

## 36W Panel light data sheet

36W Panel light information

**CLTL**  
—LED solutions—



### Product Benefits

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

### Features

- UL1598C Standard, with isolated external power supply
- LGP 3mm thick, imported from Taiwan
- 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

- Hotels / Meeting Rooms/
- Factories / Offices / Car parks /Schools/ Hospitals / Supermarkets /
- Railway Stations & Airports

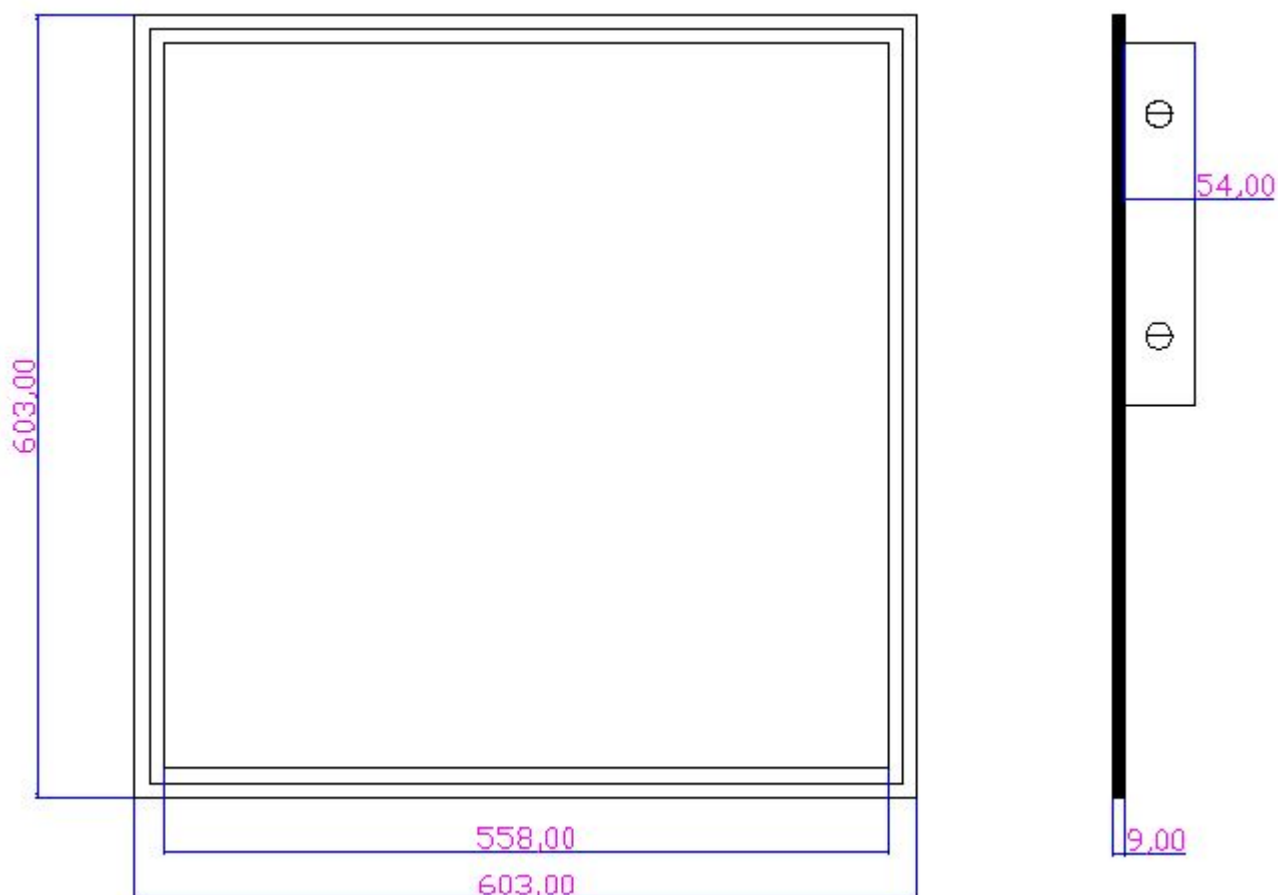
## Replaced lamp panel



## Parameter

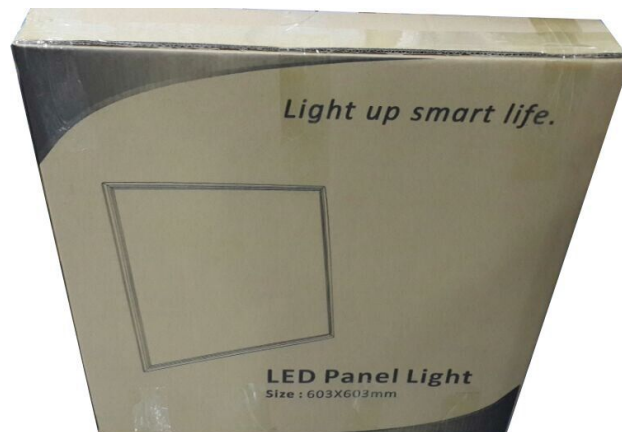
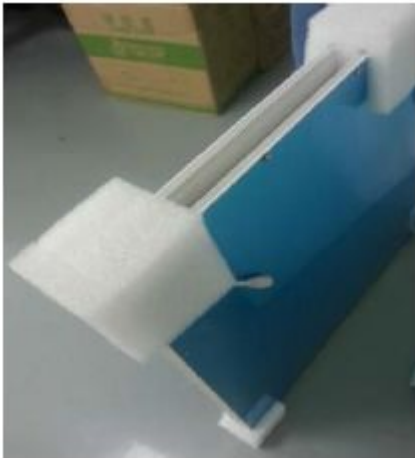
Model	Size	Power	Input Voltage	CCT	CRI	Lumens	Beam Angle	Start Time	Life	Dimming
CH-MB-36W	2ft*2ft	36W	100-277V	2800-3200K	>80Ra	3060lm	120°	<0.5s	>50000h	NO
				4000-4500K	>80Ra	3160lm				
				5000-5500K	>80Ra	3240lm				

## Size(mm)



## Packing

Model	Meas	Volume	Qty	Net weight
CH-MB-36W	660*660*110mm	47.9dm <sup>3</sup>	2pcs/carton	9.8kg

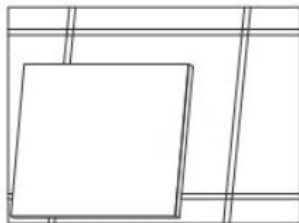


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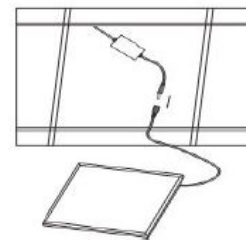
## Installation (To replace traditional Lamp panel with 3 fluorescent)

### A. Embedded Installation:

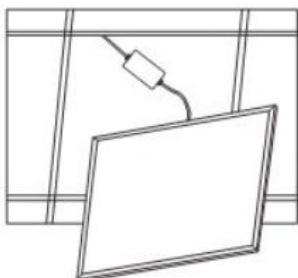
1. move away ceiling plaster slab



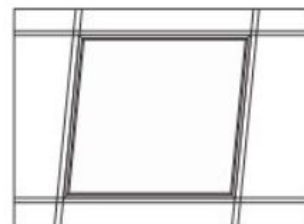
2. Connect the wire



3. Place the panel light to suitable place

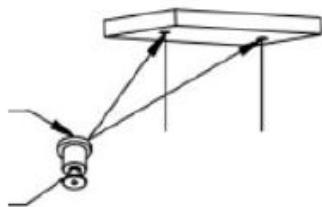


4. Put panel light steadily

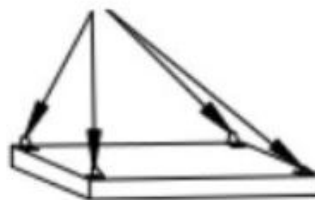


## B. Hanging on ceiling

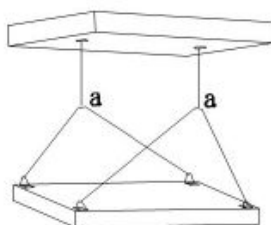
1. Fix the hook and screws on ceiling



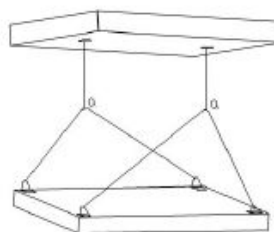
2. Connect the steel wire rope to the panel light



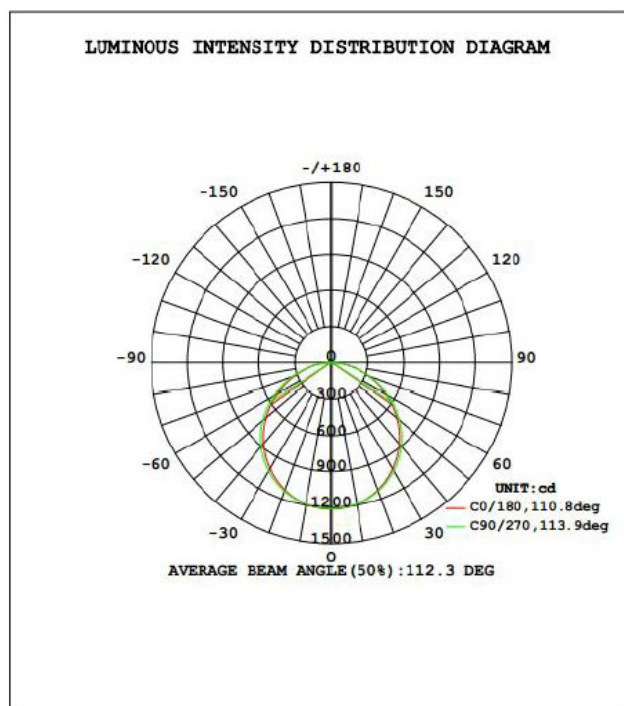
3. Hanging the retaining rings on the hook



4. Adjust wire rope length and connect power



## Luminous Distribution



Height	Eavg, Emax	Angle: 110.77deg	Diameter
1m	363.6, 1214lx		289.75cm
2m	90.89, 303.6lx		579.50cm
3m	40.40, 134.9lx		869.26cm
4m	22.72, 75.9lx		1159.01cm
5m	14.54, 48.5lx		1448.76cm

## Energy Saving Calculation

36W LED T8 light is designed to replace Traditional lamp panel with 3 20W Fluorescent T8 light



LED panel light



Traditional lamp panel

Lamp Style	LED panel light	Fluorescent T8 tube light
Power	36W	20W*3
Length	2foot*2foot(603*603mm)	2foot*2foot(603*603mm)
CRI	80	80
CCT	5000K	5000K
L70	50000Hours	10000Hours
Luminaire Efficiency	90lm/W	60lm/W

### Calculate Progress

(Fluorescent used must match with Ballast,so ballast can cost the power,about 12W for 3\*20W T8 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	36
<b>APPLICATION</b>	
Fixture Quantity	1,000
Operating Hours/Day-Full Power	12
<b>POWER CALCULATIONS</b>	
Total kW	36.000
Total kW Saved	-
Annual Operating Hours (365 days)	4,380
Annual kWh	157,680
Annual kWh Saved	-
<b>LUMINAIRE COSTS</b>	
Per Luminaire Cost	\$ 40.00
Installation Cost (Per Luminaire)	\$ 4.00
<b>LED MAINTENANCE COSTS</b>	
LED MODULE DESCRIPTION (type description)	GROUP
Choose Method of Relamp	\$ 200.00
Site Fee (If applicable; flat charge per site relamping)	\$ -
LED Lamp Module Cost Per Fixture (mtrl)	\$ 1.00
Labor Cost Per Fixture (labor, rental)	\$ 0.50
Recycle Fee Per Lamp (If Applicable)	\$ 1.50
Total Lamp Module Replacement Cost (Per Fixture)	50,000
Rated Life (hours)	8.6
Useful Life LED Systems (Years)	

1	2	3	LUMINAIRE DEFINITION
(type description)	(type description)	(type description)	Fixture Brand
(type description)	(type description)	(type description)	Fixture Model
FLUORESCENT	FLUORESCENT	FLUORESCENT	Lamp Type
20	20	20	Input Watts Per Luminaire
<b>APPLICATION</b>			
1,000	1,000	1,000	Fixture Quantity
12	12	12	Operating Hours/Day-Full Power
<b>POWER CALCULATIONS</b>			
20.000	20.000	20.000	Total kW
4,380	4,380	4,380	Annual Operating Hours (365 days)
87,600	87,600	87,600	Annual kWh
<b>LUMINAIRE COSTS</b>			
\$ 8.00	\$ 8.00	\$ 8.00	Per Luminaire Cost (w/lamp)
\$ 3.00	\$ 3.00	\$ 3.00	Installation Cost (Per Luminaire)
<b>TRADITIONAL MAINTENANCE COSTS</b>			
(type description)	(type description)	(type description)	LAMP DESCRIPTION
GROUP	GROUP	GROUP	Choose Method of Relamp
\$ 65.00	\$ 65.00	\$ 65.00	Site Fee (If applicable; flat charge per site relamping)
\$ 2.00	\$ 2.00	\$ 2.00	Lamp Cost Per Fixture (mtrl)
\$ 1.00	\$ 1.00	\$ 1.00	Labor Cost Per Fixture (labor, rental)
\$ 0.10	\$ 0.10	\$ 0.10	Recycle Fee Per Lamp
\$ 3.10	\$ 3.10	\$ 3.10	Total Lamp Replacement Cost (Per Fixture)
10,000	10,000	10,000	Rated Lamp Life (hours)

# 36W LED Panel light information

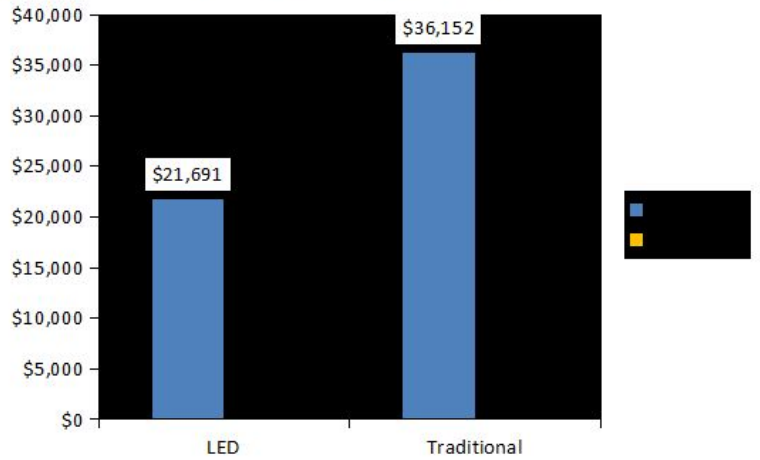
## PAYBACK ANALYSIS

### AVERAGE ANNUALIZED SAVINGS PER YEAR

Annual Energy Savings	\$14,461
Annual Lamp Maintenance Savings	\$ 6,633
Annual Combined Savings	<b>\$21,094</b>
Cost of Waiting (Monthly)	\$ 1,758
Simple Payback (years)	0.52
IRR (%)	192%
10 Year Cash Flow (Energy & Lamp Main.)	\$199,940

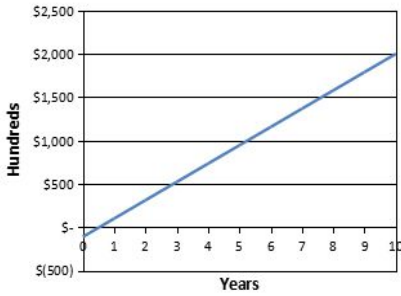
Note: These are estimated savings only. Annual and monthly savings are based on a number of variables and assumptions that could change over time. The actual savings derived by your firm may be higher or lower. Eaton's Cooper Lighting business does not imply a warranty of performance or savings as calculated and shown within this program and document.

### Annual Operating Cost: Energy & Lamp Maintenance



## The result of the calculation:

### LED Payback (Years)



Payback = 0.52 Years

### System Energy & Maintenance Cost Summary

	LED	Traditional
Total Initial Fixture/Installation Cost	\$44,000	\$33,000
Total System kW	36.00	60.00
Annual kWh	157,680	262,800
Cost of Energy per kWh	\$0.120	\$0.120
kWh Inflation Rate (%/yr)	3.00%	3.00%
Average Annual Energy Cost	\$21,691	\$36,152
Average Annual Maintenance Cost	\$20	\$6,653
Average Annual Energy + Maintenance Costs	\$21,711	\$42,805
Average Annual Energy & Maintenance Savings	<b>\$21,094</b>	

	Savings		Cost/Year	
	Annual	Cumulative	LED	Traditional
1st Year	\$12,614	\$12,614	\$18,922	\$31,536
5th Year	\$19,091	\$62,457	\$20,091	\$39,183
10th Year	\$21,094	\$177,940	\$21,711	\$42,805

	Cost	
	LED	Traditional
10 Year Total	\$217,115	\$428,055

### Maintenance + Energy Costs by Year

