



# LED Lamps - HID



## Selectable LED HID Lamps

Current's LumenChoice® + SpectraChoice™ selectable LED lamps offer unmatched flexibility in a single lamp, and feature built-in switches to change wattage and color temperature, no tools required.



### PERFORMANCE HIGHLIGHTS:

Selectable LED HID Replacement Lamps	
<b>Selectable Light Output:</b>	ED17, ED23.5, ED28, ED37
<b>CRI:</b>	70
<b>Selectable CCT:</b>	ED17, ED23.5, ED28
<b>Input Voltage:</b>	120-277 (ED17, ED23.5, ED28) 120-347 (ED17) 208-277 (ED37) 277-480 (ED23.5, ED28, ED37)
<b>Efficiency:</b>	Up to 175 LPW
<b>Selectable Wattage:</b>	ED17, ED23.5, ED28, ED37
<b>Life:</b>	50,000 hours L70
<b>Temperature Rating:</b>	-40°C to 50°C
<b>Location Rating:</b>	Damp; Open or Enclosed

### LIMITED WARRANTY

5 years

### FEATURES:

- Three wattage levels and three color temperature levels that can be adjusted with built-in switches, no tool required
- E26-to-EX39 socket adapter included with E26 based lamps to maximize flexibility
- Operates from mains voltage (ballast bypass)
- Matches ANSI length & diameter for equivalent HID lamp shape
- Lasts up to 4x longer than HID
- These lamps are energy efficient, contain no lead or mercury and are compliant with material restriction requirements of RoHS

### BENEFITS:

- Optimize light levels and power consumption instantly for each application, maximizing energy savings immediately
- Use one lamp for many applications, simplifying project management by streamlining BOMs
- One lamp can replace many, greatly reducing inventory
- Compact size & omnidirectional light output allow single lamp to be used in wide variety of fixtures
- Eliminates the need for ballasts

### LEARN MORE:

To learn more about saving money and energy, go to [www.LED.com](http://www.LED.com).



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### Do more with less.

- *Reduce Inventory*
- *Simplify Projects*
- *Optimize Solutions*

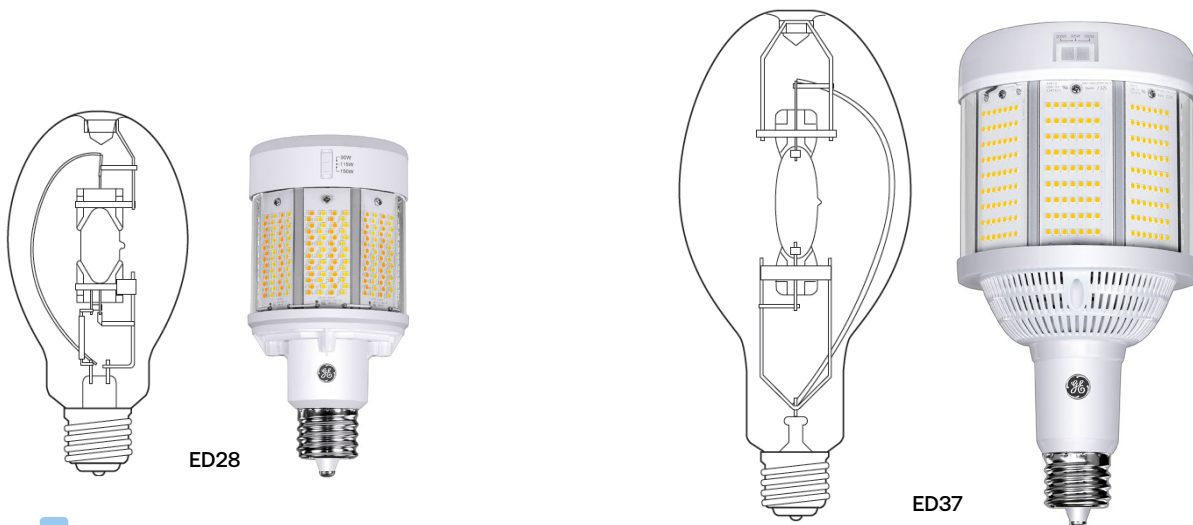
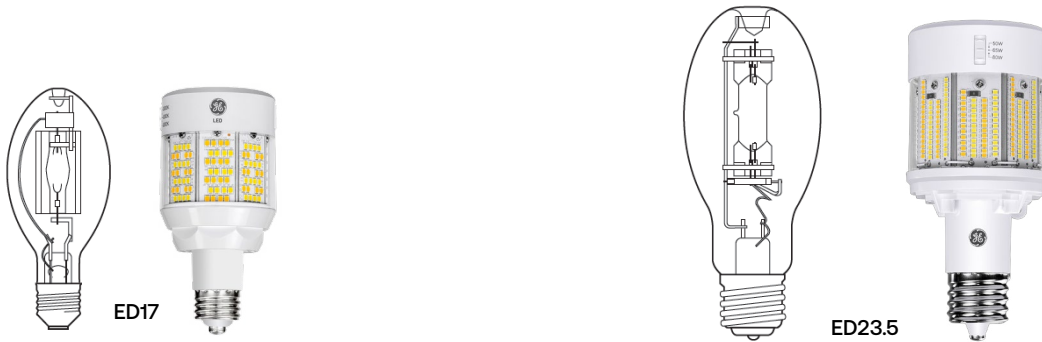


## Selectable LED HID Lamps

CUSTOMER NAME	_____
PROJECT NAME	_____
DATE	NOTES

GE LED Lamps for HID Replacement utilize a proprietary design with active cooling, which allows for high output from a compact size. The length and diameter match HID ANSI profiles. These lamps feature omnidirectional light output, with similar distribution to traditional HID lamps. This enables GE LED Lamps to fit in a variety of fixtures while providing equivalent light levels to HID. All of the GE LED Lamps in this category are Type B, which means the fixture is re-wired to bypass the ballast.

### Lamp Drawings (not drawn to scale)





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### NEMA LED HID Wattage Equivalency

In February of 2021, the National Electrical Manufacturers Association (NEMA) published NEMA LL 10-2020 *Replacing HID Lamps with LED Lamps: Light Output Equivalency Claims*. Current uses this Standard for LED products replacing HID lamps, meeting or exceeding the minimum LED light output for equivalency claims. The LED wattage equivalency varies based on the type of HID lamp being replaced - Metal Halide (MH) or High Pressure Sodium (HPS).

Metal Halide Lamp Wattage (W)	Metal Halide Initial Light Output (lm)	Minimum LED Lamp Initial Light Output (lm)	Current LED Ordinary Location Retrofit Lamps Active Cooling	Current LED Selectable Ordinary Location Retrofit Lamps Active Cooling	Current LED Selectable Ordinary Location Retrofit Lamps Passive Cooling	Current LED Hazardous Location Retrofit Lamps Active Cooling
50	3,200	2,000	LED21ED17	LED/LC/ED17	LED/LC/ED17P	LED21ED17/HAZ
70	5,200	3,000	LED21ED17	LED/LC/ED17	LED/LC/ED17P	LED21ED17/HAZ
100	8,100	5,000	LED35ED17; LED45ED17	LED/LC/ED17		LED35ED17/HAZ; LED45ED17/HAZ
150	12,000	7,500	LED50ED23.5	LED/LC/ED23.5	LED/LC/ED23.5P; LED/LC/ED28P	
175	11,000	7,000	LED45ED17; LED50ED23.5	LED/LC/ED17; LED/LC/ED23.5	LED/LC/ED23.5P; LED/LC/ED28P	
250	19,100	12,000	LED80ED23.5	LED/LC/ED23.5	LED/LC/ED28P	LED80ED23.5/HAZ
320	25,600	16,500	LED115ED28	LED/LC/ED28		
350	28,400	18,000	LED115ED28	LED/LC/ED28		
360	29,400	19,000	LED150ED28; LED120ED18	LED/LC/ED28		LED150ED28/HAZ
400	33,100	21,500	LED150ED28; LED180ED18	LED/LC/ED28; LED/LC/ED37		LED150ED28/HAZ
750	72,300	46,500	LED360ED37	LED/LC/ED37		
1,000	100,280	65,000	LED450BT56; LED470BT56	LED/LC/ED37		
1,500	153,000	99,450	LED520BT56			

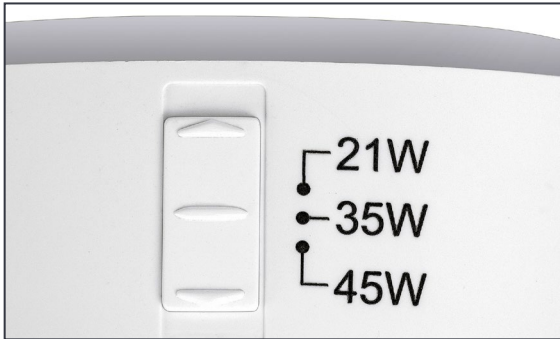
HPS Lamp Wattage (W)	HPS Initial Light Output (lm)	Minimum LED Lamp Initial Light Output (lm)	Current LED Ordinary Location Retrofit Lamps Active Cooling	Current LED Selectable Ordinary Location Retrofit Lamps Active Cooling	Current LED Selectable Ordinary Location Retrofit Lamps Passive Cooling	Current LED Hazardous Location Retrofit Lamps Active Cooling
50	4,500	2,500	LED21ED17	LED/LC/ED17	LED/LC/ED17P	LED21ED17/HAZ
70	6,300	4,000	LED35ED17	LED/LC/ED17	LED/LC/ED17P	LED35ED17/HAZ
100	9,500	6,000	LED45ED17; LED50ED23.5	LED/LC/ED17; LED/LC/ED23.5	LED/LC/ED23.5P; LED/LC/ED28P	LED45ED17/HAZ
150	13,000	8,500	LED80ED23.5	LED/LC/ED23.5	LED/LC/ED28P	LED80ED23.5/HAZ
200	19,500	12,500		LED/LC/ED23.5		
250	26,000	17,000	LED115ED28; LED120ED18	LED/LC/ED28		
310	33,200	21,500	LED150ED28	LED/LC/ED28		LED150ED28/HAZ
400	44,000	29,000	LED180ED18; LED270BT56	LED/LC/ED37		
600	66,000	42,500	LED360ED37	LED/LC/ED37		
750	82,500	53,500	LED450BT56	LED/LC/ED37		
1,000	110,000	73,000	LED470BT56; LED520BT56			



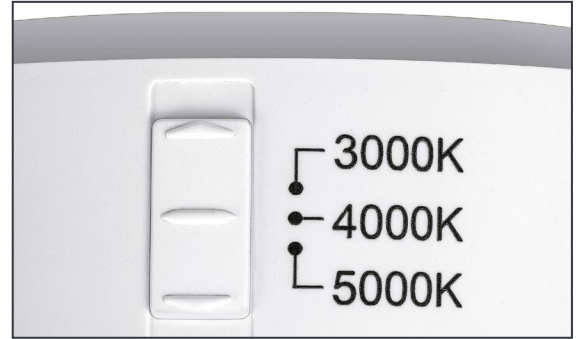
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## Selectable LED HID Lamps

CUSTOMER NAME \_\_\_\_\_  
 PROJECT NAME \_\_\_\_\_  
 DATE \_\_\_\_\_ NOTES \_\_\_\_\_



Select wattage (lumens) using built-in switch.



Select color temperature using built-in switch.



E26 base ED17 LED lamp shown with the included EX39 mogul base adapter

Go to [www.LED.com](http://www.LED.com) to learn more about Current's family of Selectable LED Lamps.



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	70W-175W MH 50W-100W HPS			150W-250W MH 100W-150W HPS			250W-400W MH 200W-310W HPS			400W-1000W MH 400W-750W HPS		
Profile	ED17			ED23.5			ED28			ED37		
Voltage	120-277 120-347			120-277 277-480			120-277 277-480			208-277 277-480		
Base	E26/EX39 Adapter			E26/EX39 Adapter EX39			EX39			EX39		
Color Temperature	SpectraChoice™			SpectraChoice™			SpectraChoice™			4000K or 5000K		
	3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K			
Wattage	LumenChoice®			LumenChoice®			LumenChoice®			LumenChoice®		
	21W	35W	45W	50W	65W	80W	90W	115W	150W	200W	325W	450W
Lumens	3,400	5,500	7,000	8,200	10,500	12,500	14,000	18,000	23,500	35,000	53,500	68,000
NEMA MH Equivalent	70	100	175	150	150	250	250	350	400	400	750	1000
NEMA HPS Equivalent	50	70	100	100	150	150	200	250	310	400	750	750

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### Selectable LumenChoice® + SpectraChoice™ HID Replacement - Type B

Bulb Shape	Base Type	Order Code	Description	Volts	Carton Qty <sup>2</sup>	MOL (in)	MOD (in)	Selectable Watts*	Selectable Lumens (Initial)*	Selectable Color Temp. (Initial)*	Wattage Replacement <sup>7</sup>	Rated Life CRI L70 (Hrs) <sup>1</sup>	DLC <sup>3</sup>	Location Rating <sup>5,6</sup>	Additional Notes	
<b>LED Replacement Lamp for HID - Ballast Bypass (Type B)</b>																
ED17	E26/ EX39	93303384	LED/LC/ED17/7SC	120-277	3	5.4	2.6	21	3,400	3000K	50W HPS / 70W MH	>70	50,000	-	Damp	Includes EX39 mogul base adapter
								35*	5,500*	4000K*	70W HPS / 100W MH					
								45	7,000	5000K	100W HPS / 175W MH					
	E26/ EX39	93314526	LED/LC/ED17/7SC/120-347	120-347	3	5.4	2.6	21	3,400	3000K	50W HPS / 70W MH	>70	50,000	-	Damp	Includes EX39 mogul base adapter
								35*	5,500*	4000K*	70W HPS / 100W MH					
								45	7,000	5000K	100W HPS / 175W MH					
ED23.5	E26/ EX39	93312104	LED/LC/ED23.5M/7SC	120-277	3	7.8	3.7	50	8,200	3000K	100W HPS / 150W MH	>70	50,000	-	Damp	Includes EX39 mogul base adapter
								65	10,500	4000K	150W HPS / 150W MH					
								80*	12,500*	5000K*	150W HPS / 250W MH					
	EX39	93312106	LED/LC/ED23.5/7SC	120-277	3	7.8	3.7	50	8,200	3000K	100W HPS / 150W MH	>70	50,000	S-4V5N0G	Damp	
								65	10,500	4000K	150W HPS / 150W MH					
								80*	12,500*	5000K*	150W HPS / 250W MH					
	EX39	93314766	LED/LC/ED23.5/7SC/277-480	277-480	3	7.8	3.7	50	8,200	3000K	100W HPS / 150W MH	>70	50,000	S-Y2WDPN / S-S2HLFY	Damp	
								65	10,500	4000K	150W HPS / 150W MH					
								80*	12,500*	5000K*	150W HPS / 250W MH					
ED28	EX39	93312102	LED/LC/ED28/7SC	120-277	3	8.3	4.1	90	14,000	3000K	200W HPS / 250W MH	>70	50,000	S-MB9GRL / S-NMTK94	Damp	
								115	18,000	4000K	250W HPS / 350W MH					
								150*	23,500*	5000K*	310W HPS / 400W MH					
	EX39	93314772	LED/LC/ED28/7SC/277-480	277-480	3	8.3	4.1	90	14,000	3000K	200W HPS / 250W MH	>70	50,000	S-WWN1WP / S-3WC1C9	Damp	
								115	18,000	4000K	250W HPS / 350W MH					
								150*	23,500*	5000K*	310W HPS / 400W MH					

### Selectable LumenChoice® HID Replacement - Type B

Bulb Shape	Base Type	Order Code	Description	Volts	Carton Qty <sup>2</sup>	MOL (in)	MOD (in)	Selectable Watts*	Selectable Lumens (Initial)*	Selectable Color Temp. (Initial)*	Wattage Replacement <sup>7</sup>	Rated Life CRI L70 (Hrs) <sup>1</sup>	DLC <sup>3</sup>	Location Rating <sup>5,6</sup>	Additional Notes	
<b>LED Replacement Lamp for HID - Ballast Bypass (Type B)</b>																
ED37	EX39	93321818	LED/LC/ED37/740/208-277	208-277	3	11.3	5.6	200	35,000	4000K	400W HPS / 400W MH	>70	50,000	S-TQ7WXV	Damp	
								325	53,500		750W HPS / 750W MH					
								450*	68,000*		750W HPS / 1000W MH					
	EX39	93311586	LED/LC/ED37/740	277-480	3	11.3	5.6	200	35,000	4000K	400W HPS / 400W MH	>70	50,000	S-ZZMLJT	Damp	
								325	53,500		750W HPS / 750W MH					
								450*	68,000*		750W HPS / 1000W MH					
	EX39	93321820	LED/LC/ED37/750/208-277	208-277	3	11.3	5.6	200	35,000	5000K	400W HPS / 400W MH	>70	50,000	S-T4ZBKH	Damp	
								325	53,500		750W HPS / 750W MH					
								450*	68,000*		750W HPS / 1000W MH					
	EX39	93311587	LED/LC/ED37/750	277-480	3	11.3	5.6	200	35,000	5000K	400W HPS / 400W MH	>70	50,000	S-25L41Q	Damp	
								325	53,500		750W HPS / 750W MH					
								450*	68,000*		750W HPS / 1000W MH					

### Warm Selectable LumenChoice® + SpectraChoice™ HID Replacement - Type B

Bulb Shape	Base Type	Order Code	Description	Volts	Carton Qty <sup>2</sup>	MOL (in)	MOD (in)	Selectable Watts*	Selectable Lumens (Initial)*	Selectable Color Temp. (Initial)*	Wattage Replacement <sup>7</sup>	Rated Life CRI L70 (Hrs) <sup>1</sup>	DLC <sup>3</sup>	Location Rating <sup>5,6</sup>	Additional Notes	
<b>LED Replacement Lamp for HID - Ballast Bypass (Type B)</b>																
ED17	E26/ EX39	93315986	LED/LC/ED17/7WSC/120-347	120-347	3	5.4	2.6	21	2,450	1800K	35W HPS / 50W MH	>70	50,000	-	Damp	Includes EX39 mogul base adapter
									3,000	2200K	35W HPS / 50W MH					
									3,300	2700K	50W HPS / 50W MH					
									3,950	1800K	35W HPS / 50W MH					
									4,900*	2200K*	50W HPS / 70W MH					
									5,350	2700K	70W HPS / 70W MH					
									4,900	1800K	50W HPS / 70W MH					
	45	6,200	2200K	70W HPS / 70W MH												
								6,650	2700K	70W HPS / 100W MH						

<sup>1</sup> The life rating is based on the hours of operation the lamp will provide before reaching 70% of its original lumen output (L70)

<sup>2</sup> Minimum order quantity = 1

<sup>3</sup> E26 based products are not eligible for DLC. Not all product variations on this page are DLC qualified. Visit [qpl.designlights.org/solid-state-lighting](http://qpl.designlights.org/solid-state-lighting) to confirm qualification.

<sup>4</sup> Do not use with phase-cut dimmers. Dimming functions only with external Variac control devices.

<sup>5</sup> UL 1993 Environmental Requirements for LED LAMPS

<sup>6</sup> Damp Location - Exterior or interior location that is normally or periodically subject to condensation of moisture in, on, or adjacent to electrical equipment, including partially protected locations

<sup>7</sup> Not suitable for air-tight explosive or hazardous fixtures.

<sup>7</sup> Wattage Replacement levels correspond with wattage levels. Wattage Replacements based on NEMA Standards Publication LL 10-2020 *Replacing HID Lamps with LED Lamps: Light Output Equivalency Claims*.

\* Default wattage and color temperature settings noted by "\*" in tables above.