



ENERGY EFFICIENCY CERTIFICATION (EEC): Test Report

Project Number:	GZE150531-D
Customer Name:	L-TECH CORPORTION
Address:	SHAOGANGTOU DISTRICT.QIAOTOU TOWN.DONGGUAN
	CITY.GUANGDONG PROVINCE,CHINA
Brand name(s):	L-TECH CORP
	CLED4P With TCLD4
Model name(s):	CLED4A With TCLD4
	CLED4R With TCLD4
Product category:	SSL downlight
Electrical Ratings:	120~277Vac, 50/60Hz, 27W
Representative (Tested) Model:	CLED4A With TCLD4
Model differences:	The construction and ratings of Model CLKT4 are the same as
woder differences.	Model CLED4A, except ceiling mounting bracket
LED Manufacturer:	EVERLIGHT ELECTRONICS CO.,LTD
LED Model:	62-217D

The Sample(s) tested is(are) compliant with the following applied standards/regulations: ENERGY STAR [®] : ENERGY STAR[®] Program Requirements Product Specification for Luminaires - Version 2.0

Test & Report By:

Dendi Lin

Engineer: Dendi Lin

Date: Sep.01,2015

Review By:

Tommy Liang

Manager: Tommy Liang









STD/QR4910-A/1



Address: 8th floor, Block B, No. 11 Caipin Road, Guangzhou Science City, Tianhe, Guangzhou 510663, China Tel: 8620-3229 0320 Fax: 8620-32290422 http://www.standard-tech.com











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Annex					
Regulatory Body	Tests to Determine Compliance	The Type Luminaires	Test Limit per Regulation or Program Requirement	Measured Efficiency or Limit Level	Pass / Or Fail
ENERGY STAR	Luminaire Minimum Light Output	SSL downlight	 ≤ 4.5" aperture: 345 lumens > 4.5" aperture: 575 lumens 	1725.1lm	Pass
ENERGY STAR	Input Wattage	All	≤ Rated Wattage	26.88W	Pass
ENERGY STAR	Luminous Efficacy	SSL downlight/ SSL downlight retrofits	≥60 lm/W ≥55 lm/W	64.18 lm/W	Pass
ENERGY STAR	Zonal Lumen Density	SSL downlight	≥75% of total initiallumens within the0-60° zone	89.5%	Pass
ENERGY STAR	Correlated Color Temperature (CCT)	Shall be capable of providing at least one of the following nominal correlated color temperatures (CCTs): 2700 Kelvin 3000 Kelvin 4000 Kelvin 5000 Kelvin	3045 ± 175 K Duv 0.0001 ± 0.006	3071K Duv=-0.0031	Pass
ENERGY STAR	Color Rendering Index (CRI)	All	Ra ≥ 80 R9 > 0	Ra = 85.8 R9 = 28	Pass
ENERGY STAR	Color Maintenance	Solid State	Δu'v' ≤ 0.007	See LM-80	Pass





ENERGY STAR	Color Angular Uniform	SSL downlight	The variation of chromaticity shall be within 0.006 from the weighted average point on the CIE 1976 (u',v') diagram	Refer to Model CLKT4	Pass
ENERGY STAR	Start Time	Solid State	< 750 ms	Refer to Model CLKT4	Pass
ENERGY STAR	Power Factor	Solid State	Total luminaire input power \leq 5 watts: PF \geq 0.5 Total luminaire input power > 5 watts: PF \geq 0.7	0.9777	Pass





Annex					
ENERGY STAR	Transient Protection	All Luminaires	The line transient shall consist of seven strikes of a 100 kHz ring wave, 2.5 kV level, for both common mode and differential mode.	Comply	Pass
ENERGY STAR	Dimming	Solid State	The luminaire and its components shall provide continuous dimming from 100% to 35% of total light output.	Comply	Pass
ENERGY STAR	Operating Frequency Requirements - Directional and Non-Directional Luminaires	Solid State	Frequency ≥ 120 Hz	Refer to Model CLKT4	Pass
ENERGY STAR	Driver Replaceability	Solid State	Drivers shall be accessible and removable by an electrician without the cutting of wires and without damage to the luminaire housing, trim, decorative elements or the carpentry (e.g., ceiling drywall) to which the luminaire is attached.	N/A	Pass
ENERGY STAR	Maximum Measured Ballast or Driver Case Temperature	Solid State	≤ 105 °C	Refer to Model CLKT4	Pass
ENERGY STAR	Maximum In-Situ Source Temperature	Solid State	≤ 95°C	Refer to Model CLKT4	Pass
ENERGY STAR	Warranty	Solid State	≥ 5 years	5 years	Pass





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ENERGY STAR	Safety	Solid State	N/A	N/A	Pass
ENERGY STAR	Lighting Toxics Reduction Requirements	Solid State	N/A	RoHS report has been verified	Pass
ENERGY STAR	Packaging Requirement				
ENERGY STAR	ССТ	Solid State	Packaging shall clearly describe the nominal color designation in units of Kelvin (e.g. 2700K, 3000K).	3000K	Pass

---- End of Report ----