



Report No.: GZE1705005-H-D1

LM-79-08 Test Report

For

L-TECH CORPORTION

(Brand Name:L-TECH CORP)

SHAOGANGTOU DISTRICT.QIAOTOU TOWN.DONGGUAN CITY.GUANGDONG PROVINCE,CHINA

LED Luminaires

Model name(s): LRKT400-4090, SLKT400-4090

Representative (Tested) Model: LRKT403-4090

Model Different: Model LRKT403-4090 is the same with LRKT400-4090 except there is stripe on the housing of model LRKT403-4090

Test & Report By:

Rill Luo

Engineer: Bill Luo Date: Jul.28,2017 Review By:

Tommy Liang

Manager: Tommy Liang

Note: This report does not imply product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

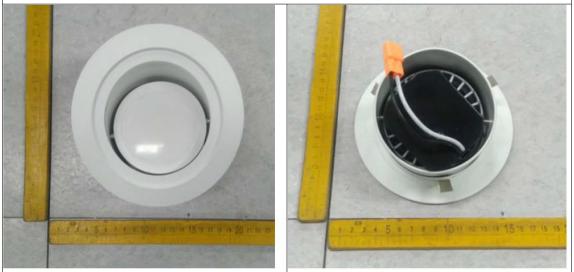




1.1 Product Information:

Organization Name	L-TECH CORPORTION	
Brand Name	L-TECH CORP	
Model Number	LRKT400-4090, SLKT400-4090	
SKU (if available)	N/A	
Type of Luminaire	LED Louissing	
(for integral lamps, list base type and lamp type)	LED Luminaires	
Rated Voltage / Frequency	120 Vac, 50/60 Hz	
Nominal Power	12W	
Rated Initial Lamp Lumen		
Declared CCT	4000K	
LED Manufacturer	Edison Opto Corporation	
LED Model	2T03X5WW11000003	
Sample Number	GZE1705005-H-D4	
Luminaire Aperture (for downlights)		in.
Luminaire Length		mm
Luminaires Width		mm
Number of Units (modular products)	N/A	s

Photo







1.2 Test Specifications:

Date of Receipt	Jul.13,2017	
Date of Test	Jul.18,2017	
	1. Total Luminous Flux	
	2. Luminous Efficacy	
Test item	3. Correlated Color Temperature	
lest item	4. Color Rendering Index	
	5. Chromaticity Coordinate	
	6. Electrical Parameters	
	1. IES LM-79-2008 Electrical and Photometric Measurements of	
Reference Standard	Solid-State Lighting Products	
	2. ANSI C78.377-2008 Specifications for the Chromaticity of Solid	
	State Lighting Products	
	3. CIE 13.3-1995 Method of Measuring and Specifying Colour	
	Rendering Properties of Light Sources	
	4. CIE 15-2004 Technical Report Colorimetry	
	5. IESNA LM-16-93 Practical Guide to Colorimetry of Light Source	
	6. IESNA TM-16-05 Technical Memorandum on Light Emitting	
	Diode (LED) Sources and Systems	
Reference Work Instruction	QD25	

1.3 Test Methods

1) Chromaticity Measurement – Sphere-Spectroradiometer Method:

Chromaticity parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25° C \pm 1° C. The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere. The sample was operated at 120 or rated Volts AC, 60Hz. It was stabilized before measurement was made. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral power distribution taken at 5 nm intervals over the range of 380 to 780 nm.

2) Electrical Measurements:

Electrical parameters were measured using power meters incorporated in goniophotometer or sphere-spectroradiometer system. The ambient temperature surrounding the sample was maintained at 25° C \pm 1° C. The sample was operated at 120 or rated Volts AC, 60Hz. It was stabilized before measurement was made. Voltage, frequency, current, power, power factor and total harmonic distortion were measured by and read from the power meter.





2.1 Electrical, Photometric and Chromaticity Measurements

(Refer to Work Instruction QD25)

Test date	2017-07-18	Test Ambient:	25.2 ° C
Test Orientation	As intended	Stabilization Time (min)	90
Model Number	LRKT403-4090		

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
GZE170500		60	0.1022	11.99	0.9777
5-H-D4	120.0	60	0.1022	11.99	0.9777

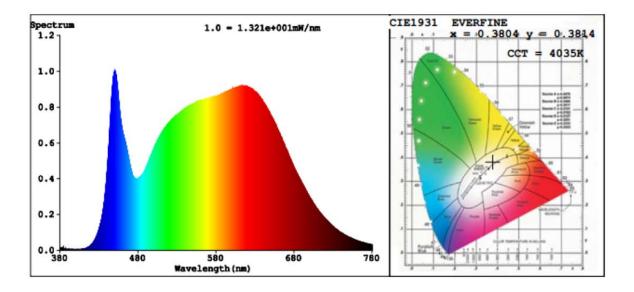
Parameter	Result		
Test Voltage (V)	120.0		
Frequency (Hz)	60		
CCT (K)	4035		
Duv	0.0022		
Chromaticity (x, y)	x=0.3804 y=0.3814		
Chromaticity (u', v')	u'=0.2232 v'=0.5036		
Color Rendering Index (CRI)	92.7		
R9	65		
Total Luminous (lm)	783.7		
Luminous Efficacy (lm/W)	65.36		

Special Color Rendering Indices			
R1	93	R9	65
R2	95	R10	87
R3	96	R11	92
R4	93	R12	71
R5	92	R13	93
R6	92	R14	97
R7	95	R15	90
R8	87		





Spectral Power Distribution & Chromaticity Diagram



 Laboratory: Standard-Tech Co. Ltd Testing Center

 NVLAP CODE: 201011-0

 Report Format Number STD/QR4909-A/2

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 5 / 6





3. Test Equipment

Equipment ID	Equipment Name	Last Calibration Date	Next Calibration Date
ST-R-336	2 meter Integrating Sphere	2017-07-01	2018-06-30
ST-R-331	Spectral analysis system HAAS-2000	2017-07-01	2018-06-30
D204	Standard Lamp	2017-07-01	2018-06-30
PF2010	Power Meter for Integrating Sphere	2017-07-01	2018-06-30
Uncertainty:			
Photometric Measurement (Sphere):1.74%			
Chromaticity Measurement(Sphere):14.3K			