



# ENERGY SAVINGS AND RT5

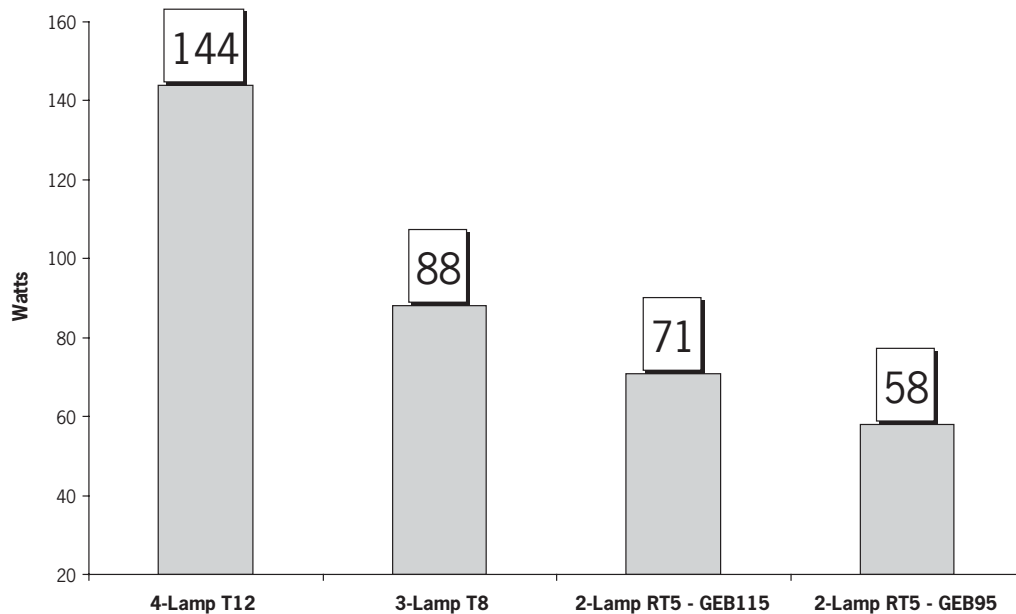
Appearance and performance are just some of the benefits of RT5™ Volumetric Recessed Lighting. The high-performance lamp and ballast system provides RT5 customers value for their lighting investment with maximum energy savings.

RT5 and the revolutionary new T5 lamp and ballast system provide the new answers in energy-efficient lighting for today's environments. One look at the numbers below shows that RT5, with the full light ballast, will substantially reduce energy while saving the customers in an even bigger way!

RT5 compared to 3-lamp T8 = **33% SAVINGS**

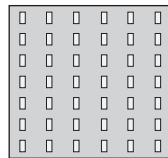
RT5 compared to 4-lamp T12 = **60% SAVINGS**

**Input Watts per System**



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For even more savings, the step dimming option provides an opportunity to reduce energy consumption by 50%. Savings will double in a space where the step level dimming is utilized half of the time. RT5 is an ideal substitute for 3-lamp T8 systems in new construction or for remodel applications and is a perfect replacement for inefficient 4-lamp T12 systems. RT5 provides the right amount of light with the right application. Unlike common 4-lamp T12 systems or 3-lamp T8 mounted on 8' x 10' centers, which may provide too much light, RT5 and the high-performance T5 lamps and ballast provide light levels in accordance to IES recommendations.



8' x 10' spacing  
 Maintained Average Illuminance 53 FC  
 Based on: Room size 60' x 56'  
 Ceiling height 9'  
 Workplane 2-1/2'  
 Reflectances 80/50/20

## RT5 Savings Comparison to T8 or T12 Systems

		Cost per kWh							
		\$0.06		\$0.08		\$0.10		\$0.12	
System		T12	T8	T12	T8	T12	T8	T12	T8
Hours Operated per day	12 hrs	\$ 22.60	\$ 7.88	\$ 30.13	\$ 10.51	\$ 37.67	\$ 13.14	\$ 45.20	\$ 15.77
	18 hrs	\$ 33.90	\$ 11.83	\$ 45.20	\$ 15.77	\$ 56.50	\$ 19.71	\$ 67.80	\$ 23.65
	24 hrs	\$ 45.20	\$ 15.77	\$ 60.27	\$ 21.02	\$ 75.34	\$ 26.28	\$ 90.40	\$ 31.54

To calculate the savings for any application, use the following formula:

$$\frac{\text{Watts saved (see below for input watts per system)} \times \text{kWh} \times \text{hours burned per year}}{1000}$$

Example:  $\frac{86 \times \$0.10 \times 6570}{1000} = \$56.50$  per fixture

To determine the total savings for a particular installation, take the corresponding savings over the T12 or T8 system and multiply by the number of fixtures.

Example: Replacing 500 T12 fixtures @ \$0.10 per kWh and @ 18 hours operation per day, the total savings will be **\$56.50** per fixture or **\$28,250** per year for the entire facility.