end of installation (late fees apply), **price does not include sales or use tax if any**
- ✓ Business offer/purchase price is for the number of fixtures used in the lighting design
- ✓ Permitting or other local ordinance project-related fees are omitted

Approved:

Michael Lorenz

Mike Lorenz – CEO, NGU Sports Lighting

Accepted:

On Behalf of Ferris High School

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

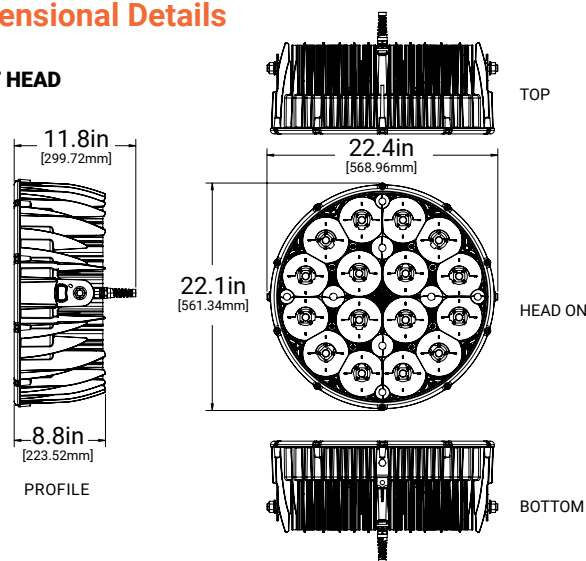


Top Product Features

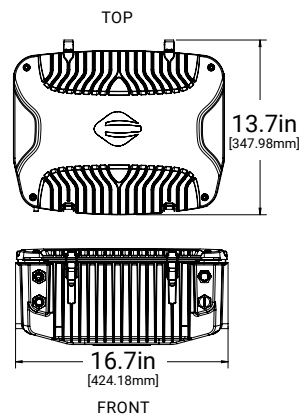
- Integrated Louver and Reflector Optics
- Redundant Dual Power
- Chip-On-Board (CoB) LEDs
- 2-Piece Ease of Assembly
- Custom Control Options

Dimensional Details

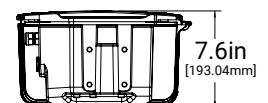
LIGHT HEAD



DRIVER BOX



PROFILE



110°
LID CLEARANCE

[Installation Instructions](#)



PRISM RGBA

Dynamic Scenes

RGBA Color LED

Lumen(lm) Output:

R>10,840 | G>12,900

B>2,450 | A>10,800

KEY

OFF

DIM

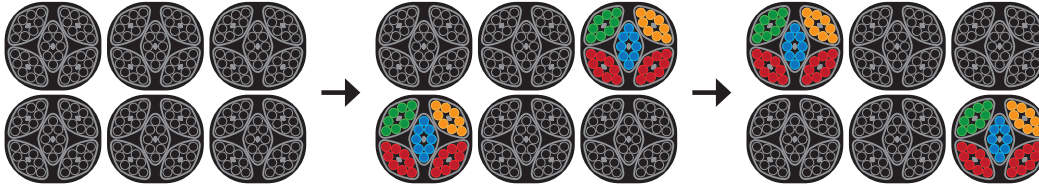
ON



Paparazzi [Standard & Fast]¹

Each light illuminates briefly in a random manner that resembles paparazzi flash bulbs.

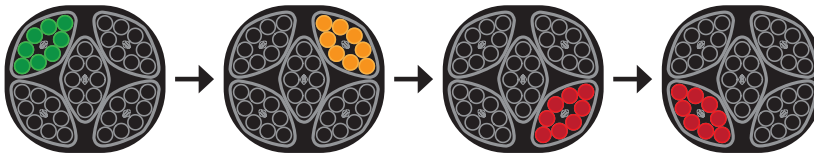
When entering this mode, all fixtures will immediately turn OFF. Fast paparazzi fires faster than standard paparazzi.



Pinwheel

The outer LED modules on each fixture illuminate individually and rapidly in a rotating manner.

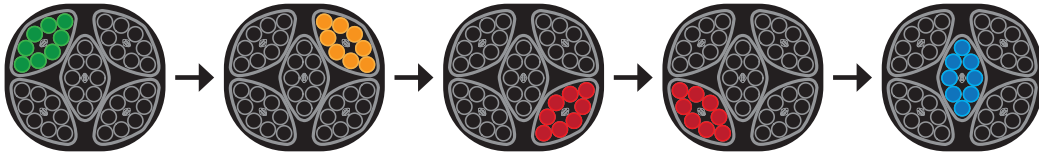
When entering this mode, the center LED module on each fixture will turn OFF. All but one of the four outer LED modules will turn off. Every 100 milliseconds, the next outer LED module (clockwise) will turn on to 100% and the previous LED module will turn off.



Pinwheel 5

All LED modules on each fixture illuminate individually and rapidly in a rotating manner.

When entering this mode, all but one of the outer LED modules will turn off. Every 100 milliseconds, the next LED module (clockwise) ending with the center LED module will turn on to 100% and the previous LED module will turn off.



Sparkle [Standard & Fast]²

Each light illuminates briefly in a random manner mimicking a glittery, sparkling appearance.

When entering this mode, all fixtures will immediately turn ON. Fast Sparkle fires more rapidly than standard sparkle.



Random

Lights illuminate throughout the installation in a random manner.

All fixtures will immediately turn ON to a random dimming level between 0 and 100%. Every 100 milliseconds, each fixture will change to another random dimming level.



Unless otherwise stated for a particular scene affects independently and the scene will remain in operation until another scene or mode of operation is selected.

¹For each flash period, a light will have a 10% chance of turning on under Paparazzi, and a 20% chance under Fast Paparazzi. For each flash period, a light will have a 10% chance of turning on under Paparazzi, and a 20% chance under Fast Paparazzi.

²For each flash period, a light will have a 10% chance of turning on under Sparkle, and a 20% chance under Fast Sparkle.

Project		Catalog #		Type	
Prepared by		Notes		Date	



Ephesus

LUMASPORT 8

White LED Sports & Entertainment Luminaire

Typical Applications

Pro Arenas • University & Collegiate Arenas • University & Collegiate Stadiums • Multi-Event & Convention Centers • Gymnasiums & Field Houses

Interactive Menu

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- Ordering Information for Accessories [page 8](#)
- Accessory Dimensions and Part Details [page 9](#)
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Product Certification

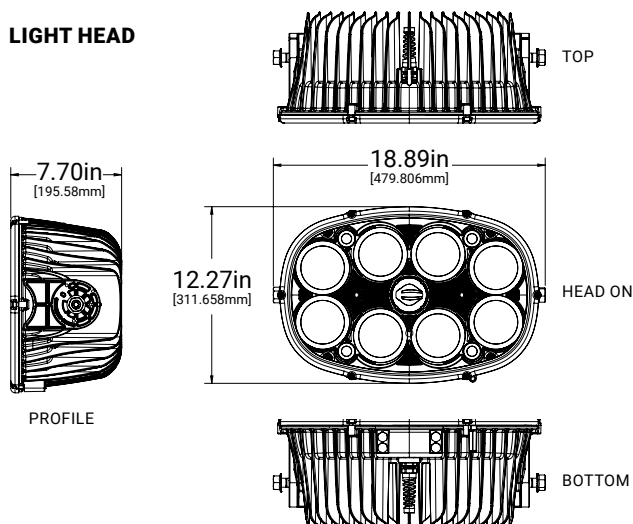


Top Product Features

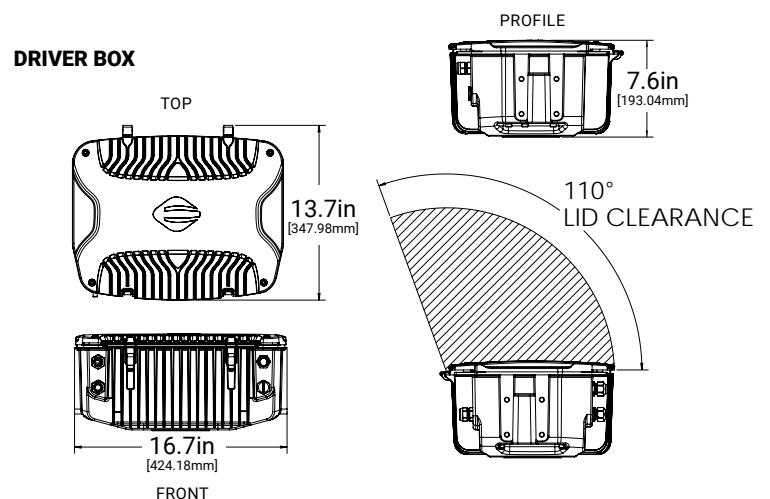
- 55,000 or 90,000 lumen output options
- Glare and cutoff control via Hybrid Reflector and TIR Optical System
- Reduce install time with pre-aimable two-piece assembly
- Virtually eliminate maintenance with power redundancy
- Industry leading light source reliability with Chip-on-Board LEDs
- Greater than 92% lumen maintenance at 55,000 hours
- Wireless AirMesh, Wired DMX or sACN controls options to suit your needs

Dimensional Details

LIGHT HEAD



DRIVER BOX



Project		Catalog #		Type	
Prepared by		Notes		Date	



Ephesus

AirMesh Hub

Wireless Lighting System Controls

Typical Indoor/Outdoor Applications

- Professional Stadiums & Arenas • University/Collegiate Stadiums & Arenas
- K-12 Stadiums & Arenas • Game Fields • Practice Fields • Multi-use Recreational & Municipal Fields • Public Assembly & Convention Centers
- Gymnasiums & Field Houses • Unmanned Sports Facilities

Interactive Menu

- AirMesh Hub page 1
- Product Overview page 2
- Dynamic Scenes page 3

Product Certification

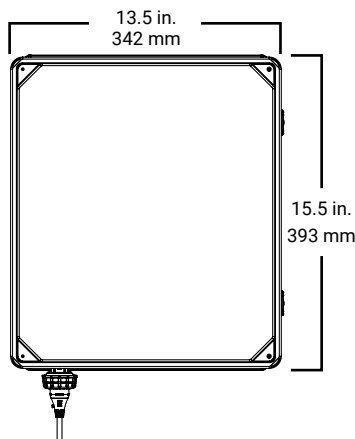


Top Product Features

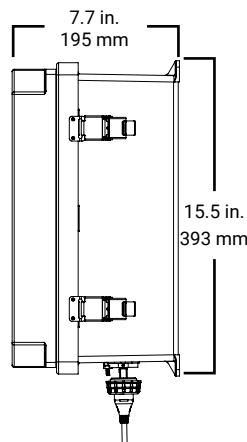
- Can be installed anywhere you need wireless, push-button control
- Five-button, pre-programmed switch provides easy control of all lights at specified dimming levels (0%, 25%, 50%, 75%, 100%)
- Can communicate via LAN connection, Wi-Fi, or through a cellular network*
- Weather-protected for outdoor venues
- Includes internal surge protection
- Enables Static and Dynamic Scenes

Dimensional Details

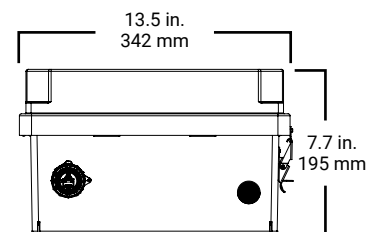
HEAD ON



LEFT PROFILE



BOTTOM



Due to our continuous improvement efforts, specifications are subject to change without notice.
*Cellular and/or data charges may apply



Product Overview

The AirMesh Hub is an Ephesus component that can be installed anywhere you need wireless push-button lighting control, such as municipal ballparks, hockey arenas, basketball facilities, and other multi-use complexes. The AirMesh Hub is easy for certified electricians to install in both indoor and outdoor applications that's contained in the NEMA 4X enclosure. The 5-button 25 scenes (5 per button) controller allow for local manual access to facility lighting across specific zones or over the entire lighting installation. The AirMesh Hub enables quick and simple access to a switch station that can be programmed with unlimited options to meet the needs of the end-user.

AirMesh Hub Specifications

Dimensions	15.5" x 13.5" x 7.7" (393 x 342 x 195 mm)
Input Power	Outdoor rated power supply 90-120VAC; 8W max, 6kV surge protection
Operating Environment	Outdoor rated at -20°C to +55°C, IP65 (when latched)
Cellular	Verizon 4G LTE
Wi-Fi	802.11 b/g/n
Radio	SNAP 2.4GHz 802.15.4 Wi-Fi 2.4GHz 802.11 b/g/n
Certifications	FCC/IC; Tested to CAN/CSA C22.2 No. 60950-1/A2:2014 and UL 60950-1/R:2014-10
Ratings	IP65 ^{1 2}

AirMesh Function

	Description
Maximum number of lights controlled by hub	Up to 1000
Maximum distance of fixture from location of hub	500 feet
Maximum allowable distance from one fixture to next	500 feet
Maximum number of programmable pre-set scenes	25 (5 per button)
Individual light control	Preprogrammed via 5-button hub. Additional scenes and light control obtained via web interface with hub
Health monitoring³	Real-time monitoring of lighting status at the fixture and system level, outage notifications, storage of power consumption, temperature and other system parameters which can be retrieved for later analysis*
Remote Connectivity	Web interface can be accessed by direct Wi-Fi connection or through internet via Ethernet or built-in cellular*
Alerts	Email alerts available when connected to internet via Ethernet or built-in cellular*
Users	User and administrative accounts with multiple permission levels available
Sensors	Voltage-sourcing sensors can be added to the system to turn lights on/off with daylight or occupancy sensors. Multiple output levels in response to light sensors (daylight harvesting)
Map View	Ability to view light state (on/off/ alarm) in graphical map/satellite view
Scheduling	Ability to schedule recurring events at fixed times or based on astronomical clock
Compatibility	Ability to add control modules to existing lighting fixtures to add Air-Mesh functionality to entire facility

Notes:

Due to our continuous improvement efforts, specifications are subject to change without notice.

¹To maintain IP rating of the unit, it must be installed with a IP65/NEMA 4X fitting at the power and ethernet entry points

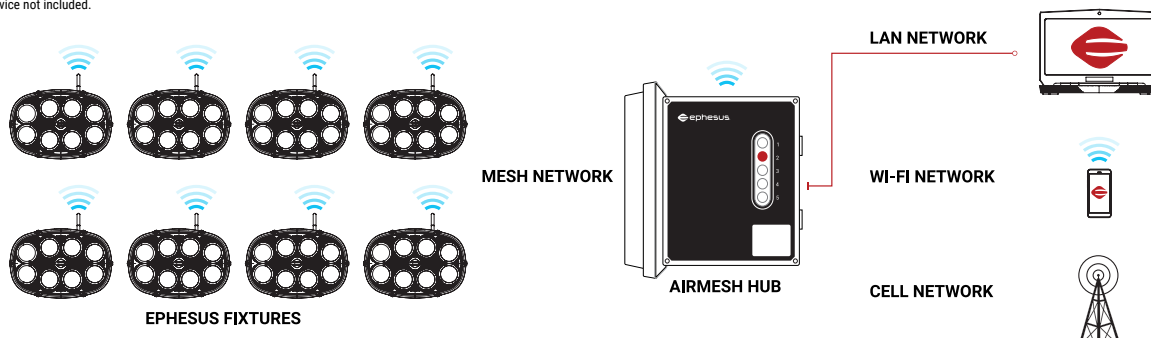
²The AirMesh Hub holds a rating of IP65 for outdoor when the door is latched and all entry ports (power and Ethernet) are properly sealed. Failure to properly seal entry ports and latch the door will void the IP65 rating.

³Refer to the functionality of your Ephesus fixture for health monitoring capability.

Sample System Topology (Wireless AirMesh Controls)

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

Note: Lap top or mobile device not included.





Project Number: _____

Date of Shipment: _____

Ephesus Fixture 10-Year Limited Warranty

I. What the Warranty Covers

Cooper Lighting, LLC ("Cooper Lighting") warrants to the purchaser ("You" or "User") of the new Ephesus fixtures from Cooper Lighting or an authorized distributor for the original installation location ("Covered Products") that the Covered Products shall, **for a period of ten (10) years from the date of original shipment (the "Warranty Period"), be free from defects in material and workmanship.** During the Warranty Period, Cooper Lighting's sole obligation, and User's sole remedy, shall be, at Cooper Lighting's discretion, to repair or replace for Covered Products to restore the operation of the Covered Products to original design criteria as necessitated by failure of the Covered Products during normal usage. This obligation is triggered only after You experience failure of 10% of the Covered Products.

If there is any conflict between the terms of this Warranty and information communicated either orally or in writing by Cooper Lighting employees or agents, including any statements made by distributors or re-sellers, this Warranty controls.

II. Warranty Activation / Service Claims

You must make a valid claim to Cooper Lighting to receive coverage under the Warranty. Warranty claims can be serviced by contacting Cooper's customer service and sales center:

Phone: (315) 579-2873

Email: ephesuswarranty@cooperlighting.com

If you are unsure whether a situation exists that is covered by the Warranty, please contact Cooper's customer service and sales center at the phone number or email address listed above for assistance.

III. What Is Not Covered Under the Warranty

This Warranty does not cover:

- a) cosmetic defects;
- b) damage, defects, or failure caused by:
 - i. acts of God (including but not limited to floods, tornadoes, lightning or earthquakes);
 - ii. accident, theft, vandalism, abuse, animal or insect infestation, or negligence;
 - iii. sport or other related activity or other regular use of the installation location;
 - iv. misuse, misapplication, or modification of any part of the Covered Product;
 - v. improper storage, installation, repair, operation, inspection or maintenance;
 - vi. the use of unauthorized components, parts, accessories, or other materials or by equipment or products manufactured by someone other than Cooper Lighting;
 - vii. wrong or inadequate electrical current, connection or supply;
 - viii. conditions that do not meet IEEE Emerald Book standards for grounding of sensitive electronics; or
 - ix. transit.
- c) other equipment or products manufactured by someone other than Cooper Lighting, including but not limited to control system components (hub, DMX wiring, control cards, gateway), poles/crossarms/other structures, mounting gear or other non-

product related material.

This Warranty does not cover and Cooper Lighting will not be responsible for the costs of labor relating to the de-installation of any Covered Product or re-installation of any replacement Product; the shipment of Products; or post-installation testing of any Product for purposes of this Warranty. This Warranty also does not cover and Cooper Lighting will not be responsible for costs associated with lift/crane rental, wiring, pole installation, and existing infrastructure.

IV. What Voids the Warranty

This Warranty is void, and Cooper Lighting shall have no liability hereunder, with respect to a Covered Product if You or any person other than an employee, independent contractor, or subcontractor of Cooper Lighting: (a) install or use a Covered Product in a manner that is not in accordance with the applicable specifications and instructions, including, but not limited to, over/under voltage or current conditions, excessive switching cycles, operating hours, or outside any applicable operating conditions; (b) without the prior written consent of Cooper Lighting, modify, tamper, or disassemble a Covered Product, including, without limitation, alter serial numbers or removes factory supplied stickers or labels of a Product; or (c) use unauthorized components, parts, accessories, or other materials to repair a Covered Product.

V. Replacement of or Repair to Product

Cooper Lighting, in its discretion, may use new, reconditioned, refurbished, repaired or remanufactured products or parts to repair or replace a Covered Product that meets the conditions of this Warranty. Repaired or replaced Covered Products are warranted for the remainder of the original Warranty Period.

VI. Limitation of Warranty

THIS IS YOUR SOLE EXPRESS WARRANTY WITH RESPECT TO THE COVERED PRODUCTS. COOPER LIGHTING DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

VII. Limitation of Liability

THE AGGREGATE LIABILITY OF COOPER LIGHTING ARISING FROM OR RELATED TO THIS WARRANTY, SHALL BE LIMITED TO THE ORIGINAL PURCHASE PRICE OF THE COVERED PRODUCTS FROM COOPER LIGHTING. THE REMEDIES OF THE USER SET FORTH IN THIS WARRANTY ARE EXCLUSIVE AND ARE USER'S SOLE REMEDIES FOR ANY FAILURE OF COOPER LIGHTING TO COMPLY WITH ITS OBLIGATIONS HEREUNDER. NOTWITHSTANDING ANY PROVISION TO THE CONTRARY, IN NO EVENT SHALL COOPER LIGHTING BE LIABLE IN CONTRACT (INCLUDING WARRANTY), IN TORT (INCLUDING NEGLIGENCE OR STRICT LIABILITY) OR OTHERWISE FOR DAMAGE TO PROPERTY OR EQUIPMENT OTHER THAN PRODUCTS TO WHICH THIS WARRANTY RELATES, LOSS OF PROFITS OR REVENUE, LOSS OF USE OF PRODUCTS, COST OF CAPITAL, CLAIMS OF CUSTOMERS OF THE USER OR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES WHATSOEVER, REGARDLESS OF WHETHER SUCH POTENTIAL DAMAGES ARE FORESEEABLE OR IF USER HAS BEEN ADVISED OF SUCH DAMAGES.

VIII. Severability

If any term or provision of this Warranty is held invalid or unenforceable, the



info@ngusportslighting.com
www.ngusportslighting.com
(855) NGU-LEDS

2401 PGA Blvd
Suite 110
Palm Beach Gardens, FL 33410

Labor Warranty Addendum to Cooper Lighting Warranty

This labor warranty is in effect when the Cooper material warranty is in effect.

During the Fixture Warranty Period (10 years), NGU Sports Lighting will repair or replace Covered Products to restore the operation of the Covered Products to original design criteria as necessitated by failure of the Covered Products during normal usage. **For a period of ten (10 years) after the 31st day following installation ("Labor Warranty Period")**, Cooper Lighting will also provide labor to restore the operation of the Covered Products to original design criteria ("Covered Service").

If there is any conflict between the terms of this Warranty and information communicated either orally or in writing by NGU Lighting employees or agents, including any statements made by distributors or re-sellers, this Warranty controls

Warranty Activation / Service Claims

You must make a valid claim to NGU Sports Lighting to receive coverage under the Warranty. Warranty claims can be serviced by contacting NGU's Lighting's customer service and sales center:

Phone: (855) 648-5337

Email: ephesuswarranty@ngusportslighting.com

If you are unsure whether a situation exists that is covered by the Warranty, please contact NGU Lighting's customer service and sales center at the phone number or email address listed above for assistance.

If NGU Lighting determines that a Labor Warranty Claim exists, NGU will coordinate securing the new replacement fixtures and installation at no cost to the customer. This Warranty does not cover labor costs associated with existing wiring or existing infrastructure.

NEVER GIVE UP.



SPORTS LIGHTING

Lighting of Champions



2016 2018 2021

