



LED LIGHT SELECTION GUIDE

- GREEN RAY



INTRODUCTION :

ADOPTING TO LED LIGHT SAVES ELECTRICITY, MONEY AND EXTRA MAINTENANCE COST TOO. THIS HAPPENS ONLY WHEN YOU SWITCH TO HIGH-QUALITY LED LIGHTING PRODUCTS ONLY. FIND OUT WHICH FACTORS YOU SHOULD CONSIDER FROM PACKAGING LABELS FOR GETTING BEST QUALITY LED LIGHT PRODUCTS FROM MARKET.

LED AND CFL BULBS HAVE REVOLUTIONIZED ENERGY-EFFICIENT LIGHTING. EVEN HERE YOU CAN SAY THAT CFLS ARE A TEMPORARY SOLUTION TO ENERGY-EFFICIENT LIGHTING, WHILE LONG LASTING, DURABLE, MORE EFFICIENT, ECO-FRIENDLY... LED LIGHTS ARE REPLACING INCANDESCENT BULBS BROADLY. YOU CAN EASILY FIND OUT BEST QUALITY LED LIGHT PRODUCTS IN THE MARKET, SIMPLY CONSIDERING SOME IMPORTANT FACTORS LIKE POWER FACTOR, LIGHT APPEARANCES, CRI, ETC. AVAILABLE ON PACKAGING LABELS. GET INFORMED ABOUT SUCH KEY FACTORS IN DETAILS HERE, AND SELECT THE BEST LED FOR THE BEST RESULT.



6 FACTORS TO IDENTIFY BEST QUALITY LED LIGHTS

There are six factors you should consider to buy best quality LED light for any application.

Lumens Per Watt

Power Factor

CRI (Colour Rendering Index)

Colour temperature

Heat sink

Life of LED Chip

1. LUMENS PER WATT

Company	Wattage	Total Lumens	Lumens/Watt	Quality Standard
A	8W	880	110	Best
B	8W	800	100	Very Good
C	8W	720	90	Good
D	8W	640	80	Average
E	8W	560	70	Bad

2. POWER FACTOR

Total Wattage	Power Factor	Actual Consumption (Watt)	Cost per life
120	0.65	185	3692
120	0.7	171	3428
120	0.8	150	3000
120	0.9	133	2666

3. CRI

Color Rendering Index

C **R** **I**

Higher the CRI, Colors appear more natural



SOURCE	ACHIEVABLE CRI
Incandescent/Halogen	> 95
T8 Linear Fluorescent	75-85
Cool White Linear Fluorescent	62
Compact Fluorescent	82
Standard Metal Halide	65
Standard HPS	22
LED	80-98

CRI	RATING
> 90	Great
80-90	Very Good
70-80	Good
60-70	Good
40-60	Poor

4. COLOR TEMPERATURE

LEDs are available in wide colour temperature range from 2800K to 6500K as mentioned below.

Warm white: 2700K-3500K (dusk time yellow light)

Neutral white: 4000K-4500K (bright sun light little yellow)

Cool white: 5000K-6500K (pure white, cool day light)

	Colour Temp.	Effects on Colours	Typical Applications
8000K	Daylight White 5000K +	<ul style="list-style-type: none"> - Strongly enhances blues - Flattens reds - Bluish tint to whites and greens 	<ul style="list-style-type: none"> - Graphic Arts Studios - Winter goods shops e.g. furriers - Seasonal Affective Disorder
6000K	Cool White 4000-5000K	<ul style="list-style-type: none"> - Enhances blues - Flattens reds - Bluish tint to whites and greens 	<ul style="list-style-type: none"> - Offices - Hospitals - Manufacturing
4000K	Mid Range 3500-4000K	<ul style="list-style-type: none"> - Neutral Appearance - Enhances most colours equally - Does not favour yellow or blue 	<ul style="list-style-type: none"> - Retail stores - Supermarkets - Showrooms
3500K 3000K 2700K	Warm White 2700-3000K	<ul style="list-style-type: none"> - Enhances red & orange - Blues appear darker - Yellow tint to whites and green 	<ul style="list-style-type: none"> - Residential lighting - Restaurants - Hotel Lobbies
2000K	Extra Warm 2000-2500K	<ul style="list-style-type: none"> - Strongly enhances red & orange - Blues appear almost black - Whites appear strongly orange 	<ul style="list-style-type: none"> - Bread and meat displays - City Beautification - Not for general lighting



5. HEAT SINK

Don't forget that for LEDs to last a long time, they need a heat sink. That's why LED bulbs have metal fins that go down the side, making them look different than the classic Edison-style bulb. Heat sink dissolves any excess heat and maintains the LEDs at best operating temperature as well gives boost in terms of life to main LED chip.



6. LIFE OF LED CHIP

At this point, LEDs really score high as its life typically ranges from 20,000 to 50,000 hours. Therefore, LEDs are idyllic for use in areas where maintenance is difficult or long life is essential.



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THANK YOU ..

Note: The above details collected and shared as a part of customer awareness program and commitment to our quality product & services to our customers.

Ref: <http://www.ledlightsinindia.com/information/choose-best-quality-led-lights>