Project		Catalog #		Type	
Prepared by		Notes		Date	

Ephesus
LUMA**SPORT 16**

White LED Sports & Entertainment Luminaire

Typical Applications
Pro Stadiums • University & Collegiate Stadiums

Interactive Menu

Product Certification

UL CERTIFIED SAFETY   FC   IP66   DLC LISTED   TAA TRADE AGREEMENTS ACT AVAILABLE   Light ARchitect™
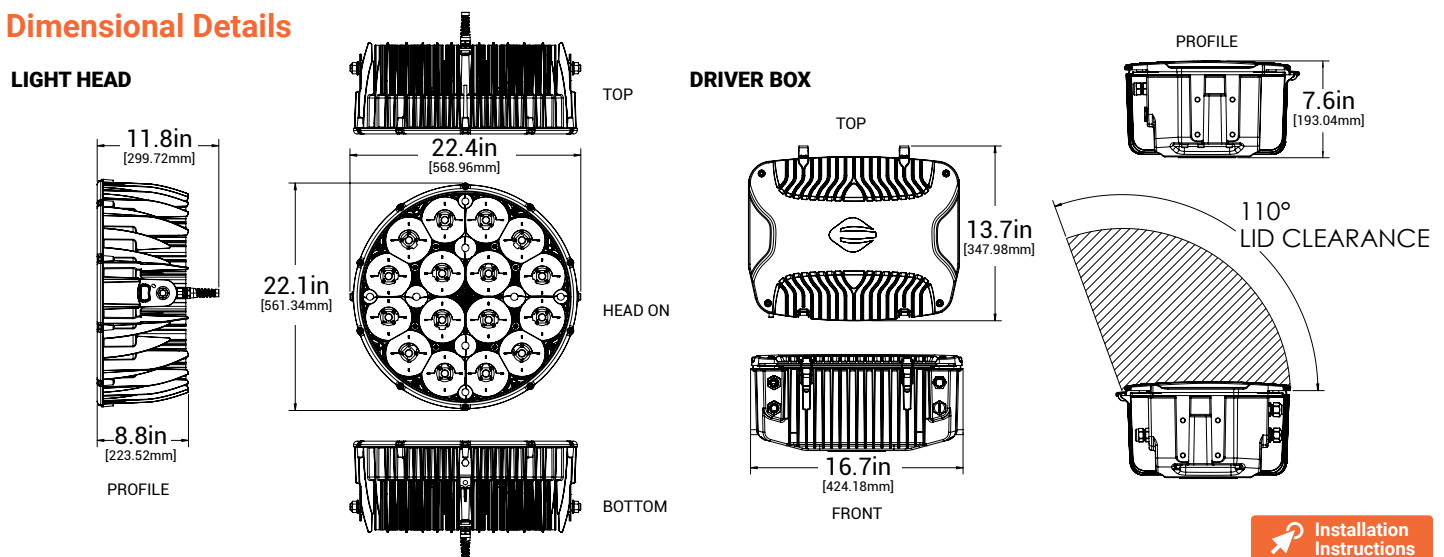
Top Product Features

- 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

11.8in [299.72mm]

22.4in [568.96mm]

TOP

22.1in [561.34mm]

HEAD ON

8.8in [223.52mm]

PROFILE

BOTTOM

DRIVER BOX

TOP

13.7in [347.98mm]

16.7in [424.18mm]

FRONT

PROFILE

7.6in [193.04mm]

110° LID CLEARANCE

Installation Instructions

COOPER
Lighting Solutions
a Signify business

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**.

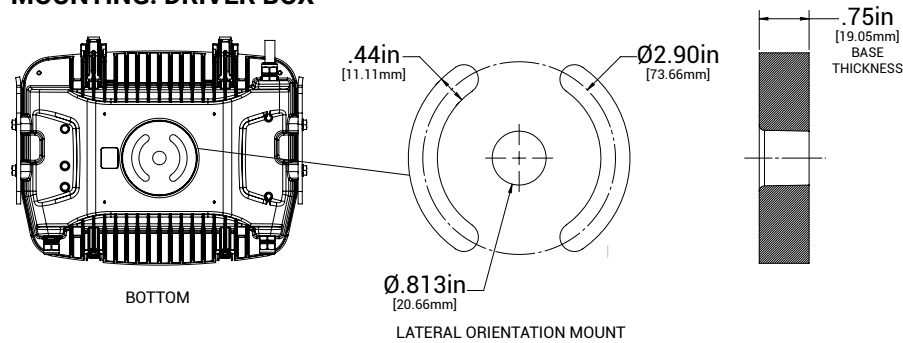SAMPLE ORDER NUMBER: **EPH-LS-16-1200L-BLK-57-80-1R-C04-LV-AM-LY-A00-HEG-BP-ST**

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

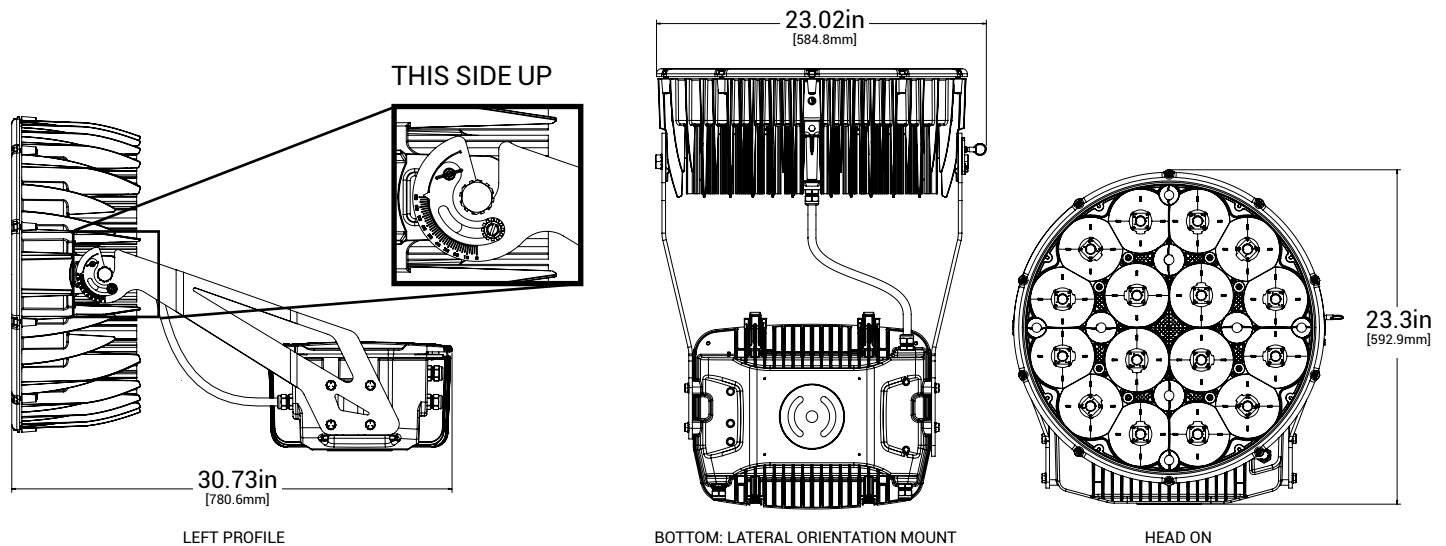| Voltage	Controls	Mount	Power Cable (AC)	Options	Packaging	International Options
LV = Low Voltage **HV** = High Voltage	**AM** = Wireless AirMesh **LB** = Wired DMX **NC** = No Control	**LY** = Local Yoke	**A00** = No Cable, Standard **A05** = 5ft Cable **A10** = 10ft Cable **A15** = 15ft Cable	**HEG** = No Visor | High Efficiency Glass Lens	**BP** = Bulk Packaging	**ST** = Standard
:			Notes: (7) AC Cable connecting the Driver Box to the electrical power source.	Notes: (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 Qualified Products List under Family Models for details

COOPER
Lighting Solutions
a Signify business

Dimensional and Mounting Details

MOUNTING: DRIVER BOX

BOTTOM

.44in
[11.11mm]

Ø2.90in
[73.66mm]

.75in
[19.05mm]
BASE
THICKNESS

Ø.813in
[20.66mm]

LATERAL ORIENTATION MOUNT

MOUNTING CONFIGURATION: LOCAL YOKE

THIS SIDE UP

30.73in
[780.6mm]

LEFT PROFILE

23.02in
[584.8mm]

BOTTOM: LATERAL ORIENTATION MOUNT

23.3in
[592.9mm]

HEAD ON

Performance Data[1]

	LUMA**SPORT 16**
Lumen Output Range[2]	158,000lm to 199,000lm
Nominal Power[3]	1302W
Input Voltage (Low Voltage)	208-277VAC
Input Voltage (High Voltage)	347-480VAC
Efficacy Range[2]	126 - 160lm/W
CRI[4]	70, 80
TLCI[3]	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[6]	ANSI C136.31-2010 1.5G, IP66, NEMA 4X
Surge	10kV
Effective Projected Area (EPA)	2.9 (sq. ft.)
Approximate Weight[7]	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

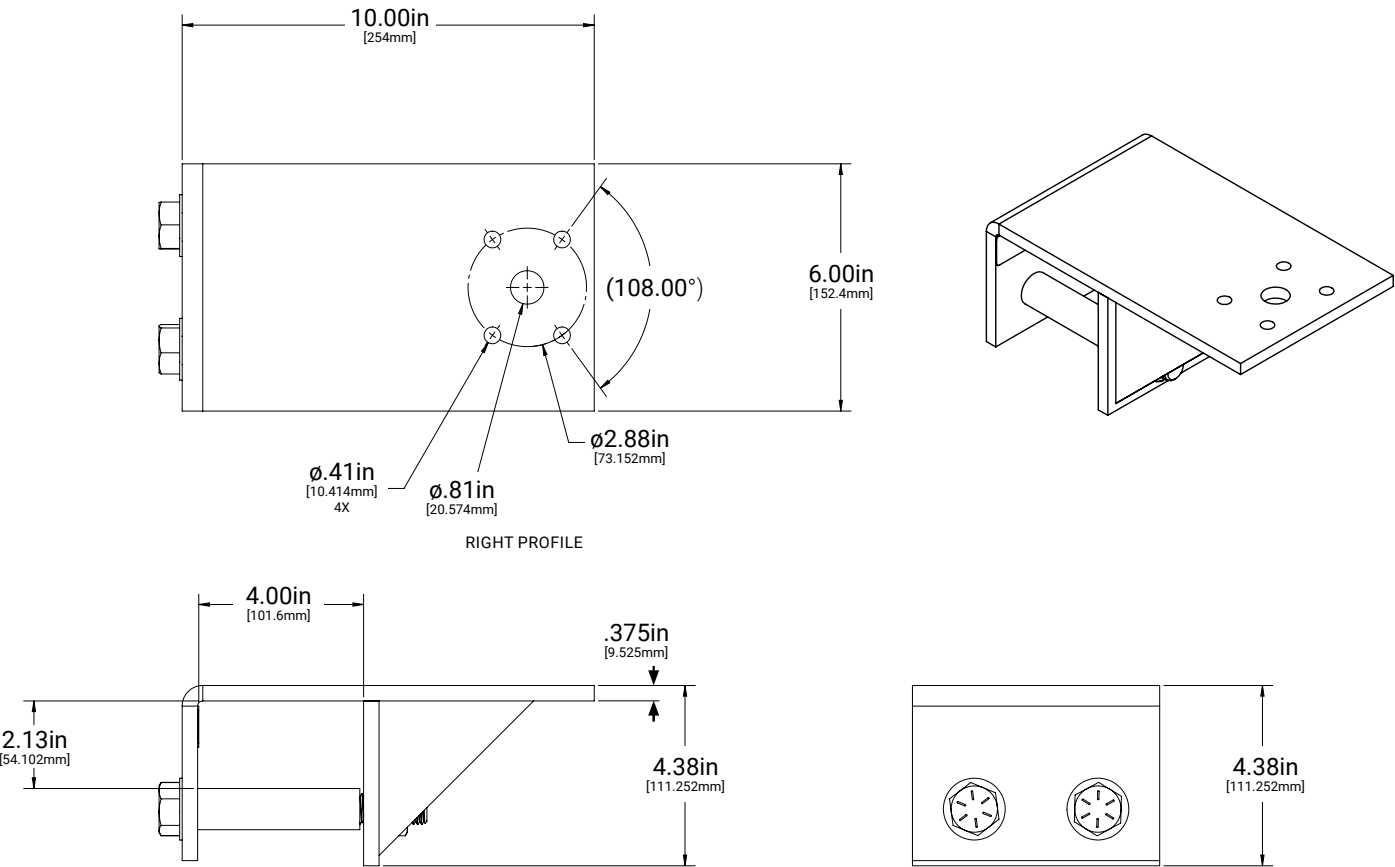Note: All the values measured at 25C ambient

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

Brand	Accessory	Option	Intended Use
EPH = Ephesus	**DVGBRD** = Diving Board[1]		Designed to be used with the LUMA**SPORT 8**, LUMA**SPORT 16** & LUMADAPT 8 luminaires only.
	HRDM34 = Mounting Hardware 3/4in diameter	**025** = .25in² **075** = .75in² **200** = 2in²	**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 2in x 4in Cross arms that are drilled for 3/4 hardware
	Notes: (1) Additional mounting fastener hardware kit needed to attach a luminaire to the **DVGBRD** = Diving Board	Notes: (2) Option only available for use with **HRDM34**	

Diving Board (DVGBRD) Dimension and Part Details:

RIGHT PROFILE

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
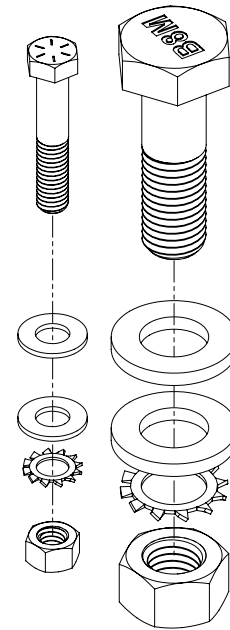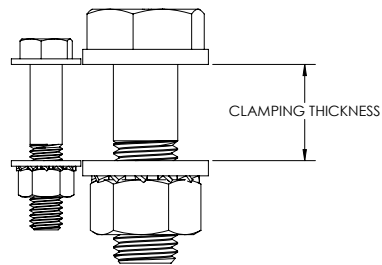
HRDM34-075:
.50-.75in clamping thickness, flat surfaces drilled for 3/4 hardware

HRDM34-200:
2.00in clamping thickness, use for 2inx4in Cross arms that are drilled for 3/4 hardware
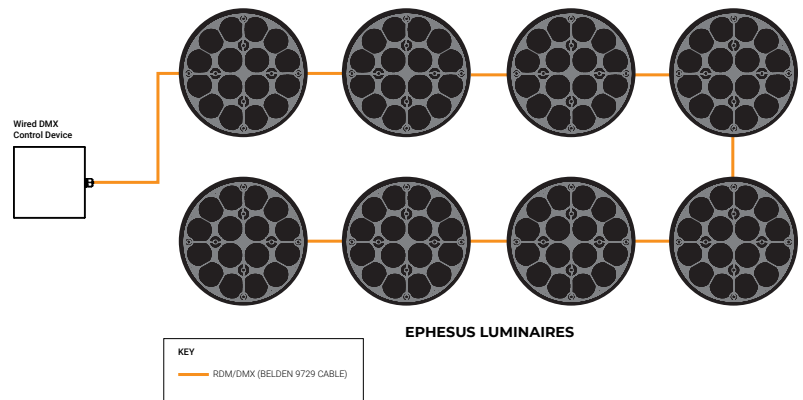
HRDM34 Data

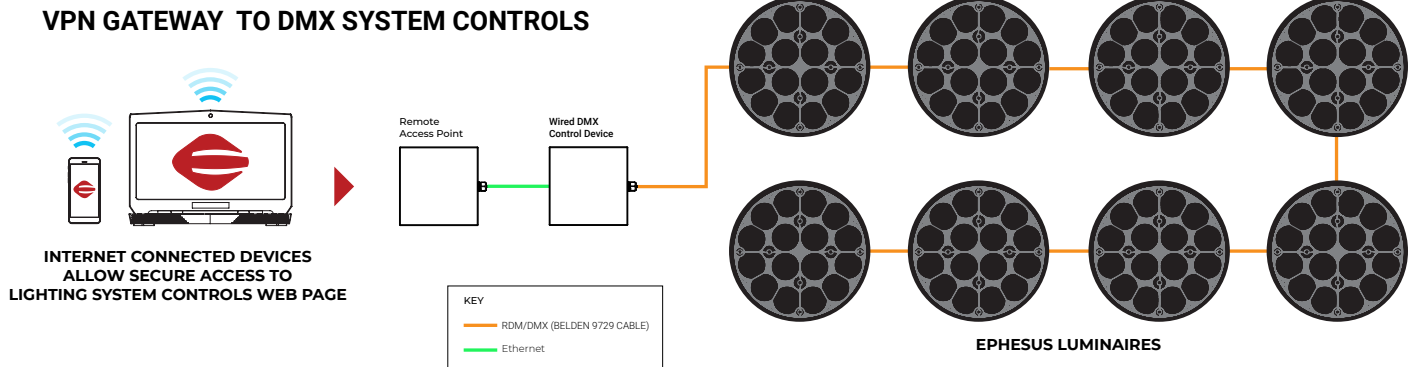| Model #	Weight (lbs)
HRDM34-025	1
HRDM34-075	1.5
HRDM34-200	2

CLAMPING THICKNESS

Example System Topology (Wired DMX Controls)

Example system topology showing the LUMA**SPORT 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.

Wired DMX
Control Device

EPHESUS LUMINAIRES

KEY

RDM/DMX (BELDEN 9729 CABLE)

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

Example system topology showing the LUMA**SPORT 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.

VPN GATEWAY TO DMX SYSTEM CONTROLS

**INTERNET CONNECTED DEVICES
ALLOW SECURE ACCESS TO
LIGHTING SYSTEM CONTROLS WEB PAGE**

Remote
Access Point

Wired DMX
Control Device

EPHESUS LUMINAIRES

KEY

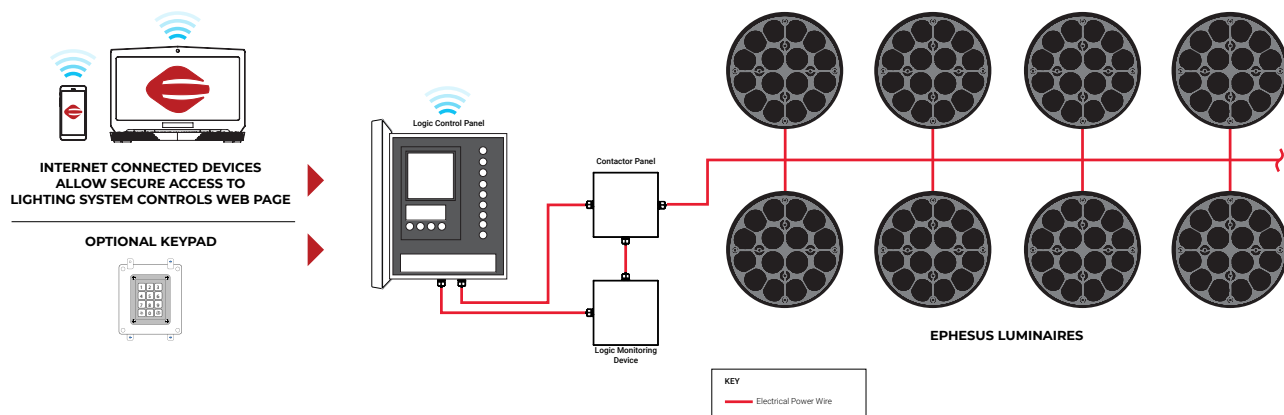RDM/DMX (BELDEN 9729 CABLE)

Ethernet

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 LUMA**SPORT 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.

INTERNET CONNECTED DEVICES ALLOW SECURE ACCESS TO LIGHTING SYSTEM CONTROLS WEB PAGE

OPTIONAL KEYPAD

Logic Control Panel

Contactor Panel

Logic Monitoring Device

EPHESUS LUMINAIRES

KEY
Electrical Power Wire

Example System Topology (Wireless AirMesh Controls)

Example system topology showing the LUMA**SPORT 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.

INTERNET CONNECTED DEVICES ALLOW SECURE ACCESS TO LIGHTING SYSTEM CONTROLS WEB PAGE OR WEB APPLICATION

CELLULAR CONNECTION

LAN CONNECTION

AIRMESH HUB

MESH NETWORK

EPHESUS FIXTURES

KEY
Ethernet

COOPER Lighting Solutions
a **signify** business