



GE Lighting
Halogen PAR Lamps

energy savings and longer life...
imagine the possibilities.

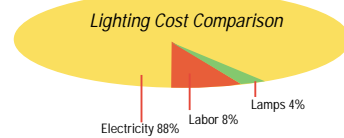


● HALOGEN

technology platforms



GE Lighting has added to its technological leadership in the halogen PAR industry with **Silver Coating technology** in addition to our **exclusive thin film HIR™** design. With these distinct technology advantages, GE offers the **widest variety of Energy Savings and Long Life options** to ideally meet your application needs. GE PAR's can be used for virtually any purpose - indoor or outdoor. They are available in a wide variety of types, wattages and beam spreads. PAR's are ideal for accent lighting, merchandising displays, general illumination in offices, lobbies and public buildings. This PAR selling guide will help you select the best lamp to meet your business objectives.



Cost of light: the purchase price of the lamps represents only a small fraction of the overall cost of light. Energy consumption is the largest expense and upgrading your lighting with high technology GE lamps can save thousands of dollars each year.

GE technology delivering value to your customer's bottom line - an example:			
Labor cost to replace a lamp:	\$ 2.00		
Energy rate (\$/kwh):	\$ 0.10		
Annual hours of operation:	4,400		
Product Information	Current Lamp	Replacement Lamp	
Product	Halogen Plus	Retail HIR	
Description	75PAR/H	55PAR/HR/R	
Watts	75	55	
Life	2500	4000	
Lumens	1050	1050	
Annual lamp changes	1.76	1.10	
Annual Operating Costs	Current Lamp	Replacement Lamp	Savings/Lamp
Labor (lamp changes x labor cost)	\$ 3.52	\$ 2.20	\$ 1.32
Energy (\$/kwh x watts x hrs. /1000)	\$ 33.00	\$ 24.20	\$ 8.80
Total Operating Cost	\$ 36.52	\$ 26.40	\$10.12

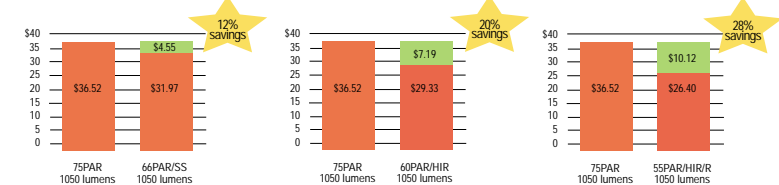
The GE Halogen Mission - Delivering the highest energy efficiency and longest life products... without compromising quality and quantity of light.

GE Technology Advantage:	Silver Coating	IR Film	Silver Coating & IR Film
"Good" PAR38, PAR30, PAR20 120V & 130V	"Better" PAR38 120V & 130V	"Best" PAR38, PAR30 120V & 130V	"Optimum" PAR38 120V
Standard & Plus • Crisp, white light • Perfect CRI - 100 • 2000-2500 hours, 60W - 3000 hours	Silver Saver™** • Up to 14% more efficient • Up to 12% energy savings • Up to 20% longer life - 3000 hours	HIR™** • Up to 28% more efficient • Up to 22% energy savings • Up to 20% longer life - 3000 hours HIR XL™** • Lasts 6000 hours with up to 13% energy savings	Retail HIR™** • Up to 42% more efficient • Up to 27% energy savings • Up to 60% longer life - 4000 hours Silv-IR* • Heavy duty filament for rough handling • Same 4000 life with up to 20% energy savings

↑ ENERGY SAVINGS

LONG LIFE

Key:
■ Operating cost
■ Operating savings
 • Labor cost=\$2.00
 • Energy rate=\$0.10
 • Annual hours=4400
 • Lumens=1050 for all

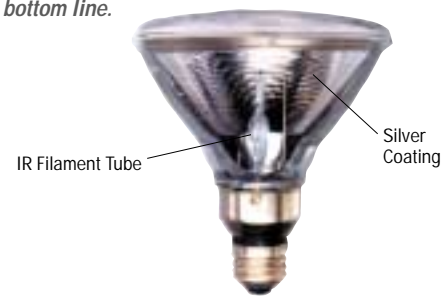


*All comparisons are made against Standard & Halogen Plus at same/similar lumen output

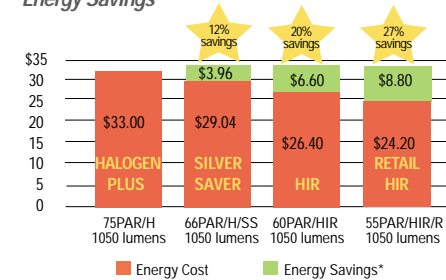
● ENERGY SAVINGS

Only GE can offer this many energy saving alternatives because of our exclusive technology platforms.

*GE's exclusive thin film design offers dramatic energy savings. Most of the wattage used by standard lamps generates invisible infrared light energy. This is wasted electricity. GE engineers and scientists developed an exclusive infrared reflective coating, Pow-IR-Film, for the inner filament tube that actually uses this wasted energy to help heat the filament and produce more visible, useful light. Now, the GE engineers and scientists have extended this technology even further with **Silver Coating technology**. GE's silver coating process produces an additional 12% efficiency gain in the lamps which allows **GE Lighting to drive additional energy savings, lumens and life which produces even more operating savings for your bottom line.***



Energy Savings



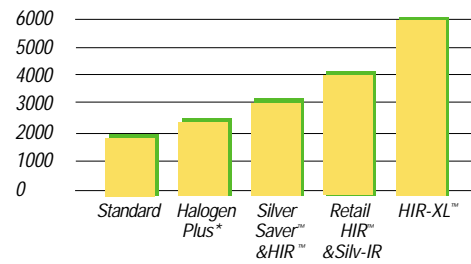
* Energy savings estimated at average national KWH rate of \$.10 and 4400 hours of operation.

● LONG LIFE

GE Halogen lamps last up to 6000 hours resulting in lower maintenance costs, fewer disruptions to replace burned-out lamps, and more time for employees to focus on serving your customer.



Average Rated Life (Hours)



* 60 PAR/H at 3000 hours

Note on 130V products: In order to increase lamp life some customers will run 130 volt product on a 120 volt circuit. Generally speaking this will double the life of the product and require 10% less watts. However, **lumen output is reduced by approximately 25%**. To save energy without compromising light output, find the lamps with the light output you need, then choose the one with the lowest watts.



Product Code	Description	Watts	Volts	Case Qty.	Average Rated Life	Lumens	Color Temp.	CBCP
PAR38 Halogen Lamp								
<i>Retail HIR...Optimum choice for energy savings & longer life. Silv-IR - heavy duty filament for rough handling.</i>								
16344	45PAR/HR/SP10	45	120	12	4000	800	2750	14000
16345	45PAR/HR/FL25	45	120	12	4000	800	2750	3400
46168	50PAR/HR/SP10	50	120	12	4000	800	2750	14000
46167	50PAR/HR/FL25	50	120	12	4000	800	2750	3400
16346	55PAR/HR/SP10	55	120	12	4000	1050	2800	17000
16347	55PAR/HR/FL25	55	120	12	4000	1050	2800	4000
46165	60PAR/HR/SP10	60	120	12	4000	1050	2800	17000
46166	60PAR/HR/FL30	60	120	12	4000	1050	2800	2800
16348	90PAR/HR/SP10	90	120	12	4000	2030	2850	30000
16349	90PAR/HR/FL25	90	120	12	4000	2030	2850	7000
<i>HIR XL...Optimum choice for long life.</i>								
40793	45PAR/HR/SP12XL	45	120	6	6000	600	2680	7000
40790	45PAR/HR/FL40XL	45	120	6	6000	600	2680	1300
40794	55PAR/HR/SP12XL	55	120	6	6000	800	2680	9000
40792	55PAR/HR/FL40XL	55	120	6	6000	800	2680	2000
40795	90PAR/HR/SP12XL	90	120	6	6000	1470	2800	17000
40791	90PAR/HR/FL40XL	90	120	6	6000	1470	2800	2800
<i>HIR... Best choice for energy savings and long life.</i>								
40937	50PAR/HR/SP6	50	120	12	3000	800	2810	20000
12396	50PAR/HR/SP9	50	120	12	3000	800	2810	16000
12397	50PAR/HR/FL25	50	120	12	3000	800	2810	3400
22850	50PAR/HR/FL25	50/46	130/120	12	3000/6000	800/600	2810	3400
11881	60PAR/HR/SP10	60	120	6	3000	1050	2850	17000
18627	60PAR/HR/SP10	60	120	12	3000	1050	2850	17000
18629	60PAR/HR/SP10	60/54	130/120	12	3000/6000	1050/800	2850	17000
11878	60PAR/HR/FL30	60	120	6	3000	1050	2850	2800
18626	60PAR/HR/FL30	60	120	12	3000	1050	2850	2800
18628	60PAR/HR/FL30	60/54	130/120	12	3000/6000	1050/800	2850	2800
10467	60PAR/HR/FL40	60	120	12	3000	1050	2850	1700
20947	60PAR/HR/WFL	60	120	12	3000	1050	2850	—
20948	60PAR/HR/WFL	60/54	130/120	12	3000/6000	1050/800	2850	—
46367	70PAR/HR/SP10	70	120	12	3000	1260	2900	19000
46369	70PAR/HR/SP10	70/64	130/120	12	3000/6000	1260/950	2900	19000
46368	70PAR/HR/FL25	70	120	12	3000	1260	2900	4700
46370	70PAR/HR/FL25	70/64	130/120	12	3000/6000	1260/950	2900	4700
27216	80PAR/HR/SP10	80	120	12	3000	1500	2900	22000
27217	80PAR/HR/SP12	80	120	12	3000	1500	2900	17500
27218	80PAR/HR/FL25	80	120	12	3000	1500	2900	5000
18635	100PAR/HR/SP10	100	120	12	3000	2030	2900	30000
18636	100PAR/HR/SP10	100/88	130/120	12	3000/6000	2030/1470	2900	30000
11883	100PAR/HR/FL25	100	120	6	3000	2030	2900	7000
18631	100PAR/HR/FL25	100	120	12	3000	2030	2900	7000
18633	100PAR/HR/FL25	100/88	130/120	12	3000/6000	2030/1470	2900	7000
10473	100PAR/HR/FL40	100	120	12	3000	2030	2900	3400
<i>Silver Saver™ - Better choice for energy and longer life.</i>								
16338	53PAR/H/SS/SP10	53	120	12	3000	800	2800	14000
27989	53PAR/H/SS/SP10	53/47	130/120	12	3000/6000	800/608	2800	14000
16339	53PAR/H/SS/FL25	53	120	12	3000	800	2800	2900
27991	53PAR/H/SS/FL25	53/47	130/120	12	3000/6000	800/608	2800	2900
16340	66PAR/H/SS/SP10	66	120	12	3000	1050	2850	18000
28263	66PAR/H/SS/SP10	66/58	130/120	12	3000/6000	1050/800	2850	18000
16341	66PAR/H/SS/FL25	66	120	12	3000	1050	2850	4000
28265	66PAR/H/SS/FL25	66/58	130/120	12	3000/6000	1050/800	2850	4000
16342	79PAR/H/SS/SP10	79	120	12	3000	1310	2850	20000
28267	79PAR/H/SS/SP10	79/70	130/120	12	3000/6000	1310/1000	2850	20000
16343	79PAR/H/SS/FL25	79	120	12	3000	1310	2850	4700
28268	79PAR/H/SS/FL25	79/70	130/120	12	3000/6000	1310/1000	2850	4700
<i>Halogen PAR 38 - Good choice for energy and longer life.</i>								
17470	45PAR/H/SP10	45	120	6	2500	540	2750	8000
16229	45PAR/H/SP10	45/40	130/120	12	2500/5000	540/410	2750	8000
17471	45PAR/H/FL25	45	120	6	2500	540	2750	2000
16231	45PAR/H/FL25	45/40	130/120	12	2500/5000	540/410	2750	2000
17980	50PAR/H/SP10	50	120	6	2000	600	2750	9500
17979	50PAR/H/FL25	50	120	6	2000	600	2750	2200
17926	50PAR/H/FL25	50/46	130/120	12	2000/4000	600/450	2750	2200
25266	60PAR/H/SP10	60	120	12	3000	800	2800	13000
25270	60PAR/H/SP10	60/54	130/120	12	3000/6000	800/608	2800	13000
25269	60PAR/H/FL25	60	120	12	3000	800	2800	3200
25271	60PAR/H/FL25	60/54	130/120	12	3000/6000	800/608	2800	3200
14751	75PAR/H/SP9	75	120	6	2500	1050	2850	18000
14748	75PAR/H/FL25	75	120	6	2500	1050	2850	4000
21389	75PAR/H/FL25	75/66	130/120	12	2500/5000	1050/800	2850	4000
17450	90PAR/H/SP10	90	120	6	2500	1310	2900	20000
13311	90PAR/H/SP10	90/79	130/120	12	2500/5000	1310/1000	2900	20000
17451	90PAR/H/FL25	90	120	6	2500	1310	2900	4700
13308	90PAR/H/FL25	90/79	130/120	12	2500/5000	1310/1000	2900	4700
25727	90PAR/H/WFL	90	120	12	2500	1310	2900	—
17982	100PAR/H/SP10	100	120	6	2000	1500	2900	22000
17986	100PAR/H/FL25	100	120	6	2000	1500	2900	5000
17947	100PAR/H/FL25	100/88	130/120	12	2000/4000	1500/1150	2900	5000
41632	120PAR/H/SP9	120	120	6	2500	1900	2950	18000
41631	120PAR/H/FL30	120	120	6	2500	1900	2950	4000
<i>Coil Beam and Quartzine® PAR38's</i>								
17691	90PAR/CB/H/FL25	90	120	12	2500	1260	2870	4100
23718	Q250PAR/FL30	250	120	12	4200	3600	2880	9000
23719	Q250PAR/SP10	250	120	12	4200	3600	2880	40000

Product Code	Description	Watts	Volts	Case Qty.	Average Rated Life	Lumens	Color Temp.	CBCP
Compact PAR Halogen Lamps								
<i>HIR XL... Best choice for long life.</i>								
41545	45PAR30H/SP9XL	45	120	15	6000	620	2680	9750
41547	45PAR30H/FL25XL	45	120	15	6000	620	2680	2025
41550	45PAR30H/FL35XL	45	120	15	6000	620	2680	1125
<i>HIR... Better choice for energy savings and long life.</i>								
19902	50PAR30H/SP9	50	120	15	4000	825	2810	15000
19901	50PAR30H/FL25	50	120	15	4000	825	2810	3200
21533	50PAR30H/FL25	50/46	130/120	15	3000/6000	825/620	2810	3200
19900	50PAR30H/FL35	50	120	15	4000	825	2810	2700
19903	50PAR30H/FL35	50/46	130/120	15	3000/6000	825/620	2810	2700
<i>Halogen PAR30 Long Neck</i>								
14940	50PAR30LH/SP10	50/46	130/120	6	3000/6000	580/460	2800	7500
11117	50PAR30LH/SP10	50/46	130/120	15	3000/6000	580/460	2800	7500
11116	50PAR30LH/FL40	50	120	15	3000	580	2800	1100
11123	50PAR30LH/FL40	50/46	130/120	15	3000/6000	580/460	2800	1100
14941	50PAR30LH/WFL	50	120	6	3000	630	2800	—
11124	75PAR30LH/SP10	75	120	15	3000	940	2830	13000
11129	75PAR30LH/SP10	75/66	130/120	15	3000/6000	940/751	2830	13000
14943	75PAR30LH/FL25	75	120	6	3000	940	2830	3800
11131	75PAR30LH/FL25	75/66	130/120	15	3000/6000	940/751	2830	3800
16393	75PAR30LH/WFL	75	120	6	3000	1050	2830	—
<i>Halogen PAR 30 Lamps</i>								
14023	50PAR30H/SP10	50	120	6	3000	630	2800	8200
17870	50PAR30H/SP10	50/46	130/120	15	3000/6000	630/500	2800	8200
17871	50PAR30H/FL25	50	120	15	3000	630	2800	2300
17872	50PAR30H/FL25	50/46	130/120	15	3000/6000	630/500	2800	2300
14022	50PAR30H/FL35	50	120	6	3000	630	2800	1400
17874	50PAR30H/FL35	50/46	130/120	15	3000/6000	630/500	2800	1400
27212	60PAR30H/SP9	60	120	15	3000	800	2800	11000
40167	60PAR30H/FL25	60	120	15	3000	800	2800	2900
27214	60PAR30H/FL35	60	120	15	3000	800	2800	1700
14802	75PAR30H/SP10	75	120	6	3000	1030	2830	13000
18056	75PAR30H/SP10	75/66	130/120	15	3000/6000	1030/790	2830	13000
18057	75PAR30H/FL25	75	120	15	3000	1030	2830	3800
14779	75PAR30H/FL35	75	120	6	3000	1030	2830	2400
18060	75PAR30H/FL35	75/66	130/120	15	3000/6000	1030/790	2830	2400
<i>Halogen PAR 20 Lamps</i>								
14927	50PAR20H/SP10	50	120	6	2500	570	2800	6000
17								