



Report No.: GZE1705005-H-C1

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): LRKT3571-3090

Model Different: N/A

Test & Report By:

Bill Luo

Engineer: Bill Luo Date: May.25,2017

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.

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1.1 Product Information:

Organization Name	L-TECH CORPORTION		
Brand Name	L-TECH CORP		
Model Number	LRKT3571-3090		
SKU (if available)	N/A		
Type of Luminaire			
(for integral lamps, list base type and lamp type)	LED Luminaires		
Rated Voltage / Frequency	120 Vac, 50/60 Hz		
Nominal Power	9W		
Rated Initial Lamp Lumen			
Declared CCT	3000K		
LED Manufacturer	N/A		
LED Model	2835S Series		
Sample Number	GZE1705005-H-C1		
Luminaire Aperture (for downlights)		in.	
Luminaire Length		mm	
Luminaires Width		mm	
Number of Units (modular products)	N/A s		









1.2 Test Specifications:

Date of Receipt	May.15,2017		
Date of Test	May.17,2017		
	1. Total Luminous Flux		
	2. Luminous Efficacy		
Track item	3. Correlated Color Temperature		
Test nem	4. Color Rendering Index		
	5. Chromaticity Coordinate		
	6. Electrical Parameters		
	1. IES LM-79-2008 Electrical and Photometric Measurements of		
	Solid-State Lighting Products		
	2. ANSI C78.377-2008 Specifications for the Chromaticity of Solid		
	State Lighting Products		
Reference Standard	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	2017-05-17	Test Ambient:	25.2 ° C
Test Orientation	As intended	Stabilization Time (min)	90
Model Number	LRKT3571-3090		

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
GZE170500	120.0	(0)	0.0704	0.116	0.0567
5-H-C11	120.0	00	0.0794	9.110	0.9307

Chromaticity Measurement - Sphere-Spectroradiometer Method:

<u> </u>					
Result		Special Color Rendering Indic		ndices	
120.0		R1	95	R9	66
60		R2	99	R10	97
3115		R3	98	R11	95
-0.0033		R4	94	R12	85
x=0.4245 y=0.3914		R5	96	R13	97
u'=0.2480 v'=0.5144		R6	96	R14	100
94.1		R7	91	R15	92
66		R8	84		
666.0					
73.06					
	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Result 120.0 60 3115 -0.0033 $x=0.4245$ y=0.3914 $u'=0.2480$ v'=0.5144 94.1 66 666.0 73.06	Result Specia 120.0 R1 60 R2 3115 R3 -0.0033 R4 x=0.4245 y=0.3914 u'=0.2480 v'=0.5144 94.1 R7 66 R8 666.0 73.06	Result Special Color R 120.0 R1 95 60 R2 99 3115 R3 98 -0.0033 R4 94 x=0.4245 y=0.3914 R5 96 y=0.2480 v'=0.5144 R6 96 94.1 R7 91 R8 84 666 73.06 73.06 91 100	Result Special Color Rendering I 120.0 R1 95 R9 60 R2 99 R10 3115 R3 98 R11 -0.0033 R4 94 R12 x=0.4245 y=0.3914 R5 96 R13 u'=0.2480 v'=0.5144 R6 96 R14 94.1 R7 91 R15 66 R8 84 666.0 73.06





Spectral Power Distribution & Chromaticity Diagram



 Laboratory: Standard-Tech Co. Ltd Testing Center

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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	2016-07-01	2017-06-30	
ST-R-331	Spectral analysis system HAAS-2000	2016-07-01	2017-06-30	
D204	Standard Lamp	2016-07-01	2017-06-30	
PF2010	Power Meter for Integrating Sphere	2016-07-01	2017-06-30	
Uncertainty:				
Photometric Measurement (Sphere):1.74%				
Chromaticity Measurement(Sphere):14.3K				

***** END OF REPORT *****