

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

July 2018



FIND AND COMPARE LAMP SOLUTIONS IN THIS DIRECTORY:				GET MORE INFORMATION ONLINE:
CFL / PL-L	Pin-Based	Types A and B	p. 1	https://www.lunera.com/cfl-led-lamps
LED Floodlight	Vertical Mount	Type B	p. 2	https://www.lunera.com/products-led-floodlights
T8 (T12) Linear		Type A and B	p. 3	https://www.lunera.com/lunera-tled-lamps
T8 U-Bend		Types A and B	p. 5	https://www.lunera.com/lunera-tled-lamps
T5HO (T5) Linear	External Driver	Type A	p. 6	https://www.lunera.com/lunera-tled-lamps
T8 / T5HO Retrofit Kits	External Driver	Type C	p. 7	https://www.lunera.com/lunera-led-retrofit-kits
Metal Halide and High Pressure Sodium	Vertical Mount E39	Type A and B	p. 9	https://www.lunera.com/hid-led-lamps
Metal Halide and High Pressure Sodium	Vertical Mount E26	Type A and B	p. 10	https://www.lunera.com/hid-led-lamps
Metal Halide or High Pressure Sodium	Horizontal Mount	Type A	p. 11	https://www.lunera.com/hid-led-lamps
Metal Halide and High Pressure Sodium	Post Top (360)	Types A and B	p. 12	https://www.lunera.com/hid-led-lamps
Smart Lighting Platform Hardware	Lamps, Switches, Sensors		p. 13	https://www.lunera.com/smart-lighting-platform

Type A = Ballast Driven (plug-and-play)

Type B = Ballast Bypassed

Type C = External LED Driver

Battery

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>



CFL / PLL LED REPLACEMENT LAMPS

■ Type A: Ballast Driven

■ Type B: Ballast Bypassed

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[<< BACK TO TOP](#)

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		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		Planned		No		No		No	

VERTICAL FLOODLIGHT LED REPLACEMENT LAMPS

■ Type B: Ballast Bypassed

[<< BACK TO TOP](#)


2

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Lunera E26 Vertical Floodlight





Replaces	Equivalent Lamp Type	Metal Halide Metal Halide PAR 30/40 Halogen PAR 30/38 Halogen BR 20/30 Self-Ballasted CFL
	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	Planned <small>* If yes, verify availability on cut sheet.</small>

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)

[<< BACK TO TOP](#)

3

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	No	No	No	No	No	No
	Smart Lamp Version	No	No	No	Planned	Planned	Yes








T8 (T12) LINEAR LED REPLACEMENT LAMPS

■ Type B: Ballast Bypassed (Double-Ended)

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4

[<< BACK TO TOP](#)

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	No	No	No	No	No	No	No
	Smart Lamp Version <small>* If yes, verify availability on cut sheet.</small>	Planned	Planned	Planned	Planned	Planned	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		Planned		No		Planned	

* 3500K, 4000K, 5000K only

T5HO / T5 LINEAR LED REPLACEMENT LAMPS

■ Type A: Ballast Driven ■ Type B: Ballast Bypassed Double-Ended








Click title for Cut Sheet and more >>		Lunera T5HO 2FT	Lunera T5HO/T5 4FT		Lunera T5HO 4FT
Replaces	Equivalent Lamp Type	T5HO Linear	T5HO Linear	T5 Linear (using T5HO lamp/T5 Ballast)	T5HO Linear
	Equivalent Wattage	22W	54W	28W	54W
	Socket	Mini Bi-Pin G5	Mini Bi-Pin G5	Mini Bi-Pin G5	Mini Bi-Pin G5
	Dimmable	No, Recommend Type C Lamp	No, Recommend Type C Lamp	No, Recommend Type C Lamp	No, 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 B Ballast Bypassed
	Socket Wiring	Shunted or Un-Shunted	Shunted or Un-Shunted	Shunted or Un-Shunted	Double-Ended UTT Non-Shunted or Shunted
	Lamp Wattage (W)	11W	25W	11W	25W
Light	Lamp Max Lumens (lm)	1,400	3,500	1,300	3,500
	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	2FT 	4FT 	4FT 	4FT 
	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	---	---	---	---
	Length (in.)	23.79	45.80	45.80	45.80
	Diameter (in.)	0.62	0.62	0.62	0.62
	Width (in.)	---	---	---	---
	Weight (lbs.)	0.25	0.25	0.25	0.25
Features	DLC Listed		Yes, DLC 4.2	Yes, DLC 4.2	Yes, DLC 4.2
	Universal Tombstone Technology	N/A	N/A	N/A	Yes
	Thermal Management	Thermal Fuse Switch	Thermal Fuse Switch	Thermal Fuse Switch	N/A
	P.E.T. Shatter Guard Glass	No	No	No	No
	Smart Lamp Version	No	No	No	No

T8 and T5HO LINEAR LED RETROFIT KIT

■ Type C: External LED Driver

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[<< BACK TO TOP](#)

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

Replaces	Equivalent Lamp Type	T8 Linear (x1 Lamp)
	Equivalent Wattage Replaced	20W
	Socket	Bi-Pin G13
	Dimmable	Yes, 0-10V
Energy	Power Source	Dimmable External LED Driver
	Socket Wiring	Shunted or Un-Shunted
	Kit Lamp Wattage (W)	8W
Light	Kit Lamp Max Lumens (lm)	1,200
	CCT (K)	3000 / 3500 / 4000 / 5000
	Light Source	LED
	Tube Length	2FT x 1 Lamp 
	Beam Spread / Beam Angle	230° / 330°
Physical	Tube Material	Glass with Toughened Ends
	Tube Gap	---
	Length (in.)	23.7
	Diameter (in.)	1.00
	Width (in.)	---
	Weight (lbs.)	0.25
Features	DLC Listed	
	P.E.T. Shatter Guard Glass	No
	Smart Lamp Version	No <small>* If yes, verify availability on cut sheet.</small>

Lunera T5HO 4FT 2-Lamps + Driver

T5HO Linear (x2 Lamps)
108W
Mini Bi-Pin G5
Yes, 0-10V
Dimmable External LED Driver
Shunted or Un-Shunted
50W
7,000
3000 / 3500 / 4000 / 5000
LED
4FT x 2 Lamps 
230° / 330°
Glass with Toughened Ends

45.80
0.62

0.25
No
No

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 Fanless - Mogul E39

		Metal Halide or High Pressure Sodium	Metal Halide or High Pressure Sodium	Metal Halide or High Pressure Sodium	Metal Halide
Replaces	Equivalent Lamp Type				
	Equivalent Wattage	400W	400/320/310/250W	250/175/150/100	400W 250W 175W
	Socket	Mogul E39	Mogul E39	Mogul E39	Mogul E39
	Dimmable	No	No	No	No
Energy	Power Source	Type B Ballast Bypassed	Type B Ballast Bypassed	Type B Ballast Bypassed	Type A CWA Ballast Driven
	CWA Ballast Types	N/A	N/A	N/A	M59 M58 M57
	Lamp Wattage (W)	207W	164W	95W	134W 91W 82W
Light	Lamp Max Lumens (lm)	21,300	17,900	9,900	16,300 10,500 9,100
	CCT (K)	4000 / 5000	4000 / 5000	4000 / 5000	4000 / 5000
	Light Source	LED	LED	LED	LED
	Lamp Mount / Light Direction	Vertical 	Vertical 	Vertical 	Vertical Fanless 
Physical	Lens Type	Clear	Clear	Frosted	Clear
	Length (in.)	9.88	9.88	8.59	9.41
	Diameter (in.)	6.31	6.31	6.31	8.27
	Weight (lbs.)	1.90	1.90	1.80	3.75
Features	DLC Listed	Yes, 4.2	Yes, 4.2	Yes, 4.2	
	Thermal Management	Thermal IQ + Active Cooling	Thermal IQ + Active Cooling	Thermal IQ + Active Cooling	Thermal IQ + Convection
	Smart Lamp Version <small>* If yes, verify availability on cut sheet.</small>	Planned	Planned	Planned	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

Lunera MH Vertical Fanless - Medium E26

Replaces	Equivalent Lamp Type	Metal Halide or High Pressure Sodium	Metal Halide
	Equivalent Wattage	250W ~ 100W	175W 100W 70W
	Socket	Medium E26	Medium E26
	Dimmable	No	No

Energy	Power Source	Type B Ballast Bypassed	Type A CWA Ballast Driven
	CWA Ballast Types	N/A	M57, M137, M90, M91, M149, M85, M98, M139
	Lamp Wattage (W)	207W	50W 40W 34W

Light	Lamp Max Lumens (lm)	9,900	6,000 5,100 4,500
	CCT (K)	3500 / 4000 / 5000	3500 / 4000 / 5000
	Light Source	LED	LED
	Lamp Mount / Light Direction	Vertical / Vertical Short	Vertical / Vertical Short



Physical	Lens Type	Frosted		Frosted
	Length (in.)	8.18	5.01	5.5
	Diameter (in.)	6.31	6.31	6.13
	Weight (lbs.)	1.80	1.50	1.50

Features	DLC Listed		
	Thermal Cooling Approach	Thermal IQ + Active Cooling	Thermal IQ + Convection
	Smat Lamp Version	Planned	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		

* If yes, verify availability on cut sheet.

HID LED REPLACEMENT LAMPS - 360 DEGREE POST TOP

■ Type B: Ballast Bypassed

		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	
	Equivalent Wattage	250/175/150W		175/150/100/70/50W	
	Socket	Mogul E39 or Medium E26		Mogul E39 or Medium E26	
	Dimmable	No		No	
Energy	Power Source	Type B: Ballast Bypassed		Type B: Ballast Bypassed	
	CWA Ballast Types	Not Applicable		Not Applicable	
	Lamp Wattage (W)	90W		53W	
Light	Lamp Max Lumens (lm)	8,600	6,000	5,700	3,500
	CCT (K)	4000K / 5000K		4000K / 5000K	
	Light Source	LED		LED	
	Lamp Mount / Light Direction	360 Degrees 		360 Degrees 	
Physical	Lens Type	Frosted		Frosted	
	Length (in.)	8.19		8.19	
	Diameter (in.)	4.36		4.36	
	Weight (lbs.)	2.00		2.00	
Features	DLC Listed	Yes, DLC 4.2 *			
	Thermal Management Approach	Thermal Fuse Protection + Active Cooling		Thermal Fuse Protection + Active Cooling	
	Smart Lamp Version <small>* If yes, verify availability on cut sheet.</small>	No		No	

* E39 Mogul Version


SMART LIGHTING PLATFORM HARDWARE

■ Type B: Ballast Bypassed (Single-Ended) ■ Battery Powered

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Replaces	Equivalent Lamp Type	T8 Linear
	Equivalent Wattage	32/30/28/25W
	Socket	Bi-Pin G13
	Dimmable	Yes (0-100% in 1% increments)

Energy	Power Source	Type B Ballast Bypassed
	Socket Wiring	Single-Ended Non-Shunted
	Lamp Wattage (W)	15W Active / 2W Standby

Light	Lamp Max Lumens (lm)	1,800
	CCT (K)	3000 / 3500 / 4000 / 5000
	Light Source	LED
	Tube Length	4FT 
	Beam Spread / Beam Angle	230° / 330°

Physical	Tube Material	Glass with Toughened Ends
	Length (in.)	47.72
	Diameter (in.)	1.00
	Weight (lbs.)	0.45

Features	DLC Listing -- Lamp	Yes, DLC 4.2
	DLC NLC Listing -- NLC Platform	Yes, DLC 4.2
		Yes, Integrated
	Wi-Fi Radio	Yes, Integrated
	Microcontroller	Yes, Integrated
	Ambient Light Sensor	Yes, Integrated

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Type	Type	
	Color	
	Power Source	
	Battery Life	

Function	Radio	
	Function	
	Range	

Install	Mount	
	Installation	

Design	Style	
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Lunera Smart Switches

2-way mechanical rocker switch	Combo Auto/On Swith and PIR Occupancy Sensor
White	White
3V CR2450 Battery	3V CR2450 Battery
2-3 Years	2-3 Years

Bluetooth	Bluetooth
Powers off LED lamp element based on switch	Powers of LED lamp element based on occupancy detection or switch
32ft to nearest Smart Lamp	32ft to nearest Smart Lamp

Wall	Wall
Up to 10 per zone	Up to 10 per zone



Lunera PIR Sensors

Passive Infrared (PIR) Occupancy Sensor	Passive Infrared (PIR) Occupancy Sensor
Ivory	Ivory
Two 1.5V AA Batteries	Two 1.5V AA Batteries
Up to 2 Years	Up to 2 Years

Bluetooth	Bluetooth
Sends Occupancy Detect/Lost status	Sends Occupancy Detect/Lost status
32ft range	18ft range

Wall	Ceiling
Up to 10 per zone	Up to 10 per zone

