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Energy Independence and Security Act of 2007

Incandescent Reflectors Energy Efficiency Legislation
Section 322



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sense and simplicity

Incandescent reflectors energy efficiency legislation

On December 19, 2007, the Energy Independence and Security Act of 2007 (the "Act") was signed into law. This Act set aggressive energy efficiency standards to help increase efficiency of products, buildings, and vehicles and took effect on January 1, 2008. In general, the legislation sets efficiency standards for general service lamps that will phase out the most common incandescent light bulbs by 2012-2014.

Subtitle B, Section 322 of the Act expands the types of incandescent reflector lamps covered by efficiency standards prescribed in the Energy Policy Act and Conservation Act of 1992.

Then, on July 12, 2009, the Department of Energy (DOE) published a final rule which affects Incandescent Reflector Lamps (IRL). This rule goes into effect July 12, 2012.

What lamps are affected:

- All R, PAR, ER, BR, BPAR or similar bulb shapes with the following:
 - E26 medium screw bases
 - A rated voltage or voltage that lies at least partially within 115 and 130 volts
 - A diameter >2.25 inches (R19 and up)
 - 40 watts to 205 watts

Are there types of reflectors that are exempt from the legislation?

- Rough service or vibration service lamps
- Colored incandescent lamps
- Same exemption as in EISA (65W BR/ER), but will be reviewed at a later time (ER, BR and small diameter lamps)

Do Philips Halogen, Compact Fluorescent, and LED reflector lamps meet the legislations efficiency requirements?

Yes. Inside this brochure are the lamps that should be used as replacements for lamps not meeting the requirements. Philips has a full range of Halogen, CFLi and LED products that meet the legislation requirements.

How can I be compliant with the efficiency standards?

The Act applies to products manufactured or imported for sale on or after the effective date. Philips recommends you begin

converting to either a comparable halogen, CFLi or LED reflector which meets the new standards, as you deplete your existing inventory. The inside of this brochure has a product replacement guide which will help you find the best replacement product for your needs.

Is Philips taking back any inventory of non-compliant reflectors?

No. Philips is not responsible for taking back any inventory.

How can I obtain pricing for the alternate product offering?

Contact your local Philips Sales Representative for pricing information.

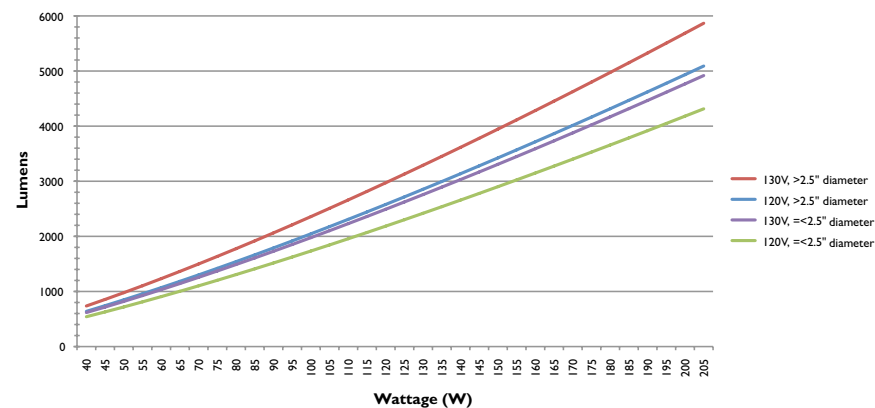
Which lamp should I use for those lamps that do not have a direct replacement?

The recommendation is to use the next lowest wattage lamp with similar lumen output which meets the efficiency standards.

Will 130V products be available after July 2012?

While the legislation does not explicitly exclude 130V, it does set higher efficacy standards for these products. Due to the higher efficacy requirements, Philips will not offer a 130V halogen replacement.

DOE Lumen per Watt Requirements for IRC's as of July 2012



>2.5" diameter includes PAR30L, PAR30S, PAR38, BR30, BR40, ER30, ER40

=< 2.5" diameter includes R20, PAR20

130V represents products whose rated voltage is >=125V

120V represents products whose rated voltage is <125V

Exemptions to IRL Standards:

- Lamps that are 50W or less; ER30, BR30, BR40, and ER40
- Lamps that are 65W exactly: BR30, BF40, and ER40
- Lamps that are 45W or less: R20

Example: 85W BR30 120V

LPW= 5.9 x 85W (0.27 in the power as above) = 19.6 LPW
Required Lumen = 85W x 19.6 = 1666 lumens

Some of the benefits of upgrading to a more energy efficient reflector lamp:



Philips EnduraLED Retrofits

- Substantial energy savings
- Instant-on light
- Come with a 3-year limited warranty
- Contain no mercury

Philips Halogen Lamps

- Bright white light
- Energy-saving options
- Fully dimmable, contains no mercury

Philips Compact Fluorescent Lamps

- Significant energy savings
- Available in a variety of wattages, lamp types, and color temperatures

Energy Independence & Security Act of 2007

Incandescent Reflectors Energy Efficiency Legislation

Philips Upgrade Products

INCANDESCENT LAMPS
NOT MEETING LEGISLATION

INCANDESCENT

HALOGEN

COMPACT FLUORESCENT

LED



R20

Product Number / Description	Product Number / Description	Product Number / Description	Product Number / Description	Product Number / Description
I4019-4 50R20/FL 130V 12/I PRO	20324-0 45R20/FL 130V 12/I PRO	22236-4 40R20/HEA/FL 120V 12/I I4727-2 45R20/HAL/FL 120V 12PK 26348-3 45PAR16/HAL/FL27 130V 15PK	No Direct Replacement	No Direct Replacement
22082-2 50R20 130V 12/I	20322-4 45R20 130V 12/I	22921-1 50PAR20/HAL/FL25 130V 15PK	No Direct Replacement	410084 7PAR20/END/F22 2700 DIM 6/I 410092 7PAR20/END/F22 3000 DIM 6/I 410100 7PAR20/END/F22 4200 DIM 6/I
I6755-1 50R20/LL 120V 12/I/TP	22314-9 45R20/LL 120V 4/3 (Flood) TP 20323-2 45R20/LL 120V 12/I	22911-2 50PAR20/HAL/FL25 120V 15PK	I5701-6 EL/A R20 14W	410084 7PAR20/END/F22 2700 DIM 6/I 410092 7PAR20/END/F22 3000 DIM 6/I 410100 7PAR20/END/F22 4200 DIM 6/I
I6763-5 75R20/LL 120V 12/I/TP	No Direct Replacement	22236-4 40R20/HEA/FL 120V 12/I	No Direct Replacement	408260 6R20/END/F22 2700 DIM 6/I 408203 6R20/END/F22 3000 DIM 6/I
I6701-5 100R20/LL 120V 12/I TP	No Direct Replacement	No Direct Replacement	No Direct Replacement	No Direct Replacement



BR19

Product Number / Description	Product Number / Description	Product Number / Description	Product Number / Description	Product Number / Description
I6750-2 50BR19/25/SP/LL 120V 12/I/TP	22315-6 45R20/LL 120V 4/3 (Spot) TP	22236-4 40R20/HEA/FL 22911-2 50PAR20/HAL/FL25 120V 15PK	I5701-6 EL/A R20 14W	No Direct Replacement



BR30

Product Number / Description	Product Number / Description	Product Number / Description	Product Number / Description	Product Number / Description
I3796-7 85BR30/FL55/LL 120V 12/I/TP	24876-5 65BR30/FL55 120V 12/I	22994-8 50BR30/HEA/FL 22944-3 75PAR30L/HAL/WFL40 120V 15PK	I5703-2 EL/A R30 15W Reflector 40904-5 Fast Run Up R30 I3707-5 Dimmable R30	410142 12PAR30S/END/F204200 DIM 6/I 410159 12PAR30L/END/F22 3000 DIM 6/I 410167 12PAR30L/END/F20 4200 DIM 6/I
I6767-6 85BR30/SP20/LL 120V 6/I	I6769-2 65BR30/SP20/LL 120V 12/I TP	22994-8 50BR30/HEA/FL 22930-2 75PAR30L/HAL/SP10120V15PK	40904-5 EL/A BR30 16W I3707-5 Dimmable R30	410142 12PAR30S/END/F204200 DIM 6/I 410159 12PAR30L/END/F22 3000 DIM 6/I 410167 12PAR30L/END/F20 4200 DIM 6/I
I6766-8 85BR30/FL55/LL 120V 6/I TP	I3835-4 65BR30/FL55/LL 120V 6/I	22994-8 50BR30/HEA/FL 22944-3 75PAR30L/HAL/WFL40 120V 15PK	I5703-2 EL/A R30 15W Reflector 40904-5 Fast Run Up R30 I3707-5 Dimmable R30	410142 12PAR30S/END/F204200 DIM 6/I 410159 12PAR30L/END/F22 3000 DIM 6/I 410167 12PAR30L/END/F20 4200 DIM 6/I



ER30

Product Number / Description	Product Number / Description	Product Number / Description	Product Number / Description	Product Number / Description
I4353-7 75ER30 120V 24/I	I4355-2 50ER30 120/130V 24/I	22994-8 50BR30/HEA/FL 38875-1 60BR30/HAL/SPOT 6/I/TP 22943-5 75PAR30L/HAL/FL25 130V 15PK	No Direct Replacement	407932 13PAR38/END/F10 3000 120V 6/I
I4354-5 75ER30 130V 24/I	I4355-2 50ER30 120/130V 24/I		No Direct Replacement	410175 17PAR38/END/F22 2700 DIM 6/I 410183 17PAR38/END/F22 3000 DIM 6/I 410191 17PAR38/END/F22 4200 DIM 6/I



BR38

Product Number / Description	Product Number / Description	Product Number / Description	Product Number / Description	Product Number / Description
I4009-5 75BR38/FL 130V 6/I PRO	No Direct Replacement	I4491-5 60PAR38/HAL/WFL40 130V 12PK	No Direct Replacement	410175 17PAR38/END/F22 2700 DIM 6/I 410183 17PAR38/END/F22 3000 DIM 6/I 410191 17PAR38/END/F22 4200 DIM 6/I
I5050-8 75BR38/CLEAR 120V 6/2	No Direct Replacement	I4484-0 60PAR38/HAL/WFL40 120V 12PK	22983-1 BR38 EL/A PAR38 23W I4644-9 EL/A PAR38 20W Dim Reflector I5716-4 BR38 EL/A PAR38 23W 2 pc	410175 17PAR38/END/F22 2700 DIM 6/I 410183 17PAR38/END/F22 3000 DIM 6/I 410191 17PAR38/END/F22 4200 DIM 6/I
I4010-3 150BR38/FL 130V 6/I PRO	No Direct Replacement	I4495-5 90PAR38/HAL/WFL40 130V 12PK	No Direct Replacement	410175 17PAR38/END/F22 2700 DIM 6/I 410183 17PAR38/END/F22 3000 DIM 6/I 410191 17PAR38/END/F22 4200 DIM 6/I
I5051-6 150BR38/CLEAR 120V 6/2	No Direct Replacement	I4487-3 90PAR38/HAL/WFL40 120V 12PK	22983-1 BR38 EL/A PAR38 23W I4644-9 EL/A PAR38 20W Dim Reflector I5716-4 BR38 EL/A PAR38 23W 2 pc	410175 17PAR38/END/F22 2700 DIM 6/I 410183 17PAR38/END/F22 3000 DIM 6/I 410191 17PAR38/END/F22 4200 DIM 6/I



BR40

Product Number / Description	Product Number / Description	Product Number / Description	Product Number / Description	Product Number / Description
I6785-8 85BR/FL60/LL 120V 8/I/TP	I6741-1 65BR/FL60/LL 120V 8/I TP	22997-1 70BR40/HEA/FL I4483-2 60PAR38/HAL/FL25 120V 12PK	No Direct Replacement	410175 17PAR38/END/F22 2700 DIM 6/I 410183 17PAR38/END/F22 3000 DIM 6/I 410191 17PAR38/END/F22 4200 DIM 6/I
22527-6 85BR/FL60 120V 24/I"S	38913-0 65BR/FL60 120V 24/I	22997-1 70BR40/HEA/FL I4486-5 75PAR38/HAL/FL25 120V 12PK	I3708-3 EL/A R40 20W Dim Reflector I5702-4 EL/A R40 23W Reflector	410175 17PAR38/END/F22 2700 DIM 6/I 410183 17PAR38/END/F22 3000 DIM 6/I 410191 17PAR38/END/F22 4200 DIM 6/I
22528-4 85BR/FL60 130V 24/I"S	22537-5 65BR/FL60 130V CDA 24/I	22997-1 70BR40/HEA/FL I4494-9 75PAR38/HAL/FL25 130V 12PK	No Direct Replacement	410175 17PAR38/END/F22 2700 DIM 6/I 410183 17PAR38/END/F22 3000 DIM 6/I 410191 17PAR38/END/F22 4200 DIM 6/I
I6781-7 120BR/SP20/LL 120V 8/I	No Direct Replacement	22997-1 70BR40/HEA/FL 23069-8 90PAR38/HAL/SP10 120V 12PK	No Direct Replacement	410175 17PAR38/END/F22 2700 DIM 6/I 410183 17PAR38/END/F22 3000 DIM 6/I 410191 17PAR38/END/F22 4200 DIM 6/I
22532-6 120BR/FL60 130V 24/I"S	22537-5 65BR/FL60 130V CDA 24/I	22238-0 40BR40/HEA/FL I4495-5 90PAR38/HAL/WFL40 130V 12PK	No Direct Replacement	410175 17PAR38/END/F22 2700 DIM 6/I 410183 17PAR38/END/F22 3000 DIM 6/I 410191 17PAR38/END/F22 4200 DIM 6/I
I4012-9 120BR/FL 130V 12/I PRO	I4008-7 65BR40/FL 130V 12/I PRO	22997-1 70BR40/HEA/FL I3918-8 60PAR38/IRC/WFL40 130V 12PK	No Direct Replacement	410175 17PAR38/END/F22 2700 DIM 6/I 410183 17PAR38/END/F22 3000 DIM 6/I 410191 17PAR38/END/F22 4200 DIM 6/I
22541-7 120BR/FL60 120V 24/I"S	38913-0 65BR/FL60 120V 24/I	22997-1 70BR40/HEA/FL I3402-3 90PAR38/HAL/FL/LL 120V 6/I/TP	No Direct Replacement	410175 17PAR38/END/F22 2700 DIM 6/I 410183 17PAR38/END/F22 3000 DIM 6/I 410191 17PAR38/END/F22 4200 DIM 6/I
I6779-1 120BR/FL60/LL 120V 8/I/TP	I6741-1 65BR/FL60/LL 120V 8/I TP	22997-1 70BR40/HEA/FL I4487-3 90PAR38/HAL/WFL40 120V 12PK	I3708-3 EL/A R40 20W Dimm Reflector I5702-4 EL/A R40 23W Reflector 21223-3 BC-EL/A R40 23W Reflector	410175 17PAR38/END/F22 2700 DIM 6/I 410183 17PAR38/END/F22 3000 DIM 6/I 410191 17PAR38/END/F22 4200 DIM 6/I
22544-1 120BR/SP20 120-130V CDA 24/I	No Direct Replacement	22997-1 70BR40/HEA/FL 23650-5 90PAR38/HAL/SP10 130V 12PK	No Direct Replacement	410175 17PAR38/END/F22 2700 DIM 6/I 410183 17PAR38/END/F22 3000 DIM 6/I 410191 17PAR38/END/F22 4200 DIM 6/I
I4341-2 200BR/FL 120V 24/I	No Direct Replacement	22997-1 70BR40/HEA/FL I3877-6 100PAR38/IRC/FL25 120V 12PK	No Direct Replacement	410175 17PAR38/END/F22 2700 DIM 6/I 410183 17PAR38/END/F22 3000 DIM 6/I 410191 17PAR38/END/F22 4200 DIM 6/I