



Visual appeal with energy savings

Philips Energy Advantage and EcoVantage Halogen Lamps

PHILIPS

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The optimal accent light

Philips is driving the switch to energy-efficient solutions, and shaping the future with exciting new lighting applications and technologies.

More than that, we care about your success. Getting it right means relying on a leader in quality product design with a solid track record.

The possibilities of halogen lighting

Visually, Philips Energy Advantage halogen lamps provide bright, crisp light that is perfect for retail and hospitality applications. Since they deliver more lumens per watt, have perfect color rendering, consume less energy and last longer than standard halogen lamps, they are the ideal, cost efficient choice for most applications.

Appearance and efficiency

Retailers can enjoy the depth and texture of their merchandise that halogen light provides with low initial cost.

Critical for color and ambience

Designed for superb color consistency, beam uniformity and color rendering, Halogen Energy Advantage IR products are ideal for highlight, accent and general application lighting. All halogen lamps are fully dimmable to create the desired atmosphere. Choose the right halogen product that meets your application needs.

- Retail displays
- Lobby and meeting room
- Museums and archives

Lighting legislation explained

From 2012–2014, new lighting efficiency regulations are being phased in. Many general service incandescent, reflector and fluorescent lamps are affected by these rules. Go to www.philips.com/legislation for more information and a full list of affected products, replacement and upgrade options.





Understanding EISA Section 321 General Service Incandescent Lamps

- The Energy Independence and Security Act of 2007 (EISA) is an omnibus energy policy law that contains provisions designed to increase energy efficiency and the availability of renewable energy.¹
- Section 321 of EISA sets maximum wattages and minimum rated average lifetimes for general service incandescent lamps in four popular lumen ranges. Depending on the type of lamp, these standards are phased in from January 1, 2012 through January 1, 2014.²
- Lamps covered by these new efficiency requirements include lamps that:
 - Are intended for general service applications (i.e. A-shape)
 - Have a medium screw base
 - Have a lumen range of 310–2600 lumens and are capable of operating at least partially in the range of 110–130 volts.
- Section 321 of EISA also establishes maximum wattages for some popular candles. All intermediate base lamps including A, B, F, and BA shapes using 40 watts or less are exempt from EISA. All candelabra base lamps including B, F and BA shapes using 60 watts or less are exempt from EISA. These rules both took effect in January 2012.

EISA Section 321 Requirements for Standard Spectrum Lamps³

Lumen range	Maximum wattage	Minimum rated average lifetime	Effective Date
1490–2600	72W	1000 Hours	Jan 1, 2012
1050–1489	53W	1000 Hours	Jan 1, 2013
750–1049	43W	1000 Hours	Jan 1, 2014
310–749	29W	1000 Hours	Jan 1, 2014

Philips is here to help... We have created energy efficient replacement lamps that comply with the new EISA legislation standards...

	Incandescent phase-out wattage	Replace with lower wattage halogen		Incandescent phase-out wattage	Replace with lower wattage halogen		Incandescent phase-out wattage	Replace with lower wattage halogen
A-Shape			Candle			Globe		
	40W	29W		Bent Tip 60W	40W		G25 60W	40W
A19	60W	43W						
	75W	53W		Blunt Tip 60W	40W			
	100W	72W						

1) U.S. Congressional Research Service, Energy Independence and Security Act of 2007: A Summary of Major Provisions (RL34294; Dec. 7, 2007), p.2, by Fred Sissine. Text at: http://energysenate.gov/public_files/RL342941.pdf; Accessed: July 22, 2011.

2) CA Title 24 regulations mandate implementation of EISA efficiency requirements 1 year earlier.

3) "Energy Conservation Program: Energy Conservation Standards and Test Procedures For G5FL and IRL; Final Rule" 74 Federal Register 34080, 34082 (14 July 2009).

DOE rulemaking and efficiency standards for IRL

Rulemaking and efficiency standards for Incandescent Reflector Lamps (IRL)

- The Energy Independence and Security Act of 2007 directed the Department of Energy (DOE) to undertake new energy conservation standards for Incandescent Reflector Lamps (IRL) among other lamps.
- EISA Section 322 expanded the shapes, diameters and wattages of incandescent reflector lamps for which the DOE can set energy conservation standards. There are also new efficiency standards for incandescent reflector lamps. Manufacturers must meet these new improved performance levels before July 14, 2012.

Lamps covered by these efficiency standards include:

R, PAR, ER, BR, BPAR and similar bulb shapes with:

- Medium screw bases
- Rated voltage that lies at least partially within 115–130V
- A diameter of >2.25 inches
- Rated wattage of 40W–205W

Lamps that are exempt from EISA Sections 321 and 322 include:

- Rough service or vibration lamps
- Colored PAR lamps
- R20 shaped lamps rated at ≤45W
- BR30, ER30, and ER40 shaped lamps rated at ≤50W
- BR30, BR40, and ER40 shaped lamps rated at 65W



IRL Efficacy Standards

Lamp IRL wattage	Lamp type	Diameter	Voltage	Required efficacy (LPW)
40W–205W	Standard Spectrum	>2.5 inches	≥ 125	$6.8 \times P^{0.27}$
			<125	$5.9 \times P^{0.27}$
		<2.5 inches	≥ 125	$5.7 \times P^{0.27}$
			<125	$5.0 \times P^{0.27}$

How to read the table: The equation on the right determines the minimum Lumens per Watt requirement for IRL lamps to meet DOE's new energy conservation standards.³

Note 1: P is equal to the rated wattage of each lamp.
 Note 2: Modified spectrum lamps have lower efficacy standards.
 Note 3: This table is taken from DOE Rulemaking.

Indoor Reflector	Incandescent phase-out wattage	Replace with lower wattage halogen	Reflector	Incandescent phase-out wattage	Replace with lower wattage halogen	Reflector	Incandescent phase-out wattage	Replace with lower wattage halogen
	R20 75W	40W		PAR20 50W	39W		45W	39W
	BR30 65W	40W		50W	20W		60W	39W
	BR40 85W	50W		50W	39W		75W	53W
	BR40 120W	70W		75W	53W		90W	72W
				50W	50W			70W
				50W	40W			
				50W	39W			

Premium replacement option. Look for Energy Advantage IRC Plus lamps.



Low-voltage MRI 6 halogen reflector lamps

Philips Energy Advantage IR MRI6 Lamps optimize the look and feel of your merchandise, and the shopper experience, with lower operating costs.

Features

- High efficacy, up to 24 LPW
- Aluminum coated reflector
- Minimal UV/IR light in the beam
- Consistent, uniform beam pattern
- Fully dimmable and instant-on
- 5000 hour rated average life¹

Benefits

- Beautifully showcases merchandise
- No back light
- Vibrant colors and textures you can feel with your eyes
- Lower maintenance cost through fewer re-lamps

Applications

- Accent lighting
- Track and showcase lighting
- Suitable for indoor or outdoor locations

¹) Rated average life is the length of operation (in hours) at which point an average of 50% of the lamps will still be operational and 50% will not.





Philips Energy Advantage IR MRI 6 Lamps

Energy efficient low-voltage halogen reflector lamp



Ordering, Electrical and Technical Data (Subject to change without notice)

Product Number	Bulb Type	Ordering Description	Halogen	Volts	Beam Angle	Base	Rated	Lumens	Approx. MBCP ²	CRI	Color	MOL
			watts	hours	Temp							
Replaces Standard Philips MRI 6 35W with 540 lumens and a rated average life of 3000 hours ³												
20258-0	MRC16	20MRC16/IRC/ALU/SP8	20W	12	8°	GU5.3	5000	320	6000	99	2900	1 7/8
20259-8	MRC16	20MRC16/IRC/ALU/FL36	20W	12	36°	GU5.3	5000	325	925	99	2900	1 7/8
Replaces Standard Philips MRI 6 50W with 600 lumens and a rated average life of 3000 hours ³												
20260-6	MRC16	30MRC16/IRC/ALU/SP8	30W	12	8°	GU5.3	5000	560	10,000	99	2900	1 7/8
20261-4	MRC16	30MRC16/IRC/ALU/NFL24	30W	12	24°	GU5.3	5000	570	3000	99	2900	1 7/8
20262-2	MRC16	30MRC16/IRC/ALU/FL36	30W	12	36°	GU5.3	5000	580	1500	99	2900	1 7/8
20263-0	MRC16	35MRC16/IRC/ALU/SP8	35W	12	8°	GU5.3	5000	720	12,500	99	2900	1 7/8
21031-0	MRC16	35MRC16/IRC/SP8	35W	12	8°	GU5.3	5000	770	13,500	99	2900	1 7/8
20267-1	MRC16	35MRC16/IRC/ALU/NFL24	35W	12	24°	GU5.3	5000	730	4000	99	2900	1 7/8
21030-2	MRC16	35MRC16/IRC/NFL24	35W	12	24°	GU5.3	5000	780	4400	99	2900	1 7/8
20268-9	MRC16	35MRC16/IRC/ALU/FL36	35W	12	36°	GU5.3	5000	740	2000	99	2900	1 7/8 ₅₀
20269-7	MRC16	35MRC16/IRC/ALU/WFL60	35W	12	60°	GU5.3	5000	750	975	99	2900	1 7/8
Replaces Standard Philips MRI 6 75W with 1320 lumens and a rated average life of 3000 hours ³												
20271-3	MRC16	45MRC16/IRC/SP8	45W	12	8°	GU5.3	5000	1030	14,000	99	2900	1 7/8
20272-1	MRC16	45MRC16/IRC/NFL24	45W	12	24°	GU5.3	5000	1040	5200	99	2900	1 7/8
20273-9	MRC16	45MRC16/IRC/FL36	45W	12	36°	GU5.3	5000	1050	2600	99	2900	1 7/8
20274-7	MRC16	45MRC16/IRC/WFL60	45W	12	60°	GU5.3	5000	1180	1250	99	2900	1 7/8

1) Rated average life is the length of operation (in hours) at which point an average of 50% of the lamps will still be operational and 50% will not.
 2) Maximum Beam Candlepower.
 3) Replacement based on candela performance of each lamp. Results may vary by application.

This energy saving example shows an application of 100 lamps in a space currently using 50W halogen MR16 lamps, operating 4,000 hours per year at a cost of \$0.11 per kWh.⁴Your actual savings may vary depending on the energy costs in your geographic location.

Replacing 100 standard incandescent 50W MR16 lamps with Philips 30W Energy Advantage IRC MR16 lamps can provide significant energy cost savings of \$880 per year! Potential savings from the reduction in HVAC costs as a result of using a lower wattage lamp that emits less heat is an additional benefit not included in this example.

Saving Solution		
Estimated Lighting Costs Using a...	Standard Halogen 50W MR16 Lamp	Philips Energy Advantage 30W IR MR16 Lamp
Present Wattage	50 Watts	30 Watts
x Annual Operating Hours	4,000 hours	4,000 hours
	= 200,000 watt-hours	= 120,000 watt-hours
+ 1,000 =	= 200 kWh per year	= 120 kWh per year
x kWh rate of \$0.11	= \$22.00 per year	= \$13.20 per year
x 100 lamps per space	= \$2,200.00 annual energy cost per space	= \$1,320 annual energy cost per space
	Total Estimated Annual Savings⁵	= \$880.00

4) Based on a standard 50W halogen MR16 vs. a Philips 30W halogen Energy Advantage IRC MR16.

5) Based on 100 lamps per space operating at 4,000 hours per year.

Shipping Data (Subject to change without notice)

Product Number	SKU UPC	Outer Bar Code	Case Qty.	Case Weight lbs.	Case Cube cu. ft.	Pallet Qty.	Lamps/SKU	SKU/ Layer	Layers High	SKU Dimensions (w x d x h) inches	Case Dimensions (w x d x h) inches	Pallet Dimensions (w x d x h) inches
Replaces Standard Philips MR16 35W with 540 lumens and a rated average life of 3000 hours⁶												
20258-0	20258-3	20258-8	20	1.4	0.11	5520	1	920	6	1.8 x 1.8 x 2.2	9.4 x 4.1 x 5.0	38.6 x 47.1 x 37.2
20259-8	20259-0	20259-5	20	1.4	0.11	5520	1	920	6	1.8 x 1.8 x 2.2	9.4 x 4.1 x 5.0	38.6 x 47.1 x 37.2
Replaces Standard Philips MR16 50W with 600 lumens and a rated average life of 3000 hours³												
20260-6	20260-6	20260-1	20	1.4	0.11	5520	1	920	6	1.8 x 1.8 x 2.2	9.4 x 4.1 x 5.0	38.6 x 47.1 x 37.2
20261-4	20261-3	20261-8	20	1.4	0.11	5520	1	920	6	1.8 x 1.8 x 2.2	9.4 x 4.1 x 5.0	38.6 x 47.1 x 37.2
20262-2	20262-0	20262-5	20	1.4	0.11	5520	1	920	6	1.8 x 1.8 x 2.2	9.4 x 4.1 x 5.0	38.6 x 47.1 x 37.2
20263-0	20263-7	20263-2	20	1.4	0.11	5520	1	920	6	1.8 x 1.8 x 2.2	9.4 x 4.1 x 5.0	38.6 x 47.1 x 37.2
21031-0	21031-1	21031-6	20	1.4	0.11	5520	1	920	6	1.8 x 1.8 x 2.2	9.4 x 4.1 x 5.0	38.6 x 47.1 x 37.2
20267-1	20267-5	20267-0	20	1.4	0.11	5520	1	920	6	1.8 x 1.8 x 2.2	9.4 x 4.1 x 5.0	38.6 x 47.1 x 37.2
21030-2	21030-4	21030-9	20	1.4	0.11	5520	1	920	6	1.8 x 1.8 x 2.2	9.4 x 4.1 x 5.0	38.6 x 47.1 x 37.2
20268-9	20268-2	20268-7	20	1.4	0.11	5520	1	920	6	1.8 x 1.8 x 2.2	9.4 x 4.1 x 5.0	38.6 x 47.1 x 37.2
20269-7	20269-9	20269-4	20	1.4	0.11	5520	1	920	6	1.8 x 1.8 x 2.2	9.4 x 4.1 x 5.0	38.6 x 47.1 x 37.2
Replaces Standard Philips MR16 75W with 1320 lumens and a rated average life of 3000 hours³												
20271-3	20271-2	20271-7	20	1.4	0.11	5520	1	920	6	1.8 x 1.8 x 2.2	9.4 x 4.1 x 5.0	38.6 x 47.1 x 37.2
20272-1	20272-9	20272-4	20	1.4	0.11	5520	1	920	6	1.8 x 1.8 x 2.2	9.4 x 4.1 x 5.0	38.6 x 47.1 x 37.2
20273-9	20273-6	20273-1	20	1.4	0.11	5520	1	920	6	1.8 x 1.8 x 2.2	9.4 x 4.1 x 5.0	38.6 x 47.1 x 37.2
20274-7	20274-3	20274-8	20	1.4	0.11	5520	1	920	6	1.8 x 1.8 x 2.2	9.4 x 4.1 x 5.0	38.6 x 47.1 x 37.2

6) Replacement based on candela performance of each lamp. Results may vary by application.

See Product Bulletins for Warnings, Cautions and Instructions.



PAR20 halogen reflectors for optimized accent light

Philips Energy Advantage PAR20 and PAR20 Electronic Lamps provide crisp, clear lighting effects with excellent color rendering and lower operating costs.

Features

- Excellent light quality—features Philips designed optics for optimal accent light
- Energy saving compared to a standard 50W halogen PAR20¹
- PAR20 Electronic consists of low voltage halogen burner and integrated transformer in PAR20 envelope
- PAR20 Electronic delivers 5000 hour rated average life²

Benefits

- Beautifully showcases merchandise
- Vibrant colors and textures you can feel with your eyes
- Lower maintenance cost through fewer re-lamps

Applications

- Accent and general lighting
- Fits track and recessed lighting luminaires

¹) When compared to a 50W standard halogen PAR20, this 20W PAR20 Electronic consumes 30 watts less energy.

²) Rated average life is the length of operation (in hours) at which point an average of 50% of the lamps will still be operational and 50% will not.

EcoVantage PRO EVP PAR delivers excellent light quality at affordable prices.

PAR20 Electronic maximizes beam performance using 20 watts (67%) less energy than standard halogen 50W lamps.



This energy saving example shows an application of 100 lamps in a space currently using 50W halogen PAR20 lamps, operating 4,000 hours per year at a cost of \$0.11 per kWh.² Your actual savings may vary depending on the energy costs in your geographic location.

Replacing 100 standard incandescent 50W PAR20 lamps with Philips Energy Advantage PAR20 Electronic lamps can provide significant energy cost savings of \$1,320 per year! Potential savings from the reduction in HVAC costs as a result of using a lower wattage lamp that emits less heat is an additional benefit not included in this example.

Saving Solution		
Estimated Lighting Costs Using a...	Standard Halogen PAR20 Lamp	Philips Energy Advantage PAR20 Electronic Lamp
Present Wattage	50 Watts	20 Watts
x Annual Operating Hours	4,000 hours	4,000 hours
	= 200,000 watt-hours	= 80,000 watt-hours
+ 1,000 =	= 200 kWh per year	= 80 kWh per year
x kWh rate of \$0.11	= \$22.00 per year	= \$8.80 per year
x 100 lamps per space	= \$2,200.00 annual energy cost per space	= \$880 annual energy cost per space
	Total Estimated Annual Savings³	= \$1,320.00

2) Based on a standard 50W halogen PAR20 vs. a Philips 20W halogen PAR20 electronic.
 3) Based on 100 lamps per space operating at 4,000 hours per year.



Philips Halogen PAR20 Lamps Energy savings in a small reflector

Ordering, Electrical and Technical Data (Subject to change without notice)

Product Number	Bulb Type	Ordering Description	Halogen		Beam Angle	Base	Rated Avg. Life ⁴ hours	Lumens	Approx. MBCP ⁵		Color Temp kelvin	MOL inches	Key
			Volts	watts					CRI				
Replaces Standard Philips PAR20 50W with 510 lumens and a rated average life of 3000 hours⁶													
40494-7	PAR20E	20PAR20E/HAL/SP10 120V	20W	120V	10°	Med.	5000	—	6600	100	2900	3.4"	A
15216-5	PAR20E	20PAR20E/HAL/FL25 120V	20W	120V	25°	Med.	5000	—	1200	100	2900	3.4"	A
42512-4	PAR20 IRCE	39PAR20/EVP/SP10 120V	39W	120V	10°	Med.	1100	500	3800	100	3000	3.4"	B
42520-7	PAR20 IRCE	39PAR20/EVP/FL25 120V	39W	120V	25°	Med.	1100	500	850	100	3000	3.4"	B

Shipping Data (Subject to change without notice)

Product Number	SKU UPC	Outer Bar Code	Case Qty.	Case Weight lbs.	Case Cube cu. ft.	Pallet Qty.	Lamps/SKU	SKU/Layer	Layers High	SKU Dimensions (w x d x h) inches	Case Dimensions (w x d x h) inches	Pallet Dimensions (w x d x h) inches
Replaces Standard Philips PAR20 50W with 510 lumens and a rated average life of 3000 hours⁶												
40494-7	40494-9	40494-4	12	4.1	0.32	1080	1	180	10	2.4 x 2.4 x 3.7	9.8 x 12.4 x 4.6	47.2 x 39.4 x 33.3
15216-5	15216-1	15216-6	12	4.1	0.32	1080	1	180	10	2.4 x 2.4 x 3.7	9.8 x 12.4 x 4.6	47.2 x 39.4 x 33.3
42512-4	42512-8	42512-3	15	4.0	0.24	2970	1	270	11	2.4 x 3.5 x 0.27	13.0 x 8.0 x 4.0	46.9 x 38.4 x 46.8
42520-7	42520-3	42520-8	15	4.0	0.24	2970	1	270	11	2.4 x 3.5 x 0.27	13.0 x 8.0 x 4.0	46.9 x 38.4 x 46.8

4) Rated average life is the length of operation (in hours) at which point an average of 50% of the lamps will still be operational and 50% will not.

5) Maximum Beam Candlepower.

6) Replacement based on candela performance of each lamp. Results may vary by application.

See Product Bulletins for Warnings, Cautions and Instructions.



High efficacy, dimmable PAR30S halogen reflectors

Philips Energy Advantage PAR30S (short neck) Lamps can make your merchandise sparkle, with low operating costs.

Features

- Fully dimmable and instant-on
- Minimal UV/IR light in the beam
- Consistent, uniform beam pattern
- Contains no mercury
- Available in a variety of beam angles
- 4400 hour rated average life¹ for IRC+ lamps

Benefits

- Beautifully showcases merchandise
- Vibrant colors and textures you can feel with your eyes
- Lower maintenance cost through fewer re-lamps

Applications

- Accent lighting
- Fits track and recessed lighting luminaires
- Suitable for indoor or outdoor locations

¹) Rated average life is the length of operation (in hours) at which point an average of 50% of the lamps will still be operational and 50% will not.



EcoVantage PRO EVP PAR lamps deliver excellent light quality at a low initial cost.

Energy Advantage IRCE PAR lamps provide excellent light quality and long life ideal for retail applications.

Energy Advantage IRC+ PAR lamps maximize energy savings and life for a great return on investment.





Philips Halogen PAR30S Lamps

Put people and merchandise in the best light

Ordering, Electrical and Technical Data (Subject to change without notice)

Product Number	Bulb Type	Ordering Description	Halogen		Beam Angle	Base	Rated Avg. Life ¹	Lumens	Approx. MBCP ²	CRI	Color Temp	MOL
			watts	Volts								
Replaces Standard Philips PAR30S 60W with 785 lumens and a rated average life of 3000 hours³												
42891-2	PAR30S	39PAR30S/EVP/SPI0 120V 15/1	39W	120	10°	Med.	1100	530	6300	100	2900	3.6"
42896-0	PAR30S	39PAR30S/EVP/FL25 120V 15/1	39W	120	25°	Med.	1100	530	2000	100	2900	3.6"
23853-5	PAR30S	39PAR30S/IRC+/SPI0 120V 15/1	39W	120	10°	Med.	4400	650	11,000	100	2700	3.6"
23854-3	PAR30S	39PAR30S/IRC+/FL25 120V 15/1	39W	120	25°	Med.	4400	650	2200	100	2700	3.6"
23751-1	PAR30S	40PAR30S/IRCE/SPI0 120V 15/1	40W	120	10°	Med.	3000	640	8100	100	2700	3.6"
23729-7	PAR30S	40PAR30S/IRCE/FL25 120V 15/1	40W	120	25°	Med.	3000	640	2100	100	2700	3.6"
Replaces Standard Philips PAR30S 75W with 1020 lumens and a rated average life of 3000 hours³												
23730-5	PAR30S	50PAR30S/IRCE/SPI0 120V 15/1	50W	120	10°	Med.	3000	870	2900	100	2750	3.6"
23731-3	PAR30S	50PAR30S/IRCE/FL25 120V 15/1	50W	120	25°	Med.	3000	870	10,000	100	2750	3.6"
42888-8	PAR30S	53PAR30S/EVP/SPI0 120V 15/1	53W	120	10°	Med.	1100	920	10,000	100	2900	3.6"
42890-4	PAR30S	53PAR30S/EVP/FL25 120V 15/1	53W	120	25°	Med.	1100	920	3500	100	2900	3.6"
42898-6	PAR30S	53PAR30S/EVP/WFL40 120V 15/1	53W	120	40°	Med.	1100	920	1400	100	2900	3.6"
23855-0	PAR30S	55PAR30S/IRC+/SPI0 120V 15/1	55W	120	10°	Med.	4400	1015	13,000	100	2750	3.6"
23856-8	PAR30S	55PAR30S/IRC+/FL25 120V 15/1	55W	120	25°	Med.	4400	1015	3300	100	2750	3.6"
23857-6	PAR30S	55PAR30S/IRC+/WFL40 120V 15/1	55W	120	40°	Med.	4400	1015	1500	100	2750	3.6"

1) Rated average life is the length of operation (in hours) at which point an average of 50% of the lamps will still be operational and 50% will not.

2) Maximum Beam Candlepower.

3) Replacement based on candela performance of each lamp. Results may vary by application.

This energy saving example shows an application of 100 lamps in a space currently using 75W halogen PAR30S lamps, operating 4,000 hours per year at a cost of \$0.11 per kWh.⁴ Your actual savings may vary depending on the energy costs in your geographic location.

Replacing 100 standard incandescent 75W PAR30S lamps with Philips 50W Halogen PAR30S IRC+ lamps can provide significant energy cost savings of \$1,100 per year! Potential savings from the reduction in HVAC costs as a result of using a lower wattage lamp that emits less heat is an additional benefit not included in this example.

Saving Solution		
Estimated Lighting Costs Using a...	Standard 75W PAR30S Halogen Lamp	Philips 50W PAR30S IRC+ Halogen Lamp
Present Wattage	75 Watts	50 Watts
x Annual Operating Hours	4,000 hours	4,000 hours
	= 300,000 watt-hours	= 200,000 watt-hours
+ 1,000 =	= 300 kWh per year	= 200 kWh per year
x kWh rate of \$0.11	= \$33.00 per year	= \$22.00 per year
x 100 lamps per space	= \$3,300.00 annual energy cost per space	= \$2,200 annual energy cost per space
	Total Estimated Annual Savings⁵	= \$1,100.00

4) Based on a standard 75W halogen PAR30S vs. a Philips 50W halogen PAR30S IRC+.
 5) Based on 100 lamps per space operating at 4,000 hours per year

Which do I choose?

EcoVantage PRO EVP	Energy Advantage IRCE	Energy Advantage IRC Plus
<ul style="list-style-type: none"> • Entry level portfolio • EISA and DOE Rulemaking compliant • 1,100 rated average life* 	<ul style="list-style-type: none"> • Improved performance PAR for professional channel • Ideal for retail applications • EISA and DOE Rulemaking compliant • 3,000 rated average life* 	<ul style="list-style-type: none"> • Best TCO and highest LPW • Best energy savings • EISA and DOE Rulemaking compliant • 4,400 rated average life* 

Shipping Data (Subject to change without notice)

Product Number	SKU UPC	Outer Bar Code	Case Qty.	Case Weight lbs.	Case Cube cu. ft.	Pallet Qty.	Lamps/SKU	SKU/ Layer	Layers High	SKU Dimensions (w x d x h) inches	Case Dimensions (w x d x h) inches	Pallet Dimensions (w x d x h) inches
Replaces Standard Philips PAR30S 60W with 785 lumens and a rated average life of 3000 hours⁶												
42891-2	42891-4	42891-9	15	8	0.52	1485	1	135	11	3.4 x 3.4 x 4.0	10.8 x 17.7 x 4.7	46.2 x 39.3 x 51.2
42896-0	42896-9	42896-4	15	8	0.52	1485	1	135	11	3.4 x 3.4 x 4.0	10.8 x 17.7 x 4.7	46.2 x 39.3 x 51.2
23853-5	23853-7	23853-2	15	8	0.52	1485	1	135	11	3.4 x 3.4 x 4.0	10.8 x 17.7 x 4.7	46.2 x 39.3 x 51.2
23854-3	23854-4	23854-9	15	8	0.52	1485	1	135	11	3.4 x 3.4 x 4.0	10.8 x 17.7 x 4.7	46.2 x 39.3 x 51.2
23751-1	23728-8	23728-3	15	8	0.52	1485	1	135	11	3.4 x 3.4 x 4.0	10.8 x 17.7 x 4.7	46.2 x 39.3 x 51.2
23729-7	23729-5	23729-0	15	8	0.52	1485	1	135	11	3.4 x 3.4 x 4.0	10.8 x 17.7 x 4.7	46.2 x 39.3 x 51.2
Replaces Standard Philips PAR30S 75W with 1020 lumens and a rated average life of 3000 hours⁶												
23730-5	23730-1	23730-6	15	8	0.52	1485	1	135	11	3.4 x 3.4 x 4.0	10.8 x 17.7 x 4.7	46.2 x 39.3 x 51.2
23731-3	23731-8	23731-3	15	8	0.52	1485	1	135	11	3.4 x 3.4 x 4.0	10.8 x 17.7 x 4.7	46.2 x 39.3 x 51.2
42888-8	42888-4	42888-9	15	8	0.52	1485	1	135	11	3.4 x 3.4 x 4.0	10.8 x 17.7 x 4.7	46.2 x 39.3 x 51.2
42890-4	42890-7	42890-2	15	8	0.52	1485	1	135	11	3.4 x 3.4 x 4.0	10.8 x 17.7 x 4.7	46.2 x 39.3 x 51.2
42898-6	42898-3	42898-8	15	8	0.52	1485	1	135	11	3.4 x 3.4 x 4.0	10.8 x 17.7 x 4.7	46.2 x 39.3 x 51.2
23855-0	23855-1	23855-6	15	8	0.52	1485	1	135	11	3.4 x 3.4 x 4.0	10.8 x 17.7 x 4.7	46.2 x 39.3 x 51.2
23856-8	23856-8	23856-3	15	8	0.52	1485	1	135	11	3.4 x 3.4 x 4.0	10.8 x 17.7 x 4.7	46.2 x 39.3 x 51.2
23857-6	23857-5	23857-0	15	8	0.52	1485	1	135	11	3.4 x 3.4 x 4.0	10.8 x 17.7 x 4.7	46.2 x 39.3 x 51.2

6) Replacement based on candela performance of each lamp. Results may vary by application. See Product Bulletins for Warnings, Cautions and Instructions.



High efficacy, dimmable PAR30L halogen reflectors

Philips Energy Advantage IR PAR30L (long neck) Lamps create an enjoyable shopper experience with low operating costs.

Features

- Fully dimmable and instant-on
- Minimal UV/IR light in the beam
- Consistent, uniform beam pattern
- Contains no mercury
- Available in a variety of beam angles
- 4400 hour rated average life¹ for IRC+ lamps

Benefits

- Beautifully showcases merchandise
- Vibrant colors and textures you can feel with your eyes
- Lower maintenance cost through fewer re-lamps

Applications

- General and accent lighting
- Fits track and recessed lighting luminaires
- Suitable for indoor or outdoor locations

EcoVantage PRO EVP PAR lamps deliver excellent light quality at low initial cost.

Energy Advantage IRCE PAR lamps provide excellent light quality and long life ideal for retail applications.

Energy Advantage IRC+ PAR lamps maximize energy savings and life for a great return on investment.



¹) Rated average life is the length of operation (in hours) at which point an average of 50% of the lamps will still be operational and 50% will not.

This energy saving example shows an application of 100 lamps in a space currently using 75W halogen PAR30L lamps, operating 4,000 hours per year at a cost of \$0.11 per kWh.² Your actual savings may vary depending on the energy costs in your geographic location.

Replacing 100 standard incandescent 75W PAR30L lamps with Philips 50W Halogen PAR30L IRC+ lamps can provide significant energy cost savings of \$1,100 per year! Potential savings from the reduction in HVAC costs as a result of using a lower wattage lamp that emits less heat is an additional benefit not included in this example.

Saving Solution		
Estimated Lighting Costs Using a...	Standard 75W PAR30L Halogen Lamp	Philips 50W PAR30L IRC+ Halogen Lamp
Present Wattage	75 Watts	50 Watts
x Annual Operating Hours	4,000 hours	4,000 hours
	= 300,000 watt-hours	= 200,000 watt-hours
+ 1,000 =	= 300 kWh per year	= 200 kWh per year
x kWh rate of \$0.11	= \$33.00 per year	= \$22.00 per year
x 100 lamps per space	= \$3,300.00 annual energy cost per space	= \$2,200 annual energy cost per space
	Total Estimated Annual Savings³	= \$1100.00

2) Based on a standard 75W halogen PAR30L vs. a Philips 50W halogen PAR30L IRC+ lamp.
 3) Based on 100 lamps per space operating at 4,000 hours per year.



Philips Halogen PAR30L Lamps

Put people and merchandise in the best light

Ordering, Electrical and Technical Data (Subject to change without notice)

Product Number	Bulb Type	Ordering Description	Halogen		Beam Angle	Base	Rated Avg. Life ⁴		Lumens	Approx. MBCP ⁵	CRI	Color Temp	MOL
			watts	Volts			hours	hours					
Replaces Standard Halogen PAR30L 50W with 570 lumens and a rated average life of 3000 hours⁶													
42887-0	PAR30L	39PAR30L/EVP/FL25 120V 15/1	39W	120	25°	Med.	1100	520	2000	100	2900	4.5"	
Replaces Standard Halogen PAR30L 75W with 975 lumens and a rated average life of 3000 hours⁶													
42892-0	PAR30L	53PAR30L/EVP/FL25 120V 15/1	53W	120	25°	Med.	1100	920	3500	100	2900	4.5"	
42895-2	PAR30L	53PAR30L/EVP/WFL40 120V 15/1	53W	120	40°	Med.	1100	920	1400	100	2900	4.5"	
23799-0	PAR30L	50PAR30L/IRC/SP10 120V 15/1	50W	120	10°	Med.	4400	1000	12,000	100	2750	4.5"	
23429-4	PAR30L	50PAR30L/IRC/FL25 120V 15/1	50W	120	25°	Med.	4400	1000	3500	100	2750	4.5"	
23800-6	PAR30L	50PAR30L/IRC/WFL40 120V 15/1	50W	120	40°	Med.	4400	1000	1600	100	2750	4.5"	

Shipping Data (Subject to change without notice)

Product Number	SKU UPC	Outer Bar Code	Case Qty.	Case Weight	Case Cube	Pallet Qty.	Lamps/SKU	SKU/Layer	Layers High	SKU Dimensions	Case Dimensions	Pallet Dimensions
Replaces Standard Halogen PAR30L 50W with 570 lumens and a rated average life of 3000 hours⁶												
42887-0	42887-7	42887-2	15	8	0.629	1215	1	135	9	3.5 x 3.5 x 4.8	18.1 x 10.9 x 5.5	47.1 x 39.9 x 49.5
Replaces Standard Halogen PAR30L 75W with 975 lumens and a rated average life of 3000 hours⁶												
42892-0	42892-1	42892-6	15	8	0.629	1215	1	135	9	3.5 x 3.5 x 4.8	18.1 x 10.9 x 5.5	47.1 x 39.9 x 49.5
42895-2	42895-2	42895-7	15	8	0.629	1215	1	135	9	3.5 x 3.5 x 4.8	18.1 x 10.9 x 5.5	47.1 x 39.9 x 49.5
23799-0	23799-8	23799-3	15	8	0.629	1215	1	135	9	3.5 x 3.5 x 4.8	18.1 x 10.9 x 5.5	47.1 x 39.9 x 49.5
23429-4	23429-4	23429-9	15	8	0.629	1215	1	135	9	3.5 x 3.5 x 4.8	18.1 x 10.9 x 5.5	47.1 x 39.9 x 49.5
23800-6	23800-1	23800-6	15	8	0.629	1215	1	135	9	3.5 x 3.5 x 4.8	18.1 x 10.9 x 5.5	47.1 x 39.9 x 49.5

4) Rated average life is the length of operation (in hours) at which point an average of 50% of the lamps will still be operational and 50% will not.
 5) Maximum Beam Candlepower.
 6) Replacement based on candela performance of each lamp. Results may vary by application.
 See Product Bulletins for Warnings, Cautions and Instructions.



Energy efficient PAR38 halogen reflector lamps

Philips Energy Advantage IR PAR38 Lamps with high efficacy combine visual appeal with energy savings.

Choose the right Philips PAR38 lamp for your application

- Choose IRC Economy (IRCE) lamps for the benefits of halogen PAR lamps with the low acquisition cost
- Choose IRC Plus (IRC+) lamps for longer life. They last 40% longer than IRCE lamps and offer the best return on investment*

Features

- Fully dimmable and instant-on
- Minimal UV/IR light in the beam
- Consistent, uniform beam pattern
- Contains no mercury
- Available in a variety of beam angles
- 4400 hour rated average life¹ for IRC+ lamps

Benefits

- Beautifully showcases merchandise
- Vibrant colors and textures you can feel with your eyes
- Lower maintenance cost through fewer re-lamps

Applications

- Accent and general lighting
- Fits track and recessed lighting luminaires
- Suitable for indoor or outdoor locations

* $(IRC+ \text{ Life} - IRCE \text{ life}) / IRCE \text{ Life} = \% \text{ longer life}$

¹) Rated average life is the length of operation (in hours) at which point an average of 50% of the lamps will still be operational and 50% will not.

EcoVantage PRO EVP PAR lamps deliver excellent light quality at low initial cost.

Energy Advantage IRCE PAR lamps provide excellent light quality and long life ideal for retail applications.

Energy Advantage IRC+ PAR lamps maximize energy savings and life for a great return on investment.



This energy saving example shows an application of 100 lamps in a space currently using 60W halogen PAR38 lamps, operating 4,000 hours per year at a cost of \$0.11 per kWh.¹ Your actual savings may vary depending on the energy costs in your geographic location.

Replacing 100 standard incandescent 60W PAR38 lamps with Philips 39W Halogen PAR38 IRC+ lamps can provide significant energy cost savings of \$924 per year! Potential savings from the reduction in HVAC costs as a result of using a lower wattage lamp that emits less heat is an additional benefit not included in this example.

Saving Solution		
Estimated Lighting Costs Using a...	Standard 60W PAR38 Halogen Lamp	Philips 39W PAR38 IRC+ Lamp
Present Wattage	60 Watts	39 Watts
x Annual Operating Hours	4,000 hours	4,000 hours
	= 240,000 watt-hours	= 156,000 watt-hours
+ 1,000 =	= 240 kWh per year	= 156 kWh per year
x kWh rate of \$0.11	= \$26.40 per year	= \$17.16 per year
x 100 lamps per space	= \$2,640.00 annual energy cost per space	= \$1,716.00 annual energy cost per space
	Total Estimated Annual Savings²	= \$924.00

- 1) Based on a standard 60W halogen PAR38 with a rated average life of 4000 hours vs. a Philips 39W halogen PAR38 IRC+ with a rated average life of 4000 hours.
 2) Based on 100 lamps per space operating at 4,000 hours per year.



Philips Halogen PAR38 EVP Lamps

Bright light with low acquisition cost

Ordering, Electrical and Technical Data (Subject to change without notice)

Product Number	Bulb Type	Ordering Description	Halogen watts	Volts	Beam Angle	Base	Rated Avg. Life ³ hours	Lumens	Approx. MBCP ⁴	CRI	Color Temp kelvin	MOL inches
Replaces Standard Halogen PAR38 45W with 540 lumens and a rated average life of 3000 hours³												
42886-2	PAR38	39PAR38/EVP/SPI0 120V 12/1	39W	120V	10°	Med.	1100	570	7000	100	2900	5.3"
42884-7	PAR38	39PAR38/EVP/FL25 120V 12/1	39W	120V	25°	Med.	1100	570	2100	100	2900	5.3"
Replaces Standard Halogen PAR38 75W with 1025 lumens and a rated average life of 3000 hours³												
42889-6	PAR38	53PAR38/EVP/SPI0 120V 12/1	53W	120V	10°	Med.	1100	920	11,000	100	2900	5.3"
42885-4	PAR38	53PAR38/EVP/FL25 120V 12/1	53W	120V	25°	Med.	1100	920	3250	100	2900	5.3"
Replaces Standard Halogen PAR38 90W with 1340 lumens and a rated average life of 3000 hours³												
42894-6	PAR38	72PAR38/EVP/SPI0 120V 12/1	72W	120V	10°	Med.	1100	1350	16,000	100	2900	5.3"
42893-8	PAR38	72PAR38/EVP/FL25 120V 12/1	72W	120V	25°	Med.	1100	1350	4700	100	2900	5.3"

Shipping Data (Subject to change without notice)

Product Number	SKU UPC	Outer Bar Code	Case Qty.	Case Weight lbs.	Case Cube cu. ft.	Pallet Qty.	Lamps/SKU	SKU/ Layer	Layers High	SKU Dimensions (w x d x h) inches	Case Dimensions (w x d x h) inches	Pallet Dimensions (w x d x h) inches
Replaces Standard Halogen PAR38 45W with 540 lumens and a rated average life of 3000 hours³												
42886-2	42886-0	42886-5	12	10.6	0.85	720	180	1	4	4.3 x 4.3 x 5.4	9.0 x 13.6 x 11.9	45.3 x 40.7 x 47.5
42884-7	42884-6	42884-1	12	10.6	0.85	720	180	1	4	4.3 x 4.3 x 5.4	9.0 x 13.6 x 11.9	45.3 x 40.7 x 47.5
Replaces Standard Halogen PAR38 75W with 1025 lumens and a rated average life of 3000 hours³												
42889-6	42889-1	42889-6	12	10.6	0.85	720	180	1	4	4.3 x 4.3 x 5.4	9.0 x 13.6 x 11.9	45.3 x 40.7 x 47.5
42885-4	42885-3	42885-8	12	10.6	0.85	720	180	1	4	4.3 x 4.3 x 5.4	9.0 x 13.6 x 11.9	45.3 x 40.7 x 47.5
Replaces Standard Halogen PAR38 90W with 1340 lumens and a rated average life of 3000 hours³												
42894-6	42894-5	42894-0	12	10.6	0.85	720	180	1	4	4.3 x 4.3 x 5.4	9.0 x 13.6 x 11.9	45.3 x 40.7 x 47.5
42893-8	42893-8	42893-3	12	10.6	0.85	720	180	1	4	4.3 x 4.3 x 5.4	9.0 x 13.6 x 11.9	45.3 x 40.7 x 47.5

- 3) Rated average life is the length of operation (in hours) at which point an average of 50% of the lamps will still be operational and 50% will not.
 4) Maximum Beam Candlepower.
 3) Replacement based on candela performance of each lamp. Results may vary by application.



Philips Halogen PAR38 IRCE Lamps

The benefits of halogen PAR with a low acquisition cost

Ordering, Electrical and Technical Data (Subject to change without notice)

Product Number	Bulb Type	Ordering Description	Halogen watts	Volts	Beam Angle	Base	Rated Avg. Life ¹ hours	Lumens	Approx. MBCP ²	CRI	Color Temp kelvin	MOL inches
Replaces Standard Halogen PAR38 75W with 1025 lumens and a rated average life of 3000 hours³												
23733-9	PAR38	50PAR38/IRCE/SP10 120V 12/1	50W	120V	10°	Med.	3000	900	11,000	100	2750	5.3"
23734-7	PAR38	50PAR38/IRCE/FL25 120V 12/1	50W	120V	25°	Med.	3000	900	3000	100	2750	5.3"
Replaces Standard Halogen PAR38 90W with 1340 lumens and a rated average life of 3000 hours³												
23739-6	PAR38	60PAR38/IRCE/SP10 120V 12/1	60W	120V	10°	Med.	3000	1100	13,500	100	2750	5.3"
23744-6	PAR38	60PAR38/IRCE/FL25 120V 12/1	60W	120V	25°	Med.	3000	1100	3800	100	2750	5.3"

Shipping Data (Subject to change without notice)

Product Number	SKU UPC	Outer Bar Code	Case Qty.	Case Weight lbs.	Case Cube cu. ft.	Pallet Qty.	Lamps/SKU	SKU/Layer	Layers High	SKU Dimensions (w x d x h) inches	Case Dimensions (w x d x h) inches	Pallet Dimensions (w x d x h) inches
Replaces Standard Halogen PAR38 75W with 1025 lumens and a rated average life of 3000 hours³												
23733-9	23733-2	23733-7	12	10.6	0.85	720	180	1	9	3.5 x 3.5 x 4.8	18.1 x 10.9 x 5.5	47.1 x 39.9 x 49.5
23734-7	23734-9	23734-4	12	10.6	0.85	720	180	1	9	3.5 x 3.5 x 4.8	18.1 x 10.9 x 5.5	47.1 x 39.9 x 49.5
Replaces Standard Halogen PAR38 90W with 1340 lumens and a rated average life of 3000 hours³												
23739-6	23739-4	23739-9	12	10.6	0.85	720	180	1	9	3.5 x 3.5 x 4.8	18.1 x 10.9 x 5.5	47.1 x 39.9 x 49.5
23744-6	23744-8	23744-3	12	10.6	0.85	720	180	1	9	3.5 x 3.5 x 4.8	18.1 x 10.9 x 5.5	47.1 x 39.9 x 49.5

1) Rated average life is the length of operation (in hours) at which point an average of 50% of the lamps will still be operational and 50% will not.

2) Maximum Beam Candlepower.

3) Replacement based on candela performance of each lamp. Results may vary by application.

See Product Bulletins for Warnings, Cautions and Instructions.



Philips Halogen PAR38 IRC Plus Lamps

Last longer than PAR38 IRCE and offer the best return on investment

Ordering, Electrical and Technical Data (Subject to change without notice)

Product Number	Bulb Type	Ordering Description	Halogen watts	Volts	Beam Angle	Base	Rated Avg. Life ¹ hours	Lumens	Approx. MBCP ²	CRI	Color Temp kelvin	MOL inches
Replaces Standard Halogen PAR38 60W with 800 lumens and a rated average life of 3000 hours³												
23844-4	PAR38	39PAR38/IRC+/SPI0 120V I2/I	39W	120V	10°	Med.	4400	720	11,000	100	2700	5.3"
23845-1	PAR38	39PAR38/IRC+/FL25 120V I2/I	39W	120V	25°	Med.	4400	720	2500	100	2700	5.3"
Replaces Standard Halogen PAR38 90W with 1340 lumens and a rated average life of 3000 hours³												
23847-7	PAR38	55PAR38/IRC+/SPI0 120V I2/I	55W	120V	10°	Med.	4400	1100	16,500	100	2750	5.3"
23865-9	PAR38	55PAR38/IRC+/FL25 120V I2/I	55W	120V	25°	Med.	4400	1100	4100	100	2750	5.3"
23849-3	PAR38	55PAR38/IRC+/WFL40 120V I2/I	55W	120V	40°	Med.	4400	1100	1800	100	2750	5.3"
Replaces Standard Halogen PAR38 100W with 1500 lumens and a rated average life of 3000 hours³												
13861-0	PAR38	70PAR38/IRC/HAL/SPI0 120V	70W	120V	10°	Med.	4400	1500	17,800	100	2750	5.3"
13862-8	PAR38	70PAR38/IRC/HAL/FL25 120V	70W	120V	25°	Med.	4400	1500	6170	100	2750	5.3"
13863-6	PAR38	70PAR38/IRC/HAL/WFL40 120V	70W	120V	40°	Med.	4400	1500	2320	100	2750	5.3"
Replaces Standard Halogen PAR38 120W with 1900 lumens and a rated average life of 2500 hours³												
23850-1	PAR38	83PAR38/IRC+/SPI0 120V I2/I	83W	120V	10°	Med.	4400	1750	25,000	100	2750	5.3"
23851-9	PAR38	83PAR38/IRC+/FL25 120V I2/I	83W	120V	25°	Med.	4400	1750	7000	100	2750	5.3"
23852-7	PAR38	83PAR38/IRC+/WFL40 120V I2/I	83W	120V	40°	Med.	4400	1750	3000	100	2750	5.3"
Replaces Standard Halogen PAR38 150W with 2400 lumens and a rated average life of 2500 hours³												
13876-8	PAR38	100PAR38/IRC/SPI0 120V I2PK	100W	120V	10°	Med.	4400	2150	26,400	100	2750	5.3"
13877-6	PAR38	100PAR38/IRC/FL25 120V	100W	120V	25°	Med.	4400	2150	8500	100	2750	5.3"
13878-4	PAR38	100PAR38/IRC/WFL40 120V I2PK	100W	120V	40°	Med.	4400	2150	3500	100	2750	5.3"

Shipping Data (Subject to change without notice)

Product Number	SKU UPC	Outer Bar Code	Case Qty.	Case Weight lbs.	Case Cube cu. ft.	Pallet Qty.	Lamps/SKU	SKU/Layer	Layers High	SKU Dimensions (w x d x h) inches	Case Dimensions (w x d x h) inches	Pallet Dimensions (w x d x h) inches
Replaces Standard Halogen PAR38 60W with 800 lumens and a rated average life of 3000 hours³												
23844-4	23844-5	23844-0	12	10.6	0.85	720	1	180	4	4.3 x 4.3 x 5.4	9.1 x 13.6 x 11.9	45.3 x 40.7 x 47.5
23845-1	23845-2	23845-7	12	10.6	0.85	720	1	180	4	4.3 x 4.3 x 5.4	9.1 x 13.6 x 11.9	45.3 x 40.7 x 47.5
Replaces Standard Halogen PAR38 90W with 1340 lumens and a rated average life of 3000 hours³												
23847-7	23847-6	23847-1	12	10.6	0.85	720	1	180	4	4.3 x 4.3 x 5.4	9.1 x 13.6 x 11.9	45.3 x 40.7 x 47.5
23865-9	23865-0	23865-5	12	10.6	0.85	720	1	180	4	4.3 x 4.3 x 5.4	9.1 x 13.6 x 11.9	45.3 x 40.7 x 47.5
23849-3	23849-0	23849-5	12	10.6	0.85	720	1	180	4	4.3 x 4.3 x 5.4	9.1 x 13.6 x 11.9	45.3 x 40.7 x 47.5
Replaces Standard Halogen PAR38 100W with 1500 lumens and a rated average life of 3000 hours³												
13861-0	13861-5	13861-0	12	10.6	0.85	720	1	180	4	4.3 x 4.3 x 5.4	9.1 x 13.6 x 11.9	45.3 x 40.7 x 47.5
13862-8	13862-2	13862-7	12	10.6	0.85	720	1	180	4	4.3 x 4.3 x 5.4	9.1 x 13.6 x 11.9	45.3 x 40.7 x 47.5
13863-6	13863-9	13863-4	12	10.6	0.85	720	1	180	4	4.3 x 4.3 x 5.4	9.1 x 13.6 x 11.9	45.3 x 40.7 x 47.5
Replaces Standard Halogen PAR38 120W with 1900 lumens and a rated average life of 2500 hours³												
23850-1	23850-6	23850-1	12	10.6	0.85	720	1	180	4	4.3 x 4.3 x 5.4	9.1 x 13.6 x 11.9	45.3 x 40.7 x 47.5
23851-9	23851-3	23851-8	12	10.6	0.85	720	1	180	4	4.3 x 4.3 x 5.4	9.1 x 13.6 x 11.9	45.3 x 40.7 x 47.5
23852-7	23852-0	23852-5	12	10.6	0.85	720	1	180	4	4.3 x 4.3 x 5.4	9.1 x 13.6 x 11.9	45.3 x 40.7 x 47.5
Replaces Standard Halogen PAR38 150W with 2400 lumens and a rated average life of 2500 hours³												
13876-8	13876-9	13876-4	12	10.6	0.85	720	1	180	4	4.3 x 4.3 x 5.4	9.1 x 13.6 x 11.9	45.3 x 40.7 x 47.5
13877-6	13877-6	13877-1	12	10.6	0.85	720	1	180	4	4.3 x 4.3 x 5.4	9.1 x 13.6 x 11.9	45.3 x 40.7 x 47.5
13878-4	13878-3	13878-8	12	10.6	0.85	720	1	180	4	4.3 x 4.3 x 5.4	9.1 x 13.6 x 11.9	45.3 x 40.7 x 47.5

1) Rated average life is the length of operation (in hours) at which point an average of 50% of the lamps will still be operational and 50% will not.

2) Maximum Beam Candlepower.

3) Replacement based on candela performance of each lamp. Results may vary by application.

See Product Bulletins for Warnings, Cautions and Instructions.



Energy efficient halogen flood lamps

Philips Energy Advantage IR Reflector Lamps make it easy to optimize the look and feel of your merchandise, and the shoppers experience, with lower operating costs.

Features

- High efficacy halogen burner
- Fully dimmable and instant-on
- Minimal UV/IR light in the beam
- Contains no mercury
- Meets EISA legislation requirements
- 3000 hour rated average life¹

Benefits

- Beautifully showcases merchandise
- Vibrant colors and textures you can feel with your eyes
- Lower maintenance cost through fewer re-lamps

Applications

- Downlighting
- Fits track and recessed lighting luminaires
- Suitable for indoor locations

¹) Rated average life is the length of operation (in hours) at which point an average of 50% of the lamps will still be operational and 50% will not.



This example shows an application of 100 lamps accenting a space currently using standard 120W BR40 halogen lamps, operating 3,000 hours per year at a cost of \$0.11 per kWh.² Your actual savings may vary depending on the energy costs in your geographic location.

Replacing 100 standard 120W BR40 halogen lamps with Philips 70W Energy Advantage BR40 lamps can provide significant energy cost savings of \$1,650 per year! Potential savings from the reduction in HVAC costs as a result of using a low wattage lamp that emits less heat is an additional benefit not included in this example.

Saving Solution		
Estimated Lighting Costs Using a...	Standard 120W Halogen BR40 Lamp	Philips 70W Energy Advantage BR40 Lamp
Present Wattage	120 Watts	70 Watts
x Annual Operating Hours	3,000 hours	3,000 hours
	= 360,000 watt-hours	= 210,000 watt-hours
+ 1,000 =	= 360 kWh per year	= 210 kWh per year
x kWh rate of \$0.11	= \$39.60 per year	= \$23.10 per year
x 100 lamps per space	= \$3,960.00 annual energy cost per space	= \$2,310.00 annual energy cost per space
	Total Estimated Annual Savings³	= \$1,650.00

2) Based on a standard 120W halogen BR40 vs. a Philips 70W Halogen Energy Advantage BR40.
 3) Based on 100 lamps per space operating at 3,000 hours per year

Philips Halogen Energy Advantage IR, R, and BR Lamps

Energy savings without sacrifice



Ordering, Electrical and Technical Data (Subject to change without notice)

Product Number	Bulb Type	Ordering Description	Halogen watts	Volts	Beam Angle	Base	Rated Avg. Life ⁴ hours	Lumens	Approx. MBCP ⁵	CRI	Color Temp kelvin	MOL inches	Key
Replace Incandescent R20 75W with 570 lumens and a rated average life of 2000 hours⁶													
22236-4	R20	40R20/HEA/FL 120V 12/1	40W	120V	65°	Med.	3000	570	—	100	2800	3.9"	A
Replace Incandescent BR30 Lamps													
21359-5	BR30	40BR30/HEA/FL 120V 12/1	40W	120V	65°	Med.	3000	600	2250	100	2800	5.4"	B
22994-8	BR30	50BR30/HEA/FL 120V 12/1	50W	120V	65°	Med.	3000	800	—	100	2900	5.4"	B
Replace Incandescent BR40 Lamps													
22238-0	BR40	40BR40/HEA/FL 120V 12/1	40W	120V	65°	Med.	3000	630	—	100	2800	6.5"	C
22997-1	BR40	70BR40/HEA/FL 120V 12/1	70W	120V	65°	Med.	3000	1280	—	100	2900	6.5"	C

Shipping Data (Subject to change without notice)

Product Number	SKU UPC	Outer Bar Code	Case Qty.	Case Weight lbs.	Case Cube cu. ft.	Pallet Qty.	Lamps/SKU	SKU/Layer	Layers High	SKU Dimensions (w x d x h) inches	Case Dimensions (w x d x h) inches	Pallet Dimensions (w x d x h) inches
Replace Incandescent R20 75W with 570 lumens and a rated average life of 2000 hours⁶												
22236-4	22236-9	22236-4	12	1.5	0.216	2400	1	240	10	2.4 x 2.4 x 4.1	10.1 x 7.8 x 4.8	40.5 x 38.8 x 47.5
Replace Incandescent BR30 Lamps												
21359-5	21359-6	21359-1	12	3.4	0.606	840	1	120	7	3.6 x 3.6 x 5.4	14.9 x 11.4 x 6.1	45.8 x 37.8 x 42.9
22994-8	22994-8	22994-3	12	3.4	0.606	840	1	120	7	3.6 x 3.6 x 5.4	14.9 x 11.4 x 6.1	45.8 x 37.8 x 42.9
Replace Incandescent BR40 Lamps												
22238-0	22238-8	22238-3	12	4.7	1.175	468	1	156	3	4.7 x 4.7 x 6.5	14.9 x 9.8 x 14.0	48.8 x 39.5 x 42.0
22997-1	22997-9	22997-4	12	4.7	1.175	468	1	156	3	4.7 x 4.7 x 6.5	14.9 x 9.8 x 14.0	48.8 x 39.5 x 42.0

4) Rated average life is the length of operation (in hours) at which point an average of 50% of the lamps will still be operational and 50% will not.
 5) Maximum Beam Candlepower.
 6) Replacement based on candle performance of each lamp. Results may vary by application.
 See Product Bulletins for Warnings, Cautions and Instructions.



A bright energy saving alternative to standard incandescents

Philips EcoVantage A19 Lamps reduce energy consumption without sacrificing the qualities of a traditional lamp.

Features

- Available in three finishes—soft white, natural light, clear
- Fully dimmable and instant-on
- Contains no mercury
- Perfect color rendering of 100 CRI
- At least 1000 hour rated average life¹

Benefits

- Soft white light for warm colors and natural wood finishes
- Natural light provides light similar to natural daylight
- Clear for added sparkle
- Same light qualities as an incandescent

Applications

- Ambient lighting
- Suitable for table and floor lamps

¹) See Specification Chart for further details. Rated average life is the length of operation (in hours) at which point an average of 50% of the lamps will still be operational and 50% will not.





Philips EcoVantage A19 Lamps

Energy savings without sacrifice

Ordering, Electrical and Technical Data (Subject to change without notice)

Product Number	Bulb Type	Ordering Description	Halogen	Volts	Bulb Finish	Base	Rated Avg. Life ¹	Lumens	CRI	Color Temp	MOL	Key
			watts				hours		kelvin	inches		
Replace a Standard Incandescent A19 40W with 490 lumens and a rated average life of 1000 hours²												
40983-9	A19	29A19/EV 120V 12/2	29W	120V	White	Med.	1000	380	100	2900	4.4"	B
41050-6	A19	29A19/EV/CL 120V 12/2	29W	120V	Clear	Med.	1000	380	100	2900	4.4"	A
Replace a Standard Incandescent A19 60W with 860 lumens and a rated average life of 1000 hours²												
40984-7	A19	43A19/EV 120V 12/2	43W	120V	White	Med.	1000	750	100	2900	4.4"	B
41049-8	A19	43A19/EV/CL 120V 12/2	43W	120V	Clear	Med.	1000	750	100	2900	4.4"	A
22695-1	A19	43A19/EV/NTL 120V 12/2	43W	120V	Nat. Lt.	Med.	1250	630	100	2900	4.4"	C
Replace a Standard Incandescent A19 75W with 950 lumens and a rated average life of 750 hours²												
22696-9	A19	53A19/EV/NTL 120V 12/2	53W	120V	Nat. Lt.	Med.	1250	830	100	2900	4.4"	C
Replace a Standard Incandescent A19 100W with 1650 lumens and a rated average life of 750 hours²												
40982-1	A19	72A19/EV 120V 12/2	72W	120V	White	Med.	1000	1500	100	2900	4.4"	B
41048-0	A19	72A19/EV/CL 120V 12/2	72W	120V	Clear	Med.	1000	1500	100	2900	4.4"	A
22699-3	A19	72A19/EV/NTL 120V 12/2	72W	120V	Nat. Lt.	Med.	1250	1200	100	2900	4.4"	C

1) Rated average life is the length of operation (in hours) at which point an average of 50% of the lamps will still be operational and 50% will not.

2) Replacement based on lumen performance of each lamp. Results may vary by application.

This example shows an application of 100 lamps accenting a space currently using standard 100W A-Shape incandescent lamps, operating 1,000 hours per year at a cost of \$0.11 per kWh.³ Your actual savings may vary depending on the energy costs in your geographic location.

Replacing 100 standard 100W A-Shape incandescent lamps with Philips 72W EcoVantage A-Shape lamps can provide significant energy cost savings of \$308 per year! Potential savings from the reduction in HVAC costs as a result of using a low wattage lamp that emits less heat is an additional benefit not included in this example.

Saving Solution		
Estimated Lighting Costs Using a...	Standard 100W A-Shape Incandescent Lamp	Philips 72W EcoVantage A-Shape Lamp
Present Wattage	100 Watts	72 Watts
x Annual Operating Hours	1,000 hours	1,000 hours
	= 100,000 watt-hours	= 72,000 watt-hours
+ 1,000 =	= 100 kWh per year	= 72 kWh per year
x kWh rate of \$0.11	= \$11.00 per year	= \$7.92 per year
x 100 lamps per space	= \$1,100.00 annual energy cost per space	= \$792.00 annual energy cost per space
	Total Estimated Annual Savings⁴	= \$308.00

3) Based on a standard 100W incandescent A-shape vs. a Philips 72W EcoVantage A-shape.

4) Based on 100 lamps per space operating at 1,000 hours per year.

Shipping Data (Subject to change without notice)

Product Number	SKU UPC	Outer Bar Code	Case Qty.	Case Weight	Case Cube	Pallet Qty.	Lamps/SKU	SKU/ Layer	Layers High	SKU Dimensions	Case Dimensions	Pallet Dimensions
	(0-46677)	(5-00-46677)		lbs.	cu. ft.					(w x d x h) inches	(w x d x h) inches	(w x d x h) inches
Replace a Standard Incandescent A19 40W with 490 lumens and a rated average life of 1000 hours⁵												
40983-9	40983-8	40983-3	24	3.5	0.697	1440	1	120	12	4.0 x 2.5 x 4.1	16.2 x 9.1 x 4.8	48.6 x 36.3 x 48.1
41050-6	41050-6	41050-1	24	3.5	0.697	1440	1	120	12	4.0 x 2.5 x 4.1	16.2 x 9.1 x 4.8	48.6 x 36.3 x 48.1
Replace a Standard Incandescent A19 60W with 860 lumens and a rated average life of 1000 hours⁵												
40984-7	40984-5	40984-0	24	3.5	0.697	1440	1	120	12	4.0 x 2.5 x 4.1	16.2 x 9.1 x 4.8	48.6 x 36.3 x 48.1
41049-8	41049-0	41049-5	24	3.5	0.697	1440	1	120	12	4.0 x 2.5 x 4.1	16.2 x 9.1 x 4.8	48.6 x 36.3 x 48.1
22695-1	22695-4	22695-9	24	3.5	0.697	1440	1	120	12	4.0 x 2.5 x 4.1	16.2 x 9.1 x 4.8	48.6 x 36.3 x 48.1
Replace a Standard Incandescent A19 75W with 950 lumens and a rated average life of 750 hours⁵												
22696-9	22696-1	22696-6	24	3.5	0.697	1440	1	120	12	4.0 x 2.5 x 4.1	16.2 x 9.1 x 4.8	48.6 x 36.3 x 48.1
Replace a Standard Incandescent A19 100W with 1650 lumens and a rated average life of 750 hours⁵												
40982-1	40982-1	40982-6	24	3.5	0.697	1440	1	120	12	4.0 x 2.5 x 4.1	16.2 x 9.1 x 4.8	48.6 x 36.3 x 48.1
41048-0	41048-3	41048-8	24	3.5	0.697	1440	1	120	12	4.0 x 2.5 x 4.1	16.2 x 9.1 x 4.8	48.6 x 36.3 x 48.1
22699-3	22699-2	22699-7	24	3.5	0.697	1440	1	120	12	4.0 x 2.5 x 4.1	16.2 x 9.1 x 4.8	48.6 x 36.3 x 48.1

5) Replacement based on lumen performance of each lamp. Results may vary by application.

See Product Bulletins for Warnings, Cautions and Instructions.



Decorative halogen lamps

Philips EcoVantage energy saving candles and globes reduce energy consumption without sacrificing the qualities of a traditional lamp.

Features

- Bright, sparkling halogen light
- Fully dimmable and instant-on
- Contains no mercury
- Candelabra or medium base
- 100 CRI

Benefits

- Available in two finishes, soft white and clear to suit most applications
- Same light qualities as an incandescent

Applications

- Accent and decorative lighting
- Operates in any orientation



Philips EcoVantage Decorative Globes

A bright alternative



Ordering, Electrical and Technical Data (Subject to change without notice)

Product Number	Bulb Type	Ordering Description	Halogen	Volts	Bulb Finish	Base	Rated Avg. Life ¹	Lumens	CRI	Color Temp	MOL	Key
			watts				hours		kelvin	inches		
Compare to an Incandescent 40W Decorative Globe²												
42086-9	G16.5	BC25G16½C/EV/CL 120V 6/2 TP	25W	120V	Clear	Cand.	2500	270	100	2800	2.8"	A
42087-7	G16.5	BC25G16½C/EV/W 120V 6/2 TP	25W	120V	White	Cand.	2500	245	100	2800	2.8"	B
42423-4	G25	25G25/EV/CL 120V 12/I TP	25W	120V	Clear	Med.	2200	280	100	2800	4.4"	C
42424-2	G25	25G25/EV/W 120V 12/I TP	25W	120V	White	Med.	2200	255	100	2800	4.4"	D
Compare to an Incandescent 60W Decorative Globe²												
42084-4	G25	40G25/EV/CL 120V 12/I TP	40W	120V	Clear	Med.	2500	550	100	2800	4.4"	C
42085-1	G25	40G25/EV/W 120V 12/I TP	40W	120V	White	Med.	2500	500	100	2800	4.4"	D

Philips EcoVantage Decorative Candles

A bright alternative



Ordering, Electrical and Technical Data (Subject to change without notice)

Product Number	Bulb Type	Ordering Description	Halogen	Volts	Bulb Finish	Base	Rated Avg. Life ¹	Lumens	CRI	Color Temp	MOL	Key
			watts				hours		kelvin	inches		
Replaces a 40W Incandescent Candle with 300 lumens and a rated average life of 2000 hours²												
41919-2	B10.5	25B10.5/E12/EV/CL 120V 6/2	25W	120V	Clear	Cand.	3000	300	100	2800	3.9"	A
41917-6	BA9	25BA9C/EV/CL 120V 6/2	25W	120V	Clear	Cand.	3000	300	100	2800	3.9"	B
42425-9	BA11	25BA11/E26/EV/CL 120V	25W	120V	Clear	Med.	2500	280	100	2800	3.9"	C
42427-5	B11	25B11/E26/EV/CL 120V	25W	120V	Clear	Med.	2500	280	100	2800	3.9"	D
Replaces a 60W Incandescent Candle with 550 lumens and a rated average life of 2000 hours²												
41920-0	B10.5	40B10.5/E12/EV/CL 120V 6/2	40W	120V	Clear	Cand.	3000	540	100	2800	3.9"	A
41918-4	BA9	40BA9C/EV/CL 120V 6/2	40W	120V	Clear	Cand.	3000	540	100	2800	3.9"	B
42426-7	BA11	40BA11/E26/EV/CL 120V	40W	120V	Clear	Med.	2500	540	100	2800	3.9"	C
42428-3	B11	40B11/E26/EV/CL 120V	40W	120V	Clear	Med.	2500	540	100	2800	3.9"	D
Replaces a 100W Incandescent F-Shape with 1250 lumens and a rated average life of 4000 hours²												
42385-5	F15	72F15/EV/CL 120V 4/I TP	72W	120V	Clear	Med.	1000	1490	100	2900	4.8"	E

1) Rated average life is the length of operation (in hours) at which point an average of 50% of the lamps will still be operational and 50% will not.
2) Replacement based on lumen performance of each lamp. Results may vary by application.



Shipping Data (Subject to change without notice)

Product Number	SKU UPC	Outer Bar Code	Case Qty.	Case Weight	Case Cube	Pallet Qty.	Lamps/SKU	SKU/Layer	Layers High	SKU Dimensions	Case Dimensions	Pallet Dimensions
	(0-46677)	(5-00-46677)		lbs.	cu. ft.					(w x d x h) inches	(w x d x h) inches	(w x d x h) inches
Compare to an Incandescent 40W Decorative Globe³												
42423-4	42423-7	42423-2	12	3.8	0.361	1440	1	144	10	3.1 x 4.3 x 0.3	13.1 x 10.2 x 4.7	40.8 x 39.2 x 47.8
42424-2	42424-4	42424-9	12	3.8	0.361	1440	1	144	10	3.1 x 4.3 x 0.3	13.1 x 10.2 x 4.7	40.8 x 39.2 x 47.8
42084-4	42084-0	42084-5	12	3.8	0.361	1440	1	144	10	3.1 x 4.3 x 0.3	13.1 x 10.2 x 4.7	40.8 x 39.2 x 47.8
42085-1	42085-7	42085-2	12	3.8	0.361	1440	1	144	10	3.1 x 4.3 x 0.3	13.1 x 10.2 x 4.7	40.8 x 39.2 x 47.8
Compare to an Incandescent 60W Decorative Globe³												
42086-9	42086-4	42086-9	6	1.1	0.292	936	1	156	6	1.8 x 7.0 x 0.2	15.2 x 4.5 x 7.4	45.6 x 39.4 x 44.3
42087-7	42087-1	42087-6	6	1.1	0.292	936	1	156	6	1.8 x 7.0 x 0.2	15.2 x 4.5 x 7.4	45.6 x 39.4 x 44.3

Shipping Data (Subject to change without notice)

Product Number	SKU UPC	Outer Bar Code	Case Qty.	Case Weight	Case Cube	Pallet Qty.	Lamps/SKU	SKU/Layer	Layers High	SKU Dimensions	Case Dimensions	Pallet Dimensions
	(0-46677)	(5-00-46677)		lbs.	cu. ft.					(w x d x h) inches	(w x d x h) inches	(w x d x h) inches
Replaces a 40W Incandescent Candle with 300 lumens and a rated average life of 2000 hours³												
41919-2	41919-6	41919-1	6	0.924	0.267	1008	1	168	6	1.5 x 7.0 x 0.2	12.1 x 5.2 x 7.4	48.0 x 40.0 x 44.6
41917-6	41917-2	41917-7	6	0.924	0.267	1008	1	168	6	1.5 x 7.0 x 0.2	12.1 x 5.2 x 7.4	48.0 x 40.0 x 44.6
42425-9	42425-1	42425-6	6	0.924	0.267	1008	1	168	6	1.5 x 7.0 x 0.2	12.1 x 5.2 x 7.4	48.0 x 40.0 x 44.6
42427-5	42427-5	42427-0	6	0.924	0.267	1008	1	168	6	1.5 x 7.0 x 0.2	12.1 x 5.2 x 7.4	48.0 x 40.0 x 44.6
Replaces a 60W Incandescent Candle with 550 lumens and a rated average life of 2000 hours³												
41920-0	41920-2	41920-7	6	0.924	0.267	1008	1	168	6	1.5 x 7.0 x 0.2	12.1 x 5.2 x 7.4	48.0 x 40.0 x 44.6
41918-4	41918-9	41918-4	6	0.924	0.267	1008	1	168	6	1.5 x 7.0 x 0.2	12.1 x 5.2 x 7.4	48.0 x 40.0 x 44.6
42426-7	42426-8	42426-3	6	0.924	0.267	1008	1	168	6	1.5 x 7.0 x 0.2	12.1 x 5.2 x 7.4	48.0 x 40.0 x 44.6
42428-3	42428-2	42428-7	6	0.924	0.267	1008	1	168	6	1.5 x 7.0 x 0.2	12.1 x 5.2 x 7.4	48.0 x 40.0 x 44.6
Replaces a 100W Incandescent F-Shape with 1250 lumens and a rated average life of 4000 hours³												
42385-5	42385-8	42385-3	4	0.99	0.199	780	1	156	5	4.5 x 7.1 x 0.3	8.1 x 5.4 x 8.0	47.2 x 39.4 x 40.0

³) Replacement based on lumen performance of each lamp. Results may vary by application. See Product Bulletins for Warnings, Cautions and Instructions.

Philips Lighting Company
200 Franklin Square Drive
Somerset, NJ 08873
1-800-555-0050
A Division of Philips Electronics North America Corporation

Philips Lighting
281 Hillmount Road
Markham, Ontario
Canada L6C 2S3
1-800-555-0050
A Division of Philips Electronics Ltd.

www.philips.com



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