



# Extended life test on 36W TUBELIGHTS – RESULTS

KEY

NLT : Not Less Than  
BEE : Bureau of Energy Efficiency  
IS : Indian Standards  
AT : Additional Test

Brands <sup>Ø</sup> Standards up to 3500 hrs IS : 2418-1977 up to 5000 hrs : AT	Rank	Overall Score	Price MRP § (in Rs.)	Lumen Maintenance (Average)					No. of tubelights that stopped working				Average Efficacy Ideal at 100 hrs : 2425 lumen=67.36 ; 2450 lumen=68.05				Star Rating as per BEE <sup>Ö</sup>	
				At 2000 € hrs. (IS) NLT 85%	At 3500 hrs (IS) NLT 80%	Weighted Score	At 5000 hrs (AT)	Weighted Score	Before 3500 hrs (IS) (out of 10)	Weighted Score	Before 5000 hrs (AT) (out of 10)	Weighted Score	100 hrs € (AT)	3500 hrs ¥ (BEE)	Weighted Score	5000 hrs (AT)		Weighted Score
BAJAJ 	1	100	43.00	90.74	88.11	30.00	85.34	10.00	Nil	20.00	Nil	10.00	67.57	59.33	20.00	57.16	10.00	***
OSRAM 	2	98	38.00	89.81	86.36	29.40	83.10	9.74	Nil	20.00	Nil	10.00	66.86	57.96	19.54	55.66	9.74	***
SURYA HBT  SLIMLITE	3	96	41.00	87.70	84.48	28.76	80.66	9.45	Nil	20.00	Nil	10.00	64.52	54.36	18.32	52.02	9.10	**
CROMPTON SUPER SAVER XLR-36	4	} 95	41.00	88.39	84.23	28.68	81.11	9.50	Nil	20.00	Nil	10.00	63.83	53.65	18.09	51.45	9.00	**
ANCHOR SLIMLITE	4		44.00	91.05	87.76	29.88	84.64	9.92	01	18.00	01	9.00	63.92	55.97	18.87	54.14	9.47	***
WIPRO SLIMLITE	5	91	41.00	87.18	82.68	28.15	79.77	9.35	01	18.00	01	9.00	64.10	52.81	17.80	50.94	8.91	**
WEIGHTAGE						30%		10%		20%		10%		20%		10%		

Ø The brands are 36W 'tubular fluorescent lamps'. They are normally 4ft long and termed as 'cool daylight'. Above models tested by us for extended life up to 5000 hours were purchased during the end of 2003

Ö For details on star rating see our feature 'Refrigerators, Air-conditioners, Tubelights: Which brands consume the least energy? Find out, (page 27)

§ Price marked on the carton (packet)

€ The figures for lumen maintenance at 2000 hours and average initial efficacy at 100 hours are given for comparison only.

¥ This is one of the parameters considered by the Bureau of Energy Efficiency (BEE) for star rating.

## Rating and Ranking

For rating and ranking we assigned 50 per cent to IS parameters with 30 per cent for percentage lumen maintenance at 3500 hours and 20 per cent to the number of lamps that worked up to 3500 hours.

We assigned 30 per cent to additional tests, since the extended life test was conducted in view of consumer interest. Of this, 20 per cent each was assigned to two parameters, lumen maintenance at 5000 hours and number of samples that worked to 5000 hours and 10 per cent to efficacy at 5000 hours. 20 per cent weightage was assigned to efficacy at 3500 hours — one of the parameters considered by the BEE, for deciding the star rating of tubelights up to 40W, in its star labelling programme.

BEST BUY

*Since there was not much difference found in the prices of the brands, we have based all the Best Buys on the overall performance scores.*

**BAJAJ** Bajaj scored the highest at 100

**OSRAM** Osram scored the second with 98

**SURYA HBT SLIMLITE** Surya HBT Slimlite scored the third with 96.

## PHILIPS

We also tested 36W PHILIPS Slimlite tubelight marked with rated lumen 2450. But Philips informed us that it has stopped manufacturing the 36W "Slimlite" tubelight brand. With an overall score of 99 it would have been otherwise placed second in the rank. Philips Slimlite has (average) initial lumen of 2452; lumen at 2000 hrs is 90.97, and at 3500 hrs 87.07, at 5000 hrs is 83.45. The (average) efficacy at 100 hrs was 66.04, at 3500 hrs was 57.75 and at 5000 hrs was 55.24. Not a single tubelight stopped working before 3500 hrs and before 5000 hrs. Philips have now introduced a new brand "Life Max" (36W), but since it came into the market after our testing, we could not include it.