

Light up the world with eco-friendly led lights

TYPICAL LED MR16 BUSINESS CASE



The number of hours per day the light will be used	16
Based on 7 days per week, this application will reach 40,000 hours in this many years	6.85

Halogen Lamp Cost	\$4.00
Typical Halogen Lamp Life (hours)	2,000
Power rate in dollars/kwh	\$0.10
Estimated cost to procure and replace each lamp on a per incident basis	\$1.10
kWh used by a 35 Watt MR16 halogen in 40,000 hours	1,400
Number of halogen lamps required to provide light for 40,000hours	20
Cost of halogen lamps (number of lamps * cost per lamp)	\$80.00
Cost of electricity to run a 35 Watt halogen lamp 40,000 hours	\$140.00
Cost to procure and replace a halogen lamp over 40,000 hours	\$22.00
Cost of running an Energy Star air conditioner to compensate for the heat	\$36.75
Total cost of owning and operating a 35 Watt halogen lamp for 40,000 hours	\$278.75

Everbright LED Lamp Cost	\$40.00
Everbright LED Lamp Life (hours)	40,000
Power rate in dollars/kwh	\$0.10
Estimated cost to procure and replace each lamp on a per incident basis	\$1.10
kWh used by a 4.5 Watt MR16 LED in 40,000 hours	180
Number of LED lamps required to provide light for 40,000hours	1
Cost of LED lamps (number of lamps * cost per lamp)	\$40.00
Cost of electricity to run a 4.5 Watt LED lamp 40,000 hours	\$18.00
Cost to procure and replace a 4.5 Watt LED lamp over 40,000 hours	\$1.10
Cost of running an Energy Star air conditioner to compensate for the heat	\$4.72
Total cost of owning and operating a 4.5 Watt LED lamp for 40,000 hours	\$63.82

Total Savings realized for each lamp replaced	\$215
Payback in years	1
Energy Conservation	87%