



STD/QR4910-A/1

ENERGY EFFICIENCY CERTIFICATION (EEC): Test Report

Project Number: GZE151016-A1

Customer Name: L-TECH CORPORTION

Address: SHAOGANGTOU DISTRICT.QIAOTOU TOWN.

DONGGUAN CITY.GUANGDONG PROVINCE, CHINA

Brand name(s): L-TECH CORP

Model name(s): LTSQ544

Product category: LED DOWNLIGHT

Electrical Ratings: 120Vac,60Hz 16W

Representative (Tested) Model: LTSQ544

Model differences: N/A

LED Manufacturer: EVERLIGHT ELECTRONICS CO.,LTD.

LED Model 62-217D(3000 K)

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:

Review By:

Johnson Sun

Manager: Tommy Liang

Tommy Liang

Engineer: Johnson Sun

Date: Nov.11.2015

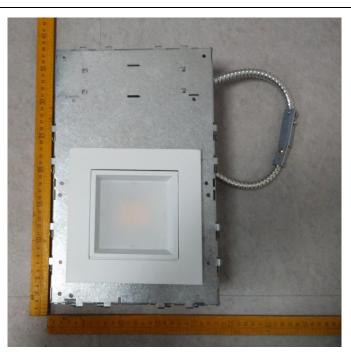




STD/QR4910-A/1

Attachment

Photo









STD/QR4910-A/1

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 retrofits	≤ 4.5" aperture: 345 lumens > 4.5" aperture: 575 lumens	1211.3lm	Pass
ENERGY STAR	Input Wattage	All	≤ Rated Wattage	15.85W	Pass
ENERGY STAR	Luminous Efficacy	SSL downlight retrofits	≥60 lm/W	76.42lm/W	Pass
ENERGY STAR	Zonal Lumen Density	SSL downlight retrofits	≥75% of total initiallumens within the0-60° zone	86.4%	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	2725 ± 145 K Duv -0.0001± 0.006	2700K:2711K Duv=-0.0008	Pass
ENERGY STAR	Color Rendering Index (CRI)	All	Ra ≥ 80 R9 > 0	Ra = 86.6 R9 = 35	Pass
ENERGY STAR	Color Maintenance	Solid State	Δu'v' ≤ 0.007	See LM80	Pass



NVLAP LAB CODE 201011-0

STD/QR4910-A/1

ENERGY STAR	Color Angular Uniform	SSL downlight retrofits	The variation of chromaticity shall be within 0.006 from the weighted average point on the CIE 1976 (u',v') diagram	0.0038	Pass
ENERGY STAR	Start Time	Solid State	< 750 ms	117ms	Pass
ENERGY STAR	Power Factor	Solid State	Total luminaire input power ≤ 5 watts: PF ≥ 0.5 Total luminaire input power > 5 watts: PF ≥ 0.7	0.9951	Pass



NVLAP LAB CODE 201011-0

STD/QR4910-A/1

nnex					
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 20% of total light output.	Comply	Pass
ENERGY STAR	Operating Frequency Requirements - Directional and Non-Directional Luminaires	Solid State	Frequency ≥ 120 Hz	120.11Hz	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	68.2°C	Pass
ENERGY STAR	Maximum In-Situ Source Temperature	Solid State	≤ 95°C	62.5°C	Pass
ENERGY STAR	Warranty	Solid State	≥ 3 years	3 years	Pass





STD/QR4910-A/1

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).	2700K,3000K, 3500K,4000K, 4500K,5000K	Pass	

--- End of Report ---