GE RoHS Compliant Ballasts

GE’s UltraMax® and UltraStart® ballast systems are two of the first and broadest RoHS compliant ballast lines in North America. Among the highest energy-efficient ballasts available, these exclusive lines contribute significant reductions to energy consumption and GHG emissions.

- UltraStart® Programmed Start Ballasts
- UltraMax® instant Start ballasts
- Energy Efficient Watt-Miser® lamp and ballast systems
- Combine with Ecolux® T5 and Ecolux T8 lamps for ultimate efficiency

Sustainable Leadership

As part of Ecomagination℠, GE is committed to helping you improve your environmental performance with complete Linear Fluorescent Lamp (LFL) system solutions that meet RoHS compliance prior to government mandates.

The RoHS Directive

The Restriction of Hazardous Substances Directive was adopted in February 2003 by the European Union. Though it took effect in Europe in 2006, it is not a U.S. law*; for now it is simply a European directive. The RoHS Directive enforces an absolute prohibition against six hazardous materials in consumer products:

- Lead
- Mercury
- Cadmium
- Hexavalent chromium
- PBB flame retardants
- PBDE flame retardants

GE has specialists in your area

GE specialists are experts in energy auditing, environmental software and legislation tools. No matter your lighting needs, GE will help you identify areas for optimal energy reduction, and the right system to support your environmental initiatives.

Visit www.gelighting.com/EIC and click “Have a GE Specialist Contact Me.”

Visit GE’s Environmental Information Center directly from your smartphone to access a vast library of resources, including:

- Energy saving tool and calculators
- Legislation Product Replacement Tool
- Linear Fluorescent Retrofit Calculator
- Energy Services (ESCOs)
- USGBC LEED® Certification Guidance
- Current Federal and State legislation

QR Code Directions:
1. Open a ‘barcode scanner’ application on your Smartphone (such as neoreader, available on iTunes® the Android™ market)
2. Point your phone’s camera at the code and scan
3. The code will bring you to a mobile site where you can find out more information about GE, right from your Smartphone!
YOUR ALL-IN-ONE LIGHTING RESOURCE

PRODUCTS TO HELP YOU ADAPT
Change inefficient products from GE may be the fastest, easiest way to add to your bottom line. With industry leading environmental system solutions, GE has the right selection of LFL products for virtually any facility's needs.

• Energy-efficient linear fluorescent lamps
• Refrigeration and industrial electronic ballasts
• Electronic ballast retrofit kits
• Recycle information and services

www.gelighting.com/EIC

SUPPORT TO GUIDE YOU
With changing environmental laws and circumstances, navigating your environmental strategy can be tough, confusing process. That's why GE has local specialists available to help you reach your business goals.

• Linear Fluorescent Retrofit Calculator
• Environmental certifications: LEED, RoHS, etc.
• Assistance with product selection to help achieve your energy benefits
• Expert auditing

How to Get GE Assistance Contact us at www.gelighting.com/EIC

INFORMATION TO EDUCATE YOU
GE has expansive online resources with helpful environmental tools and information.

• Ecomagination initiatives
• Environmental data, regulations, and certifications
• LEED certification
• Recycling information and resources
• Energy-saving tools and calculators

www.gelighting.com/EIC

ENVIRONMENTAL IMPACTS THAT AFFECT BUSINESS

ENERGY EFFICIENCY

Within the broad array of environmental obits on the market place, it’s hard to differentiate which initiatives positively affect your business. Increasing the energy efficiency of your lighting system has the largest effect on reducing your energy bills and overall environmental impact.

As future climate laws may tighten limitations on greenhouse gas emissions, increasing the energy efficiency of your lighting system has the largest effect on reducing your energy bills and overall environmental impact.

www.gelighting.com/EIC

37%

LAMPS & RELIABILITY

From a maintaining standpoint, product reliability is a core concern for any business decision maker. By comparing how many hours a retrofit lamp lasts, you’ll reduce regular maintenance costs by up to 50%.

Ecolux® T8 SXL Lamps: 60,000 hours*
Ecolux® T5 Lamps: 36,000 hours*

*GE T8 and T5 lamps help to manage your costs and maintenance responsibilities. See Getting Impresses Online: Managing Operating Life.

REDUCE, RECOVER AND RECYCLING

All fluorescent bulbs require a very small amount of mercury to enable the lamp to operate with high-energy efficiency and long life. Whenever possible, all fluorescent bulbs should be recycled to recover and reuse that mercury, and reduce its environmental impact.

37% of an avg. commercial building utility bill.

www.gelighting.com/EIC

45% SAVED

T8 and T5 Lamps save money when combined with ultraStart® or UltraMax® Ballasts®

3 Compares IESna R90 lamp efficacy system.

99.9% RECYCLED

www.gelighting.com/EIC

45% SAVED

4% 25% 7% 8% 19%

Lighting Refrigeration HVAC Air Com. Ventilation Other

LIGHTING ACCOUNTS FOR MORE THAN 37% OF AN AVG. COMMERCIAL BUILDING’S UTILITY BILL.

45% SAVED

37%

3

Ecolux® T8 SXL Lamps: 60,000 hours*
Ecolux® T5 Lamps: 36,000 hours*

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Ecolux® T5 Lamps: 36,000 hours*

*GE T8 and T5 lamps help to manage your costs and maintenance responsibilities. See Getting Impresses Online: Managing Operating Life.
MINIMIZING HAZARDOUS SUBSTANCES

GE has the widest selection of RoHS compliant lamp and ballast systems in the market.

GE double-coated Linear Fluorescent Lamps comply with all relevant European standards, including 2010 ‘eco design’ regulations.

GE carries the broadest offering of NEMA® Premium Ballasts.

As part of a company-wide commitment to energy efficiency and respect for the environment, GE is committed to providing customers with the most environmentally conscious U.S. system options.

GE’s LFL systems contain the minimum amount of mercury required to ensure maximum life with the best of fluorescence. This allows customers to buy systems that meet all required performance standards, offering you a low impact lighting choice.

Comparing Hazardous Substance Content:

<table>
<thead>
<tr>
<th>System Type</th>
<th>Competitors</th>
<th>GE Lighting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard T8 Lamps w/ non-RoHS ballast</td>
<td>1,300mg</td>
<td>9mg</td>
</tr>
<tr>
<td>Standard T8 Lamps w/ RoHS ballast</td>
<td>500mg</td>
<td>9mg</td>
</tr>
</tbody>
</table>

GE’s RoHS compliant T8 systems contain a remarkably smaller amount of hazardous substances compared to other non-RoHS T8 lamp and ballast systems.

LEGISLATION PRODUCT REPLACEMENT TOOL

Achieve environmental excellence with our online Legislation Product Replacement Tool. It offers replacement products for all halogen, sodium, and incandescent products that have been or will be eliminated from the marketplace. Visit www.gelighting.com/legislation.

LINEAR FLUORESCENT RETROFIT CALCULATOR

The simple online tool evaluates your current lighting system and provides upgrade options based on your preferences. As older models are eliminated, such as T12 Lamps phasing out in 2012, you can use the LFL Calculator to generate retrofit recommendations based on your existing lamp system, light levels and priorities.

Visit www.gelighting.com/retrofitcalculator to learn more.

Visit GE’s web-based, one-stop resource for specifiers, end users and distributors to find the latest information, tools and materials on environmental matters within the lighting and electrical industries.

www.gelighting.com/EIC

Visit GE’s environmental information center to find GE’s latest information on environmental matters within the lighting and electrical industries.

www.gelighting.com/EnvCenter

Visit www.gelighting.com/tools to find the LFL Calculator Tool.

Visit www.gelighting.com/legislation to find the Legislation Product Replacement Tool.

Visit www.gelighting.com/retrofitcalculator to learn more.

Visit www.gelighting.com/EIC to find GE’s latest information on environmental matters within the lighting and electrical industries.

THE GE ENVIRONMENTAL INFORMATION CENTER

VISIT GE’S WEB-BASED, ONE-STOP RESOURCE FOR SPECIFIERS, END USERS AND DISTRIBUTORS TO FIND THE LATEST INFORMATION, TOOLS AND MATERIALS ON ENVIRONMENTAL MATTERS WITHIN THE LIGHTING AND ELECTRICAL INDUSTRIES.

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GE’s double coated Linear Fluorescent Lamps comply with all relevant European standards, including 2010 ‘eco design’ regulations.

GE carries the broadest offering of NEMA® Premium Ballasts.

As part of GE’s commitment to energy efficiency and respect for the environment, GE is committed to providing customers with the most environmentally conscious LFL system options.

GE’s LFL systems contain the minimum amount of mercury required to ensure maximum life with the best of fluorescence. This ensures stability, leading to prolonged lamp life, helping to maintain performance, saving you a low impact lighting choice.

GE® RoHS Compliant T8 Systems contain a remarkably smaller amount of hazardous substances compared to other non-RoHS T8 lamp and ballast systems.

- **Competitors**
  - Standard T8 Lamps w/ non-RoHS ballast
  - 1,300mg
  - MERCURY AND LEAD CONTENT

- **GE Lighting**
  - Standard T8 Lamps w/ RoHS ballast
  - 9mg
  - MERCURY AND LEAD CONTENT

**MINIMIZING HAZARDOUS SUBSTANCES**

**500mg**

**165 Lamps**

**2006:** All electronic products shipped into Europe must be RoHS compliant.

**2010:** NEMA calls on US manufacturers to shift to RoHS compliant ballasts.

**Hg reduced more than 90%**

**2005—Present**

**Since its first linear fluorescent lamps in the 1950’s, GE has reduced the mercury levels in its lamps by more than 90%.”

Visit GE’s web-based, one-stop resource for specifiers, end users and distributors to find the latest information, tools and materials on environmental matters within the lighting and electrical industries.

**www.gelighting.com/EIC**

Visit GE’s web-based, one-stop resource for specifiers, end users and distributors to find the latest information, tools and materials on environmental matters within the lighting and electrical industries.

**www.gelighting.com/legislation**

**GE HAS THE FIRST AND WIDEST SELECTION OF ROHS COMPLIANT SYSTEM SOLUTIONS IN NORTH AMERICA.”**

**LEGISLATION PRODUCT REPLACEMENT TOOL”**

Achieve environmental excellence with our online Legislation Product Replacement Tool. It offers replacement products for all obsolete, hazardous substances and linear fluorescent lamps that have been eliminated from the marketplace.

**www.gelighting.com/legislation**

**LINEAR FLUORESCENT RETROFIT CALCUlATOR”**

The simple online tool evaluates your current lighting system and provides upgrade options based on your preferences. As older models are eliminated, such as T12 lamps phasing out in 2012, you can use GE’s Calculator to receive guidance not only on your existing lamp system, light levels and product.

Visit www.gelighting.com/calculator to find the GE Calculator Tool.

**www.gelighting.com/tools**

Visit GE’s Environmental Information Center.

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**THE GE ENVIRONMENTAL INFORMATION CENTER”**
YOUR ALL-IN-ONE LIGHTING RESOURCE

PRODUCTS TO HELP YOU ADAPT
Change inefficient products for GE may be the fastest, easiest way to add to your bottom line. With industry leading environmental system solutions, GE has the right selection of LFL products for virtually any facility’s needs.

- Energy-efficient linear fluorescent lamps
- UltraStart® and UltraMax® electronic ballasts
- RoHS compliant lamps and ballast systems
- Lamps exceeding TCLP requirements
- T5 and T8 lamp and ballast combinations

www.gelighting.com/energy

INFORMATION TO GUIDE YOU
GE has extensive online resources with helpful environmental tools and information.

- Ecomagination initiatives
- Environmental data, regulations and certifications
- Legislation Process Implementation Tool
- Energy Services (ESCO) information center
- U.S. Green Building Council LEED® certification guidelines and software tools
- Expert ordering

www.gelighting.com/EIC

SUPPORT TO GUIDE YOU
With changing environmental laws and circumstances, navigating your environmental strategy can be tough, confusing process. To help, GE has responded by developing a variety of tools and information to help you reach your business goals.

- Linear Fluorescent Retrofit Calculator
- Environmental certifications: LEED, RoHS
- Assistance with product selection for optimal energy and performance
- Knowledge of environmental regulations and software tools
- Expert ordering

How to use the Linear Fluorescent Retrofit Calculator
www.gelighting.com/EIC

3 ENVIRONMENTAL IMPACTS THAT AFFECT BUSINESS

37% ENERGY EFFICIENCY

Within a broad array of environmental abuses in the marketplace, it’s hard to differentiate which organizations are positively affecting your business. Investing in energy efficient lighting of your facility is one of the largest effects on reducing your energy bills and overall environmental impact.

An AEPI report on major facility lighting retrofits indicates that commercial lighting retrofit projects account for an average of nearly 4% of the total energy consumed in commercial buildings. According to the report, a one-time savings of nearly 37% of an AVG. COMMERCIAL BUILDING’S UTILITY BILL is realized.

Lamp Life & Reliability

From a manufacturing standpoint, product reliability is a core concern for any business decision-maker. By improving your original lamp life, you’ll reduce regular lighting maintenance needed to replace the number of lamps that are made, transported and installed. It also reduces the amount of energy and related costs. A full warranty ensures you get maximum reliability and peace of mind from your lighting system.

Get to know all of the benefits of U.S. solutions that readily install, operate and save you money.

www.gelighting.com/energy

Reduce, Recover and Recycling

All fluorescent bulbs require very small amounts of mercury to operate. As energy efficient technology improves, your average lamp life increases. GE offers the U.S. system solutions you need to reduce your energy consumption and overall environmental impact.

GE T8 and T5 Lamps can help you manage your costs and maintainance responsibilities. Ecolux® offers impressive lamp lifetime, energy efficiency and ease of maintenance.

All of GE’s T8 and T5 Lamps pass the TCLP test, which can help lower disposal costs. This reduces the amount of hazardous waste and associated regulations for customers. GE works with international authorities to ensure homeowners, retailers and distributors.

www.gelighting.com/energy

Ecolux® T8 SKL Lamps

60,000 hrs* Industry Standard: T8 Lamps

21,000 hrs

Ecolux® T5 Lamps

36,000 hrs*

37% Lighting

25% Appliances

19% Air Con.

8% Refrigeration

7% Ventilation

4% Other

Lighting accounts for more than 37% of an AVG.
COMMERCIAL BUILDING’S UTILITY BILL.

LAMP LIFE & RELIABILITY

45% SAVED

HOW MUCH GE’S HIGH PERFORMANCE T8 AND T5 LAMPS CAN CUT YOUR ENERGY CONSUMPTION WHEN COMBINED WITH ULTRASTART® OR ULTRAMAX® BALLASTS®

37%

25%

19%

8%

7%

4%

* Life hours based on use with GE UltraStart® Ballast/Program Rapid Start with standard 12 hours/start.

** Life hours based on use with GE UltraMax® Ballast/Instant Start with standard 3 hours/start.

In increased lamp life

Industry

Ecolux® T8 SKL Lamps

Ecolux® T5 Lamps

GE T8 and T5 Lamps help to manage your costs and maintenance responsibilities. Ecolux® offers impressive lamp lifetime, energy efficiency and ease of maintenance.

GE has a wide variety of U.S. solutions that readily install, operate and save you money.

www.gelighting.com/energy

REDUCE, RECOVER AND RECYCLING

45% SAVED

In increased lamp life

In increased lamp life

* Life hours based on use with GE UltraStart® Ballast/Program Rapid Start with standard 12 hours/start.

** Life hours based on use with GE UltraMax® Ballast/Instant Start with standard 3 hours/start.

Increasing lamp life

Ecolux® T8 SKL Lamps

Ecolux® T5 Lamps

99.9% Hg Recovered

By recycling a mercury containing lamp, you’ll ensure that 99.98% of the mercury used in the lamp is recovered.

www.gelighting.com/energy

GE T8 (and T5) Lamps help to manage your costs and maintenance responsibilities. Ecolux® offers impressive lamp lifetime, energy efficiency and ease of maintenance.

Industry

Ecolux® T8 SKL Lamps

Ecolux® T5 Lamps

GE T8 and T5 Lamps help to manage your costs and maintenance responsibilities. Ecolux® offers impressive lamp lifetime, energy efficiency and ease of maintenance.

GE has a wide variety of U.S. solutions that readily install, operate and save you money.

www.gelighting.com/energy

LIGHTING ACCOUNTS FOR MORE THAN 37% OF AN AVG. COMMERCIAL BUILDING’S UTILITY BILL.

45% SAVED

How much GE’s high performance T8 and T5 lamps can cut your energy consumption when combined with UltraStart® or UltraMax® ballasts®

Industry

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www.gelighting.com/energy
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SUPPORT TO GUIDE YOU

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• Linear Fluorescent Retrofit Calculator
• Environmental Certifications: LEED®. RoHS
• Assistance with product selection for optimal energy savings and performance
• Knowledge of environmental regulations and software tools
• Expert auditing

www.gelighting.com/EIC

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• Ballast recycling T12 requirements
• T5 and T8 lamp and ballast combinations

www.gelighting.com/EIC

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• Application Product Maintenance Tool
• Energy services (ESO) Information center
• U.S. Green Building Council LEED® certification guidelines and software tools
• Recycling information and resources
• Energy-saving tools and calculators

www.gelighting.com/EIC

ENVIRONMENTAL IMPACTS THAT AFFECT BUSINESS

37%

ENERGY EFFICIENCY

With a host of environmental goals at the market place, it’s hard to differentiate which organizations positively affect your business. Increasing the energy efficiency of your lighting system has the largest effect on reducing your energy bills and overall environmental impact.

As future climate laws may tighten restrictions on greenhouse gas emissions, increasing the energy efficiency of your lighting system has the largest effect on reducing your energy bills and overall environmental impact.

www.gelighting.com/EIC

Ecomagination

LAMP LIFE & RELIABILITY

36,000 hrs

From a maintenance standpoint, product readiness is a core concern for any business decision maker. By choosing the right lamps and ballasts, you’ll reduce regular maintenance, provide the number of lamp changes that are made, transported or replaced. GE offers a wide variety of T8 and T5 bulb and ballast replacement options for customers. You get maximum reliability and peace of mind from your lighting system.

www.gelighting.com/lamp

REDUCE, RECOVER AND RECYCLING

45% SAVED

HOW MUCH ENERGY CAN YOU SAVE?

GE’s T8 and T5 TESLA® Lamps provide a very small amount of mercury to enable the lamp to operate with high-energy efficiency and long life. When fluorescent bulbs are recycled, this mercury is recovered.

All fluorescent lamps require a very small amount of mercury to enable the lamp to operate with high-energy efficiency and long life. When fluorescent lamps are recycled, this mercury is recovered.

www.gelighting.com/recycling

LAMPS ACCOUNTS FOR MORE THAN 37% OF AN AVG. COMMERCIAL BUILDING’S UTILITY BILL.

$45,000

99.9% Hg Recovered

In 1999, GE set a goal to use all of its ballast recycling purchased with energy-efficient T8 fluorescent lamps. Based on use of all GE's ballast recycling lines that exceed 99.9% recovery, GE exceeds its 1999 goal of using all of its ballast recycling lines.

www.gelighting.com/EIC

Ecolux® T8 SKL Lamps

60,000 hrs

Industry Standard T8 Lamps

21,000 hrs

GE’s T8 and T5 Ecolux® helps to manage your costs and maintenance responsibilities, setting impressive operating life standards.

www.gelighting.com/EIC

Energy savings that can be expected when combined with ultraStart® or ultraMax® ballasts.

Table 2.1: Energy savings that can be expected when combined with ultraStart® or ultraMax® ballasts.

<table>
<thead>
<tr>
<th>Lighting Type</th>
<th>Energy Savings</th>
</tr>
</thead>
<tbody>
<tr>
<td>T12 Magnetic Lamps</td>
<td>4%</td>
</tr>
<tr>
<td>Air Com. Refrigeration</td>
<td>25%</td>
</tr>
<tr>
<td>Fermentation</td>
<td>7%</td>
</tr>
<tr>
<td>Ventilation</td>
<td>8%</td>
</tr>
<tr>
<td>Other</td>
<td>19%</td>
</tr>
</tbody>
</table>

www.gelighting.com/energy

~Life hours based on use with GE UltraStart® Ballast/Program Rapid Start with standard 12 hours/start.

~Life hours based on use with GE UltraMax® Ballast/Instant Start with standard 3 hours/start.

Ecomagination

Increased lamp life
GE has the widest selection of RoHS compliant lamp and ballast systems in the market.

GE has the first and broadest RoHS compliant systems solution in North America.

GE carries the broadest offering of NEMA® Premium Ballasts.

As part of a company-wide commitment to energy efficiency and respect for the environment, GE is committed to providing customers with the most environmentally conscious UL system options.

GE’s T8 systems contain the minimum amount of mercury required to ensure maximum life within the life of the fixture. This drives customer costs below permitted hazardous material standards, giving you a low impact lighting choice.

GE has the widest selection of RoHS compliant lamp and ballast systems in the market.

GE double coated Linear Fluorescent Lamps comply with all relevant European standards, including 2010 ‘eco design’ regulations.

2005  2006  2007  2008  2009  2010

2007: GE electronic ballasts are RoHS compliant, eliminating regulated heavy metals.

2006: All electronic products shipped into Europe must be RoHS compliant.

2010: NEMA® calls on US manufacturers to shift to RoHS compliant ballasts.

GE has the first and broadest RoHS compliant systems solution in North America.

Since its first linear fluorescent lamps in the 1950’s, GE has reduced the mercury levels in its lamps by more than 90%.

Visit GE’s web-based, one-stop resource for specifiers, end users and distributors to find the latest information, tools and materials on environmental matters within the lighting and electrical industries.

www.gelighting.com/EIC

Visit www.gelighting.com/tools to find the LFL Calculator Tool.

Visit www.gelighting.com/legislation to learn more about Legislation Replacement Tool.

www.gelightinghs.com/Regulations

500mg of mercury

165 Lamps

3,200mg of mercury

1,800mg of mercury

2006: All electronic products shipped into Europe must be RoHS compliant.

2010: NEMA® calls on US manufacturers to shift to RoHS compliant ballasts.

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Visit GE’s web-based, one-stop resource for specifiers, end users and distributors to find the latest information, tools and materials on environmental matters within the lighting and electrical industries.

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Visit www.gelighting.com/tools to find the LFL Calculator Tool.

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www.gelightinghs.com/Regulations

500mg of mercury

165 Lamps

3,200mg of mercury

1,800mg of mercury

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GE RoHS Compliant Ballasts

GE’s UltraMax® and UltraStart® ballast systems are two of the first and broadest RoHS compliant ballast lines in North America. Among the highest energy-efficient ballasts available, these exclusive lines contribute significant reductions to energy consumption and GHG emissions.

- UltraStart® Programmed Start Ballasts
- UltraMax® Instant Start ballasts
- Energy Efficient Watt-Miser® lamp and ballast systems
- Combine with Ecolux® T5 and Ecolux T8 lamps for ultimate efficiency

Visit GE’s Environmental Information Center directly from your smartphone to access a vast library of resources, including:

- Energy saving tool and calculators
- Legislation Product Replacement Tool
- Linear Fluorescent Retrofit Calculator
- Energy Services (ESCOs)
- USGBC LEED® Certification Guidance
- Current Federal and State legislation

GE RoHS Compliant System Solution

Sustainable Leadership

As part of Ecomagination℠, GE is committed to helping you improve your environmental performance with complete Linear Fluorescent Lamp (LFL) system solutions that meet RoHS compliance prior to government mandates.

The RoHS Directive

The Restriction of Hazardous Substances Directive was adopted in February 2003 by the European Union. Though it took effect in Europe in 2006, it is not a U.S. law* for now it is simply a European directive. The RoHS Directive enforces an absolute prohibition against six hazardous materials in consumer products:

- Lead
- Mercury
- Cadmium
- Hexavalent chromium
- PBB flame retardants
- PBDE flame retardants

*In the U.S. an environmental bill has been introduced restricting use of these same substances. At the time of this brochure printing, the bill has not yet passed.

GE Environmental Excellence

GE has specialists in your area.

GE specialists are experts in energy auditing, environmental software and legislation tools. No matter your lighting needs, GE will help you identify areas for optimal energy reduction, and the right system to support your environmental initiatives.

Visit www.gelighting.com/EIC and click “Have a GE Specialist Contact Me.”

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1. Open a ‘barcode scanner’ application on your Smartphone (such as neoreader, available on iTunes® the Android™ market)
2. Point your phone’s camera at the code and scan
3. The code will bring you to a mobile site where you can find out more information about GE, right from your Smartphone!

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