

# DIALING IT ALL IN WITH DIMMING AND POTENTIOMETER CONTROLS

Many of DEG's LED products have a range of features that most current LED lamps, retro-fit kits and full head or light standard replacements do not offer. Never before has a direct replacement LED light source offered so many features and benefits in controlling light output, spread, dimming and a host of other features.

From the initial concept for our replacement LED lamps for HID bulbs we sought to innovate as many usable features as possible to elevate the control of light output. While most of these early conceptual ideas were focused on distribution patterns, cut-off features and dimming to gain lower wattage use, we also incorporated a unique approach to controlling heat (our patent-pending Air Flo-Thru Thermal System) and preventing a catastrophic over-heating failure by incorporating a thermal fuse.

The HID EQUIV chart and comparisons are approximate values. A full light output evaluation (fixture spacing, fc/Lux readings, CRI, customer preference/satisfaction, test installation, etc.) should be made to determine proper replacement of LED lamps for HID bulbs.

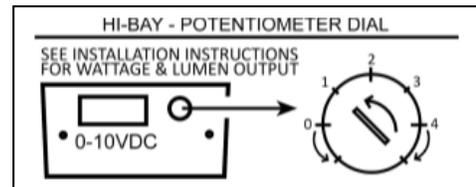
## DEG-600750, DEG-450550 & DEG-325400 LED HI-Bay lamps

The LED HI-Bay lamps all incorporate two very unique features to control the level of light output:

- 1) a potentiometer that rotates right to left as shown at left (marked by '4' being the highest light output and '0' being the lowest light output or zero) and,
- 2) a 0-10 VDC dimming control. The TOP level of 0-10 VDC range is set by establishing the top end of the potentiometer. For instance, if '2' is set on the potentiometer then the 0-10VDC dimming range will have as its top-end range the light output setting of '2' on the potentiometer and '0' (or no light output) to '0' on the bottom end of the 0-10VDC range.

Dimming on the HI-Bay lamps is achieved using a 0-10 VDC analog signal supplied by two wires as per the ANSI E1.3 dimming protocol, not the current-sinking DALI protocol. It is the responsibility of the end user to determine the suitability of the product for an application and the interface requirements for dimming functionality.

The features allow for the greatest range in setting the desired light output and simultaneously lowering the overall wattage being used to operate the LED lamps—particularly if the full light output is not needed.



LED HI-BAY		DEG-600750		
HID EQUIV		Input Power (W)	Lumens	(~lpw)
OFF	Pos. 0	14	Effectively '0'	
225w	Pos. 1	50	5,000	(~100 lpw)
475w	Pos. 2	160	13,000	(~81 lpw)
600w	Pos. 3	225	17,000	(~76 lpw)
750w	Pos. 4	294	21,714	(~74 lpw)
HID EQUIV		DEG-450550		
OFF	Pos. 0	14	Effectively '0'	
200w	Pos. 1	40	4,000	(~100 lpw)
375w	Pos. 2	125	10,000	(~81 lpw)
525w	Pos. 3	190	14,000	(~76 lpw)
550w	Pos. 4	221	15,428	(~70 lpw)
HID EQUIV		DEG-325400		
OFF	Pos. 0	14	Effectively '0'	
175w	Pos. 1	30	3,000	(~100 lpw)
250w	Pos. 2	70	5,800	(~81 lpw)
325w	Pos. 3	110	8,000	(~76 lpw)
400w	Pos. 4	140	9,706	(~70 lpw)