

LED FURBISHMENT

transform . refurbish. with LEDS



REDEFINE YOUR WORKSPACES

*with more savings,
enhanced productivity
and better visual comfort*

upto
56%
Energy
Savings

upto
77%
Reduction in
Operating Cost

CUSTOMER BENEFITS

- Long Service Life
- Maintenance Free Operations
- Better Light Quality
- Ideal for Green Buildings

ImmaculateLED | CRCO 10

Recess/surface mounted LED luminaire with complete diffuser



High efficacy LEDs ensure a uniform and optimum light output which creates a vibrant and uniform illumination while consuming significantly lesser energy and hence reduces LPD

Immaculate creates visual harmony with uniform illumination and enriches the work experience by enhancing the ambience and ultimately the productivity

Ceilings have non disruptive aesthetics, appearing free of a visible light source even when the light is off creating a pleasant appearance

WIPRO LIGHTING

4POINT ADVANTAGES

LIGHT SOURCE

Best-in-class Japanese LED technology

High efficiency, LM 80 compliant LEDs

Best quality LEDs through proper binning for consistent colour, lumen output and forward voltage

Options in colour temperature

DRIVER

Constant Current Constant Voltage (CCCV), multistage and isolated design architecture

Specially designed for Indian power conditions

Best-in-class design & manufacturing

Complies to SELV design standards ensuring safety

OPTICS

Uniform and glare free lighting

HET (High Efficiency Translucence) technology ensures high optical efficiency

THERMAL MANAGEMENT

Special design for effective thermal management ensures long service life and consistent performance of LEDs

Use of MCPCBs for high wattage LED luminaires

Specially designed heat dissipation mechanism



PAYBACK CALCULATIONS



Description	ImmaculateLED	2ft x 2ft CFL
General information	35W LED	2 x 36W CFL
Luminaire quantity in nos	100	100
Total no of lamps in CFL fixture	0	200
Total power consumption per luminaire (W)	35	80
Total power consumption in system (KW)	3.50	8.00
Average life of lamp	50000	8000
Capital cost		
Cost of luminaires with lamps (₹)	4300	0
Total supply cost of system (₹)	4,30,000	0
Installation cost per luminaire in (₹)	100	0
Total installation cost of system in (₹)	10000	0
Total supply + Installation cost (₹)	4,40,000	0
Operating energy cost		
Usage of system per day in hours	14	14
Total working days/annum	320	320
Total usage of system per annum in hours	4480	4480
Total energy consumption per annum (KWH)	15680	35840
Electricity charges (₹)	8.5	8.5
Total electricity charges per annum for system (₹)	1,33,280	3,04,640
Total operating cost in (₹) per annum	133,280	3,04,640
Lamps and gear replacement cost		
Number of lamps to be replaced per annum	0	112
Cost of lamp replacement per annum	0	11200
Number of gears to be replaced per annum	0	5
Cost of gear replacement	0	2500
Effect of HVAC Savings		
Heat removing capacity of 1 ton of AC in terms of electrical load in (KW)	3.5	3.5
Existing electrical load of lighting lystem on AC system (KW)	3.5	8.0
Reduction in electrical load on AC system (KW)	4.50	0
Reduction in AC tonnage due to reduced lighting load	1.29	0
Power consumed by 1 ton of AC (KW)	1.20	0
Power saved due or reduction in AC tonnage (KW)	1.54	0
Total savings in electricity cost due to reduction in AC tonnage (₹)	58,752	0
System analysis		
Total replacement & operating cost (₹)	133,280	318,340
Total additional initial investment for LED (₹) (Total Cash Out-Flow)		4,40,000
Total savings in replacement & operating cost using LED (₹) (Cash In-Flow)		2,43,812

payback in
22 MONTHS*



*LED is an ever improving and evolving technology. Wipro is committed to bring you the best in LED technology. Data given is representative and can change.