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**TECHNICAL PRODUCT BULLETIN 7.0**

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**ENERGY INDEPENDENCE & SECURITY ACT OF 2007 (EISA)**

Effective January 1<sup>st</sup> 2009 Winona Lighting will manufacture products to comply with the Federal Energy Independence & Security Act (EISA) of 2007. EISA raises the efficiency regulations on metal halide ballasts for 150-500W essentially requiring probe start ballasts to be replaced with pulse start technology. These changes will alter the lamping options offered for the Windirect product line. Below is a chart indicating what lamping options are affected & which options will replace them.

Obsolete Lamping Designation	Windirect Series	Initial Lumens	Rated Lamp Life	Suggested Replacement Lamping Designations	Arc Tube Type	CRI	Ballast Type	Sound Rating*	Windirect Series	Initial Lumens	Rated Lamp Life
M150 ED17 M102	Large	12500	10000	MH150 T6 G12 M102	Ceramic	85	Electronic	A	Small	14000	10000
M175 ED17 M57	Large	13500	10000	MH150 T6 G12 M102 MP200 T15 M136	Ceramic Quartz	85 68	Electronic Magnetic	A n/a	Small Large	14000 19000	10000 15000
M250 T15/ET18 M58	Large Large	21000	1000	MP250 T15 M138 MH250 T15 CMH S50	Quartz Ceramic	68 85	Magnetic ** Magnetic	n/a B	Large Large	22000 25000	15000 16000
M400 T15/ET18 M59	Large Large Large	36000	15000	MP320 T15 M132 MP350 T15 M131 MH400 ED18 CMH S51	Quartz Quartz Ceramic	68 68 85	Magnetic ** Magnetic ** Magnetic	n/a n/a B	Large Large Large	30000 33000 41000	20000 20000 20000
M800 (2) T15/ET18 M59	Large	36000	15000	MP640 (2) 320W T15 M132 MH800 (2) 400W ED18 CMH S51	Quartz Ceramic	68 85	Magnetic ** Magnetic	n/a B	Large Large	30000 41000	20000 20000

\* Sound ratings for integral ballast mount types. Class B rated ballasts available late January 09 for all but MP200.

\*\* Electronic, class A sound rating ballast with dimming available by modification .

Pricing, sound ratings of magnetic ballasts, & maximum remote ballast distances will all be affected by these changes. Initially the quartz arc tube pulse start lamping options will only be available with an open core & coil ballast (both integral & remote). Special consideration must be given regarding ballast noise when specifying the integral ballast version of these fixtures. Encapsulated core & coil ballasts with a class B sound rating will be available in early 2009 & we will incorporate those as soon as possible. Prices & specification sheets for the new lamping options will be available in the coming weeks. We will only be accepting orders with the new lamping options after December 5, 2008. Please feel free to contact us to work through any concerns you have about these changes.

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