

T8 tube light data

T8 tube light information

CLTL
—LED solutions—



The CLTL LED tube integrates a LED light source into a traditional fluorescent form factor. Its unique design creates a perfectly uniform visual appearance which cannot be distinguished from traditional fluorescent. For those that are looking for value for money within limited budget and Re-lamping efforts for better light effect and lifetime.



Product Benefits

- Reduced operational cost thanks to lower energy consumption
- Lower maintenance cost thanks to 2-3 times longer lifetime than normal fluorescent tubes
- Fastest and easiest way to upgrade existing luminaire to LED technology; 100%- safe installation Process

Features

- Only 50% energy consumption compared to fluorescent tubes, light efficiency up to 105lm/W
- Extra-long life of 50,000 hours
- CRI up to 80, show the most intuitive and clear, and color temperature optional
- Full safety features and EM Protector safety device
- Solid light, seismic and strong, easy to transport and install, safe
- Green, no ultraviolet, infrared, thermal radiation and mercury pollution

Applications

- Parking lots / covered car parks
- Warehouses / cold rooms / signage
- Transport and distribution areas
- Food & Museums
- Office

Cover type



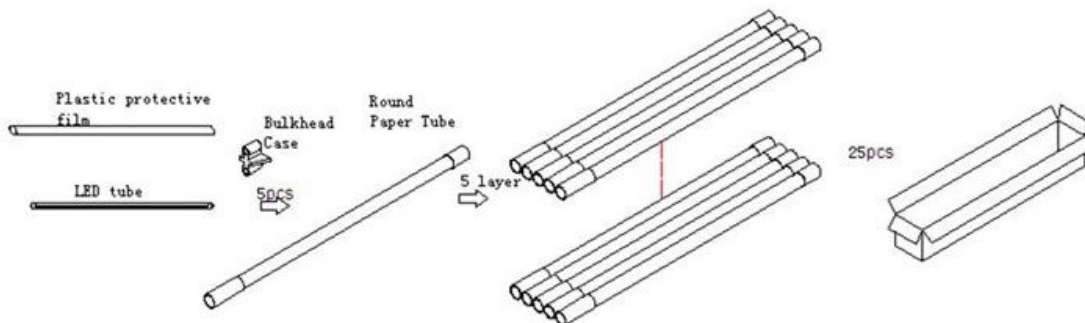
Parameter

Model	Size	Power	Input Voltage	CCT	CRI	Lumens	Beam Angle	Start Time	Life	Cap
CH-TB-20W	4foot	20W	100-277V	3000-5700k	>80Ra	>2200lm	120°	<1s	>50000h	G13

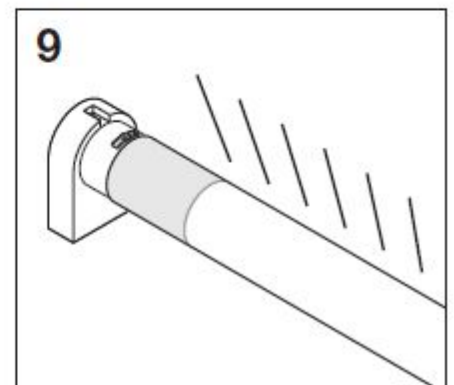
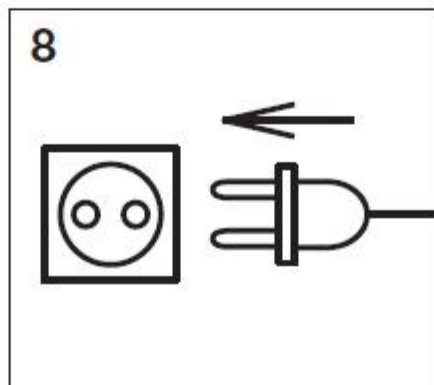
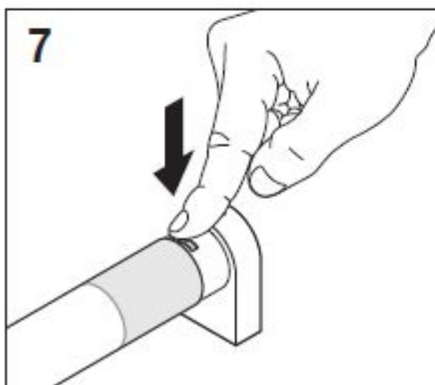
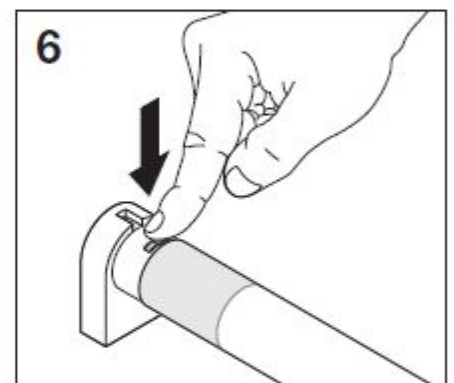
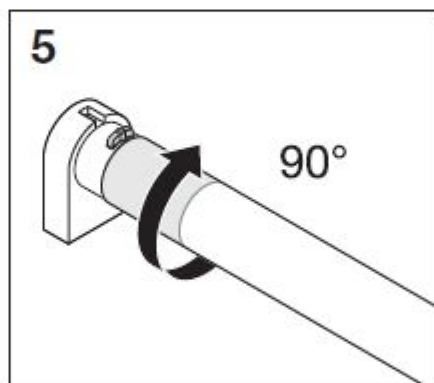
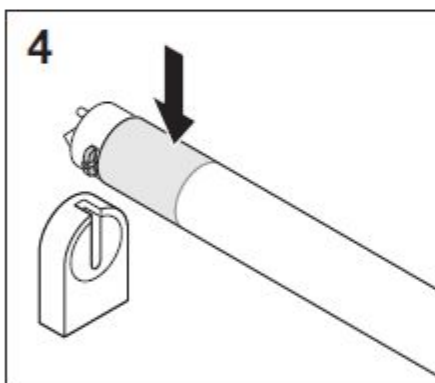
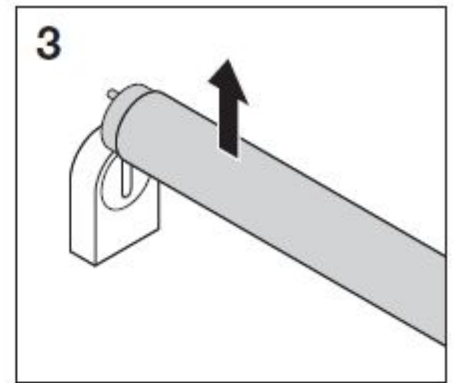
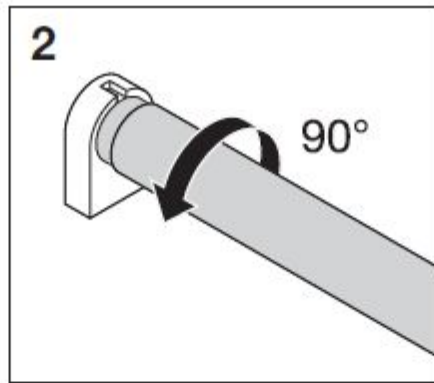
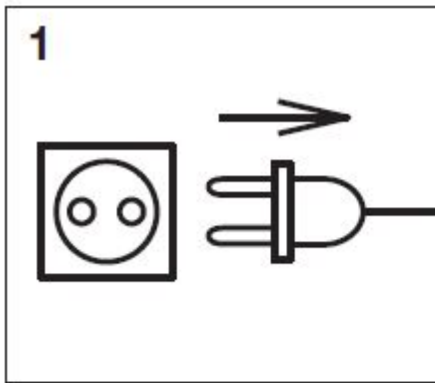
Packing

Model	Meas	Volume	Qty	Net weight
CH-TB-20W	1250*220*220mm	60.5dm ³	25pcs/carton	12.3kg

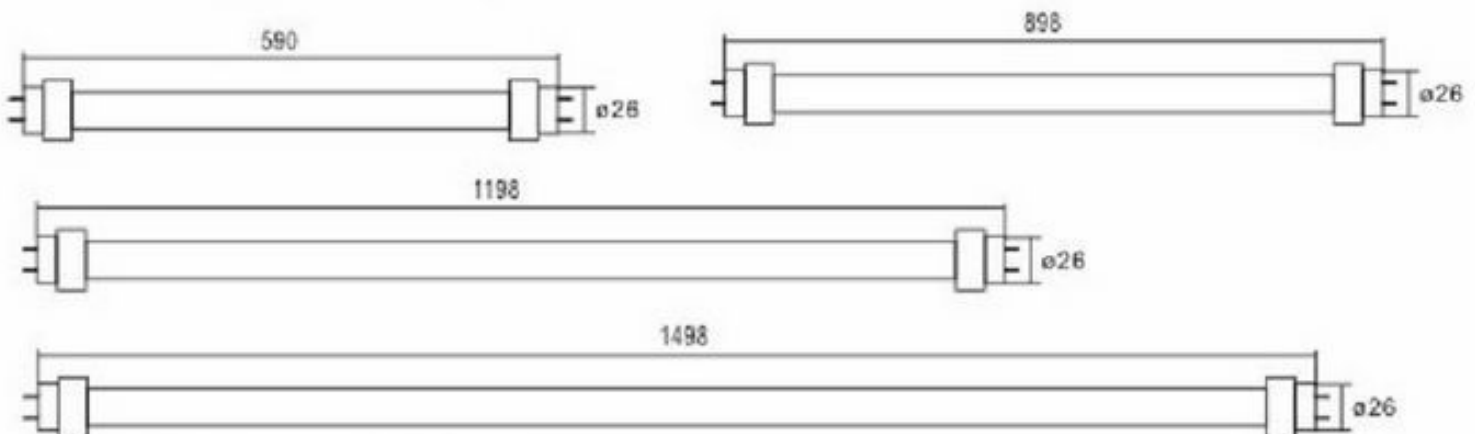
No.2 Carton tubepackaging:



Installation(To replace traditional fluorescent)



Product Dimension Drawing



Energy Saving Calculation

Take “20W LED T8 light replace 36W Fluorescent T8 light”as sample



LED t8 tube light



Fluorescent t8 tube light

Lamp Style	LED T8 tube light	Fluorescent T8 tube light
Power	20W	36W
Length	4foot(1200mm)	4foot(1200mm)
CRI	80	80
CCT	5000K	5000K
L70	50000Hours	10000Hours
Luminaire Efficiency	105lm/W	60lm/W

Calculate Progress

(Fluorescent used must match with Ballast,so ballast can cost the power,about 6W for 36W fluorescent)

A project need 1000pcs T8 tube light.we use two style lamp to compare,LED and Fluorescent

LUMINAIRE DEFINITION		1
Fixture Brand		-
Fixture Model		(double-click me)
Lamp Type		LED
Input Watts Per Luminaire-Full Power		20
APPLICATION		
Fixture Quantity		1,000
Operating Hours/Day-Full Power		12
POWER CALCULATIONS		
Total kW		20.000
Total kW Saved		16.000
Annual Operating Hours (365 days)		4,380
Annual kWh		87,600
Annual kWh Saved		70,080
LUMINAIRE COSTS		
Per Luminaire Cost		\$ 15.00
Installation Cost (Per Luminaire)		\$ 5.00

1	LUMINAIRE DEFINITION	
(type description)	Fixture Brand	
(type description)	Fixture Model	
T8	Lamp Type	
36	Input Watts Per Luminaire	
APPLICATION		
1,000	Fixture Quantity	
12	Operating Hours/Day-Full Power	
POWER CALCULATIONS		
36.000	Total kW	
4,380	Annual Operating Hours (365 days)	
157,680	Annual kWh	
LUMINAIRE COSTS		
\$10.00	Per Luminaire Cost (w/lamp)	
\$ 5.00	Installation Cost (Per Luminaire)	

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LED MAINTENANCE COSTS	
LED MODULE DESCRIPTION (type description)	GROUP
Choose Method of Relamp	\$200.00
Site Fee (If applicable; flat charge per site relamping)	\$3.00
LED Lamp Module Cost Per Fixture (mtrl)	\$1.00
Labor Cost Per Fixture (labor, rental)	\$0.50
Recycle Fee Per Lamp (If Applicable)	\$4.50
Total Lamp Module Replacement Cost (Per Fixture)	50,000
Rated Life (hours)	8.6
Useful Life LED Systems (Years)	
ANNUALIZED LED COST SUMMARY	
Total LED System Cost	\$20,000
Annual LED Energy Cost	\$12,051

TRADITIONAL MAINTENANCE COSTS	
(type description)	LAMP DESCRIPTION
GROUP	Choose Method of Relamp
\$200.00	Site Fee (If applicable; flat charge per site relamping)
\$3.00	Lamp Cost Per Fixture (mtrl)
\$1.00	Labor Cost Per Fixture (labor, rental)
\$-	Recycle Fee Per Lamp
\$4.00	Total Lamp Replacement Cost (Per Fixture)
10,000	Rated Lamp Life (hours)
ANNUALIZED TRADITIONAL COST SUMMARY	
\$15,000	Total Traditional System Cost
\$21,691	Annual Traditional Energy Cost

PAYBACK ANALYSIS	
AVERAGE ANNUALIZED SAVINGS PER YEAR	
Annual Energy Savings	\$9,641
Annual Lamp Maintenance Savings	\$2,940
Annual Combined Savings	\$12,581
Cost of Waiting (Monthly)	\$1,048
Simple Payback (years)	0.40
IRR (%)	252%
10 Year Cash Flow (Energy & Lamp Main.)	\$120,807
<p>Note: These are estimated savings only. Annual and monthly savings are based on a number of variables and assumptions that could change over time. The actual savings derived by your firm may be higher or lower. Eaton's Cooper Lighting business does not imply a warranty of performance or savings as calculated and shown within this program and document.</p>	

