



Impress your customers day and night with IRC halogen. You'll save twice over.

IRC halogen lamps from OSRAM save up to 65% in costs.

**ENERGY
SAVER**

SEE THE WORLD IN A NEW LIGHT

OSRAM



Brilliant idea: IRC halogen lamps from OSRAM.

OSRAM has brought energy savings to halogen lamps. Our innovative IRC halogen lamps catch the eye not only because of their high luminous intensity, brilliant light and constant colour but also because they save up to 65% in costs compared with conventional halogen lamps. That's worth highlighting!



*A real cool gem: DECOSTAR® IRC saves up to 65% in costs.²³
Photo: Hotel Hilton, Athens*

IRC: the technology makes the difference.

The secret of the innovative IRC halogen lamp from OSRAM lies in the principle of thermal recovery. A special infra-red coating on the inside of the bulb reflects the heat back to the filament. This means that less energy has to be sourced externally to keep the filament at its operating temperature. Result: greater luminous efficacy

All the IRC benefits at a glance:

- Up to 65% cost savings
- Higher luminous efficacy
- Significantly lower CO₂ emissions
- Lower power consumption
- Most efficient true-colour light (R_a 100)
- Lower thermal output



Simply sensational: the energy-saving principle.

New car! Count on us. See the IRC savings for yourself.

Sample calculation for DECOSTAR® IRC in a hotel.

Total number of luminaires	2000
Lamp wattage	Standard 50 W > IRC 35 W
Hours burned per year	5000 h
Replacement costs/lamp	5 €
Electricity costs	0.125 €/kWh

Figures apply to an average lamp life

Annual saving including savings on aircon costs¹
In € **59,200.00**
In % **50.84**

Annual saving excluding savings on aircon costs¹
In € **40,450.00**
In % **34.74**

You could treat yourself to a top-of-the-range car.



Sample calculation for DECOSTAR® IRC in a shop.

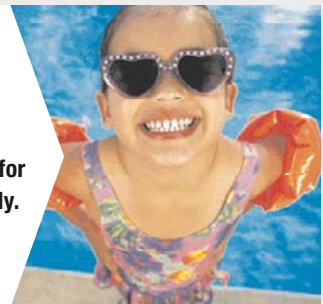
Total number of luminaires	300
Lamp wattage	Standard 50 W > IRC 35 W
Hours burned per year	3500 h
Replacement costs/lamp	5 €
Electricity costs	0.125 €/kWh

Figures apply to an average lamp life

Annual saving including savings on aircon costs¹
In € **6,216.00**
In % **50.84**

Annual saving excluding savings on aircon costs¹
In € **4,247.25**
In % **34.74**

You could treat yourself to a dream holiday for the whole family.



Sample calculation for DECOSTAR® IRC in a home.

Total number of luminaires	10
Lamp wattage	Standard 35 W > IRC 20 W
Hours burned per year	2000 h
Replacement costs/lamp	0 €
Electricity costs	0.125 €/kWh

Figures apply to an average lamp life

Annual saving excluding savings on aircon costs¹
In € **55.90**
In % **38.45**

You could treat yourself to a candle-lit dinner with your partner.



¹Savings on air conditioning costs: IRC lamps produce significantly less heat than standard lamps of the same wattage. This results in lower air conditioning costs.
²For electricity costs of EUR 0.125/kWh ³Compared with DECOSTAR® STANDARD ⁴Compared with HALOSPOT® 111 ⁵Compared with HALOSTAR® STANDARD



Plenty of light for a brilliant atmosphere in which to shop: HALOSPOT® 111 IRC saves up to 48% in costs.^{2/4} Photo: Studio Latzel for iGuzzini




Brilliant decision: HALOSTAR® IRC at the Town Hall in Munich, Germany



DECOSTAR® IRC

Our most attractive energy saver.

- Up to 65% cost savings^{2/3}
- Lower thermal output
- Extra long average life of 5000 hours
- Constant luminous intensity and constant colour location throughout the life of the lamp thanks to the longlife coating
- Constant bluish appearance of the light escaping at the back of the reflector
- Integrated shield so the lamps can be used in open luminaires to IEC 60598-1
- Improved protection against bleaching in the UV range thanks to UV-FILTER quartz 
- Fully dimmable
- Significantly lower CO₂ emissions³

Standard dichroic reflector lamp	DECOSTAR® IRC
35 W →	20 W IRC
50 W →	35 W IRC
65 W →	50 W IRC



HALOSPOT® 111 IRC

The power pack for accent lighting.


- Up to 48% cost savings^{2/4}
- Lower thermal output
- Long average life of 4000 hours
- Better quality lighting thanks to optimum illumination and reduced scatter
- More light thanks to precision-engineered shape and greater reflectance
- Loss of light due to dirt and impurities is reduced thanks to a smoother reflector surface
- Cap for reduced glare and ease of handling
- Meets IEC 60598 requirements. Can be used in free-burning applications in open luminaires thanks to low-pressure design
- Improved protection against bleaching in the UV range thanks to UV-FILTER quartz 
- Fully dimmable
- Significantly lower CO₂ emissions⁴

Standard 111	HALOSPOT® 111 IRC
50 W →	35 W IRC
75 W →	50 W IRC
100 W →	65 W IRC



HALOSTAR® IRC

Our smallest energy saver.

- Up to 60% cost savings^{2/5}
- Lower thermal output
- Long average life of 4000 hours
- High luminous efficacy of up to 26 lm/W
- Meets IEC 60598 requirements
- Can be used in free-burning applications in open luminaires thanks to low-pressure design
- Axial filament for optimum directional light
- Gold-plated/platinised base pins for corrosion protection
- Improved protection against bleaching in the UV range thanks to UV-FILTER quartz 
- Fully dimmable
- Significantly lower CO₂ emissions⁵

Standard pin-base lamp	HALOSTAR® IRC
35 W →	25 W IRC
50 W →	35 W IRC
75 W →	50 W IRC
90 W →	65 W IRC



Guaranteed better light.

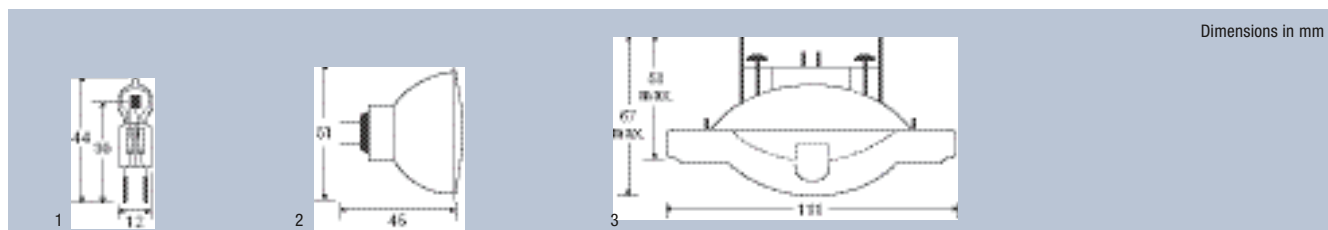
OSRAM IRC-halogen lamps can be operated with perfect results with the appropriate HALOTRONIC® control gear from OSRAM. In combination with HALOTRONIC® you get a 5 year guarantee on the ECG and 1 year on IRC lamps from OSRAM (after registering the system and under certain conditions of use; for terms and conditions and information on registration go to www.osram.com/system_guarantee).

Save up to 65% costs with IRC.

By using DECOSTAR® IRC, HALOSPOT® 111 IRC and HALOSTAR® IRC ENERGY SAVER lamps you can save up to 65% costs compared with conventional halogen lamps. You can work out exactly how much you can save with the easy-to-use ENERGY SAVER analysis tool available on our website.

The IRC ENERGY SAVER analysis tool is easy to use: www.osram.com/irc

TECHNICAL DATA



Dimensions in mm

OSRAM HALOSTAR® IRC in low-pressure design, GY6,35

Product reference	Product no. (EAN)	Wattage	Voltage	Luminous flux	Average life	Fig. no.	Standard pack
64429 IRC	4050300987262	25	12	500 lm	4000 h	1	40 pcs
64432 IRC	4050300615905	35	12	900 lm	4000 h	1	40 pcs
64440 IRC	4050300615936	50	12	1250 lm	4000 h	1	40 pcs
64447 IRC	4050300785400	65	12	app. 1700 lm	4000 h	1	40 pcs

OSRAM DECOSTAR® 51 IRC, dichroic reflector lamp with shield, dia. 51 mm, GU5,3

Product reference	Product no. (EAN)	Wattage	Voltage	Beam angle	Luminous intensity	Average life	Fig. no.	Standard pack
48860 SP	4050300620169	20	12	10°	6000 cd	5000 h	2	20 pcs
48860 FL	4050300620183	20	12	24°	2300 cd	5000 h	2	20 pcs
48860 WFL	4050300620206	20	12	36°	1000 cd	5000 h	2	20 pcs
48860 VWFL	4050300620220	20	12	60°	450 cd	5000 h	2	20 pcs
48865 SP	4050300516592	35	12	10°	12500 cd	5000 h	2	20 pcs
48865 FL	4050300516615	35	12	24°	4400 cd	5000 h	2	20 pcs
48865 WFL	4050300516639	35	12	36°	2200 cd	5000 h	2	20 pcs
48865 VWFL	4050300516653	35	12	60°	1100 cd	5000 h	2	20 pcs
48870 SP	4050300516677	50	12	10°	15000 cd	5000 h	2	20 pcs
48870 FL	4050300516691	50	12	24°	5700 cd	5000 h	2	20 pcs
48870 WFL	4050300516714	50	12	36°	2850 cd	5000 h	2	20 pcs
48870 VWFL	4050300516738	50	12	60°	1430 cd	5000 h	2	20 pcs

OSRAM HALOSPOT® 111 IRC, reflector lamp, dia. 111 mm, G53***

Product reference	Product no. (EAN)	Wattage	Voltage	Beam angle	Luminous intensity	Average life	Fig. no.	Standard pack
48832 SP	4050300652823	35	12	8°	22500 cd	4000 h	3	6 pcs
48832 FL	4050300656847	35	12	24°	4500 cd	4000 h	3	6 pcs
48835 SP	4050300656861	50	12	8°	33000 cd	4000 h	3	6 pcs
48835 FL	4050300656885	50	12	24°	5800 cd	4000 h	3	6 pcs
48835 WFL	4008321909237	50	12	45°	2000 cd	4000 h	3	6 pcs
48837 SP	4050300786070	65	12	8°	45000 cd	4000 h	3	6 pcs
48837 FL	4050300786094	65	12	24°	8500 cd	4000 h	3	6 pcs
48837 WFL	4008321909251	65	12	45°	2800 cd	4000 h	3	6 pcs

ECGs for low-voltage halogen lamps

Product reference	Product no. (EAN)	Mains voltage	Mains current	Mains frequency	Lamp wattage	Max. partial load range
HALOTRONIC MOUSE® compact design						
HTM70/230-240*	4050300442310	230 V -10%/240 V+6%	0.27 A	50/60 Hz	70 W	20-70 W
HTM105/230-240*	4050300442334	230 V -10%/240 V+6%	0.41 A	50/60 Hz	105 W	35-105 W
HTM150/230-240*	4050300581415	230 V -10%/240 V+6%	0.57 A	50/60 Hz	150 W	50-150 W
HTN75/230-240I**	4008321073037	230 V -10%/240 V+6%	0.32 A	50/60 Hz	75 W	20-75 W
HTN75/230-240S**	4008321909329	230 V -10%/240 V+6%	0.32 A	50/60 Hz	75 W	20-75 W
HALOTRONIC® L, long design						
HT70/230/12L**	4050300297453	230 V -10%/+6%	0.29 A	0/50/60 Hz	70 W	20-70 W
HT105/230/12L**	4050300299662	230 V -10%/+6%	0.46 A	0/50/60 Hz	105 W	20-105 W
HT150/230/12L**	4050300332123	230 V -10%/+6%	0.65 A	0/50/60 Hz	150 W	50-150 W
HT210/230/12L**	4050300462257	230 V -10%/+6%	0.90 A	0/50/60 Hz	210 W	50-210 W
HALOTRONIC® LF, long flat design						
HT 120/230-240/12 LF**	4050300461342	230 V -10%/240 V+6%	0.48 A	50 Hz	120 W	35-120 W

* Can be dimmed with trailing-edge and leading-edge phase dimmers for inductive loads

** Can be dimmed with trailing-edge phase dimmers

*** If connection elements are used, an additional support is needed on the edge of the reflector