

## High-Intensity Discharge (HID) Lamp Information

HID lamps offer high light output and have longer life expectancy than incandescent bulbs. **LED** lamps use significantly less energy and need to be replaced less often than other HID lamp types. They reach full brightness instantly, produce very little heat, and can withstand temperature changes, vibration, and humidity. **Ceramic metal halide** and **metal halide** lamps offer better color rendering than high-pressure

sodium and mercury vapor lamps and are used for indoor and outdoor lighting. **High-pressure sodium** and **mercury vapor** lamps are used for outdoor, security, and roadway lighting. Ceramic metal halide, metal halide, high-pressure sodium, and mercury vapor lamps take a few minutes to reach full brightness and must cool down before they can be restruck after turning off.

Quick Guide to Color	
Color Temperature	Color Designation
1800K	Orange
1900-2200K	Warm Yellow
2700K	Soft White
3000-3200K	Warm White, SP30
3400-3700K	Neutral White, SP35
3800-4500K	Cool White, SP41
5200-5700K	Blue White, SP50
6200-6700K	Daylight, SP65

Current **PHILIPS SYLVANIA****EX39 Mogul Screw-Base HID & LED  
HID-Replacement Light Bulbs**

The EX39 enclosed mogul screw base on these light bulbs has a 39mm dia. and a longer center terminal than an E39 base. The bulbs screw into both E39 sockets (typically found on enclosed fixtures) and protected EX39 sockets (typically found on open fixtures). These bulbs are used in fixtures with a high mounting height, such as street lights, floodlights, and high-bay and low-bay lights in warehouses and convention centers.

61DA10



2TJ27



Light Technology	Watts	Color Temp.	Lumens	Rated Life	Bulb Shape	Bulb Power Source	Overall Length	ANSI Code	Brand	Item No.
<b>EX39 Mogul Screw-Base HID &amp; LED HID-Replacement Light Bulbs</b>										
<b>100W MH/100W HPS Wattage Equivalency</b>										
LED	12 W, 18 W, 24 W	3000K, 4000K, 5000K	1550 to 3360 lm	50,000 hr	Cylindrical	—	6 3/8 in	—	Light Efficient Design	792UW4
	18 W	3000K, 4000K, 5000K	2,450 lm; 2560 lm; 2610 lm	50,000 hr	Cylindrical	Direct Wired	6 3/8 in	—	Light Efficient Design	60TD99
	27 W	3000K	3,900 lm	50,000 hr	HID	Direct Wired	8 3/4 in	—	Keystone Technologies	61C290
	27 W	4000K	4,000 lm	50,000 hr	HID	Direct Wired	8 3/4 in	—	Keystone Technologies	61C291
	27 W	5000K	4,100 lm	50,000 hr	HID	Direct Wired	8 3/4 in	—	Keystone Technologies	61C292
	30 W	3000K, 4000K, 5000K	3500 lm, 4200 lm, 4300 lm	50,000 hr	Cylindrical	—	6 3/8 in	—	Light Efficient Design	792VA4
	50 W	4000K	7,500 lm	50,000 hr	ED37	Direct Wired	7 3/4 in	—	Current	429U45
	50 W	5000K	7,500 lm	50,000 hr	ED37	Direct Wired	7 3/4 in	—	Current	429U46
	80 W	3000K	12,000 lm	50,000 hr	ED23.5	Direct Wired	7 3/4 in	—	Current	788V16
	1000 W	4000K	65,000 lm	50,000 hr	Corn Cob	Direct Wired	12 1/2 in	—	Philips	784NA3
<b>150W MH/150W HPS Wattage Equivalency</b>										
LED	24 W	5700K	3,425 lm	50,000 hr	Cylindrical	Direct Wired	6 3/8 in	—	Light Efficient Design	508G21
	34 W	3000K	5,000 lm	25,000 hr	ED90	—	218 mm	—	Philips	796P01
	34 W	4000K	5,000 lm	25,000 hr	ED90	—	218 mm	—	Philips	796P02
	34 W	5000K	5,000 lm	25,000 hr	ED90	—	218 mm	—	Philips	796P03
	36 W	3000K, 4000K, 5000K	2,430 lm, 2,520 lm, 2,610 lm, 3,645 lm, 3,780 lm, 3,915 lm, 4,860 lm, 5,040 lm, 5,220 lm	50,000 hr	HID	Direct Wired	8 3/4 in	—	Keystone Technologies	61DA08
<b>175W MH/175W HPS Wattage Equivalency</b>										
LED	35 W	3000K	5,140 lm	50,000 hr	Cylindrical	Direct Wired	7 1/4 in	—	Light Efficient Design	60TD93
	35 W	4000K	5,290 lm	50,000 hr	Cylindrical	Direct Wired	7 1/4 in	—	Light Efficient Design	60TD94
	35 W	5000K	5,360 lm	50,000 hr	Cylindrical	Direct Wired	7 1/4 in	—	Light Efficient Design	60TD95
	35 W, 45 W, 60 W	3000K, 4000K, 5000K	5,290 lm, 6,510 lm, 8,790 lm	50,000 hr	Cylindrical	Direct Wired	7 1/4 in	—	Light Efficient Design	60TD84
	38 W	4000K	6,000 lm	25,000 hr	ED90	—	218 mm	—	Philips	796P05
	38 W	5000K	6,000 lm	25,000 hr	ED90	—	218 mm	—	Philips	796P04
	38 W	5000K	6,000 lm	25,000 hr	ED90	—	218 mm	—	Philips	796P06
	45 W	3000K	6,200 lm	50,000 hr	HID	Direct Wired	10 1/4 in	—	Keystone Technologies	61C296
	45 W	3000K, 4000K, 5000K	3,645 lm, 3,780 lm, 3,915 lm, 4,860 lm, 5,040 lm, 5,220 lm, 6,075 lm, 6,300 lm, 6,525 lm	50,000 hr	HID	Direct Wired	9 3/4 in	—	Keystone Technologies	61DA10
	45 W	4000K	6,300 lm	50,000 hr	HID	Direct Wired	9 3/4 in	—	Keystone Technologies	61C297
	45 W	4000K	5,334 lm	50,000 hr	High/Low Bay	Requires Separate Ballast	6 3/8 in	—	Light Efficient Design	798LF2
	45 W	4000K	5,334 lm	50,000 hr	High/Low Bay	Requires Separate Ballast	7 3/8 in	—	Light Efficient Design	798LF4
	45 W	5000K	6,400 lm	50,000 hr	HID	Direct Wired	9 3/4 in	—	Keystone Technologies	61C298
	45 W	5000K	5,560 lm	50,000 hr	High/Low Bay	Requires Separate Ballast	6 3/8 in	—	Light Efficient Design	798LF3
	45 W	5000K	5,560 lm	50,000 hr	High/Low Bay	Requires Separate Ballast	7 3/8 in	—	Light Efficient Design	798LF5
	50 W	3000K, 4000K, 5000K	6400 lm, 6900 lm, 7200 lm	50,000 hr	Cylindrical	—	8 1/2 in	—	Light Efficient Design	792VA6
	80 W	4000K	12,000 lm	50,000 hr	ED37	Direct Wired	7 3/4 in	—	Current	429U47
	80 W	5000K	12,000 lm	50,000 hr	ED37	Direct Wired	7 3/4 in	—	Current	429U48
<b>200W MH/200W HPS Wattage Equivalency</b>										
LED	54 W	3000K, 4000K, 5000K	4,860 lm, 5,040 lm, 5,220 lm, 6,075 lm, 6,300 lm, 6,525 lm, 7,290 lm, 7,560 lm, 7,830 lm	50,000 hr	HID	Direct Wired	9 3/4 in	—	Keystone Technologies	61DA11
<b>250W MH/250W HPS Wattage Equivalency</b>										
LED	63 W	3000K	8,820 lm	50,000 hr	HID	Direct Wired	10 1/4 in	—	Keystone Technologies	61C299
	63 W	3000K, 4000K, 5000K	6,075 lm, 6,300 lm, 6,525 lm, 7,290 lm, 7,560 lm, 7,830 lm, 8,505 lm, 8,820 lm, 9,035 lm	50,000 hr	HID	Direct Wired	10 1/2 in	—	Keystone Technologies	61DA12
	63 W	4000K	9,198 lm	50,000 hr	HID	Direct Wired	11 1/4 in	—	Keystone Technologies	61DA01
	63 W	5000K	9,450 lm	50,000 hr	HID	Direct Wired	11 1/4 in	—	Keystone Technologies	61DA02
	80 W	3000K, 4000K, 5000K	10,800 lm, 11,200 lm, 11,600 lm, 12,900 lm, 7,560 lm, 7,830 lm, 8,505 lm, 8,820 lm, 9,135 lm	50,000 hr	HID	Direct Wired	9 3/4 in	—	Keystone Technologies	61DA13
	80 W	3000K, 4000K, 5000K	10,600 lm, 10,700 lm, 10,800 lm	50,000 hr	Cylindrical	—	10 in	—	Light Efficient Design	792VA7
	80 W	4000K	11,600 lm	50,000 hr	HID	Direct Wired	8 3/4 in	—	Keystone Technologies	61DA03
	80 W	5000K	12,000 lm	50,000 hr	HID	Direct Wired	8 3/4 in	—	Keystone Technologies	61DA04
	90 W	5000K	12,400 lm	50,000 hr	High/Low Bay	Requires Separate Ballast	9 3/4 in	—	Light Efficient Design	798LE2
	95 W	5000K	13,000 lm	50,000 hr	High/Low Bay	Requires Separate Ballast	9 3/4 in	—	Light Efficient Design	798LE8
Metal Halide	115 W	4000K	18,000 lm	50,000 hr	ED37	Direct Wired	8 3/4 in	—	Current	429U49
	115 W	5000K	18,000 lm	50,000 hr	ED37	Direct Wired	8 3/4 in	—	Current	429U50
	100 W, 110 W, 80 W	3000K, 4000K, 5000K	11,290 lm, 14,270 lm, 15,690 lm	50,000 hr	Cylindrical	Direct Wired	9 1/4 in	—	Light Efficient Design	60TD87
LED	250 W, 320 W	4000K	18,000 lm	50,000 hr	Corn Cob	Direct Wired	8 1/4 in	—	Philips	784N39
	250 W, 320 W	5000K	18,000 lm	50,000 hr	Corn Cob	Direct Wired	8 1/4 in	—	Philips	784N40
	320 W	3700K	30,600 lm	20,000 hr	ED28	—	8 1/4 in	M132	Current	2TJ27
Metal Halide	320 W	4000K	32,000 lm	20,000 hr	ED37	—	11 1/2 in	M132/M154	Current	6XV27

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