

TCL LED PRODUCT APPLICATION

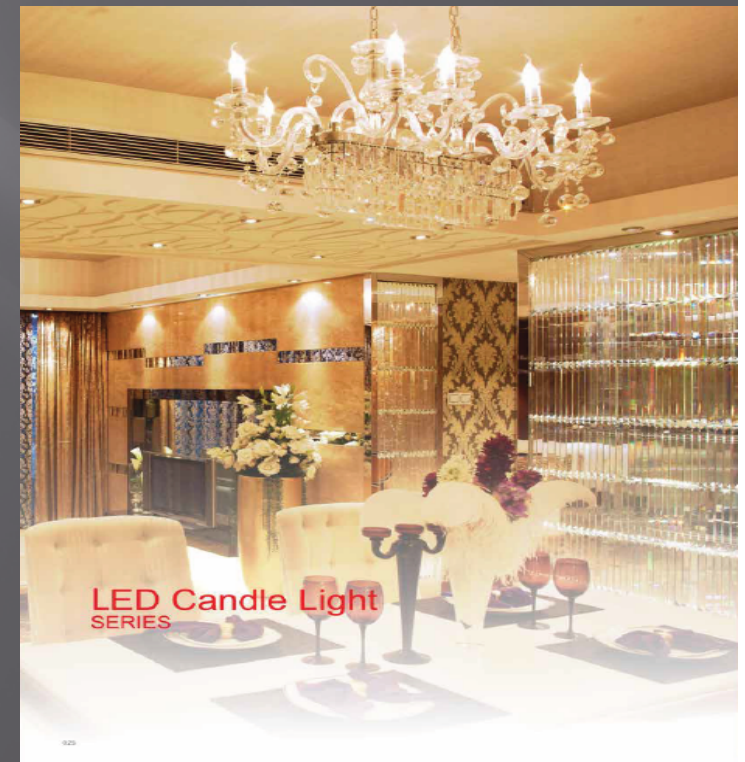
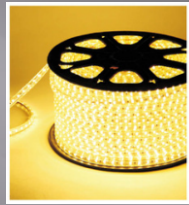
Products in Portfolio & Applications

Lights for Offices, corridors, Supermarkets



Applications

LED Lights for Living Rooms, Kitchens, Restrooms



LED BULB



Item	LED Model No.	Power (W)	Light Color Temp Available	Lamp Base
LED BULB	5W LED Bulb B22 Holder	5	3000K Warm White, 5000K White day light	B 22
	7W LED Bulb B22 Holder	7	3000K Warm White, 5000K White day light	B 22
	9W LED Bulb B22 Holder	9	3000K Warm White, 5000K White day light	B 22
	TCLBPZ220/05QBBRZWH/B1-A	5	3000K Warm White, 5000K White day light	E27
	TCLBPZ220/07QBBRZWH/B1-A	7	3000K Warm White, 5000K White day light	E27
	TCLBPZ220/09QBBRNWH/A3 - A	9	3000K Warm White, 5000K White day light	E27

5W Equivalent to 20W Incandescent
7W Equivalent to 40W Incandescent
9W Equivalent to 60W Incandescent

3 years Replacement warranty
Longer Life Span of the Product
Energy Saving upto 50%
Eco friendly

LED -MR 16 & GU10



Item	LED Model No.	Power (W)	Light Color Temp Available	Lamp Base	replacement
MR16	MR16 7W	7	3000K (Warm White), 6000K (cool white)	GU5.3	50W Halogen
	GU 10 7W	7	3000K (Warm White), 6000K (cool white)	GU10	50W Halogen



7W Equivalent to 50W Halogen

3 years Replacement warranty
Longer Life Span of the Product
Energy Saving upto 75%
Eco friendly

LED Candle Lamp



Item	LED Model No.	Power (W)	Light Color Temp Available	Lamp Base	Replacement
LED Candle Light	TCLBPZ22005LBHRDWH/JB-A	5	3000K (WARM WHITE)	E14	CFL
	TCLBPZ22005LBHRDWH/LB-A	5	3000K (WARM WHITE)	E14	CFL

5W Equivalent to 20W Incandescent
7W Equivalent to 40W Incandescent
9W Equivalent to 60W Incandescent

3 years Replacement warranty
Longer Life Span of the Product
Energy Saving upto 50%
Eco friendly

LED TUBE Lights



Item	LED Model No.	Power (W)	Light Color Temp Available	Lamp Base	Replacement	Replaced tube
LED TUBE	TCLBPZ220/08T8RM/B2-A	8W	6000K Cool White	G13	fluorescent tube	18W
	TCLBPZ220/08T8RN/B2-A	8W	3000K Warm White	G13	fluorescent tube	18W
	TCLBPZ220/15T8RN/B2-A	15W	3000k Warm White	G13	fluorescent tube	36W
	TCLBPZ220/15T8RM/B2-A	15W	6000K Cool White	G13	fluorescent tube	36W
	TCLBPZ220/22T8RM/A2	22W	6000K Cool White	G13	fluorescent lamp	58W

8W Equivalent 18W Conv Tube light
15W Equivalent 36W Conv Tube light
22W Equivalent 58W Conv Tube Light

3 years Replacement warranty
Longer Life Span of the Product
Energy Saving upto 60%
Eco friendly

LED Strip Light



Item	Model No.	Power (W)	Color Temp	Base	replacement
low voltage LED strip (12V)	TCLST-LED14RNYL/02-A	14.4W/m	3000K	12V LED Strip	fluorescent tube
	TCLST-LED14RRYL/02-A	14.4W/m	6000K	12V LED Strip	fluorescent tube

14.4W Equivalent to 28W Tube light

3 years Replacement warranty
Longer Life Span of the Product
Energy Saving upto 50%
Eco friendly

LED PL Lamps



Item	LED Model No.	Power (W)	Light Color Temp Available	Lamp Base	Replacement	Replaced CFL
PL Lamp	PL Lamp 8W E 27	8	3000K	E27	CFL	18W
	PL Lamp 8W E 27	8	6000k	E27	CFL	18W
	PL Lamp 8W 2 Pin / 4 Pin	8	3000K	2 Pin	CFL	18W
	PL Lamp 8W 2 Pin / 4 Pin	8	6000k	2 Pin	CFL	18W

8W Equivalent to 18W CFL

3 years Replacement warranty
Longer Life Span of the Product
Energy Saving upto 50%
Eco friendly

Typical Light Fixtures Study for Residential areas

Type of Apartments	Typical Qty of different lamps used			
	MR16 for Restrooms and Living Rooms	Bulb / CFL for common area + Suspended Living rooms	2 Feet Tube Light in Kitchen	Mirror Light for Restrooms
Studio	4	7	4	1
1 BHK	4	11	4	1
2 BHK	8	20	8	2
3 BHK	12	28	8	3

Synopsis - Studio Apt.

Power Saving on Lighting	69%
Cost Saving on Power for 3 years	520
ROI Years	0.35

Power Cost in Dubai (AED)

0.44

Return On Investment -- "Studio Apartment"

	Conventional Type of Light Source	LED Type of Light Source	Number of Lamps	Conventional Lamp Unit cost (AED)	Investment on Conventional Light Sources considering replacement every 18 months for 3 years (AED)	Power Consumption per year considering 5 hours usage per day with conventional light source (KwH)	Power Cost for using conventional Lamps(AED)	LED Lamp Unit cost (AED)	Investment on LED Light Sources considering NO replacement for 3 years (AED)	Power Consumption per year considering 5 hours usage per day with conventional light source (KwH)	Power Cost for using LED Lamps(AED)
Studio	50 W Halogen	7W MR16	4	3	24	365	161	25	100	51	22
	18 W CFL	9W LED Bulb	7	12	168	229.95	101	28	196	115	51
	18W Tube Light	8W 2 Feet Tube Light	4	3	24	131.4	58	22	88	58	26
	18W Mirror Light	8W 2 Feet Tube Light	1	3	6	32.85	14	22	22	15	6
					222	759	334		406	239	105

Typical Light Fixtures Study for Residential areas

Type of Apartments	Typical Qty of different lamps used			
	MR16 for Restrooms and Living Rooms	Bulb / CFL for common area + Suspended Living rooms	2 Feet Tube Light in Kitchen	Mirror Light for Restrooms
Studio	4	7	4	1
1 BHK	4	11	4	1
2 BHK	8	20	8	2
3 BHK	12	28	8	3

Synopsis - 1 BHK

Power Saving on Lighting	66%
Cost Saving on Power for 3 years	586
ROI Years	0.34

Power Cost in Dubai (AED)

0.44

Return On Investment -- "1 BHK Apartment"

	Conventional Type of Light Source	LED Type of Light Source	Number of Lamps	Conventional Lamp Unit cost (AED)	Investment on Conventional Light Sources considering replacement every 18 months for 3 years (AED)	Power Consumption per year considering 5 hours usage per day with conventional light source (KwH)	Power Cost for using conventional Lamps(AED)	LED Lamp Unit cost (AED)	Investment on LED Light Sources considering NO replacement for 3 years (AED)	Power Consumption per year considering 5 hours usage per day with conventional light source (KwH)	Power Cost for using LED Lamps(AED)
Studio	50 W Halogen	7W MR16	4	3	24	365	161	25	100	51	22
	18 W CFL	9W LED Bulb	11	12	264	361.35	159	28	308	181	79
	18W Tube Light	8W 2 Feet Tube Light	4	3	24	131.4	58	22	88	58	26
	18W Mirror Light	8W 2 Feet Tube Light	1	3	6	32.85	14	22	22	15	6
					318	891	392		518	305	134

Typical Light Fixtures Study for Residential areas

Type of Apartments	Typical Qty of different lamps used			
	MR16 for Restrooms and Living Rooms	Bulb / CFL for common area + Suspended Living rooms	2 Feet Tube Light in Kitchen	Mirror Light for Restrooms
Studio	4	7	4	1
1 BHK	4	11	4	1
2 BHK	8	20	8	2
3 BHK	12	28	8	3

Synopsis - 2 BHK

Power Saving on Lighting	66%
Cost Saving on Power for 3 years	1139
ROI Years	0.34

Power Cost in Dubai (AED)	0.44
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Return On Investment -- "2 BHK Apartment"

	Conventional Type of Light Source	LED Type of Light Source	Number of Lamps	Conventional Lamp Unit cost (AED)	Investment on Conventional Light Sources considering replacement every 18 months for 3 years (AED)	Power Consumption per year considering 5 hours usage per day with conventional light source (KwH)	Power Cost for using conventional Lamps(AED)	LED Lamp Unit cost (AED)	Investment on LED Light Sources considering NO replacement for 3 years (AED)	Power Consumption per year considering 5 hours usage per day with conventional light source (KwH)	Power Cost for using LED Lamps(AED)
Studio	50 W ...	7W MR16	8	3	48	730	321	25	200	102	45
	18 W CFL	9W LED Bulb	20	12	480	657	289	28	560	329	145
	18W Tube Light	8W 2 Feet Tube Light	8	3	48	262.8	116	22	176	117	51
	18W Mirror Light	8W 2 Feet Tube Light	2	3	12	65.7	29	22	44	29	13
					588	1716	755		980	577	254

Typical Light Fixtures Study for Residential areas

Type of Apartments	Typical Qty of different lamps used			
	MR16 for Restrooms and Living Rooms	Bulb / CFL for common area + Suspended Living rooms	2 Feet Tube Light in Kitchen	Mirror Light for Restrooms
Studio	4	7	4	1
1 BHK	4	11	4	1
2 BHK	8	20	8	2
3 BHK	12	28	8	3

Synopsis - 3 BHK

Power Saving on Lighting	67%
Cost Saving on Power for 3 years	1602
ROI Years	0.32

Power Cost in Dubai (AED)

0.44

Return On Investment -- "3 BHK Apartment"

	Conventional Type of Light Source	LED Type of Light Source	Number of Lamps	Conventional Lamp Unit cost (AED)	Investment on Conventional Light Sources considering replacement every 18 months for 3 years (AED)	Power Consumption per year considering 5 hours usage per day with conventional light source (KwH)	Power Cost for using conventional Lamps(AED)	LED Lamp Unit cost (AED)	Investment on LED Light Sources considering NO replacement for 3 years (AED)	Power Consumption per year considering 5 hours usage per day with conventional light source (KwH)	Power Cost for using LED Lamps(AED)
Studio	50 W Halogen	7W MR16	12	3	72	1095	482	25	300	153	67
	18 W CFL	9W LED Bulb	28	12	672	919.8	405	28	784	460	202
	18W Tube Light	8W 2 Feet Tube Light	8	3	48	262.8	116	22	176	117	51
	18W Mirror Light	8W 2 Feet Tube Light	3	3	18	98.55	43	22	66	44	19
					810	2376	1046		1326	774	340

LED lighting versus other lighting sources

Light Source	CFL	LED
Lumens/Watt (Source)	50-70	91-130
Lumens/Watt (Application)	30-50	70-100
Colour Correlated Temperature	3400K-6500K	2700K-6500K
Rated Life- 50% depreciate	5,000 Hrs	>50,000 Hrs
Eco-Friendly components?	Mercury Used	Eco-Friendly
Potential for carbon-Credits	Yes	Yes

THANK YOU