

LED LAMP SPECIFICATION COMPARISON AND LINKS TO ONLINE CUT SHEETS AND TECHNICAL DOCUMENTS

November 2017



FIND AND COMPARE LAMP SOLUTIONS IN THIS DIRECTORY:				GET MORE INFORMATION ONLINE:
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Type A = Ballast Driven (plug-and-play)

Type B = Ballast Bypassed

Type C = External LED Driver

All lamps have applicable UL, FCC, and RoHS compliance.

RESOURCES:

Country/State Directory of Lunera Offices and Agents

<https://www.lunera.com/find-office-agent>

Locate a Distributor or Online Retailer

<https://www.lunera.com/buy>

Contact Lunera

<https://www.lunera.com/contact>

Lunera Technical Support

<http://bit.ly/luneratechsupport>

Turnkey Lighting as a Service

<https://www.lunera.com/lighting-as-a-service>





CFL / PLL LED REPLACEMENT LAMPS

■ Type A: Ballast Driven

■ Type B: Ballast Bypassed

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Click title for Cut Sheet and more >>		Lunera CFL LED G24q Gen 4		Lunera CFL LED G24q Universal Mount		Lunera CFL LED G24d Gen 4		Lunera CFL LED GX23 Gen 4		Lunera PLL LED 2G11 Gen 1	
Replaces	Equivalent Lamp Type	CFL		CFL		CFL		CFL		PLL	
	Socket	4-Pin G24q		4-Pin G24q		2-Pin G24d		2-pin GX23		4-Pin 2G11	
	Equivalent Wattage	42/32/26/18W		42/32/26/18/13W		26/18W		13W		55/40/36W	
	Dimmable	Contact Lunera for Dimmer Compatibility		No		No		Contact Lunera for Dimmer Compatibility		Contact Lunera for Dimmer Compatibility	
Energy	Power Source	Type A Ballast Driven		Type B Ballast Bypassed		Type A Ballast Driven		Type A Ballast Driven		Type B Ballast Bypassed	
	Lamp Wattage (W)	11W		10W 20W 30W		13W		5W		5W	
Light	Lamp Max Lumens (lm)	1,350	1,445	1,200 2,300 3,500		950	1,000	580		2,600	
	CCT (K)	2700 / 3000 / 3500 / 4000		2700 / 3000 / 3500 / 4000		2700 / 3000 / 3500 / 4000		2700 / 3000 / 3500 / 4000		2700 / 3000 / 3500 / 4000	
	Light Source	LED		LED		LED		LED		LED	
	Lamp Mount / Light Direction	Vertical 	Horizontal 	Universal 		Vertical 	Horizontal 	Vertical or Horizontal 		Vertical or Horizontal 	
Physical	Height (in.)	5.17	4.53	3.83		5.17	4.53	6.01		22.4	
	Width (in.)	1.38	2.36	4.08		1.38	2.36	1.28		1.71	
	Depth (in.)	1.38	2.01	4.08		1.38	2.01	0.82		0.68	
	Weight (lbs.)	0.25	0.25	0.45		0.25	0.25	0.10		0.35	
Features	DLC Listed	Yes, DLC 4.2									
	Thermal Management	Thermal Fuse Protection + Convection		Thermal Fuse Protection + Convection		Convection		Convection		Convection	
	Accessories	Vertical G24q Socket Extender		Vertical G24q Socket Extender and Horizontal-to-Vertical Arm		No		No		No	
	Smart Lamp Version	No		Yes (2018)		No		No		No	

VERTICAL FLOODLIGHT LED REPLACEMENT LAMPS

■ Type B: Ballast Bypassed

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Lunera E26 Vertical Floodlight






Replaces	Equivalent Lamp Type	Self-Ballasted CFL Metal Halide PAR 30/40 Halogen PAR 30/38 Halogen BR 20/30 Metal Halide
	Equivalent Wattage	Lamp Dependent (See Table)
	Socket	Medium E26
	Dimmable	No

Energy	Power Source	Type B Ballast Bypassed
	Lamp Wattage (W)	10W 20W 30W

Light	Lamp Max Lumens (lm)	1,200 2,300 3,500
	CCT (K)	2700 / 3000 / 3500 / 4000
	Light Source	LED
	Lamp Mount / Light Direction	Vertical 
	Beam Spread / Beam Angle	90° ~ 160° (See Table)

	Length (in.)	3.83
	Diameter (in.)	4.08
	Width (in.)	4.08
	Weight (lbs.)	0.45

Features	DLC Listed	
	Thermal Management	Thermal Fuse Protection + Convection
	Accessories	Compatible with E26 Socket Extender
	Smart Lamp Version	* If yes, verify availability on cut sheet. Yes (2018)

Lunera E26 LED Floodlight	Replaces E26 Base Lamps with Wattages* / Delivered Lumens (up to)				
LED Type B (Line Driven)	CFL Self Ballasted	PAR 20/30 Metal Halide	PAR 30/38 Halogen	BR 30/40 Halogen	HID Metal Halide
					
10W 1,200lm	32W 1,000lm	20W 1,000lm	60W 1,000lm	60W 1,000lm	—
20W 2,300lm	65W 2,000lm	39W 2,100lm	90W 1,800lm	—	—
30W 3,500lm	105W 3,000lm	39W 2,400lm	—	—	70W 2,500lm

Lamp Type	Beam Angle	Lunera Compatibility
Very Narrow Spot	<15 Degrees	No
Narrow Spot	15-30 Degrees	No
Spot	30-60 Degrees	No
Narrow Flood	60-90 Degrees	No
Flood	90-120 Degrees	Yes
Wide Flood	120-160 Degrees	Yes
Very Wide Flood	>160 Degrees	No

T8 LINEAR LED REPLACEMENT LAMPS

■ Type A: Ballast Driven

■ Type B: Ballast Bypassed (Single-Ended)

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Click title for Cut Sheet and more >>		Lunera T8 LED 2FT Gen 2	Lunera T8 LED 3FT Gen 1	Lunera T8 LED 4FT Gen 2	Lunera T8 LED 2FT Gen 1	Lunera T8 LED 3FT Gen 1	Lunera T8 LED 4FT Gen 1
Replaces	Equivalent Lamp Type	T8 Linear	T8 Linear	T8 Linear	T8 Linear	T8 Linear	T8 Linear
	Equivalent Wattage	20/17/15W	30/25/21W	32/30/28/25W	20/17/15W	30/25/21W	32/30/28/25W
	Socket	Bi-Pin G13	Bi-Pin G13	Bi-Pin G13	Bi-Pin G13	Bi-Pin G13	Bi-Pin G13
	Dimmable	Limited Compatibility - Recommend Type C Lamp	Limited Compatibility - Recommend Type C Lamp	Limited Compatibility - Recommend Type C Lamp	No (Recommend Type C Lamp)	No (Recommend Type C Lamp)	No (Recommend Type C Lamp)
Energy	Power Source	Type A: Ballast Driven (Instant/Rapid/Programmed)	Type A: Ballast Driven (Instant/Rapid/Programmed)	Type A: Ballast Driven (Instant/Rapid/Programmed)	Type B Ballast Bypassed	Type B Ballast Bypassed	Type B Ballast Bypassed
	Socket Wiring	Shunted or Un-Shunted Tombstone	Shunted or Un-Shunted Tombstone	Shunted or Un-Shunted Tombstone	Single-Ended Non-Shunted	Single-Ended Non-Shunted	Single-Ended Non-Shunted
	Lamp Wattage (W)	8W	11W	11W 15W	9W	12W	14W
Light	Lamp Max Lumens (lm)	1,200	1,400	1,800 2,200	1,150	1,400	1,800
	CCT (K)	3000 / 3500 / 4000 / 5000	3000 / 3500 / 4000 / 5000	3000 / 3500 / 4000 / 5000	3000 / 3500 / 4000 / 5000	3000 / 3500 / 4000 / 5000	3000 / 3500 / 4000 / 5000
	Light Source	LED	LED	LED	LED	LED	LED
	Tube Length	2FT 	3FT 	4FT 	2FT 	3FT 	4FT 
	Beam Spread / Beam Angle	230° / 330°	230° / 330°	230° / 330°	230° / 330°	230° / 330°	230° / 330°
Physical	Tube Material	Glass with Toughened Ends	Glass with Toughened Ends	Glass with Toughened Ends	Glass with Toughened Ends	Glass with Toughened Ends	Glass with Toughened Ends
	Length (in.)	23.7	35.75	47.72	23.7	35.75	47.72
	Diameter (in.)	1.00	1.00	1.00	1.00	1.00	1.00
	Width (in.)	---	---	---	---	---	---
	Weight (lbs.)	0.25	0.35	0.45	0.25	0.35	0.45
Features	DLC Listed	Yes, DLC 4.2		Yes, DLC 4.2	Yes, DLC 4.2		Yes, DLC 4.2
	Thermal Management	Thermal Fuse Protection	Thermal Fuse Protection	Thermal Fuse Protection	Thermal Fuse Protection	Thermal Fuse Protection	Thermal Fuse Protection
	P.E.T. Shatter Guard Glass	Yes, Option	Yes, Option	Yes, Option	Yes, Option	Yes, Option	Yes, Option
	Smart Lamp Version	No	No	No	No	No	Yes (Dec 2017)

T8 (T12) LINEAR LED REPLACEMENT LAMPS

■ Type B: Ballast Bypassed (Double-Ended)

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Click title for Cut Sheet and more >>		Lunera T8 LED 2FT Gen 1	Lunera T8 LED 3FT Gen 1	Lunera T8 LED 4FT Gen 1	Lunera T8 LED 8FT Gen 1	Lunera T8 LED 8FT Gen 1	Lunera T12 LED 8FT Gen 1	Lunera T12 LED 8FT Gen 1
Replaces	Equivalent Lamp Type	T8 Linear	T8 Linear	T8 Linear	T8 Linear	T8 Linear	T12 Linear (using T8 lamp / T8 ballast)	T12 Linear (using T8 lamp / T8 ballast)
	Equivalent Wattage	20/17/15W	30/25/21W	32/30/28/25W	75/60/59/54W	75/60/59/54W	75/60/59/54W	75/60/59/54W
	Socket	Bi-Pin G13	Bi-Pin G13	Bi-Pin G13	Single-Pin Fa8	Double Recessed Contact R17d	Single-Pin Fa8	Double Recessed Contact R17d
	Dimmable	No (Recommend Type C Lamp)	No (Recommend Type C Lamp)	No (Recommend Type C Lamp)	No	No	No	No
Energy	Power Source	Type B Ballast Bypassed	Type B Ballast Bypassed	Type B Ballast Bypassed	Type B Ballast Bypassed	Type B Ballast Bypassed	Type B Ballast Bypassed	Type B Ballast Bypassed
	Socket Wiring	Double-Ended UTT Non-Shunted or Shunted	Double-Ended UTT Non-Shunted or Shunted	Double-Ended UTT Non-Shunted or Shunted	Double-Ended Non-Shunted	Double-Ended UTT Non-Shunted or Shunted	Double-Ended Non-Shunted	Double-Ended UTT Non-Shunted or Shunted
	Lamp Wattage (W)	9W	12W	12W 14W 17W	25W 34W 43W	43W	25W 34W 43W	43W
Light	Lamp Max Lumens (lm)	1,200	1,400	1,800 2,200	3,500 4,400 5,500	5,500	3,500 4,400 5,500	5,500
	CCT (K)	3000 / 3500 / 4000 / 5000	3000 / 3500 / 4000 / 5000	3000 / 3500 / 4000 / 5000	3000 / 3500 / 4000 / 5000	3000 / 3500 / 4000 / 5000	3000 / 3500 / 4000 / 5000	3000 / 3500 / 4000 / 5000
	Light Source	LED	LED	LED	LED	LED	LED	LED
	Tube Length	2FT 	3FT 	4FT 	8FT 	8FT 	8FT 	8FT 
	Beam Spread / Beam Angle	230° / 330°	230° / 330°	230° / 330°	230° / 330°	230° / 330°	230° / 330°	230° / 330°
Physical	Tube Material	Glass with Toughened Ends	Glass with Toughened Ends	Glass with Toughened Ends	Glass with Toughened Ends	Glass with Toughened Ends	Glass with Toughened Ends	Glass with Toughened Ends
	Length (in.)	23.7	35.75	47.72	93.74	93.74	93.74	93.74
	Diameter (in.)	1.00	1.00	1.00	0.94	0.94	0.94	0.94
	Width (in.)	---	---	---	---	---	---	---
	Weight (lbs.)	0.25	0.35	0.45	0.90	0.90	0.90	0.90
Features	DLC Listed	Yes, DLC 4.2		Yes, DLC 4.2				
	Universal Tombstone Technology	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	P.E.T. Shatter Guard Glass	Yes, Option	Yes, Option	Yes, Option	Yes, Included	Yes, Included	Yes, Included	Yes, Included
	Smart Lamp Version <small>* If yes, verify availability on cut sheet.</small>	No	No	No	No	No	No	No

T8 U-BEND LED REPLACEMENT LAMPS






■ Type A: Ballast Driven ■ Type B: Ballast Bypassed (Single-Ended)

Click title for Cut Sheet and more >>		Lunera T8 LED U-Bend 6" Gap Gen 1				Lunera T8 LED U-Bend 1-5/8" Gap Gen 1			
Replaces	Equivalent Lamp Type	T8 U-Bend		T8 U-Bend		T8 U-Bend		T8 U-Bend	
	Equivalent Wattage	32/31/29/28/25W		32/31/29/28/25W		32/31/29/28/25W		32/31/29/28/25W	
	Socket	Bi-Pin G13		Bi-Pin G13		Bi-Pin G13		Bi-Pin G13	
	Dimmable	Contact Lunera for Dimmer Compatibility		No		Contact Lunera for Dimmer Compatibility		No	
Energy	Power Source	Type A: Ballast Driven (Instant/Rapid/Programmed)		Type B Ballast Bypassed		Type A: Ballast Driven (Instant/Rapid/Programmed)		Type B Ballast Bypassed	
	Socket Wiring	Shunted or Un-Shunted Tombstone		Single-Ended Non-Shunted		Shunted or Un-Shunted Tombstone		Single-Ended Non-Shunted	
	Lamp Wattage (W)	12W	15W	15W	18W	12W	17W	15W	18W
Light	Lamp Max Lumens (lm)	1,800	2,200	1,800	2,200	1,700	2,100	1,700	2,100
	CCT (K)	3000 / 3500 / 4000 / 5000		3000 / 3500 / 4000 / 5000		3000 / 3500 / 4000 / 5000		3000 / 3500 / 4000 / 5000	
	Light Source	LED		LED		LED		LED	
	Tube Length	22in		22in		22in		22in	
	Beam Spread / Beam Angle	230° / 330°		230° / 330°		230° / 330°		230° / 330°	
Physical	Tube Material	Glass with Toughened Ends		Glass with Toughened Ends		Glass with Toughened Ends		Glass with Toughened Ends	
	Tube Gap	6in		6in		1-5/8in.		1-5/8in.	
	Length (in.)	22.40		22.40		22.40		22.40	
	Diameter (in.)	0.97		0.97		0.97		0.97	
	Width (in.)	6.00		6.00		1.61		1.61	
	Weight (lbs.)	0.50		0.50		0.50		0.50	
Features	DLC Listed	Yes, DLC 4.2 *		Yes, DLC 4.2					
	Universal Tombstone Technology	N/A		No		N/A		No	
	Thermal Management	Thermal Fuse Protection		N/A		Thermal Fuse Protection		N/A	
	P.E.T. Shatter Guard Glass	No		No		No		No	
	Smart Lamp Version	No		No		No		No	

* 3500K, 4000K, 5000K only

T5HO / T5 LINEAR LED REPLACEMENT LAMPS

■ Type A: Ballast Driven








Click title for Cut Sheet and more >>		Lunera T5HO 2FT Gen 1	Lunera T5HO 4FT Gen 2		Lunera T5HO 4FT Gen 1	
Replaces	Equivalent Lamp Type	T5HO Linear	T5HO Linear	T5 Linear (using T5HO lamp/T5 Ballast)	T5HO Linear	T5 Linear (using T5HO lamp/T5 Ballast)
	Equivalent Wattage	22W	54W	28W	54W	28W
	Socket	Mini Bi-Pin G5	Mini Bi-Pin G5	Mini Bi-Pin G5	Mini Bi-Pin G5	Mini Bi-Pin G5
	Dimmable	Contact Lunera for Dimmer Compatibility	Limited Compatability - Recommend Type C Lamp	Limited Compatability - Recommend Type C Lamp	Limited Compatability - Recommend Type C Lamp	Limited Compatability - Recommend Type C Lamp
Energy	Power Source	Type A: T5HO Ballast Driven (Instant/Rapid/Programmed)	Type A: T5HO Ballast Driven (Instant/Rapid/Programmed)	Type A: T5 Ballast Driven (Instant/Rapid/Programmed)	Type A: T5HO Ballast Driven (Instant/Rapid/Programmed)	Type A: T5 Ballast Driven (Instant/Rapid/Programmed)
	Socket Wiring	Shunted or Un-Shunted	Shunted or Un-Shunted	Shunted or Un-Shunted	Shunted or Un-Shunted	Shunted or Un-Shunted
	Lamp Wattage (W)	11W	25W	11W	25W	11W
Light	Lamp Max Lumens (lm)	1,400	3,500	1,300	3,200	1,300
	CCT (K)	3000 / 3500 / 4000 / 5000	3000 / 3500 / 4000 / 5000	3000 / 3500 / 4000 / 5000	3000 / 3500 / 4000 / 5000	3000 / 3500 / 4000 / 5000
	Light Source	LED	LED	LED	LED	LED
	Tube Length	2FT 	4FT 	4FT 	4FT 	4FT 
	Beam Spread / Beam Angle	230° / 330°	230° / 330°	230° / 330°	230° / 330°	230° / 330°
Physical	Tube Material	Glass with Toughened Ends	Glass with Toughened Ends	Glass with Toughened Ends	Glass with Toughened Ends	Glass with Toughened Ends
	Tube Gap	---	---	---	---	---
	Length (in.)	23.79	45.80	45.80	45.80	45.80
	Diameter (in.)	0.62	0.62	0.62	0.62	0.62
	Width (in.)	---	---	---	---	---
	Weight (lbs.)	0.25	0.25	0.25	0.25	0.25
Features	DLC Listed		Yes, DLC 4.2	Yes, DLC 4.2		
	Thermal Management	Current Overdrive Protection	Current Overdrive Protection	Current Overdrive Protection	Current Overdrive Protection	Current Overdrive Protection
	P.E.T. Shatter Guard Glass	No	No	No	No	No
	Smart Lamp Version	No	No	No	No	No

T8 and T5HO LINEAR LED RETROFIT KIT

■ Type C: External LED Driver

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Click title for Cut Sheet and more >>		Lunera T8 4FT 4-Lamps + Driver	Lunera T8 4FT 3-Lamps + Driver	Lunera T8 4FT 2-Lamps + Driver	Lunera T8 2FT 1-Lamp + Driver	Lunera T8 2FT 4-Lamps + Driver	Lunera T8 2FT 3-Lamps + Driver	Lunera T8 4FT 2-Lamps + Driver
Replaces	Equivalent Lamp Type	T8 Linear (x4 Lamps)	T8 Linear (x3 Lamps)	T8 Linear (x2 Lamps)	T8 Linear (x1 Lamp)	T8 Linear (x4 Lamps)	T8 Linear (x3 Lamps)	T8 Linear (x2 Lamps)
	Equivalent Wattage Replaced	128W	96W	64W	32W	80W	60W	40W
	Socket	Bi-Pin G13	Bi-Pin G13	Bi-Pin G13	Bi-Pin G13	Bi-Pin G13	Bi-Pin G13	Bi-Pin G13
	Dimmable	Yes, 0-10V	Yes, 0-10V	Yes, 0-10V	Yes, 0-10V	Yes, 0-10V	Yes, 0-10V	Yes, 0-10V
Energy	Power Source	Dimmable External LED Driver	Dimmable External LED Driver	Dimmable External LED Driver	Dimmable External LED Driver	Dimmable External LED Driver	Dimmable External LED Driver	Dimmable External LED Driver
	Socket Wiring	Shunted or Un-Shunted	Shunted or Un-Shunted	Shunted or Un-Shunted	Shunted or Un-Shunted	Shunted or Un-Shunted	Shunted or Un-Shunted	Shunted or Un-Shunted
	Kit Lamp Wattage (W)	48W 60W	36W 45W	24W 30W	12W 15W	32W	24W	16W
Light	Kit Lamp Max Lumens (lm)	7,200 8,800	5,400 6,600	3,600 4,400	1,800 2,200	4,800	3,600	2,400
	CCT (K)	3000 / 3500 / 4000 / 5000	3000 / 3500 / 4000 / 5000	3000 / 3500 / 4000 / 5000	3000 / 3500 / 4000 / 5000	3000 / 3500 / 4000 / 5000	3000 / 3500 / 4000 / 5000	3000 / 3500 / 4000 / 5000
	Light Source	LED	LED	LED	LED	LED	LED	LED
	Tube Length	4FT x 4 Lamp 	4FT x 3 Lamp 	4FT x 2 Lamp 	4FT x 1 Lamp 	2FT x 4 Lamp 	2 FT x 3 Lamp 	2FT x 2 Lamp 
	Beam Spread / Beam Angle	230° / 330°	230° / 330°	230° / 330°	230° / 330°	230° / 330°	230° / 330°	230° / 330°
Physical	Tube Material	Glass with Toughened Ends	Glass with Toughened Ends	Glass with Toughened Ends	Glass with Toughened Ends	Glass with Toughened Ends	Glass with Toughened Ends	Glass with Toughened Ends
	Tube Gap	---	---	---	---	---	---	---
	Length (in.)	47.72	47.72	47.72	47.72	23.7	23.7	23.7
	Diameter (in.)	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Width (in.)	---	---	---	---	---	---	---
	Weight (lbs.)	0.45	0.45	0.45	0.45	0.25	0.25	0.25
Features	DLC Listed	Yes, DLC 4.2*	Yes, DLC 4.2*	Yes, DLC 4.2				Yes, DLC 4.2
	P.E.T. Shatter Guard Glass	No	No	No	No	No	No	No
	Smart Lamp Version <small>* If yes, verify availability on cut sheet.</small>	No	No	No	No	No	No	No

* 48W only

* 36W only

T8 and T5HO LINEAR LED RETROFIT KIT, continued

■ Type C: External LED Driver



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**Lunera T8 4FT
1-Lamp + Driver**

**Lunera T5HO 4FT
2-Lamps + Driver**

Replaces	Equivalent Lamp Type	T8 Linear (x1 Lamp)	T5HO Linear (x2 Lamps)
	Equivalent Wattage Replaced	20W	108W
	Socket	Bi-Pin G13	Mini Bi-Pin G5
	Dimmable	Yes, 0-10V	Yes, 0-10V

Energy	Power Source	Dimmable External LED Driver	Dimmable External LED Driver
	Socket Wiring	Shunted or Un-Shunted	Shunted or Un-Shunted
	Kit Lamp Wattage (W)	8W	50W

Light	Kit Lamp Max Lumens (lm)	1,200	7,000
	CCT (K)	3000 / 3500 / 4000 / 5000	3000 / 3500 / 4000 / 5000
	Light Source	LED	LED
	Tube Length	2FT x 1 Lamp 	4FT x 2 Lamps 
	Beam Spread / Beam Angle	230° / 330°	230° / 330°

Physical	Tube Material	Glass with Toughened Ends	Glass with Toughened Ends
	Tube Gap	---	---
	Length (in.)	23.7	45.80
	Diameter (in.)	1.00	0.62
	Width (in.)	---	---
	Weight (lbs.)	0.25	0.25

Features	DLC Listed		
	P.E.T. Shatter Guard Glass	No	No
	Smart Lamp Version	No	No

* If yes, verify availability on cut sheet.

HID LED REPLACEMENT LAMPS - VERTICAL MOGUL E39

■ Type A: Ballast Driven

■ Type B: Ballast Bypassed

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Lunera HID Vertical - Mogul E39

Lunera HID Vertical - Mogul E39

Lunera HID Vertical Fanless - Mogul E39

Replaces	Equivalent Lamp Type	Metal Halide or High Pressure Sodium	Metal Halide or High Pressure Sodium	Metal Halide or High Pressure Sodium
	Equivalent Wattage	400W	400/320/310/250W	250/175/150/100W
	Socket	Mogul E39	Mogul E39	Mogul E39
	Dimmable	No	No	No

Metal Halide or High Pressure Sodium	Metal Halide or High Pressure Sodium	Metal Halide or High Pressure Sodium
400W	400/320/310/250W	250/175/150/100
Mogul E39	Mogul E39	Mogul E39
No	No	No

Metal Halide
400W 250W 175W
Mogul E39
No


Energy	Power Source	Type A CWA Ballast Driven	Type A CWA Ballast Driven	Type A CWA Ballast Driven
	CWA Ballast Types	M59 / S51	M59 / M132 / M58 S51 / S67 / S50	M58 / M57 / M102 / M90 S50 / S60 / S55 / S54
	Lamp Wattage (W)	207W	164W	95W

Type B Ballast Bypassed	Type B Ballast Bypassed	Type B Ballast Bypassed
N/A	N/A	N/A
207W	164W	95W

Type A CWA Ballast Driven
M59 M58 M57
134W 91W 82W

Light	Lamp Max Lumens (lm)	21,300	17,900	9,900
	CCT (K)	3500 / 4000 / 5000	3500 / 4000 / 5000	3500 / 4000 / 5000
	Light Source	LED	LED	LED
	Lamp Mount / Light Direction	Vertical 	Vertical 	Vertical 

21,300	17,900	9,900
3500 / 4000 / 5000	3500 / 4000 / 5000	3500 / 4000 / 5000
LED	LED	LED
Vertical 	Vertical 	Vertical 

16,300 10,500 9,100
4000 / 5000
LED
Vertical Fanless 

Physical	Lens Type	Clear	Clear	Frosted
	Length (in.)	9.88	9.88	8.59
	Diameter (in.)	6.31	6.31	6.31
	Weight (lbs.)	1.90	1.90	1.80

Clear	Clear	Frosted
9.88	9.88	8.59
6.31	6.31	6.31
1.90	1.90	1.80

Clear
9.41
8.27
3.75

Features	DLC Listed			
	Thermal Management	Thermal IQ + Active Cooling	Thermal IQ + Active Cooling	Thermal IQ + Active Cooling
	Smart Lamp Version	No Category	No Category	No Category

Yes, 4.2	Yes, 4.2	Yes, 4.2
Thermal IQ + Active Cooling	Thermal IQ + Active Cooling	Thermal IQ + Active Cooling
Yes	Yes	Yes

Thermal IQ + Convection
No

HID LED REPLACEMENT LAMPS - VERTICAL MEDIUM E26

■ Type A: Ballast Driven

■ Type B: Ballast Bypassed

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Lunera HID Vertical - Medium E26 Gen 3

Lunera HID Vertical Fanless - Medium E26

Replaces		Metal Halide or High Pressure Sodium		Metal Halide or High Pressure Sodium		Metal Halide	
Replaces	Equivalent Lamp Type	Metal Halide or High Pressure Sodium		Metal Halide or High Pressure Sodium		Metal Halide	
	Equivalent Wattage	250W ~ 100W		250W ~ 100W		175W 100W 70W	
	Socket	Medium E26		Medium E26		Medium E26	
	Dimmable	No		No		No	
Energy		Type B Ballast Bypassed	Type A CWA Ballast Driven	Type A CWA Ballast Driven			
Energy	Power Source	Type B Ballast Bypassed	Type A CWA Ballast Driven	Type A CWA Ballast Driven			
	CWA Ballast Types	N/A	M58, M80, M138, M57, M137, M81, M102, M176, M142, M90, M91, M149, S50, S55, S54	M57, M137, M90, M91, M149, M85, M98, M139			
	Lamp Wattage (W)	207W	164W	50W 40W 34W			
Light		9,900		9,900		6,000 5,100 4,500	
Light	Lamp Max Lumens (lm)	9,900		9,900		6,000 5,100 4,500	
	CCT (K)	3500 / 4000 / 5000		3500 / 4000 / 5000		4000 / 5000	
	Light Source	LED		LED		LED	
	Lamp Mount / Light Direction	Vertical / Vertical Short		Vertical / Vertical Short		Vertical / Vertical Short	
Physical	Lens Type	Frosted		Frosted		Frosted	
	Length (in.)	8.18	5.01	8.18	5.01	5.5	
	Diameter (in.)	6.31	6.31	6.31	6.31	6.13	
	Weight (lbs.)	1.80	1.50	1.80	1.50	1.50	
Features	DLC Listed						
	Thermal Cooling Approach	Thermal IQ + Active Cooling		Thermal IQ + Active Cooling		Thermal IQ + Convection	
	Smat Lamp Version <small>* If yes, verify availability on cut sheet.</small>	No		No		No	



METAL HALIDE LED REPLACEMENT LAMPS - HORIZONTAL

■ Type A: Ballast Driven

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Lunera MH Horizontal - Mogul E39

Replaces	Equivalent Lamp Type	Metal Halide Only		
	Equivalent Wattage	400W	250W	175W
	Socket	Mogul E39		
	Dimmable	No		

Energy	Power Source	Type A: MH CWA Ballast Driven		
	CWA Ballast Types	M59	M58	M57
	Lamp Wattage (W)	145W	92W	82W

Light	Lamp Max Lumens (lm)	14,800	9,200	7,900
	CCT (K)	4000 / 5000		
	Light Source	LED		
	Lamp Mount / Light Direction	Horizontal		



Physical	Lens Type	Clear		
	Length (in.)	9.40		
	Diameter (in.)	4.20		
	Weight (lbs.)	2.50		

Features	DLC Listed			
	Thermal Cooling Approach	Thermal IQ + Active Cooling		
	Integrated Sensors	No		

HID LED REPLACEMENT LAMPS - 360 DEGREE POST TOP

■ Type A: Ballast Driven

■ Type B: Ballast Bypassed

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Lunera HID 360 - 8,600Klm

Lunera HID 360 - 5,700Klm

Replaces	Equivalent Lamp Type	Metal Halide or High Pressure Sodium	Metal Halide or High Pressure Sodium	Metal Halide or High Pressure Sodium	Metal Halide or High Pressure Sodium
	Equivalent Wattage	250/175/150W	250/175/150W	175/150/100/70/50W	175/150/100/70/50W
	Socket	Mogul E39 or Medium E26	Mogul E39 or Medium E26	Mogul E39 or Medium E26	Mogul E39 or Medium E26
	Dimmable	No	No	No	No

Energy	Power Source	Type A: CWA Ballast Driven	Type B: Ballast Bypassed	Type A: CWA Ballast Driven	Type B: Ballast Bypassed
	CWA Ballast Types	M58 / M57 / M102 / S50 / S60 / S55	Not Applicable	M57 / M102 / M90 / M98 / S60 / S55 / S54 / S62	Not Applicable
	Lamp Wattage (W)	90W	90W	53W	53W

Light	Lamp Max Lumens (lm)	8,600	6,000	8,600	6,000	5,700	3,500	5,700	3,500
	CCT (K)	3500K 4000K 5000K	2000K	3500K 4000K 5000K	2000K	3500K 4000K 5000K	2000K	3500K 4000K 5000K	2000K
	Light Source	LED	LED	LED	LED	LED	LED	LED	LED
	Lamp Mount / Light Direction	360 Degrees	360 Degrees	360 Degrees	360 Degrees	360 Degrees	360 Degrees	360 Degrees	360 Degrees



Physical	Lens Type	Frosted	Frosted	Frosted	Frosted
	Length (in.)	8.19	8.19	8.19	8.19
	Diameter (in.)	4.36	4.36	4.36	4.36
	Weight (lbs.)	2.00	2.00	2.00	2.00

Features	DLC Listed		Yes, DLC 4.2 *		
	Thermal Management Approach	Thermal Fuse Protection + Active Cooling	Thermal Fuse Protection + Active Cooling	Thermal Fuse Protection + Active Cooling	Thermal Fuse Protection + Active Cooling
	Smart Lamp Version <small>* If yes, verify availability on cut sheet.</small>	No	No	No	No

* E39 Mogul Version, 3500K, 4000K, 5000K only