

NEMA LED HID Wattage Equivalent Industry Standard


As of April of 2021, NEMA published an industry standard for LED HID wattage equivalency for manufacturers. In the following chart, in order to claim the traditional HID wattage replacement, the lumens must meet or exceed the initial light output levels (column 3.)

Metal Halide Lamp Wattage (W)	Metal Halide Initial Light Output (lm)	Minimum LED Lamp initial light output (lm)	Current standard LED retrofit lamps	Current LED hazardous location retrofit lamps
50	3200	2000	LED21ED17	LED21ED17/HAZ
70	5200	3000	LED21ED17	LED21ED17/HAZ;
100	8100	5000	LED35ED17; LED45ED17	LED35ED17/HAZ; LED45ED17/HAZ
150	12000	7500	LED50ED23.5	LED50ED23.5/HAZ*
175	11000	7000	LED50ED23.5	LED50ED23.5/HAZ*
250	19100	12000	LED80ED23.5	LED80ED23.5/HAZ*
320 (I)	25600	16500	LED115ED28	LED115ED28/HAZ*
350 (I)	28400	18000	LED115ED28	LED115ED28/HAZ*
360 (I)	29400	19000		
400	33100	21500	LED150ED28	LED150ED28/HAZ*
750 (I)	72300	46500	LED360ED37	
1000	100280	65000	LED450BT56	

HPS Lamp Wattage (W)	HPS Initial Light Output (lm)	Minimum LED Lamp initial light output (lm)	Current standard LED retrofit lamps	Current LED hazardous location retrofit lamps
50 (E)	4500	2500	LED21ED17	LED21ED17/HAZ
70	6300	4000	LED35ED17	LED35ED17/HAZ
100	9500	6000	LED45ED17; LED50ED23.5	LED45ED17/HAZ
150	13000	8500		
200 (I)	19500	12500		
250	26000	17000	LED115ED28	LED115ED28/HAZ*
310 (I)	33200	21500	LED150ED28	LED150ED28/HAZ*
400	44000	29000	LED200ED37	
600 (I)	66000	42500	LED270BT56	
750 (I)	82500	53500		
1000	11000	73000		

*Available in 2021

LED HID TYPE B REPLACEMENT LAMPS

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty.	MOL (in.)	Lumens Initial	Initial Color Temp.	CRI	Wattage Replacement	Rated Life L70 (hrs.)	Dimmable	DLC***	Location Rating	Additional Info
LED Replacement Lamps for HID																
	E26	21	93134832	LED21ED17/730/HAZ	120-277	3	5.4	3000	3000K	>70	50W HID, 70W MH	50,000	-	N/A	Damp	Ballast Bypass Required
	E26	21	93134833	LED21ED17/740/HAZ	120-277	3	5.4	3000	4000K	>70	50W HID, 70W MH	50,000	-	N/A	Damp	Ballast Bypass Required
	E26	21	93134834	LED21ED17/750/HAZ	120-277	3	5.4	3000	5000K	>70	50W HID, 70W MH	50,000	-	N/A	Damp	Ballast Bypass Required
	E26	35	93134829	LED35ED17/730/HAZ	120-277	3	5.4	5000	3000K	>70	70W HID, 100W MH	50,000	-	N/A	Damp	Ballast Bypass Required
	E26	35	93134830	LED35ED17/740/HAZ	120-277	3	5.4	5000	4000K	>70	70W HID, 100W MH	50,000	-	N/A	Damp	Ballast Bypass Required
	E26	35	93134831	LED35ED17/750/HAZ	120-277	3	5.4	5000	5000K	>70	70W HID, 100W MH	50,000	-	N/A	Damp	Ballast Bypass Required
	E26	45	93134846	LED45ED17/730/HAZ	120-277	3	5.4	6000	3000K	>70	100W HID	50,000	-	N/A	Damp	Ballast Bypass Required
	E26	45	93134847	LED45ED17/740/HAZ	120-277	3	5.4	6000	4000K	>70	100W HID	50,000	-	N/A	Damp	Ballast Bypass Required
	E26	45	93134848	LED45ED17/750/HAZ	120-277	3	5.4	6000	5000K	>70	100W HID	50,000	-	N/A	Damp	Ballast Bypass Required

Additional Information for LED Replacement Lamps for HID: Open and Closed Rated-Ballast bypass required.

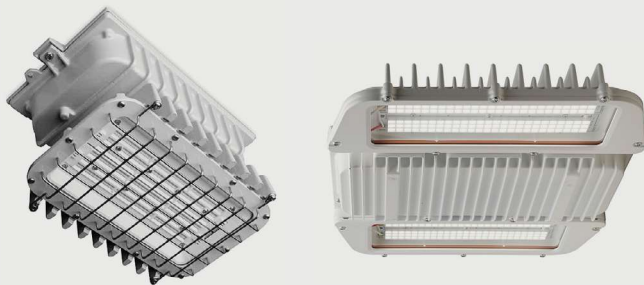
*EX39 socket adapter is included for mogul base applications.

**No DLC category for hazardous rated.

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