

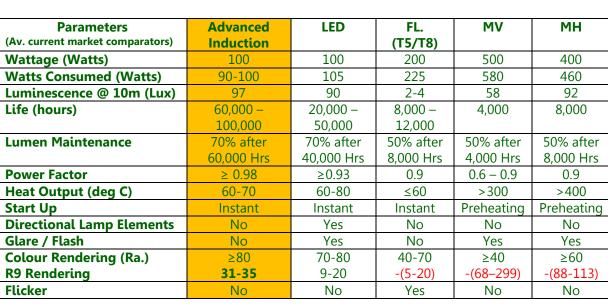


Advanced Induction Lighting

100/130/160/200 Watts

- Electrode-less bulbs, Double Walled, Anti UV Nano Coated •
- Long Life: 60,000-100,000 hours •
- **High Lumen Maintenance > 70% after 60,000 hours**
- CRI ≥80; R9≥30 (True Colour; Tri-Chromatic RGB) .
- Wide Range Colour Temperature: 2700k 6500k .
- High Power Factor ≥ 0.98 (lower Demand Charges)
- **High Savings:**
 - 100W AI Lamp Replaces 150W LED; 200W FL. (T5/T8); 400W MH; 500W MV
 - Energy Savings Up to 75% compared to MH/MV
 - Cooler Lamp Temperature 60 deg. C (versus 300 deg. C for MH/MV)
- Instant Start No Preheating •
- No Flash, No Glare, No Risk of Eye Damage
- High Frequency: 2.65 MHz (No Flicker) .
- **High-Tech Ballast**
- Wide Operating Voltage Range -110V (80-140V); 220V (180-270V)
- High Performance Aluminum Reflectors Dual Oval Core Light Distribution
- Applications:
 - 0 Indoor – Industrial, Commercial, Institutional, Utilities
 - Outdoor Floodlights, Street lights, Perimeter, Wall mount 0
 - o Explosion Proof Applications
 - High Bay (10-30m); Medium (6-10m); Low (4-6m)
- RoHS, CE, C-UR, R43639, EMI Compliant
- CNS-15015/14335/14115 and IEC-60598-2-1 Passed
- 5 year Warranty / Extended Warranty Options
- **Financing Available**

Comparison:



















The Lumen Myth:

What matters is how the eye sees the work surface. Design lumens (Photopic) as measured by the light meter, can be misleading. Pupil lumen (Scotopic) represents the sensitivity of the eye to interior lighting conditions and cannot be measured directly by light meters. This factor can be significant for high CRI lamps.

The combination of low bulb temperature and pupil lumen is key.

- Temperatures above 200 deg. C causes reflector oxidation & bulb darkening
 - Pupil lumens for LED/Induction is significantly higher than MH/MV (see picture)
- High R9 value is a significant contributor (many are negative or around zero)

Same design lumen can have different "usable light output" and "apparent brightness".

The resultant lux "magnification" for Induction/LED can be almost 1.7-2.0 times MH/MV even from a casting height of 10 metres. Higher lumen does not mean higher "human-eye" luminescence!

Let's Talk Colour:

The extent of color presence of illuminated objects is called color rendering. It directly equates to color fidelity. High color rendering performs a better color reproducibility, offering more nature-like color. The Advanced Induction lighting's color rendering beats almost all lighting systems (including LEDs).

1.0 - 685mW/nm 540nm 610nm 450nm

And Savings Too:

Parameters (Av. current market comparators)	Advanced Induction	LED	FL. (T5/T8)	MV	MH
Individual Lamp:					
• Wattage (Watts)	100	100	200	500	400
Watts Consumed (Watts)	100	108	225	580	460
Relative Consumption	1.0	1.08	2.25	5.8	4.6
Annual Energy Used/Lamp:					
• Kwh/day (@ 10hrs/day)	1.0	1.08	2.25	5.80	4.60
• kWh/year (@ 360 days)	360.00	389.00	810.00	2,088.00	1,656.00
Energy Cost /Lamp					
• Annual Cost (@10 ¢/kwh) 1 Year Relativity	\$36.00	\$38.80 +\$2.80	\$81.00 +\$45.00	\$208.80 +\$172.80	\$165.60 +\$129.60
5 year Relativity Extra: Bulb Replacement + Labour	(No)	+\$14.00 (No)	+\$225.00 (Yes)	+\$864.00 (Yes)	+\$648.00 (Yes)
• Annual Cost (@15 ¢/kwh) 1 Year Relativity	\$54.00	\$58.32 +\$4.32	\$121.50 +\$67.50	\$313.20 +\$259.20	\$248.40 +\$194.40
5 year Relativity Extra: Bulb Replacement + Labour	(No)	+21.60 (No)	+\$337.50 (Yes)	+\$1,296.00 (Yes)	+\$972.00 (Yes)

Do the math for 100 lamps or 500 lamps in your facility – the savings are huge with Advance Induction lighting.

Additional Savings with Advanced Induction Lighting:

- Lower air-conditioning (or cooling) costs (65 deg. C for AI vs. 300 deg. C for MH / MV). Excellent for Refrigeration Plants, Server Farms, Greenhouses, Air-conditioned areas
- Single 15 Amp breaker circuit at 120V can take 10-12 AI lamps (vs just 2-3 for MH/MV). Savings in new build. • Call us for any details
- Lower Demand Charges (≥ 0.98 pf for AI vs. 0.9/lower pf for all others) .

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or a trial project

