

Lunera Product Catalog

Fall 2016



In 2009, Lunera was founded in Silicon Valley as a lighting company with a mission to transform commercial lighting to LED. Our innovations have delivered significant energy savings through lighting upgrades in existing buildings.

Our plug-and-play LED lamps revolutionized retrofit projects. And now we're building upon that innovation with our newest Sensor Lamps; LED lamps with integrated sensors, controls and wireless features that save another 30% over standard LEDs.

Looking for ever more ways to maximize energy savings in the simplest way possible, we've developed an Energy Management Optimization (EMO) software that connects to our LED Sensor Lamps enabling you to use realtime data to optimize the efficiency of your lighting, HVAC and plug loads.

And our turnkey Lighting as a Service enables upgrade projects that are cash flow positive from day one - without using your CapEx budget.

Products

Energy Management Software and Turnkey Services

Plug-and-Play LED Lamps

LED Sensor Lamps

Energy Management Optimization Software

Lighting as a Service



We invented the plug-and-play LED lamp.

Sensors, controllers, and wireless communications were integrated into plug-and-play lamps to create our IoT devices.

Energy Management Optimization is realized through our scalable, flexible Facilities Director software and Energy Manager application.

Hardware, installation, and maintenance are part of our scalable turnkey lighting as a service. Use Energy Savings instead of CapEx and be cash flow positive from day one.

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PLUG-AND-PLAY INVENTED

Plug  Play



The World's First Plug-and-Play CFL LED

We broke the mold on lighting upgrades when we introduced the industry's first plug-and-play LED lamp. The pure simplicity of just changing a lamp rocked the industry. To us, this innovation was one we knew we had to deliver as the first step towards optimizing energy management.

Optimizing Energy Management.

LUNERA CFL LED LAMP

LED Replacement for pin-based Compact Fluorescent Lamps



Type	Product Options				
CFL Family	Base	Mounting	Power Source	Color Temperatures	Installation Features
4-Pin	G24q	Horizontal Vertical	Ballast Driven	2700K 3000K 3500K 4000K	Plug-and-Play LED
2-Pin	G24d	Horizontal Vertical	Ballast Driven	2700K 3000K 3500K 4000K	Plug-and-Play LED
2-Pin	GX23	Horizontal	Ballast Driven and Line Driven (ballast bypassed)	2700K 3000K 3500K 4000K	Plug-and-Play LED

CFL Family	Base	Tube Type	Power Source	Color Temperatures	Lamp Type
PLL	2G11	PLL Compact Fluorescent	Ballast Driven Line Driven (ballast bypassed)	2700K 3000K 3500K 4000K	Plug-and-Play LED

NOTE: REFER TO PRODUCT CUT SHEETS FOR CURRENT SPECIFICATIONS. LUNERA RESERVES THE RIGHT TO CHANGE OR DISCONTINUE ITS PRODUCTS WITHOUT NOTICE. CONTACT LUNERA FOR SPECIFIC PRODUCT AVAILABILITY.

LUNERA CFL LED G24q LAMP



KEY LAMP FEATURES

Input Voltage	Ballast Driven
Lamp Power	13W
Delivered Lumens	Up to 1000lm
CCT	2700K/3000K/3500K/4000K
Dimmable	Yes, ballast dependent
Lamp Life	50,000+ hours life (L70)
Certifications	UL Recognized
Warranty	5 years
Sensor Enabled	No

APPLICATIONS

Recessed
Downlights

Wall
Sconces

Pendants



The LUNERA CFL LED GEN 4 is a plug-and-play LED replacement for CFL downlights with 4-pin G24q-series (electronic ballast) sockets. Simply choose the configuration for Horizontal or Vertical versions, plug it in like any CFL lamp, and enjoy the improved light quality and energy savings - no need to bypass the CFL ballast.




ORDERING INFORMATION

Example: HN-V-G24Q-B-11W-835-G4

Series	Version	Socket Type	Power Supply	Lamp Wattage	CCT	Generation
HN Lunera CFL LED	V Vertical H Horizontal	G24Q G24q 4-pin CFL lamp base	B Ballast Driven 4-pin Lamp	11W 18W, 26W, 32W and 42W CFLs (4-pin)	827: 2700K CCT 830: 3000K CCT 835: 3500K CCT 840: 4000K CCT	G4 4th Generation

EQUIVALENT LAMP

Replaces	Lamp Type	Wattage	CCT	Base
	CFL	18W, 26W, 32W, 42W	2700K - 4000K	4-pin G24q

LUNERA CFL LED G24d LAMP



KEY LAMP FEATURES

Input Voltage	Ballast Driven
Lamp Power	13W
Delivered Lumens	Up to 1,000lm
CCT	2700K/3000K/3500K/4000K
Dimmable	No
Lamp Life	50,000+ hours life (L70)
Certifications	UL Recognized
Warranty	5 years
Sensor Enabled	No

APPLICATIONS

- Recessed Downlights
- Wall Sconces
- Pendants



The LUNERA CFL LED G24d is a plug-and-play LED replacement for CFLs with 2-pin G24d bases. Available for vertical and horizontal mounting, the Ballast Driven LED lamp is ideal for commercial recessed downlights and pendants.




ORDERING INFORMATION

Example: HN-V-G24D-26W-2700-G2

Series	Version	Socket Type	Lamp Wattage Replaced	CCT	Generation
HN Lunera CFL LED	V Vertical H Horizontal	G24D G24d 2-pin CFL lamp base	26W 18W or 26W	2700: 2700K 3000: 3000K 3500: 3500K 4000: 4000K	G2 2nd Generation

EQUIVALENT LAMP

Replaces	Lamp Type	Wattage	CCT	Base
	CFL	18W, 26W	2700K - 4000K	2-pin G24d

LUNERA CFL LED GX23 LAMP



KEY LAMP FEATURES

Input Voltage	Ballast Driven (magnetic) and Line Driven (120V-277V)
Lamp Power	5W
Delivered Lumens	Up to 535lm
CCT	2700K/3000K/3500K/4000K
Dimmable	Contact Lunera
Lamp Life	50,000+ hours life (L70)
Certifications	UL Recognized, UL Listed
Warranty	5 years
Sensor Enabled	No

APPLICATIONS

Wall
Sconces



Recessed
Dual Cans



The LUNERA CFL LED GX23 is a plug-and-play LED replacement for 13W CFLs with 2-pin GX23 bases. It supports both Ballast Driven and Line Driven (ballast bypassed) operation and is ideal for commercial wall sconces and specialty applications such as step lights.




ORDERING INFORMATION

HN-H-GX23-U-5W-830-G4

Series	Version	Socket Type	Power Supply	Lamp Wattage Replaced	CCT	Generation
HN Lunera CFL LED	H Horizontal	GX23 GX23 2-pin CFL lamp base	U Ballast Driven (magnetic) Line Driven (108V~305V)	5W 13W	827: 2700K 830: 3000K 835: 3500K 840: 4000K	G4 4th Generation

EQUIVALENT LAMP

Replaces	Lamp Type	Wattage	CCT	Base
	CFL	13W	2700K - 4000K	2-pin GX23

LUNERA PLL LED 2G11 LAMP

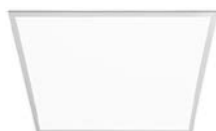


KEY LAMP FEATURES

Input Voltage	Electronic Ballast Driven and Line Driven
Lamp Power	Ballast Driven: 22W Line Driven: 23W (120V~277V)
Delivered Lumens	Up to 2,600lm
CCT	2700K/3000K/3500K/4000K
Dimmable	Yes, if used with dimming ballast
Lamp Life	50,000+ hours life (L70)
Certifications	UL Recognized, UL Listed
Warranty	5 years
Sensor Enabled	No

APPLICATIONS

Ceiling Troffers



The LUNERA PLL LED is a plug-and-play, Ballast Driven or Line Driven replacement for a 55W/40W/36W 4-pin 22 inch long fluorescent lamp. This beautiful, high lumen output lamp emits light over 330° of its glass tube surface operation and is ideal for commercial ceiling lighting.




ORDERING INFORMATION

HN-PLL-L-22-23W-835-G1

Series	Socket Type	Power Supply	Dimension	Lamp Wattage Replaced	CCT	Generation
HN Lunera PLL LED	PLL Fixture with 2G11 socket (4-pin long CFL)	L Line Driven (120V ~ 277V) D Electronic Ballast Driven	22 22 inch tube	23W Replaces 55W~36W 4-pin long Compact Fluorescent Lamp 22W Replaces 55W~36W 4-pin long Compact Fluorescent Lamp	827: 2700K 830: 3000K 835: 3500K 840: 4000K	G1 1st Generation

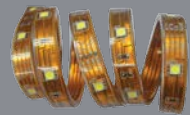
EQUIVALENT LAMP

Replaces	Lamp Type	Wattage	CCT	Base
	PLL	55W~36W	2700K - 4000K	4-pin 2G11 socket

DESIGNING A BETTER T8 LAMP

Flexible PCB

Flexible PCB for greater reliability/safety and better thermal conduction.



Better Glass

Tubes are made of superior-grade toughened glass for better optical efficiency and have end-necking for added strength. They won't yellow or sag over time.

Superior Ballast Compatibility

Our linear lamps are tested for compatibility with over 200 ballasts including Instant-Start, Rapid -Start, and Programmed-Start types.



High Performance

Carefully selected high-performance LEDs are powered at less than 40% of their rated drive to improve efficacy and extend lamp life.

Maximum Illumination

The design of the electronics package minimizes the end cap size, allowing the maximum length of the tube to be illuminated.

Broader Beam Angle

A 330° beam angle makes the LED lamps imperceptible in the fixture to the fluorescent tubes we replace, delivering a uniform light across the space.

Creating a Better LED T8

We blended innovations in design, materials, and electronics to set a new benchmark for quality T8 LEDs with light output that is distinguishable from the fluorescents they replace. And we mastered packaging minimization, a critical step to creating energy management IoT devices.

Optimizing Energy Management.



LUNERA LINEAR LED

LED Replacement Lamps
for Linear Fluorescent Tubes

Type	Product Options				
Tube Family	Length	Tube Type	Power Source	Color Temperatures	Lamp Type
T8	2FT 3FT 4FT 8FT	Frosted Glass P.E.T. Shatter Guard	Ballast Driven Line Driven (ballast bypassed) Remote LED Driver	3000K 3500K 4000K 5000K	Plug-and-Play LED LED Sensor Lamp Networked EMO Sensor Lamp
T5HO	2FT 4FT	Frosted Glass P.E.T. Shatter Guard	Ballast Driven	3000K 3500K 4000K 5000K	Plug-and-Play LED
U-Bent	2FT				

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LUNERA T8/T12 LED 8FT LAMP (Fa8)



KEY LAMP FEATURES

Input Voltage	Ballast Driven
Lamp Power	33W
Delivered Lumens	4,400lm
CCT	3000K/3500K/4000K/5000K
Dimmable	Yes, ballast dependent
Lamp Life	50,000+ hours life (L70)
Certifications	UL Listed
Warranty	5 years
Sensor Enabled	Yes

APPLICATIONS

T8 or T12
8FT Troffers
1/2/3/4 lamps



T8 or T12
8FT Pendant
1 or 2 lamps



T8 or T12
Shop/Wall Lights
1 or 2 lamps



The LUNERA T8 LED 8FT is a plug-and-play, Ballast Driven replacement for 54W, 59W, 60W, and 75W 8ft Single Pin (Fa8) T8 and T12 lamps. It operates off of the existing electronic ballast and supports instant start, rapid start, and programmed start electronic ballasts.



The lamp is constructed of glass for superior optics with small endcaps and a 330° beam spread to maximize illumination.




ORDERING INFORMATION

Example: HN-T8S-D-96-33W-840-G1

Series	Socket Type	Power Supply	Dimension	Lamp Wattage Replaced	CCT	Generation
HN Lunera T8 LED	T8S Fixture with Single-Pin (Fa8) sockets	D Installed Instant Start Electronic Ballast (54W ~ 75W)	96 96 inch tube	33W Replaces 54W/59W T8 and 60W/75W T12 Single-Pin (Fa8) Fluorescent Lamp	830: 3000K 835: 3500K 840: 4000K 850: 5000K	G1 1st Generation

EQUIVALENT LAMP

Replaces	Lamp Type	Wattage	CCT	Base
	T8 Fluorescent Tube 8FT	54W/59W T8 and 60W/75W T12	3000K - 5000K	Single-Pin

LUNERA T8 LED 4FT LAMP



KEY LAMP FEATURES

Input Voltage	Ballast Driven and Line Driven (120V-277V ballast bypassed)
Lamp Power	Ballast Driven: 14W Line Driven: 15W
Delivered Lumens	1,800lm
CCT	3000K/3500K/4000K/5000K
Dimmable	Yes, ballast dependent
Lamp Life	50,000+ hours life (L70)
Certifications	DLC Listed, UL Recognized, UL Listed, UL Classified
Warranty	5 years
Sensor Enabled	Yes

APPLICATIONS

T8 4FT Troffers
1/2/3/4 lamps



T8 4FT Pendant
1 or 2 lamps



T8 4FT Shop/
Wall Lights
1 or 2 lamps



The LUNERA T8 LED 4FT replaces linear fluorescent T8 tubes up to 32W with medium bi-pin connectors. The lamp is constructed of glass for superior optics with small endcaps and a 330° beam angle maximizing illumination.



ORDERING INFORMATION

Example: HN-T8-D-48-14W-830-G1

Series	Socket Type	Power Supply	Dimension	Lamp Wattage Replaced	CCT	Generation
HN Lunera T8 LED	T8 T8 medium bi-pin connector	D Electronic Ballast L Line Driven (120V-277V)	48 48 inch tube	14W Replaces up to 32W T8 in Ballast Driven installation 15W Replaces up to 32W T8 in Line Driven installation	830: 3000K 835: 3500K 840: 4000K 850: 5000K	G1 1st Generation G1P 1st Generation P.E.T. Shatterguard

EQUIVALENT LAMP

Replaces	Lamp Type	Wattage	CCT	Base
	T8 Fluorescent Tube 4FT	25W, 28W, 30W, 32W	3000K - 5000K	Medium Bi-pin

LUNERA T8 LED 3FT LAMP



The LUNERA T8 LED 3FT replaces linear fluorescent T8 tubes up to 30W with medium bi-pin connectors. The lamp is constructed of glass for superior optics with small endcaps and a 330° beam spread maximizing illumination.



KEY LAMP FEATURES

Input Voltage	Ballast Driven and Line Driven (120V-277V)
Lamp Power	Ballast Driven: 11W Line Driven: 12W
Delivered Lumens	1,450lm
CCT	3000K/3500K/4000K/5000K
Dimmable	Yes, ballast dependent
Lamp Life	50,000+ hours life (L70)
Certifications	UL Recognized, UL Listed, UL Classified,
Warranty	5 years
Sensor Enabled	Yes

APPLICATIONS

T8 3FT Pendant
1 or 2 lamps



Undercabinet



Wall Sconce



ORDERING INFORMATION

Example: HN-T8-L-36-12W-830-G1

Series	Socket Type	Power Supply	Dimension	Lamp Wattage Replaced	CCT	Generation
HN Lunera T8 LED	T8 T8 medium bi-pin connector	D Electronic Ballast L Line Driven (120V-277V)	36 36 inch tube	11W Replaces up to 30W T8 in Ballast Driven installation 12W Replaces up to 30W T8 in Line Driven installation	830: 3000K 835: 3500K 840: 4000K 850: 5000K	G1 1st Generation G1P 1st Generation P.E.T. Shatterguard

EQUIVALENT LAMP

Replaces	Lamp Type	Wattage	CCT	Base
	T8 Fluorescent Tube 3FT	21W, 25W, 30W	3000K - 5000K	Medium Bi-pin

LUNERA T8 LED 2FT LAMP



KEY LAMP FEATURES

Input Voltage	Ballast Driven and Line Driven (120V-277V)
Lamp Power	Ballast Driven: 9W Line Driven: 9W
Delivered Lumens	1,100lm
CCT	3000K/3500K/4000K/5000K
Dimmable	Yes, ballast dependent
Lamp Life	50,000+ hours life (L70)
Certifications	DLC, UL Listed, UL Recognized, UL Classified
Warranty	5 years
Sensor Enabled	Yes

APPLICATIONS

T8 2FT Troffers
1/2/3/4 lamp



The LUNERA T8 LED 2FT is an energy saving, LED replacement for 2FT T8 linear fluorescent tubes up to 20W. It operates off of the existing electronic ballast and is ideal for industrial and commercial spaces.




ORDERING INFORMATION

Example: HN-T8-D-24-9W-830-G1P

Series	Socket Type	Power Supply	Dimension	Lamp Wattage Replaced	CCT	Generation
HN Lunera T8 LED	T8 T8 medium bi-pin connector	D Electronic Ballast Driven L Line Driven	24 24 inch tube	9W Replaces up to 20W T8 in Ballast Driven installation 9W Replaces up to 20W T8 in Line Driven installation	830: 3000K 835: 3500K 840: 4000K 850: 5000K	G1 1st Generation Frosted G1P 1st Generation P.E.T. Shatterguard

EQUIVALENT LAMP

Replaces	Lamp Type	Wattage	CCT	Base
	T8 Fluorescent Tube 2FT	20W, 17W, 15W	3000K - 5000K	Medium Bi-pin

LUNERA T8 LED U-BENT LAMP (2G13)



KEY LAMP FEATURES

Input Voltage	Ballast Driven or Line Driven (120V-277V)
Lamp Power	Ballast Driven: 12W, 17W Line Driven: 15W, 18W
Delivered Lumens	Up to 2,200lm
CCT	3000K/3500K/4000K/5000K
Dimmable	Yes, ballast dependent
Lamp Life	50,000+ hours life (L70)
Certifications	UL Listed, UL Recognized, UL Classified
Warranty	5 years
Sensor Enabled	No

APPLICATIONS

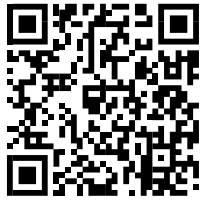
U-Bent Troffer with 6" spread



U-Bent Shop Light with 2" spread



The LUNERA T8 LED U-Bent lamps are energy saving, LED replacements for medium base Bi-Pin T8 U-Bent (2G13) fluorescent lamps from 25W to 32W with a 2-inch or 6-inch spread. They operate off of the existing instant -start, rapid -start, and programmed -start electronic ballasts or with the ballast bypassed (supporting 120V-277V).



Ballast Driven



Line Driven

ORDERING INFORMATION

Example: HN-T8UL-D-22-12W-830-G1

Series	Socket Type	Power Supply	Dimension	Lamp Wattage Replaced	CCT	Generation
HN Lunera T8 LED U-Bent	T8UL Medium Bi-Pin T8 socket (2G13) with a 6" Spread T8US Medium Bi-Pin T8 socket (2G13) with a 2" Spread	D Supports electronic T8 fluorescent ballast	22 22 inch tube	12W Replaces up to 1,800lm in Ballast Driven installation	830: 3000K 835: 3500K 840: 4000K 850: 5000K	G1 1st Generation Frosted G1P 1st Generation P.E.T. Shatterguard
				17W Replaces up to 2,200lm in Ballast Driven installation		
		L Ballast Bypass Supports 120V-277V		15W Replaces up to 1,800lm in Line Driven installation		
				18W Replaces up to 2,200lm in Line Driven installation		

EQUIVALENT LAMP

Replaces	Lamp Type	Wattage	CCT	Base
	U-Bent Fluorescent Tube	25W/28W/29W 31W/32W	3000K - 5000K	2G13 sockets with 2" or 6" spread

LUNERA T5HO LED 4FT LAMP



The LUNERA T5HO LED 4FT is an energy saving, high-lumen linear LED replacement for a 54W, 4ft T5HO fluorescent lamp. It operates off of the existing electronic ballast and is ideal for high-bay spaces as an alternative to HID's.




Example: HN-T5-D-48-25W-830-G1

ORDERING INFORMATION

Series	Socket Type	Power Supply	Dimension	Lamp Wattage Replaced	CCT	Generation
HN Lunera T5HO LED	T5 T5 mini bi-pin connector	D Electronic Ballast	48 48 inch tube	25W Replaces 54W T5HO	830: 3000K 835: 3500K 840: 4000K 850: 5000K	G1 1st Generation Frosted G1P 1st Generation P.E.T. Shatterguard

EQUIVALENT LAMP

Replaces	Lamp Type	Wattage	CCT	Base
	T5HO Fluorescent Tube 4FT	54W	3000K - 5000K	Medium Bi-pin

KEY LAMP FEATURES

Input Voltage	Ballast Driven
Lamp Power	25W
Delivered Lumens	Up to 3,200lm
CCT	3000K/3500K/4000K/5000K
Dimmable	Yes, ballast dependent
Lamp Life	50,000+ hours life (L70)
Certifications	DLC Listed, UL Recognized, UL Classified
Warranty	5 years
Sensor Enabled	No

APPLICATIONS

T5HO 4FT
Troffer
1/2/4/6 lamps

T5HO 4FT
Shop/Wall Lights
1 or 2 lamps



LUNERA T5HO LED 2FT LAMP



KEY LAMP FEATURES

Input Voltage	Ballast Driven
Lamp Power	25W
Delivered Lumens	Up to 1,400lm
CCT	3000K/3500K/4000K/5000K
Dimmable	Yes, ballast dependent
Lamp Life	50,000+ hours life (L70)
Certifications	UL Recognized, UL Classified
Warranty	5 years
Sensor Enabled	No

APPLICATIONS

- T5HO 2FT Troffer
1/2/4/6 lamps
- T5HO 2FT Shop/Wall Lights
1 or 2 lamps



The LUNERA T5HO LED 2FT is an energy saving, linear LED replacement for a 24W, G5 Bi-Pin T5HO fluorescent lamp. It operates off of the existing electronic ballast and supports instant start, rapid start, and programmed start electronic ballasts.




ORDERING INFORMATION

Example: HN-T5-D-24-11W-830-G1

Series	Socket Type	Power Supply	Dimension	Lamp Wattage Replaced	CCT	Generation
HN Lunera T5HO LED	T5 Fixture with Bi-Pin G5 T5HO sockets	D Supports electronic T5 fluorescent ballast	24 24 inch tube	11W Replaces 24W, 2FT T5HO Fluorescent Lamp	830: 3000K 835: 3500K 840: 4000K 850: 5000K	G1 1st Generation Frosted G1P P.E.T. 1st Generation Shatterguard

EQUIVALENT LAMP

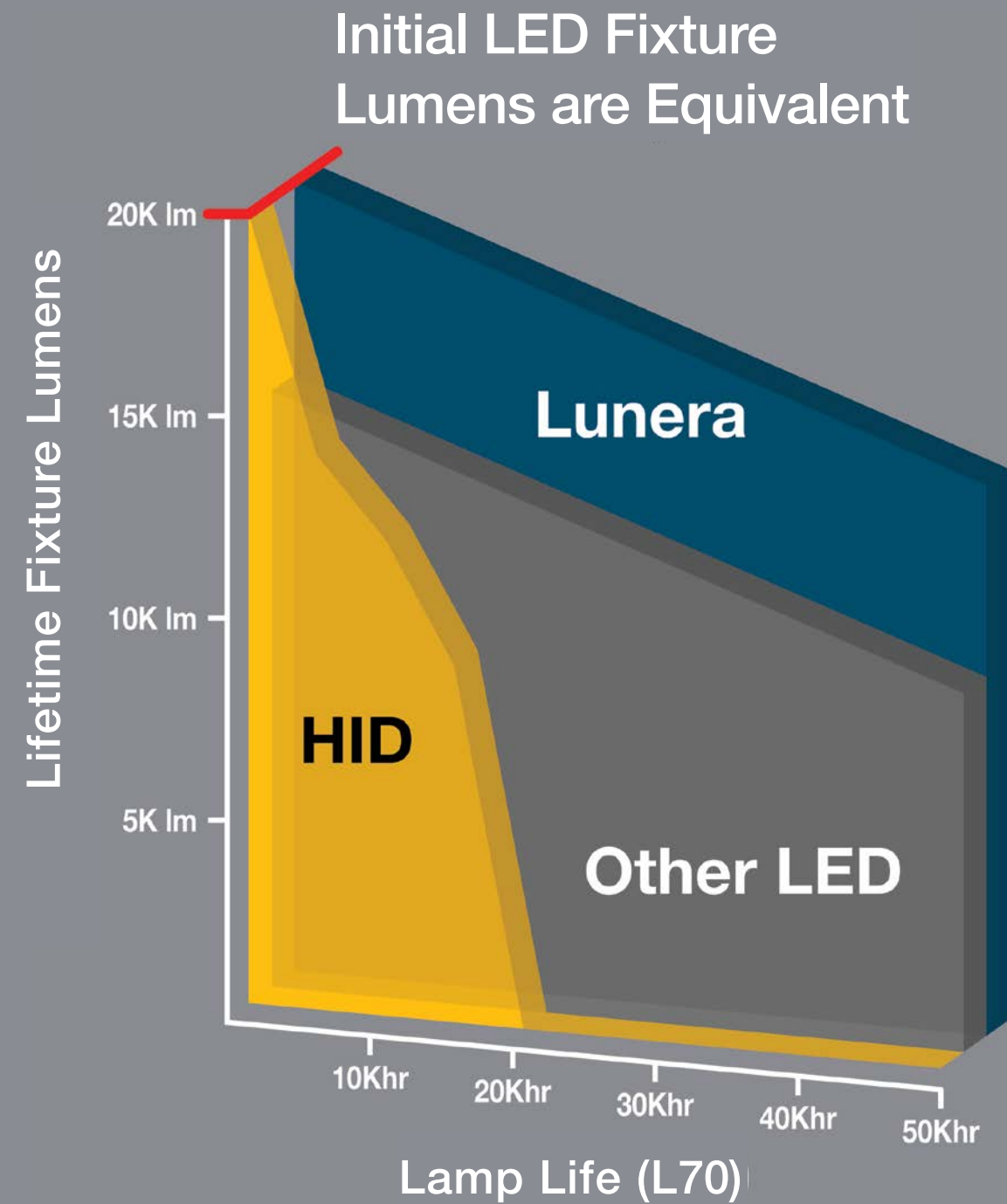
Replaces	Lamp Type	Wattage	CCT	Base
	T5HO Fluorescent Tube 2FT	24W and less	3000K - 5000K	Medium Bi-pin

HIGH LUMEN BREAKTHROUGH

At last, HID Lumens at LED Power

With our newest HID LED lamp, you now have a true no-compromise replacement for a 400W HID lamp. Just what you should expect from a LED lamp.

Optimizing Energy Management.



LUNERA HID LED

LED Replacement Lamps
for Metal Halide and High Pressure
Sodium High Intensity Discharge

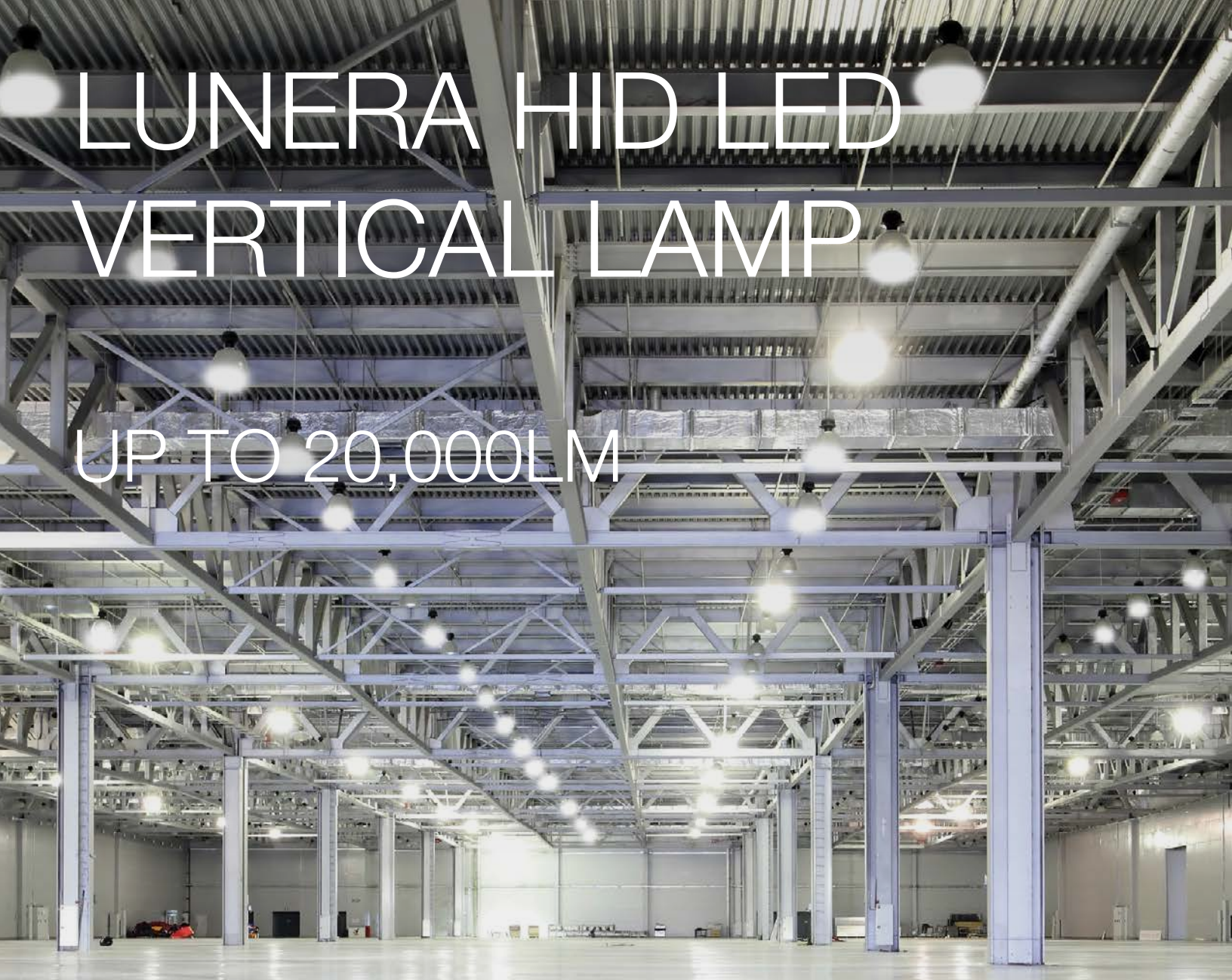


Type	Product Options				
Base	Mounting	Configurations	Power Source	Color Temperatures	Installation Features
Mogul (E39)	<ul style="list-style-type: none"> Vertical Vertical Passive Vertical Retrofit Kit 360 	<ul style="list-style-type: none"> 10% Uplight 	<ul style="list-style-type: none"> Ballast Driven Line Driven (ballast bypassed) 	<ul style="list-style-type: none"> 2000K (360 lamp only) 3500K 4000K 5000K 	<ul style="list-style-type: none"> Plug-and-Play LED LED Sensor Lamp Networked EMO Sensor Lamp
Medium (E26)	<ul style="list-style-type: none"> Horizontal 	<ul style="list-style-type: none"> Metal Halide High-Pressure Sodium 	<ul style="list-style-type: none"> Ballast Driven 	<ul style="list-style-type: none"> 3500K 4000K 5000K 	<ul style="list-style-type: none"> Plug-and-Play LED
	<ul style="list-style-type: none"> Vertical 360 	<ul style="list-style-type: none"> Short Neck Type V Lens 10% Uplight 	<ul style="list-style-type: none"> Ballast Driven Line Driven (ballast bypassed) 	<ul style="list-style-type: none"> 2000K (360 lamp only) 3500K 4000K 5000K 	<ul style="list-style-type: none"> Plug-and-Play LED LED Sensor Lamp Networked EMO Sensor Lamp

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LUNERA HID LED VERTICAL LAMP

UP TO 20,000LM



KEY LAMP FEATURES

Input Voltage	Ballast Driven or Line Driven (120V-277V)
Lamp Power	230W
Delivered Lumens	Up to 20,000lm
Lens	Clear Optical Acrylic
CCT	3500K/4000K/5000K
Dimmable	No
Lamp Life	50,000+ hours life (L70)
Certifications	UL Recognized, UL Classified; DLC (Line Driven only)
Warranty	5 years
Sensor Enabled	Yes

APPLICATIONS

High Bay/Low Bay Pendant



Surface Mount



The LUNERA HID LED VERTICAL replaces Metal Halide (MH) or High Pressure Sodium (HPS) lamps with a Mogul (E39) base. It replaces 400W~250W MH and HPS lamps.



Configuration Options:
- Line Driven Retrofit Kit




ORDERING INFORMATION

Example: SN-V-E39-B-20KLM-840-G3

Series	Version	Socket Type	Power Supply	Lamp Lumens	CCT	Generation
SN Lunera HID LED	V Vertical	E39 Fits in mogul-base (E39/EX39) socket	B Magnetic HID Ballast	20KLM 20,000lm	835: 3500K 840: 4000K 850: 5000K	G3 3rd Generation
		PIN Retrofit Kit (L-version)	L Line Driven* (120V-277V)			

EQUIVALENT LAMP

Replaces	Lamp Type	Wattage	CCT	Base
	Metal Halide or High Pressure Sodium	400W	3500K - 5000K	Mogul (E39)

LUNERA HID LED VERTICAL LAMP

UP TO 15,000LM

KEY LAMP FEATURES

Input Voltage	Ballast Driven or Line Driven (120V-277V)
Lamp Power	164W
Delivered Lumens	Up to 15,000lm
Lens	Clear Optical Acrylic
CCT	3500K/4000K/5000K
Dimmable	No
Lamp Life	50,000+ hours life (L70)
Certifications	UL Recognized, UL Classified; DLC (Line Driven only)
Warranty	5 years
Sensor Enabled	Yes

APPLICATIONS

High Bay/Low Bay Pendant



Surface Mount



The LUNERA HID LED VERTICAL replaces Metal Halide (MH) and High Pressure Sodium (HPS) lamps with a Mogul (E39) base. This lamp replaces 400W~250W MH and HPS lamps.



Configuration Options:
- Line Driven Retrofit Kit




*Line driven only

Example: SN-V-E39-B-15KLM-840-G3

ORDERING INFORMATION

Series	Version	Socket Type	Power Supply	Lamp Lumens	CCT	Generation
SN Lunera HID LED	V Vertical	E39 Fits in mogul-base (E39/EX39) socket PIN Line Driven Retrofit Kit	B Magnetic HID Ballast L Line Driven* (120V-277V)	15KLM 15,000lm	835: 3500K 840: 4000K 850: 5000K	G3 3rd Generation

EQUIVALENT LAMP

Replaces	Lamp Type	Wattage	CCT	Base
	Metal Halide or High Pressure Sodium	400W, 320W, 310W, 250W	3500K - 5000K	Mogul (E39)

LUNERA HID LED VERTICAL LAMP

UP TO 9,000LM

KEY LAMP FEATURES

Input Voltage	Ballast Driven or Line Driven (120V-277V)
Lamp Power	103W
Delivered Lumens	Up to 9,000lm
Lens	Frosted Optical Acrylic
CCT	3500K/4000K/5000K
Dimmable	No
Lamp Life	50,000+ hours life (L70)
Certifications	UL Recognized, UL Classified; DLC (Line Driven E39 and E26 3500K, Except E26 4000K and 500K CCT)
Warranty	5 years
Sensor Enabled	Yes

APPLICATIONS

Low Bay Pendant	
Surface Mount	
Recessed Downlights	

The LUNERA HID LED VERTICAL replaces Metal Halide (MH) and High Pressure Sodium (HPS) lamps with a Mogul (E39) or Medium (E26) base. These lamps replace 250W~70W MH and HPS lamps and can be powered by the installed ballast or with the ballast bypassed. It is ideal to upgrade low bay pendants, surface mount, and recessed downlight fixtures.

Configuration Options:

- Retrofit Kit (E39 only)
- Type V Lens (E26 only)
- 10% Uplight (E39 - VS | E26 - V, VS)




*Line Driven E39 and E26 3500K

Example: SN-VS-E26-B-9KLM-840-G3

ORDERING INFORMATION

Series	Version	Socket Type	Power Supply	Lamp Lumens	CCT	Generation
SN Lunera HID LED	VS Vertical (E39)	E26 Fits in medium (E26) base HID socket*	B Magnetic HID Ballast	9KLM 9,000lm	835: 3500K 840: 4000K 850: 5000K	G3 3rd Generation
	V Vertical (E26)					
	VS Vertical Short Neck (E26)	E39 Fits in mogul (E39) base HID socket	L Line Driven* (120V-277V)			
		PIN Retrofit Kit (L-version)				

EQUIVALENT LAMP

Replaces	Lamp Type	Wattage	CCT	Base
	Metal Halide or High Pressure Sodium	250W, 175W, 150W, 100W, 70W (E39) 250W, 175W, 150W, 100W, 70W (E26)	3500K - 5000K	Mogul (E39) or Medium (E26) base

LUNERA HID LED VERTICAL LAMP

UP TO 4,500LM

KEY LAMP FEATURES

Input Voltage	Ballast Driven or Line Driven (120V-277V)
Lamp Power	58W
Delivered Lumens	Up to 4,500lm
Lens	Frosted Optical Acrylic
CCT	3500K/4000K/5000K
Dimmable	No
Lamp Life	50,000+ hours life (L70)
Certifications	UL Recognized, UL Classified; DLC (Line Driven E39 and E26 3500K)
Warranty	5 years
Sensor Enabled	Yes

APPLICATIONS

High Bay/Low Bay Pendant



Surface Mount



The LUNERA HID LED VERTICAL replaces Metal Halide (MH) and High Pressure Sodium (HPS) lamps with a Mogul (E39) or Medium (E26) base. This lamp replaces 175W~70W MH and HPS lamps and can be powered by the installed ballast or with the ballast bypassed. It's ideal to upgrade Low-Bay warehouse fixtures.

Configuration Options:

- Retrofit Kit (E39 only)
- Type V Lens (E26 only)
- 10% Uplight (E39 - VS | E26 - V, VS)



*Line Driven E39 and E26 3500K

Example: SN-V-E26-B-4.5KLM-840-G3

ORDERING INFORMATION

Series	Version	Socket Type	Power Supply	Lamp Lumens	CCT	Generation
SN Lunera HID LED	VS Vertical (E39)	E26 Fits in medium (E26) base HID socket*	B Magnetic HID Ballast	4.5KLM 4,500lm	835: 3500K 840: 4000K 850: 5000K	G3 3rd Generation
	V Vertical (E26)					
	VS Vertical Short Neck (E26)	E39 Fits in mogul (E39) base HID socket				

EQUIVALENT LAMP

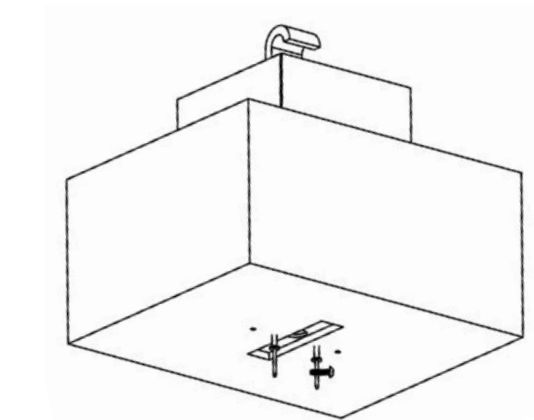
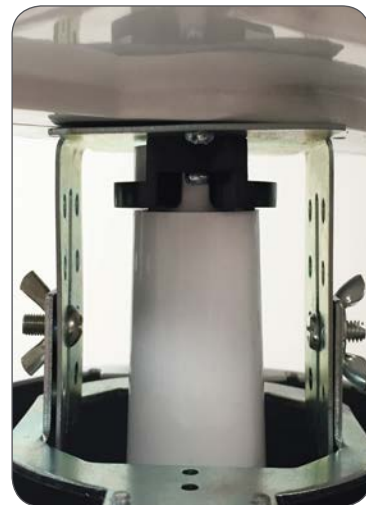
Replaces	Lamp Type	Wattage	CCT	Base
	Metal Halide or High Pressure Sodium	175W, 150W, 100W, 70W	3500K - 5000K	Mogul (E39) or Medium (E26) base

HID LED RETROFIT KIT

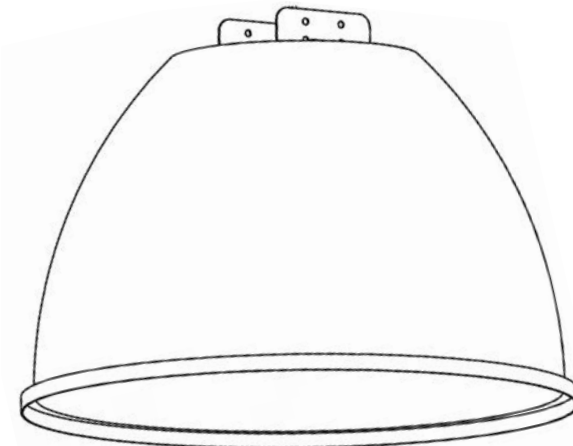
LUNERA HID LED VERTICAL and HID LED 360 lamps can be configured for hardwired installation. When ordering a "PIN" lamp, the E39 Mogul is replaced with a post connector that slots into a catch plate affixed to the fixture's reflector bracket.

This inhibits simple lamp replacement, which qualifies the Lunera lamp for broader Utility Rebates.

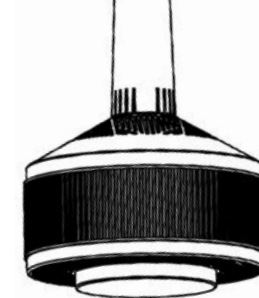
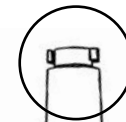
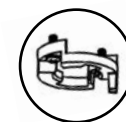
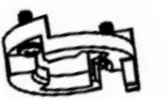
The lamp is hardwired to line voltage in the fixture's ballast junction box.



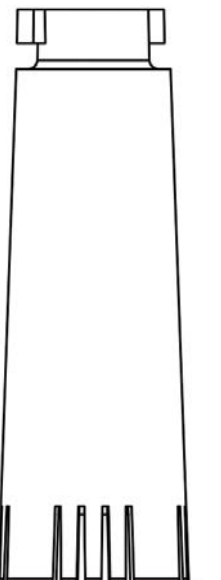
Line Voltage wiring in the ballast junction box powers the lamp



A catch plate, attached to the reflector bracket, secures the lamp to the fixture.



The E39 Mogul or E26 Medium base of the HID lamp is replaced with a connector that slots into a catch plate, which is installed to the fixture's reflector bracket.



LUNERA HID LED 360 LAMP

UP TO 8,400LM



KEY LAMP FEATURES

Input Voltage	Ballast Driven or Line Driven (120V-277V)
Lamp Power	90W
Delivered Lumens	Up to 8,400lm
CCT	2000K/3500K/4000K/5000K
Dimmable	No
Lamp Life	50,000+ hours life (L70)
Certifications	UL Recognized, UL Classified; DLC (Line Driven E39 and E26 3500K)
Warranty	5 years
Sensor Enabled	No

APPLICATIONS

Architectural Post Top or Coach Light Fixtures



The LUNERA HID LED 360 is a LED replacement for Metal Halide (MH) and High Pressure Sodium (HPS) lamps with Mogul (E39) and Medium (E26) bases.

Unlike common “corncob” LEDs with exposed components, the Lunera HID LED 360 is designed with a cylindrical optical lens that softly diffuses light at night and elegantly masks LED components during the day.

The lamp replaces up to 250W MH and HPS lamps in fixtures with a 360 degree illumination, such as architectural lamp posts or coach lights.



*Line Driven E39 and E26 3500K

ORDERING INFORMATION

Example: SN-360-E39-B-8KLM-835-G3

Series	Version	Socket Type	Power Supply	Lamp Lumens	CRI/CCT	Generation
SN Lunera HID LED	360 360° illumination	E26 Fits in medium (E26) base HID socket*	B Magnetic HID Ballast	8KLM 8,400lm	835: 80CRI / 3500K 840: 80CRI / 4000K 850: 80CRI / 5000K	G3 3rd Generation
				6KLM 6,000lm	820: 80CRI / 2000K	
		E39 Fits in mogul (E39) base HID socket	L Line Driven 120V~277V			

EQUIVALENT LAMP

Replaces	Lamp Type	Wattage	CCT	Base
	Metal Halide or High Pressure Sodium	250W, 175W, 150W, 100W, 70W, 50W	2000K - 5000K	Mogul (E39) or Medium (E26) base

LUNERA HID LED 360 LAMP

UP TO 5,400LM



KEY LAMP FEATURES

Input Voltage	Ballast Driven or Line Driven (120V-277V)
Lamp Power	53W
Delivered Lumens	Up to 5,400lm
CCT	2000K/3500K/4000K/5000K
Dimmable	No
Lamp Life	50,000+ hours life (L70)
Certifications	UL Recognized, UL Classified; DLC (Line Driven E39 and E26 3500K)
Warranty	5 years
Sensor Enabled	No

APPLICATIONS

Architectural Post Top or Coach Light Fixtures



The LUNERA HID LED 360 is a LED replacement for Metal Halide (MH) or High Pressure Sodium (HPS) lamps with Mogul (E39) or Medium (E26) bases.

The Lunera HID LED 360 is designed with a cylindrical optical lens that softly diffuses light at night and elegantly masks LED components during the day.

The lamp replaces up to 175W MH and HPS lamps in fixtures with a 360 degree illumination, such as architectural lamp posts or coach lights.



*Line Driven E39 and E26 3500K

Example: SN-360-E39-B-5KLM-835-G3

ORDERING INFORMATION

Series	Version	Socket Type	Power Supply	Lamp Lumens	CRI/CCT	Generation
SN Lunera HID LED	360 360° illumination	E26 Fits in medium (E26) base HID socket*	B Magnetic HID Ballast	5KLM 5,400lm	835: 80CRI / 3500K 840: 80CRI / 4000K 850: 80CRI / 5000K	G3 3rd Generation
				3.5KLM 3,500lm	820: 80CRI / 2000K	

EQUIVALENT LAMP

Replaces	Lamp Type	Wattage	CCT	Base
	Metal Halide or High Pressure Sodium	175W, 150W, 100W, 70W	2000K - 5000K	Mogul (E39) or Medium (E26) base

LUNERA MH LED VERTICAL PASSIVE LAMP

UP TO 14,000LM



KEY LAMP FEATURES

Input Voltage	Magnetic Ballast
Lamp Power	145W
Delivered Lumens	Up to 14,000lm replacing 400W (M59)
CCT	3500K/4000K/5000K
Dimmable	No
Lamp Life	50,000+ hours life (L70)
Certifications	UL Recognized
Warranty	5 years
Sensor Enabled	No

APPLICATIONS

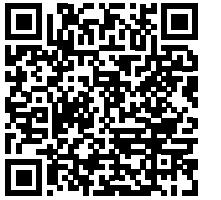
High Bay/Low Bay Pendant



Surface Mount



The LUNERA MH LED Vertical Passive is a plug-and-play replacement for Mogul (E39) base 400W Metal Halide lamps. It has a lumen output up to 14,000 lumens depending on wattage and CCT and is ideal for high-bay pendant applications.




ORDERING INFORMATION

Example: SN-V-E39-400W-320W-4000-G2

Series	Version	Socket Type	Wattage	CCT	Generation
SN Lunera HID LED	V Vertical (E39)	E39 Fits in mogul (E39) base HID socket	400W	3500: 3500K 4000: 4000K 5000: 5000K	G2 2nd Generation

EQUIVALENT LAMP

Replaces	Lamp Type	Wattage	CCT	Base
	Metal Halide	400W	3000K - 5000K	Mogul (E39) Base

LUNERA HPS LED VERTICAL PASSIVE LAMP

UP TO 13,000LM

KEY LAMP FEATURES

Input Voltage	Magnetic ballast
Lamp Power	164W
Delivered Lumens	Up to 13,000lm replacing 400W (S51)
CCT	4000K
Dimmable	No
Lamp Life	50,000+ hours life (L70)
Certifications	UL Recognized
Warranty	5 years
Sensor Enabled	No

APPLICATIONS

High Bay/Low Bay Pendant

Surface Mount



The LUNERA HPS LED Vertical Passive is a plug-and-play replacement for a High Pressure Sodium (HPS) lamp with a Mogul (E39) base. With a significantly lower energy consumption than conventional HPS lamps, this LED lamp replaces 400W, 310W, 250W or 200W HPS lamps.




ORDERING INFORMATION

Example: LY-V-E39-MULTIW-4000-G2

Series	Version	Socket Type	Lamp Wattage Replaced	CCT	Generation
LY Lunera HID LED	V Vertical (E39)	E39 Fits in mogul (E39) base HID socket	MULTIW Supports 400W, 310W, 250W or 200W ballasts	4000: 4000K	G2 2nd Generation

EQUIVALENT LAMP

Replaces	Lamp Type	Wattage	CCT	Base
	High Pressure Sodium Lamp	400W, 310W, 250W or 200W	4000K	Mogul (E39) Base

LUNERA HID LED METAL HALIDE LAMP

UP TO 13,100LM



KEY LAMP FEATURES

Input Voltage	Magnetic ballast
Lamp Power	145W / 120W / 94W / 72W
Delivered Lumens	13,000lm
CCT	3500K/4000K/5000K
Dimmable	No
Lamp Life	50,000+ hours life (L70)
Certifications	UL Recognized
Warranty	5 years
Sensor Enabled	No

APPLICATIONS

Wall Pack



Shoebox



The LUNERA MH LED HORIZONTAL is a LED replacement for metal halide lamps with a Mogul (E39) base. The lamp replaces 400W~175W and delivers up to 13,100 lumens. It's ideal for wall pack and shoe box fixtures.




ORDERING INFORMATION

Example: SN-H-E39-400W-320W-4000-G2

Series	Version	Socket Type	Lamp Wattage Replaced	CCT	Generation
SN Lunera HID LED	H Horizontal	E39 Fits in mogul (E39) base HID socket	400W/320W 400W (M59) / 320W (M132) 250W/175W 250W (M58) / 175W (M57)	3500: 3500K 4000: 4000K 5000: 5000K	G2 2nd Generation

EQUIVALENT LAMP

Replaces	Lamp Type	Wattage	CCT	Base
	Metal Halide	400W, 320W, 250W, 175W	3500K - 5000K	Mogul (E39)

LUNERA HID LED HIGH PRESSURE SODIUM LAMP

UP TO 9,400LM

KEY LAMP FEATURES

Input Voltage	Magnetic ballast
Lamp Power	118W / 105W / 83W / 63W
Delivered Lumens	9,400lm
CCT	4000K
Dimmable	No
Lamp Life	50,000+ hours life (L70)
Certifications	UL Recognized
Warranty	5 years
Sensor Enabled	No

APPLICATIONS

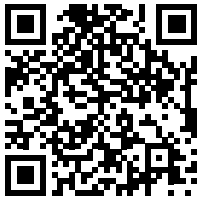
Wall Pack



Shoebox



The LUNERA HPS LED HORIZONTAL is a LED replacement for High Pressure Sodium (HPS) lamps with a Mogul (E39) base. The lamp replaces 400W~200W and delivers up to 9,400 lumens. It's ideal for wall pack and shoe box fixtures.




ORDERING INFORMATION

Example: LY-H-E39-MULTIW-4000-G2

Series	Version	Socket Type	Lamp Wattage Replaced	CCT	Generation
LY Lunera HID LED	H Horizontal	E39 Fits in mogul (E39) base HID socket	MULTIW 400W (S51) / 310W (S67) 250W (S50) / 200W (266)	4000: 4000K	G2 2nd Generation

EQUIVALENT LAMP

Replaces	Lamp Type	Wattage	CCT	Base
	High Pressure Sodium	400W, 310W, 250W or 200W	4000K	Mogul (E39)

SENSOR LAMPS

INTEGRATING SENSORS, CONTROLLERS, & WIRELESS INTO STANDARD LED LAMPS

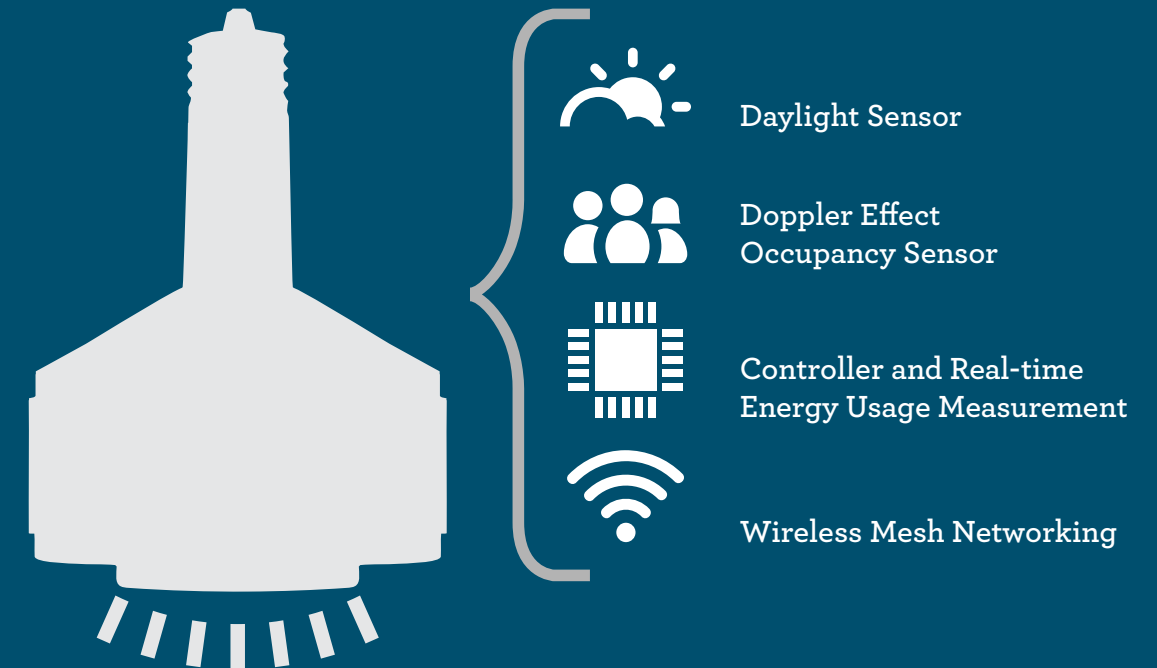
Eliminate discrete sensors, controllers and wireless systems when you change a lamp.

Our plug-and-play LED lamps, already the simplest way to upgrade to LED and start saving energy, made the perfect carrier for our advanced sensors, wireless, and control electronics. Every light socket in your building can be transformed into a source of energy usage data.

No more discrete sensors. No more dedicated lighting controllers or wireless gear. Just replace your T8 and HID lamps with Sensor Lamps and start sending real-time energy usage, occupancy and ambient light level data to the Facilities Director Energy Management Software in the cloud.

It's the innovation you've been looking for.

Sensor Lamps integrate once-discrete sensors, lighting controllers, and wireless communications into plug-and-play LED lamps, enabling them to send data to and be controlled by the Facilities Director Energy Management Software in the cloud.



Optimizing Energy Management.

ENERGY MANAGEMENT SOFTWARE

FACILITIES DIRECTOR PLATFORM & ENERGY MANAGER APP

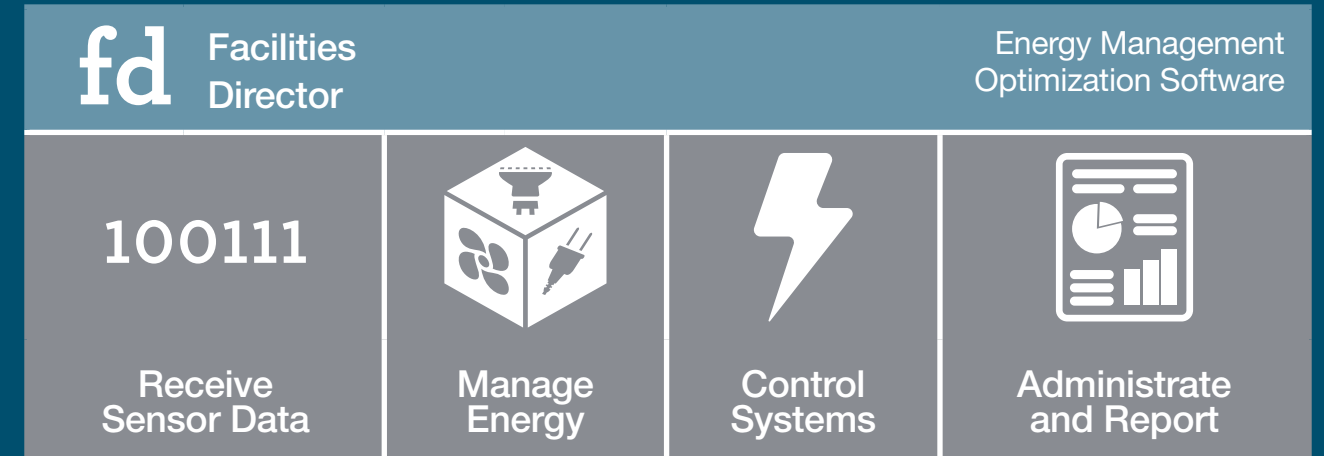
Lunera's energy management solution is the simple, scalable and affordable way to optimize your energy management.

Lunera Sensor Lamps are the plug-and-play hardware that deploys your IoT sensor network while simultaneously upgrading your lighting to energy-efficient LED.

In the cloud, our Facilities Director software and Energy Manager application use data from the Sensor Lamps or other sources to optimize the energy consumption of your lighting, HVAC, and plug load systems. Automate scenarios based on time, weather, occupancy or respond to inputs from OpenADR 2.0b, IFTTT and BACnet.

Anywhere, anytime dashboard access and reports keeps your finger on the pulse of your building.

Optimizing Energy Management.



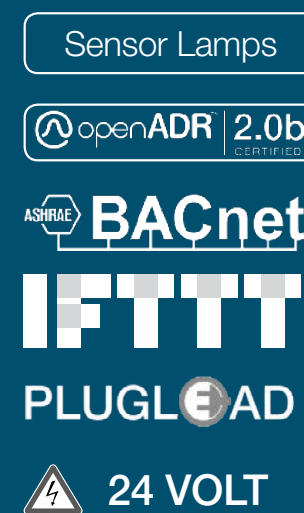
Gather Data

The Sensor Lamps form a mesh network and send data to the Facilities Director in the cloud.



Analyze Data

The Energy Manager app running on Facilities Director analyzes all available data and issues commands based on programmed scenes.



Use Data

Facilities Director executes the commands, directing responsive systems to take action.





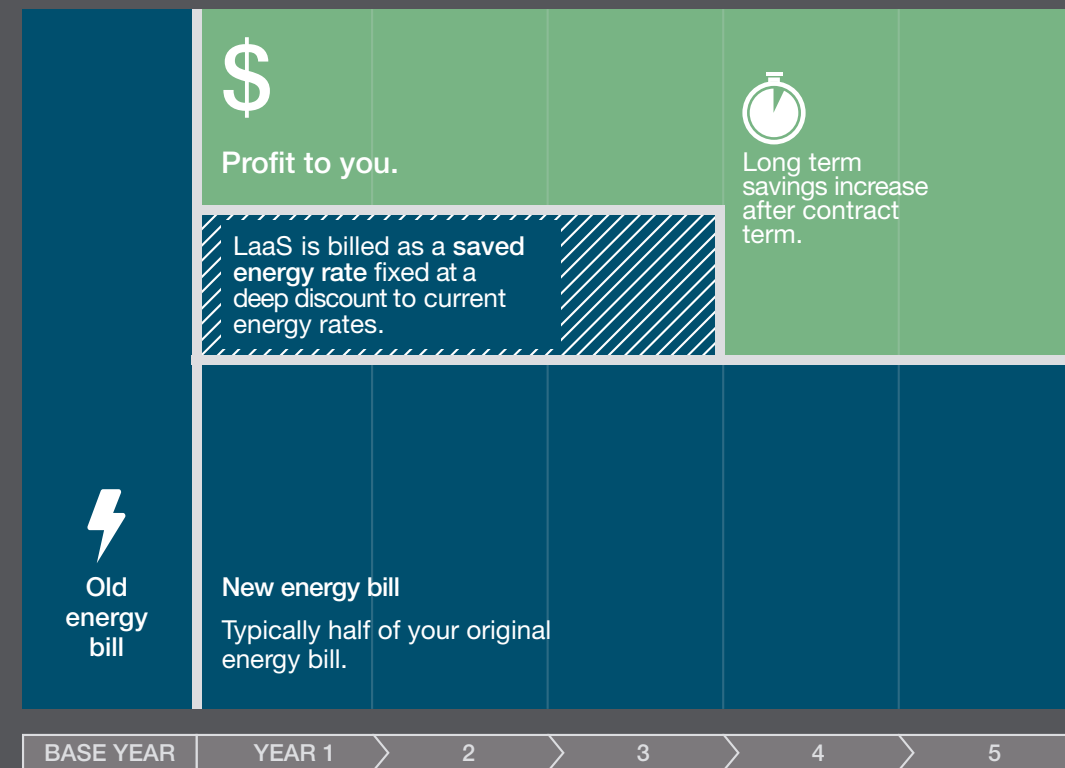
LaaS

Lunera Lighting as a Service (LaaS)

- No Capital Required
- Fully Turnkey
- Positive Cash Flow Day One
- No Risk

Powered by: **REDAPTIVE™**

Enjoy instant ROI and reduce your facility OpEx starting from day one. Total savings up to \$0.75 per Sq Ft annually is possible over the life of the lamps. Since no capital is required, we've eliminated budget obstacles.



What is LaaS?

LaaS is not a lease. LaaS is a turnkey service of Lunera Lighting designed to eliminate the need to make a CapEx decision for a lighting upgrade.

Are there upfront costs?

No, it's a turnkey service. It includes initial plug-and-play Lunera LED lamps, installation, project management, and contract period maintenance. Saved Energy service payments can be treated as off balance sheet transactions, which allows for rapid deployment.

How is it billed?

LaaS is billed as a saved energy rate, fixed at a deep discount to current energy rates.

What's the payback?

Subscribers are immediately Cash Flow Positive.

What happens afterwards?

You keep the lamps and continue long term savings on your utility payments.

Can I upgrade in phases?

Multiphase deployments are certainly possible with no upfront costs. However, maximum savings are achieved with a full portfolio retrofit.

Online Resources and Information

www.lunera.com

Contact a Lunera Sales Office or Rep

www.lunera.com/contact

info@lunera.com

Where to Buy Lunera Products

www.lunera.com/buy

Customer Service

650.241.3875

Technical Support

<https://lunera.freshdesk.com/support/home>

Address

Lunera Lighting, Inc.
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Santa Clara, CA 95054