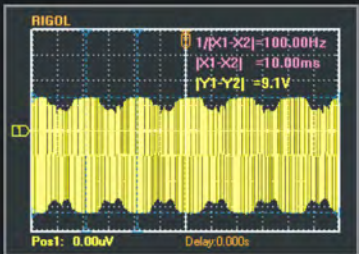




Digital storage Oscilloscope showing lamp starting conditions



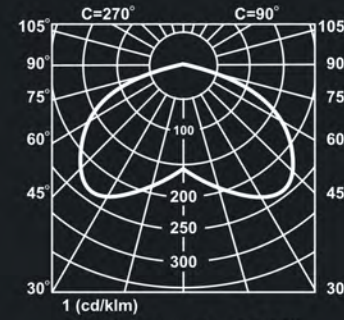
Supply current wave form showing harmonics supported by harmonics meter above



Wave form to measure lamp current crest factor for long lamp life

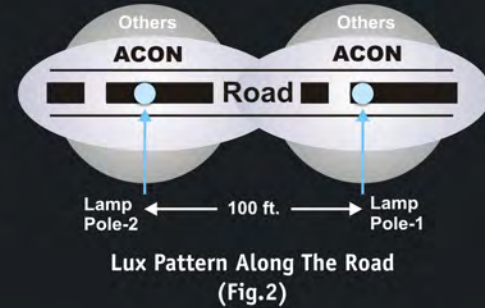
COMPANY PROFILE

SUVEG ELECTRONICS, an **ISO 9001:2000** certified company, established by **Bakeri group** in **1985** with the brand name '**ACON**', has been highly innovative in the field of electronics and energy efficient lighting. We are committed to achieve leadership in the market by complying with the products and quality system requirements, creating an environment of team-work and positive attitude.



Polarity Curve for 5x24 W T5 Street Light (Fig-1)

With its innovative approach, **Suveg Electronics** has developed **special patented design** to minimize dark spots between two street light poles as shown by **Fig-1 & Fig-2**, **over voltage cut-off protection**, **THD ≈ 5%** & **P.F. = 0.99**.



ACON has also proved itself to be the most reliable lighting fixture along with its sturdy **electronic ballast (patented design) giving maximum energy saving**. It has been tested at ERDA & EQDC as per IS 13021 part 1 & 2, IS 6842 for Electronic Ballasts and IS 10322 part 5 sec. 3 for outdoor luminaries (with ingress protection) for ensuring quality.

SOME OF OUR SATISFIED CUSTOMERS

- Reliance
- Birla Copper
- G.E.B.
- Ministers bungalows
- Essar Power
- O.N.G.C.
- Indian Railways
- R&B- Government of Gujarat
- L&T
- Times Of India
- State Roads
- Nuclear Power Corporation of India
- IIM-A
- GNVFC
- Nagarpalikas
- International Airport at Ahmedabad
- Torrent cable
- GEDA
- Gujarat High Court
- Ammunition Factory (Ministry of Defense)

ACON
Since 1985



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Since 1985

Suveg Electronics









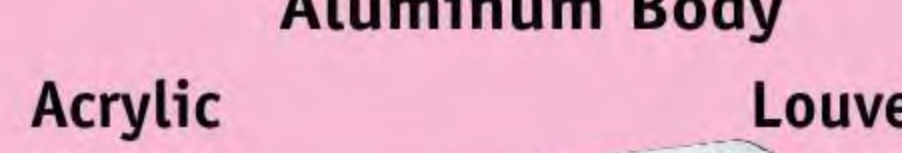







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INDOOR LIGHTING

PRODUCT	MODEL / WATTS	ENERGY SAVING	AS COMPARED TO CONVENTIONAL
	14/24/28/54w T5 Ballast	50%	Copper Choke
	36/40/55/65w T8 Ballast	35%	Copper Choke
	14/28w T5 2ft/4ft LTHD Model	50% (without reflector)	Conventional Tube Light Fitting
	14/28w T5 2ft/4ft LTHD-RCF (for Retaining Existing Fitting)	70% (with reflector)	Conventional Tube Light
	1,2,4 x 14/28w T5 LTHD-DMCF	50%	Conventional Tube Light Fitting
	1x28w / 2x28w T5 4 ft Box Type	50%	Conventional Tube Light Fitting
	1w LED Fitting	80%	5 - 8w CFL
	14w LED Fitting	70%	Conventional Tube Light Fitting
	LED 12/24/32/48w	80%	70/125/150/250W HPSV/MH/HPMV
	T5 4 ft 1x28w Retro Fit (for Retaining Existing Fitting)	50%	36/40w Tube Light
Patented Rust Proof Design Improves Uniformity & Prevents Collection of Dust & Insects			
	T5 4 ft	50%	36/40w Tube Light Fitting
	T5 2 ft	80%	Conventional Tube Light/ Bulb
	1x14w 1x24w	65%	70w HPSV/MH/HPMV
	2x14w 2x24w	55% 60%	125w HPSV/MH/HPMV 150w HPSV/MH/HPMV
	4x14w 4x24w	60% 45%	125w HPSV/MH/HPMV 150w HPSV/MH/HPMV
	5x14w 5x24w	60% 65%	150w HPSV/MH/HPMV 250w HPSV/MH/HPMV
	IP 65 fitting		
	Clean Room fitting		

STREET LIGHTING

Comparison of Technical Specifications of LED / T5 / T8 Fittings & Ballast



ELECTRONIC BALLAST

PARAMETER	ACON	OTHERS	ADVANTAGES OF ACON
Voltage Range	150 - 415v	150 - 300v	Most Durable
Over Voltage Cut Off	Yes	No	Most Durable
Protection Against Neutral Fault, Spikes	Yes	No	Most Durable
End of Lamp Life Protection	Yes	No	Most Durable
THD (Harmonics)	< 10%	> 40%	Keeps Mains Supply Clean
Power Factor	> 0.98	= or < 0.9	& Within IEC & IS 13021
Lamp Current Crest Factor	< 1.7	> 2	Long Lamp Life & Lamp Ends Do Not Darken
Lumen Depreciation	10%	50%	Better visibility & Low Maintenance
Conforming to IS 13021 Part I & II	Yes	No	As Per IEC & EN Standards
Conforming to IEC 60081 & EN:55015	Yes	No	Keeps EMI/RFI Radiation low

T5 LUMINARIES

PARAMETER	ACON	OTHERS	ADVANTAGES OF ACON
Conforming to IS 10322	Yes	No	Higher Efficiency, Safety & Protection
Electronic Ballast	As Chart Above	Ordinary	As Chart Above
Light Output	1.5 times More Than Other T5	Low	Better Vision & Uniformity
Guarantee	With Lamp	Without Lamp	Cost Effective
Reflector Design	Patented Design	Common Design	More Uniformity Of Light
Reflector Material	Imported Al Anodized	Foil	Long Life

LED FITTINGS

PARAMETER	ACON	OTHERS	ADVANTAGES OF ACON
LED Driver Circuit	Constant Current Type	Common Driver	Long Life Of Lamps
LED Body	Efficient Heat Dissipation	Heat Retained	Long Life Of Lamps
LED Street Light	Special Polar Curve of 40 x 120 Degrees	80 x 80 Degrees	Best Uniformity Along Road & Highest Efficiency
LED's Used	German	Chinese	More Light & Life
Max. Distance Between 2 Poles	30 mtrs (100 ft.)	20-25 mtrs	Suitable Everywhere
Power Factor	0.95	0.60	As Per Indian &
THD (Harmonics)	< 30%	> 80%	International Standards
Consumption To Substitute 150 W HPSV / HPMV / MH	32 W 48 W	50 W 80 W	More Energy Efficient & Faster Pay Back

