



Incandescent Reflectors Energy Efficiency Legislation Introduction

On December 19, 2007 the Federal government signed into law an additional energy efficiency legislation policy, *Energy Independence and Security Act of 2007*. This Act sets very strict energy efficiency standards to help increase efficiency of products, buildings, and vehicles. The goal of this policy is to move the U.S. towards greater energy independence and security.

This policy in Subtitle i, Section 322 expands the types of incandescent reflector lamps covered by efficiency standards prescribed in the Energy Policy Act and Conservation Act. In general, it affects incandescent reflectors and the legislation prohibits the manufacture of certain incandescent reflector lamps unless they meet or exceed energy efficiency standards set forth in the policy - *minimum lumens per watt*.

When did this policy take effect?

The policy took effect on June 16, 2008.

These reflector lamp types are exempt from the legislation. Other sizes, shapes and wattages must meet the minimum efficiency standards.

- R20 Lamps 45 watts or less
- ER40 Lamps 65 watts or less
- ER30 Lamps 50 watts or less
- BR40 Lamps 50 watts or less
- BR30 Lamps 50 watts or less
- 65 watt BR40 Lamp*
- 65 watt BR30 Lamp*

Lamps that are colored or designed for rough or vibration service applications.

* These popular lamps were specifically listed as exempt.

Do Satco Compact Fluorescent and Halogen reflector lamps meet the legislation's efficiency requirements?

Yes, inside this brochure we have indicated which lamps should be used as replacements for lamps not meeting the new requirements.

What can I do to be compliant with these new efficiency standards?

The following replacement guide will help you find the best product for your needs. Satco recommends that you begin converting to either a comparable compact fluorescent, halogen or lower wattage incandescent reflector which meet the new guidelines.

What lamp should be used for those lamps that do not have a direct replacement?

- The recommendation is to use the next lowest wattage lamp which meets the efficiency standards.
- Please refer to the replacement lamp chart inside for the closest lamp to replace the impacted lamp.



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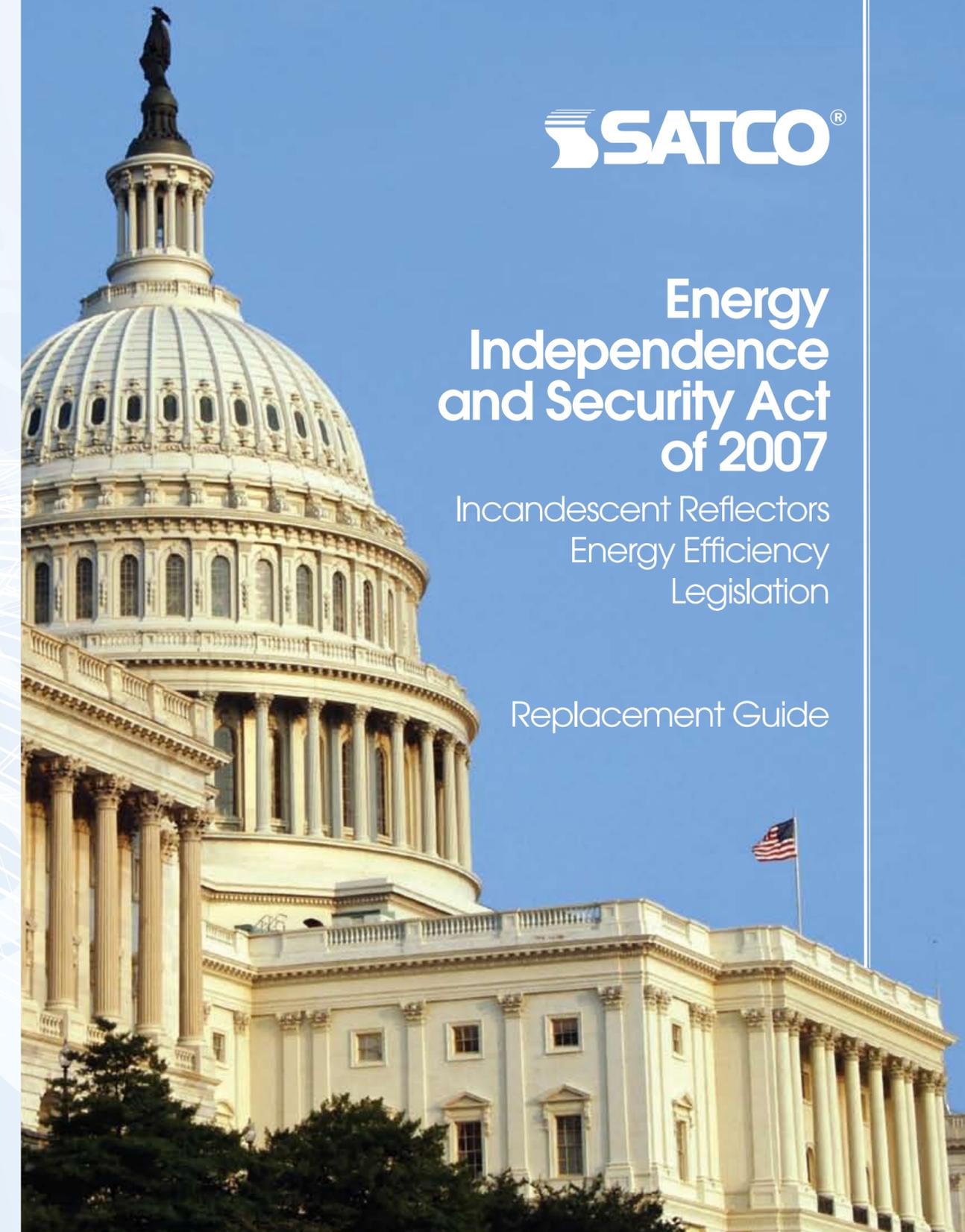
EPACT 2007/ Reflector - 2



Energy Independence and Security Act of 2007

Incandescent Reflectors Energy Efficiency Legislation

Replacement Guide





Energy Independence and Security Act of 2007 Energy Efficient Alternatives

SATCO is pleased to present viable, energy efficient alternatives which meet or exceed legislative requirements. SATCO offers several options to select from. General incandescent reflectors, halogen "R" & "BR" indoor flood lamps, clear or frosted lens PAR lamps and self ballasted compact fluorescents.

S A T C O R E P L A C E M E N T L A M P G U I D E

Incandescent Lamps Not Meeting Legislation

The *Energy Independence and Security Act of 2007* has impacted the incandescent reflector lamp products and or product categories listed below which do not meet the requirements of the policy. The replacement lamps listed in the charts to the right offer several energy efficient choices.



Incandescent Reflectors

- Low cost reflector lamp
 - High color rendering index for good color reproduction.
 - Familiar lamp shape and size.
- Applications:** For indoor recessed and track fixtures



"R" & "BR" Indoor Halogen Reflectors

- Delivers more lumens per watt
 - Provides a bright, white light
 - Fully dimmable
 - Contains no mercury
 - Instant-on
- Applications:** Indoor residential, retail, commercial, track lighting, downlighting, accent & display lighting, recessed lighting & wall washing.



Halogen PAR Reflectors

- Save energy by using lower wattage PAR halogen lamps
 - Lasts longer than standard incandescent lamps
 - Enhanced beam control
 - Superior beam control & sharp cutoff
- Applications:** Homes, hard to reach areas, offices, hotels, restaurants, art galleries, retail, indoor / outdoor, general lighting, floor lighting, display lighting & highlight merchandise.



Soft Ray Halogen PAR Reflectors

- Provides soft glare free, high lumen, directional light.
 - Save energy by using lower wattage PAR halogen lamps
 - Lasts longer than standard incandescent lamps
 - No hot spot or shadows
 - Softer beam
 - Wide field angle
- Applications:** Bedrooms, living areas, restaurants and general lighting



Compact Fluorescent Reflectors

- Provides soft white light with less heat
 - Last 5-7 years*
 - Reduces energy costs when compared to an equivalent incandescent bulb - saves up to 75%.
 - Available in different shapes & wattages to satisfy most applications.
 - Available in different color temperatures
 - 2700K soft white
 - 4100K bright white
 - 5000K natural light
- Applications:** Track lighting, difficult to service areas, security lighting, and recessed down lights.



Impacted #	Description	Voltage	Lumens	Hours
K19 Directional				
S4976	40WK19	120V	260	1500
S4977	60WK19	120V	520	1500
S4978	75WK19	120V	680	1500
S4979	100WK19	120V	1000	1500
R20				
S3204	50R20	120V	375	2000
S3804	50R20	130V	375	2000
S3211	75WR20	120V	690	2000
S2811	75WR20	130V	690	2000
S3226	100WR20	120V	925	2000
BR25				
S2807	85WBR25	120V	800	2000
BR30				
S2809	85WBR30	120V	925	2000
S3409	85WBR30	130V	925	2000
ER30				
S4957	75ER30	130V	620	2000
BR38				
S4420	75WBR38/CL	120V	700	2000
S4430	75WBR38/CL	130V	700	2000
S4421	150WBR38/CL	120V	1550	2000
S4431	150WBR38/CL	130V	1550	2000
BR40				
S2854	85WBR40	125-130V	925	2500
S2855	120WBR40	120V	1150	2500
S4455	120WBR40	130V	1150	2500
ER40				
S4958	120WER40	130V	1180	2000

Impacted Lamps	Replacement #	Description	Voltage	Lumens	Hours
R20					
S4976	S3210	30R20/FL	120V	185	2000
S4977	S3229	45R20/FL	120V	325	2000
S4978		No Standard Incandescent Replacement			
S4979		No Standard Incandescent Replacement			
R20					
S3204	S3229	45R20/FL	120V	325	2000
S3804	S3849	45R20/FL	130V	325	2000
S3211		No Standard Incandescent Replacement			
S2811		No Standard Incandescent Replacement			
S3226		No Standard Incandescent Replacement			
BR25					
S2807	S2806	65BR25/FL	120V	600	2000
BR30					
S2809	S2808/48	65BR30/FL	120V	685	2000
S3409	S3408/48	65BR30/FL	130V	685	2000
ER30					
S4957	S4956	50ER30	130V	310	2000
BR38					
S4420		No Standard Incandescent Replacement			
S4430		No Standard Incandescent Replacement			
S4421		No Standard Incandescent Replacement			
S4431		No Standard Incandescent Replacement			
BR40					
S2854	S2853	65BR40	120V	685	2500
S2855		No Standard Incandescent Replacement			
S4455		No Standard Incandescent Replacement			
BR40					
S4958		No Standard Incandescent Replacement			

Impacted Lamps	Replacement #	Description	Voltage	Lumens	Hours
R20					
S4976	S4500	50WR20/HAL/FL	120V	525	2000
S4977		No "R" or "BR" Halogen Replacement			
S4978		No "R" or "BR" Halogen Replacement			
S4979		No "R" or "BR" Halogen Replacement			
R20					
S3204	S4500	50WR20/HAL/FL	120V	525	2000
S3804		No "R" or "BR" Halogen Replacement			
S3211		No "R" or "BR" Halogen Replacement			
S2811		No "R" or "BR" Halogen Replacement			
S3226		No "R" or "BR" Halogen Replacement			
R20					
S2807	S4500	50WR20/HAL/FL	120V	525	2000
BR30					
S2809	S4502	75WBR30/HAL/FL	120V	938	2000
S3409	S4502	75WBR30/HAL/FL	120V	938	2000
BR30					
S4957	S4401	60WBR30/HAL/FL	130V	680	2000
BR30					
S4420		No "R" or "BR" Halogen Replacement			
S4430		No "R" or "BR" Halogen Replacement			
S4421		No "R" or "BR" Halogen Replacement			
S4431		No "R" or "BR" Halogen Replacement			
BR40					
S2854		S4504 75BR40/HAL/FL	120V	938	2000
S2855		S4503 100BR40/HAL/FL	120V	1450	2000
S4455		No "R" or "BR" Halogen Replacement			
BR40					
S4958	S4503	100BR40/HAL/FL	120V	1450	2000

Impacted Lamps	Replacement #	Description	Voltage	Lumens	Hours
PAR16					
S4976	S2200	45PAR16/NFL	120V	420	2500
S4977	S2201	60PAR16/NFL	120V	600	2500
S4978	S2203	75PAR16/NFL	120V	850	2000
S4979		No "PAR" Halogen Replacement			
PAR20					
S3204	S2205	50PAR20/NFL	120V	495	2500
S3804	S2305	50PAR20/NFL	130V	495	2500
S3211		No "PAR" Halogen Replacement			
S2811		No "PAR" Halogen Replacement			
S3226		No "PAR" Halogen Replacement			
PAR20					
S2807	S2205	50PAR20/NFL	120V	495	2500
PAR30					
S2809	S2216	75PAR30/LN/NFL	120V	945	2500
S3409	S2316	75PAR30/LN/NFL	130V	945	2500
PAR30					
S4957	S2316	75PAR30/LN/NFL	130V	945	2500
PAR38					
S4420	S2221	75PAR38/FL	120V	960	2500
S4430	S2321	75PAR38/FL	120V	960	2500
S4421	S2225	120PAR38/FL	120V	1600	2500
S4431	S2325	120PAR38/FL	120V	1600	2500
PAR38					
S2854	S2221	75PAR38/FL	120V	960	2500
S2855	S2223	90PAR38/FL	120V	1260	2500
S4455	S2323	90PAR38/FL	130V	1260	2500
PAR38					
S4958	S2323	90PAR38/FL	130V	1260	2500

Impacted Lamps	Replacement #	Description	Voltage	Lumens	Hours
PAR16					
S4976		No "Soft Ray PAR" Halogen Replacement			
S4977	S4108	60PAR16/FL/FROST	120V	525	2500
S4978	S4109	75PAR16/FL/FROST	120V	725	2500
S4979		No "Soft Ray PAR" Halogen Replacement			
PAR20					
S3204	S4100	50PAR20/NFL/FROST	120V	450	2500
S3804	S4200	50PAR20/NFL/FROST	130V	450	2500
S3211		No "Soft Ray PAR" Halogen Replacement			
S2811		No "Soft Ray PAR" Halogen Replacement			
S3226		No "Soft Ray PAR" Halogen Replacement			
PAR20					
S2807	S4100	50PAR20/NFL/FROST	120V	450	2500
PAR30					
S2809	S4104	75PAR30/LN/NFL/FROST	120V	900	2500
S3409	S4204	75PAR30/LN/NFL/FROST	130V	900	2500
PAR30					
S4957	S4204	75PAR30/LN/NFL/FROST	130V	900	2500
PAR38					
S4420	S4106	60PAR38/FL/FROST	120V	600	2500
S4430	S4206	60PAR38/FL/FROST	130V	600	2500
S4421	S4107	90PAR38/FL/FROST	120V	1150	2500
S4431	S4207	90PAR38/FL/FROST	130V	1150	2500
PAR38					
S2854	S4106	60PAR38/FL/FROST	120V	600	2500
S2855	S4107	90PAR38/FL/FROST	120V	1150	2500
S4455	S4207	90PAR38/FL/FROST	130V	1150	2500
PAR38					
S4958	S4207	90PAR38/FL/FROST	130V	1150	2500

Impacted Lamps	Replacement #	Description	Voltage	Lumens	Hours
R20					
S4976		No CFL Replacement			
S4977		No CFL Replacement			
S4978		No CFL Replacement			
S4979		No CFL Replacement			
R20					
S3204	S7254	11R20/CFL/27K	120V	330	10000
S3804	S7254	11R20/CFL/27K	120V	330	10000
S3211		No CFL Replacement			
S2811		No CFL Replacement			
S3226		No CFL Replacement			
R20					
S2807	S7254	11R20/CFL/27K	120V	330	10000
R30					
S2809	S7247	15R30/CFL/27K	120V	650	6000
S3409	S7247	15R30/CFL/27K	120V	650	6000
R30					
S4957	S7247	15R30/CFL/27K	120V	650	6000
PAR38					
S4420	S7201	23PAR38/CFL/27K	120V	1050	10000
S4430	S7201	23PAR38/CFL/27K	120V	1050	10000
S4421	S7201	23PAR38/CFL/27K	120V	1050	10000
S4431	S7201	23PAR38/CFL/27K	120V	1050	10000
R40					
S2854	S7241	23R40/CFL/27K	120V	1040	10000
S2855	S7241	23R40/CFL/27K	120V	1040	10000
S4455	S7241	23R40/CFL/27K	120V	1040	10000
R40					
S4958	S7241	23R40/CFL/27K	120V	1040	10000

All suggested replacement items are based on lamp size and lumen performance

**New product specifications beginning 11/08

*Based on 3 hours average usage per day / 7 days per week.