

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

MAY 2016



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 REPLACEMENT LAMPS

Type A: Ballast Driven and Type B: Ballast Bypassed









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Lunera CFL LED G24q

Lunera CFL LED G24d

Lunera CFL LED GX23

Lunera PLL LED 2G11

		Lunera CFL LED G24q		Lunera CFL LED G24d		Lunera CFL LED GX23		Lunera PLL LED 2G11	
Replaces	Equivalent Lamp Type	CFL		CFL		CFL		PLL	
	Socket	4-Pin G24q		2-Pin G24d		2-pin GX23		4-Pin G211	
	Equivalent Wattage	42/32/26/18W		26/18W		13W		55/40/36W	
	Dimmable	Contact Lunera for Dimmer Compatibility		Contact Lunera for Dimmer Compatibility		Contact Lunera for Dimmer Compatibility		Contact Lunera for Dimmer Compatibility	
Energy	Power Source	Type A Ballast Driven		Type A Ballast Driven		Type A Ballast Driven		Type B Ballast Bypassed	
	Lamp Wattage (W)	11W		13W		5W		22W	
Light	Lamp Max Lumens (lm)	1,350	1,445	950	1,000	580	580	2,600	2,600
	CCT (K)	2700 / 3000 / 3500 / 4000		2700 / 3000 / 3500 / 4000		2700 / 3000 / 3500 / 4000		2700 / 3000 / 3500 / 4000	
	Light Source	LED		LED		LED		LED	
	Lamp Mount / Light Direction	Vertical 	Horizontal 	Vertical 	Horizontal 	Vertical or Horizontal 	Vertical or Horizontal 	Vertical or Horizontal 	Vertical or Horizontal 
Physical	Height (in.)	5.17	4.53	5.17	4.53	6.01	6.01	22.4	22.4
	Width (in.)	1.38	2.36	1.38	2.36	1.28	1.28	1.71	1.71
	Depth (in.)	1.38	2.01	1.38	2.01	0.82	0.82	0.68	0.68
	Weight (lbs.)	0.25	0.25	0.25	0.25	0.10	0.10	0.35	0.35
Features	DLC Listed	Yes, DLC 4.1		No Category		No Category		No Category	
	Thermal Fuse Protection	Yes		No		No		No	
	Integrated Sensors <small>* If yes, verify availability on cut sheet.</small>	No		No		No		No	

# T8 (T12) LINEAR REPLACEMENT LAMPS

Type A: Ballast Driven

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Lunera T8 LED 2FT

Lunera T8 LED 3FT








Lunera T8 LED 4FT

Lunera T8 LED 8FT

Lunera T12 LED 8FT

Replaces	Equivalent Lamp Type	T8 Linear	T8 Linear	T8 Linear	T8 Linear	T8 Linear	T12 Linear (using T8 lamp / ballast)	T12 Linear (using T8 lamp / 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	Double Recessed Contact R17d	Single Pin Fa8	Double Recessed Contact R17d	Single Pin Fa8
	Dimmable	Contact Lunera for Dimmer Compatibility	Contact Lunera for Dimmer Compatibility	Contact Lunera for Dimmer Compatibility	Contact Lunera for Dimmer Compatibility	Contact Lunera for Dimmer Compatibility	Contact Lunera for Dimmer Compatibility	Contact Lunera for Dimmer Compatibility

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 A: Ballast Driven (Instant/Rapid/Programmed)	Type A: Ballast Driven (Instant-Start)	Type A: Ballast Driven (Instant/Rapid/Programmed)	Type A: Ballast Driven (Instant-Start)
	Socket Wiring	Shunted or Un-Shunted Tombstone	Shunted or Un-Shunted Tombstone	Shunted or Un-Shunted Tombstone	Shunted or Un-Shunted Tombstone	Shunted or Un-Shunted Tombstone	Shunted or Un-Shunted Tombstone	Shunted or Un-Shunted Tombstone
	Lamp Wattage (W)	8W	11W	11W   15W	42W	24W   33W	42W	24W   33W

Light	Lamp Max Lumens (lm)	1,200	1,400	1,800   2,200	5,500	3,500   4,400	5,500	3,500   4,400
	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	2FT 	3FT 	4FT 	8FT 	8FT 	8FT 	8FT 
	Beam Angle / Beam Spread	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 4.1	No Category	Yes, DLC 4.1	No Category	No Category	No Category	No Category
	Thermal Fuse Protection	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
	Integrated Sensors	No	No	No	No	No	No	No

\* If yes, verify availability on cut sheet.

# T8 (T12) LINEAR REPLACEMENT LAMPS

Type B: Single-Ended Ballast Bypassed

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Lunera T8 LED 2FT

Lunera T8 LED 3FT

Lunera T8 LED 4FT

Lunera T8 LED 8FT

Lunera T12 LED 8FT

Replaces	Equivalent Lamp Type	T8 Linear	T8 Linear	T8 Linear	T8 Linear	T12 Linear (using T8 lamp / ballast)	
	Equivalent Wattage	20/17/15W	30/25/21W	32/30/28/25W	75/60/59/54W		75/60/59/54W
	Socket	Bi-Pin G13	Bi-Pin G13	Bi-Pin G13	Single Pin Fa8		Single Pin Fa8
	Dimmable	Contact Lunera for Dimmer Compatibility		Contact Lunera for Dimmer Compatibility	Contact Lunera for Dimmer Compatibility		Contact Lunera for Dimmer Compatibility

Energy	Power Source	Type B Ballast Bypassed		Type B Ballast Bypassed	Type B Ballast Bypassed	Type B Ballast Bypassed	Type B Ballast Bypassed
	Socket Wiring	Single-Ended Non-Shunted		Single-Ended Non-Shunted	Single-Ended Non-Shunted	Single-Ended Non-Shunted	Single-Ended Non-Shunted
	Lamp Wattage (W)	9W	12W	15W	24W	33W	24W   33W

Light	Lamp Max Lumens (lm)	1,150	1,400	1,800	3,500	4,400	3,500	4,400
	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	3FT	4FT	8FT	8FT	8FT	
	Beam Angle / Beam Spread	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	
	Length (in.)	23.7	35.75	47.72	93.74	93.74	93.74	
	Diameter (in.)	1.00	1.00	1.00	0.94	0.94	0.94	
	Width (in.)	---	---	---	---	---	---	
	Weight (lbs.)	0.25	0.35	0.45	0.90	0.90	0.90	

Features	DLC Listed	Yes, DLC 4.1	No Category	Yes, DLC 4.1	No Category	No Category	No Category	
	Universal Tombstone Technology	No	No	No	Not Applicable	Not Applicable	Not Applicable	
	P.E.T. Shatter Guard Glass	Yes, Option	Yes, Option	Yes, Option	Yes, Included	Yes, Included	Yes, Included	
	Integrated Sensors	Yes	Yes	Yes	Yes	Yes	Yes	

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# T8 (T12) LINEAR REPLACEMENT LAMPS

## Type B: Double-Ended Ballast Bypassed (Quick Bypass)

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Lunera T8 LED 2FT

Lunera T8 LED 3FT






Lunera T8 LED 4FT

Lunera T8 LED 8FT

Lunera T12 LED 8FT

Replaces	Equivalent Lamp Type	T8 Linear	T8 Linear	T8 Linear	T8 Linear	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
	Socket	Bi-Pin G13	Bi-Pin G13	Bi-Pin G13	Double Recessed Contact R17d	Double Recessed Contact R17d
	Dimmable	Contact Lunera for Dimmer Compatibility	Contact Lunera for Dimmer Compatibility	Contact Lunera for Dimmer Compatibility	Contact Lunera for Dimmer Compatibility	Contact Lunera for Dimmer Compatibility

Energy	Power Source	Type B Ballast Bypassed	Type B Ballast Bypassed	Type B Ballast Bypassed	Type B Ballast Bypassed	Type B Ballast Bypassed
	Socket Wiring	Double-Ended Non-Shunted or Shunted	Double-Ended Non-Shunted or Shunted	Double-Ended Non-Shunted or Shunted	Double-Ended Non-Shunted or Shunted	Double-Ended Non-Shunted or Shunted
	Lamp Wattage (W)	9W	12W	14W   17W	43W	43W

Light	Lamp Max Lumens (lm)	1,200	1,400	1,800   2,200	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
	Light Source	LED	LED	LED	LED	LED
	Tube Length	2FT 	3FT 	4FT 	8FT 	8FT 
	Beam Angle / Beam Spread	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
	Length (in.)	23.7	35.75	47.72	93.74	93.74
	Diameter (in.)	1.00	1.00	1.00	0.94	0.94
	Width (in.)	---	---	---	---	---
	Weight (lbs.)	0.25	0.35	0.45	0.90	0.90

Features	DLC Listed	Yes, DLC 4.1	No Category	Yes, DLC 4.1	No Category	No Category
	Universal Tombstone Technology	Yes	Yes	Yes	Yes	Yes
	P.E.T. Shatter Guard Glass	Yes, Option	Yes, Option	Yes, Option	Yes, Included	Yes, Included
	Integrated Sensors <small>* If yes, verify availability on cut sheet.</small>	Yes	Yes	Yes	Yes	Yes





# T8 U-BEND REPLACEMENT LAMPS

Type A: Ballast Driven and Type B: Single-Ended Ballast Bypassed

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Lunera T8 LED U-Bend 6" Gap

Lunera T8 LED U-Bend 1-5/8" Gap

		Lunera T8 LED U-Bend 6" Gap		Lunera T8 LED U-Bend 1-5/8" Gap		
Replaces	Equivalent Lamp Type	T8 U-Bend		T8 U-Bend		
	Equivalent Wattage	32/31/29/28/25W		32/31/29/28/25W		
	Socket	Bi-Pin G13		Bi-Pin G13		
	Dimmable	Contact Lunera for Dimmer Compatibility		Contact Lunera for Dimmer Compatibility		
Energy	Power Source	Type A: Ballast Driven (Instant/Rapid/Programmed)		Type B Ballast Bypassed		
	Socket Wiring	Shunted or Un-Shunted Tombstone		Single-Ended Non-Shunted		
	Lamp Wattage (W)	12W	15W / 17W	15W	18W	
Light	Lamp Max Lumens (lm)	1,800	2,200	1,800	2,200	
	CCT (K)	3000 / 3500 / 4000 / 5000		3000 / 3500 / 4000 / 5000		
	Light Source	LED		LED		
	Tube Length	22in		22in		
						
	Beam Angle / Beam Spread	230° / 330°		230° / 330°		
Physical	Tube Material	Glass with Toughened Ends		Glass with Toughened Ends		
	Tube Gap	6in		1-5/8in.		
	Length (in.)	22.40		22.40		
	Diameter (in.)	0.97		0.97		
	Width (in.)	6.00		1.61		
	Weight (lbs.)	0.50		0.50		
Features	DLC Listed	DLC 4.1 (Pending)		Yes, DLC 4.1		
	Universal Tombstone Technology	No		No		
	Thermal Fuse Protection	Yes		No		
	P.E.T. Shatter Guard Glass	No		No		
	Integrated Sensors <small>* If yes, verify availability on cut sheet.</small>	Yes		Yes		

# T5HO (T5) REPLACEMENT LAMPS

Type A: Ballast Driven

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Lunera T5HO 2FT

Lunera T5HO 4FT

Lunera T5HO 4FT (Gen 1)

		Lunera T5HO 2FT	Lunera T5HO 4FT	Lunera T5HO 4FT (Gen 1)	Lunera T5HO 4FT (Gen 1)	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	Contact Lunera for Dimmer Compatibility	Contact Lunera for Dimmer Compatibility	Contact Lunera for Dimmer Compatibility	Contact Lunera for Dimmer Compatibility
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	<b>3,500</b>	1,300	<b>3,200</b>	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 Angle / Beam Spread	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	No	<b>Yes, DLC 4.1</b>	<b>Yes, DLC 4.1</b>	No	No
	Overdrive Protection	Yes	Yes	Yes	Yes	Yes
	P.E.T. Shatter Guard Glass	No	No	No	No	No
	Integrated Sensors	No	No	No	No	No

\* If yes, verify availability on cut sheet.



# T8 and T5HO LINEAR RETROFIT KITS

Type C: External Driver

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Lunera T8 4FT  
4-Lamps + Driver

Lunera T8 4FT  
2-Lamps + Driver

Lunera T8 2FT  
4-Lamps + Driver

Lunera T8 2FT  
2-Lamps + Driver

Lunera T5HO 4FT  
2-Lamps + Driver

Replaces	Equivalent Lamp Type	T8 Linear (x4)		T8 Linear (x2)		T8 Linear (x4)		T8 Linear (x2)		T5HO Linear (x2)	
	Equivalent Wattage Replaced	128W		64W		88W		44W		108W	
	Socket	Bi-Pin G13		Bi-Pin G13		Bi-Pin G13		Bi-Pin G13		Mini Bi-Pin G5	
	Dimmable	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	
	Socket Wiring	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	24W	30W	32W		16W		50W	

Light	Kit Lamp Max Lumens (lm)	7,200	8,800	4,400	3,600	4,800		2,400		7,000	
	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	4FT		4FT		2FT		2FT		4FT	
	Beam Angle / Beam Spread	180° / 330°		180° / 330°		180° / 330°		180° / 330°		180° / 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	DLC 4.1 (Pending)		Yes, DLC 4.1		DLC 4.1 (Pending)		Yes, DLC 4.1		Yes, DLC 4.1	
	P.E.T. Shatter Guard Glass	No		No		No		No		No	
	Integrated Sensors	No		No		No		No		No	

# METAL HALIDE / HIGH PRESSURE SODIUM REPLACEMENT LAMPS - VERTICAL

Type A: Ballast Driven







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Lunera HID Vertical - Mogul E39

Lunera HID Vertical - Medium E26

		Metal Halide or High Pressure Sodium	Metal Halide or High Pressure Sodium	Metal Halide or High Pressure Sodium	Metal Halide or High Pressure Sodium	Metal Halide or High Pressure Sodium	Metal Halide or High Pressure Sodium
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	Metal Halide or High Pressure Sodium	Metal Halide or High Pressure Sodium
	Equivalent Wattage	400W	400/320/310/250W	250/175/150/100/70W	175/150/100/70W	250/175/150/100/70W	175/150/100/70W
	Socket	Mogul E39	Mogul E39	Mogul E39	Mogul E39	Medium E26	Medium E26
	Dimmable	Contact Lunera for Dimmer Compatibility	Contact Lunera for Dimmer Compatibility	Contact Lunera for Dimmer Compatibility	Contact Lunera for Dimmer Compatibility	Contact Lunera for Dimmer Compatibility	Contact Lunera for Dimmer Compatibility
Energy	Power Source	Type A CWA Ballast Driven	Type A CWA Ballast Driven	Type A CWA Ballast Driven	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 / M98 S50 / S60 / S55 / S54 / S62	M57 / M102 / M90 / M98 S50 / S60 / S55 / S54 / S62	M57 / M102 / M90 / M98 S50 / S60 / S55 / S54 / S62	M57 / M102 / M90 / M98 S50 / S60 / S55 / S54 / S62
	Lamp Wattage (W)	207W	164W	95W	54W	95W	54W
Light	Lamp Max Lumens (lm)	21,300	17,900	9,900	5,700	9,900	5,700
	CCT (K)	3500 / 4000 / 5000	3500 / 4000 / 5000	3500 / 4000 / 5000	3500 / 4000 / 5000	3500 / 4000 / 5000	3500 / 4000 / 5000
	Light Source	LED	LED	LED	LED	LED	LED
	Lamp Mount / Light Direction	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical
							
Physical	Lens Type	Clear	Clear	Frosted	Frosted	Frosted	Frosted
	Type V Lens Option	No	No	No	No	Yes	Yes
	10% Uplight Option	No	No	Yes	Yes	Yes	Yes
	Short Neck Length Option*	No	No	No	No	Yes	Yes
	Length (in.)	9.88	9.88	8.59	8.59	8.18 or 5.01*	8.18 or 5.01*
	Diameter (in.)	6.31	6.31	6.31	6.31	6.31	6.31
	Weight (lbs.)	1.90	1.90	1.80	1.80	1.80 or 1.50*	1.80 or 1.50*
Features	DLC Listed	No Category	No Category	No Category	No Category	No Category	No Category
	Fixture Retrofit Kit	No	No	No	No	No	No
	Integrated Sensors	No	No	No	No	No	No

\* If yes, verify availability on cut sheet.

# METAL HALIDE / HIGH PRESSURE SODIUM REPLACEMENT LAMPS - VERTICAL

Type B: Ballast Bypassed



LUNERA®

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Lunera HID Vertical - Mogul E39

Lunera HID Vertical - Medium E26

		Metal Halide or High Pressure Sodium	Metal Halide or High Pressure Sodium	Metal Halide or High Pressure Sodium	Metal Halide or High Pressure Sodium	Metal Halide or High Pressure Sodium	Metal Halide or High Pressure Sodium
Replaces	Equivalent Lamp Type						
	Equivalent Wattage	400W	400/320/310/250W	250/175/150/100/70W	175/150/100/70W	250/175/150/100/70W	175/150/100/70W
	Socket	Mogul E39	Mogul E39	Mogul E39	Mogul E39	Medium E26	Medium E26
	Dimmable	Contact Lunera for Dimmer Compatibility	Contact Lunera for Dimmer Compatibility	Contact Lunera for Dimmer Compatibility	Contact Lunera for Dimmer Compatibility	Contact Lunera for Dimmer Compatibility	Contact Lunera for Dimmer Compatibility
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
	CWA Ballast Types	M59 / S51	M59 / M132 / M58 S51 / S67 / S50	M58 / M57 / M102 / M90 / M98 S50 / S60 / S55 / S54 / S62	M57 / M102 / M90 / M98 S50 / S60 / S55 / S54 / S62	M57 / M102 / M90 / M98 S50 / S60 / S55 / S54 / S62	M57 / M102 / M90 / M98 S50 / S60 / S55 / S54 / S62
	Lamp Wattage (W)	207W	164W	95W	54W	95W	54W
Light	Lamp Max Lumens (lm)	21,300	17,900	9,900	5,700	9,900	5,700
	CCT (K)	3500 / 4000 / 5000	3500 / 4000 / 5000	3500 / 4000 / 5000	3500 / 4000 / 5000	3500 / 4000 / 5000	3500 / 4000 / 5000
	Light Source	LED	LED	LED	LED	LED	LED
	Lamp Mount / Light Direction	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical
							
Physical	Lens Type	Clear	Clear	Frosted	Frosted	Frosted	Frosted
	Type V Lens Option	No	No	No	No	Yes	Yes
	10% Uplight Option	No	No	Yes	Yes	Yes	Yes
	Short Neck Length Option*	No	No	No	No	Yes	Yes
	Length (in.)	9.88	9.88	8.59	8.59	8.18 or 5.01*	8.18 or 5.01*
	Diameter (in.)	6.31	6.31	6.31	6.31	6.31	6.31
	Weight (lbs.)	1.90	1.90	1.80	1.80	1.80 or 1.50*	1.80 or 1.50*
Features	DLC Listed	Yes, 4.1	Yes, 4.1	Yes, 4.1	Yes, 4.1	No Category	No Category
	Fixture Retrofit Kit	Yes (Hardwired Attachment Ring)	Yes (Hardwired Attachment Ring)	Yes (Hardwired Attachment Ring)	No	No	No
	Integrated Sensors <small>* If yes, verify availability on cut sheet.</small>	Yes	Yes	Yes	Yes	Yes	Yes



# METAL HALIDE / HIGH PRESSURE SODIUM REPLACEMENT LAMPS - VERTICAL (NO COOLING FAN)

Type A: Ballast Driven

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Lunera MH Vertical - No Cooling Fan

Lunera HPS Vertical - No Cooling Fan

Replaces	Equivalent Lamp Type	Metal Halide				High Pressure Sodium			
	Equivalent Wattage	400W	320W	250W	175W	400W	310W	250W	200W
	Socket	Mogul E39				Mogul E39			
	Dimmable	Contact Lunera for Dimmer Compatibility				Contact Lunera for Dimmer Compatibility			
Energy	Power Source	Type A: MH CWA Ballast Driven				Type A: HPS CWA Ballast Driven			
	CWA Ballast Types	M59	M132	M58	M57	S51	S67	S66	S50
	Lamp Wattage (W)	145W	130W	91W	82W	160W	140W	110W	90W
Light	Lamp Max Lumens (lm)	16,400	14,000	10,500	9,100	15,000	13,100	11,500	9,100
	CCT (K)	3500 / 4000 / 5000				3500 / 4000 / 5000			
	Light Source	LED				LED			
	Lamp Mount / Light Direction	Vertical 				Vertical 			
Physical	Lens Type	Frosted				Frosted			
	Length (in.)	9.41				9.41			
	Diameter (in.)	8.27				8.23			
	Weight (lbs.)	3.75				3.75			
Features	DLC Listed	No Category				No Category			
	Thermal IQ Technology	Yes				Yes			
	Fixture Retrofit Kit	No				No			
	Integrated Sensors	No				No			



# METAL HALIDE / HIGH PRESSURE SODIUM REPLACEMENT LAMPS - HORIZONTAL

Type A: Ballast Driven

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Lunera MH Horizontal

Lunera HPS Horizontal

Replaces	Equivalent Lamp Type	Metal Halide				High Pressure Sodium			
	Equivalent Wattage	400W	320W	250W	175W	400W	310W	250W	200W
	Socket	Mogul E39				Mogul E39			
	Dimmable	Contact Lunera for Dimmer Compatibility				Contact Lunera for Dimmer Compatibility			
Energy	Power Source	Type A: MH CWA Ballast Driven				Type A: HPS CWA Ballast Driven			
	CWA Ballast Types	M59	M132	M58	M57	S51	S67	S66	S50
	Lamp Wattage (W)	145W	130W	92W	82W	118W	105W	83W	63W
Light	Lamp Max Lumens (lm)	14,800	12,800	9,200	7,900	10,800	9,700	8,500	6,500
	CCT (K)	3500 / 4000 / 5000		3500 / 4000 / 5000		3500 / 4000 / 5000		3500 / 4000 / 5000	
	Light Source	LED				LED			
	Lamp Mount / Light Direction	Horizontal				Horizontal			
									
Physical	Lens Type	Frosted				Frosted			
	Length (in.)	9.40				9.40			
	Diameter (in.)	4.20				4.20			
	Weight (lbs.)	2.50				2.50			
Features	DLC Listed	No Category				No Category			
	Fixture Retrofit Kit	No				No			
	Integrated Sensors	No				No			

\* If yes, verify availability on cut sheet.

# METAL HALIDE / HIGH PRESSURE SODIUM REPLACEMENT LAMPS - 360 DEGREE POST TOP

Type A: Ballast Driven and Type B: Ballast Bypassed

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Lunera HID 360 - 8K

Lunera HID 360 - 5K

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	Contact Lunera for Dimmer Compatibility		Contact Lunera for Dimmer Compatibility		Contact Lunera for Dimmer Compatibility		Contact Lunera for Dimmer Compatibility	
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	
	Lamp Mount / Light Direction	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	No Category		Yes, DLC 4.1 (E39 Mogul Only)		No Category		No Category	
	Fixture Retrofit Kit	No		No		No		No	
	Integrated Sensors	No		No		No		No	






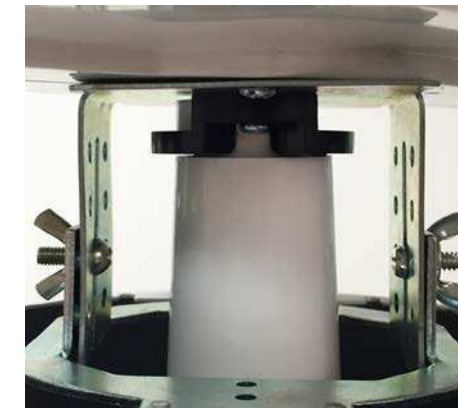
# METAL HALIDE / HIGH PRESSURE SODIUM RETROFIT KITS - VERTICAL

Type B: Ballast Bypassed and Hardwired Directly to Line Voltage (mogul socket removed)

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## Lunera HID Vertical - Hardwired Clasp replaces 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	250/175/150/100/70W
	Socket	Hardwired to Line. Mounting Clasp Replaces E39	Hardwired to Line. Mounting Clasp Replaces E39	Hardwired to Line. Mounting Clasp Replaces E39
	Dimmable	Contact Lunera for Dimmer Compatibility	Contact Lunera for Dimmer Compatibility	Contact Lunera for Dimmer Compatibility
Energy	Power Source	Type B: Ballast Bypassed	Type B: Ballast Bypassed	Type B: Ballast Bypassed
	Lamp Wattage (W)	207W	164W	95W
Light	Light Source	LED	LED	LED
	Lamp Mount / Light Direction	Vertical 	Vertical 	Vertical 
	Lamp Max Lumens (lm)	21,300	17,900	9,900
	CCT (K)	3500 / 4000 / 5000	3500 / 4000 / 5000	3500 / 4000 / 5000
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	1.90
Features	DLC Listed	Yes, DLC 4.1	Yes, DLC 4.1	Yes, DLC 4.1
	Fixture Retrofit Kit	Yes	Yes	Yes
	Integrated Sensors <small>* If yes, verify availability on cut sheet.</small>	No	No	No



The Mogul E39 socket is removed from the fixture.

The ballast is bypassed or removed, hardwiring the LED lamp directly to 120V ~ 277V line voltage.

A slotted ring clasp is attached to the fixture's reflector, replacing the E39 socket, and the lamp is secured to the clasp.

The fixture has been retrofitted as an LED fixture.