



Report No.: GZE160771-O

NVLAP LAB CODE 201011-0

## 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): LJKT800S-3090

Test & Report By:

*Johnson Sun*

Engineer: Johnson Sun

Date: Aug.03,2016

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.

Laboratory: Standard-Tech Co. Ltd Testing Center

NVLAP CODE: 201011-0

Report Format Number STD/QR4909-A/2

Address: Standard-Tech Building, No.6 Guanhong Road,Guangzhou Science City, Guangzhou 510663, China

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<http://www.standard-tech.com>

**1.1 Product Information:**

Organization Name	L-TECH CORPORTION	
Brand Name	L-TECH CORP	
Model Number	LJKT800S-3090	
SKU (if available)	N/A	
Type of Luminaire (for integral lamps, list base type and lamp type)	LED Luminaires	
Rated Voltage / Frequency	120Vac, 60 Hz	
Nominal Power	17W	
Rated Initial Lamp Lumen	--	
Declared CCT	3000K	
LED Manufacturer	N/A	
LED Model	N/A	
Sample Number	GZE160771-O1	
Luminaire Aperture (for downlights)	--	in.
Luminaire Length	--	mm
Luminaires Width	--	mm
Number of Units (modular products)	N/A	s

**Photo**


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## 1.2 Test Specifications:

Date of Receipt	Jul.25,2016
Date of Test	Jul.27,2016
Test item	<ol style="list-style-type: none"> <li>1. Total Luminous Flux</li> <li>2. Luminous Distribution Intensity</li> <li>3. Luminous Efficacy</li> <li>4. Correlated Color Temperature</li> <li>5. Color Rendering Index</li> <li>6. Chromaticity Coordinate</li> <li>7. Electrical Parameters</li> </ol>
Reference Standard	<ol style="list-style-type: none"> <li>1. IES LM-79-2008 Electrical and Photometric Measurements of Solid-State Lighting Products</li> <li>2. ANSI C78.377-2008 Specifications for the Chromaticity of Solid State Lighting Products</li> <li>3. CIE 13.3-1995 Method of Measuring and Specifying Colour Rendering Properties of Light Sources</li> <li>4. CIE 15-2004 Technical Report Colorimetry</li> <li>5. IESNA LM-16-93 Practical Guide to Colorimetry of Light Source</li> <li>6. IESNA TM-16-05 Technical Memorandum on Light Emitting Diode (LED) Sources and Systems</li> </ol>
Reference Work Instruction	QD25

## 1.3 Test Methods

### 1) Photometric and Light Distribution Measurement – Goniophotometer Method:

Photometric parameters were measured using the goniophotometer and software. The ambient temperature shall be maintained at  $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$ , measured at a point not more than 1 m from the sample and at the same height as the sample. The sample was operated at 120 or rated Volts AC, 60Hz. It was stabilized before measurement was made. Luminous flux, luminaire efficacy, zonal lumen were calculated from the software taken at  $1^{\circ}$  vertical intervals and  $22.5^{\circ}$  horizontal intervals.

### 2) 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  $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$ . 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.

### 3) 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  $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$ . 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)

<b>Test date</b>	2016-07-27	<b>Test Ambient:</b>	25.2 °C
<b>Test Orientation</b>	Horizontal	<b>Stabilization Time (min)</b>	90
<b>Model Number</b>	LJKT800S-3090		

### Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
GZE160771-O1	120.0	60	0.1407	16.49	0.9767

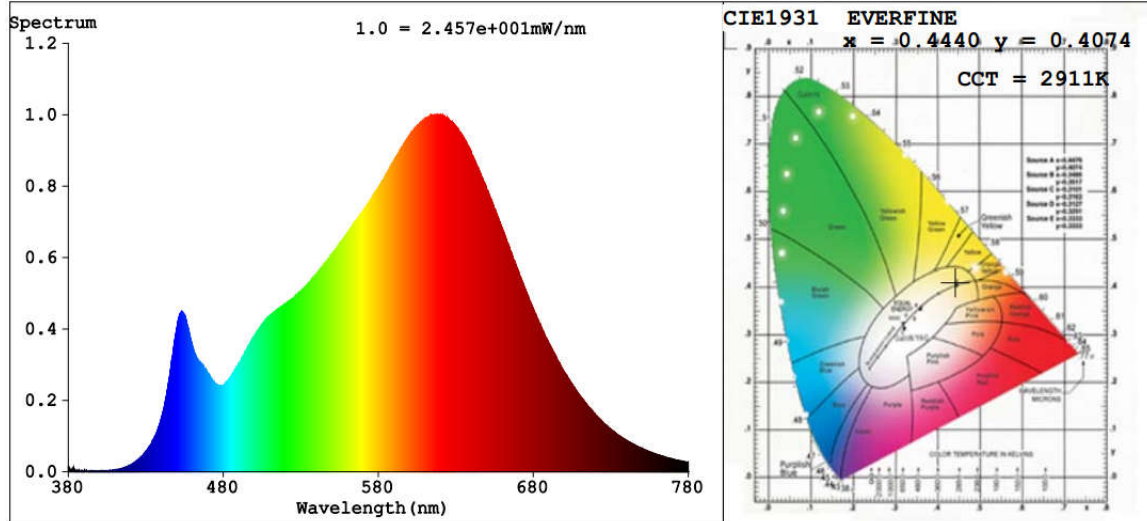
### Chromaticity Measurement - Sphere-Spectroradiometer Method i:

Parameter	Result	Special Color Rendering Indices			
Test Voltage (V)	120.0	R1	91	R9	50
Frequency (Hz)	60	R2	97	R10	93
CCT (K)	2911	R3	98	R11	92
Duv	0.0004	R4	91	R12	83
Chromaticity (x, y)	x=0.4440 y=0.4074	R5	92	R13	93
Chromaticity (u', v')	u'=0.2537 v'=0.5238	R6	97	R14	99
Color Rendering Index (CRI)	91.4	R7	90	R15	86
R9	50	R8	77	--	--

### Photometric Measurement – Goniophotometer Method:

Parameter	Result	
Test Voltage (V)	120.0	277.0
Frequency (Hz)	60	60
Total Luminous (lm)	1504.3	--
Luminous Efficacy (lm/W)	91.22	--
Beam Angle (°)	107.8	--
Center Beam Candle Power (cd)	545	--

**Spectral Power Distribution & Chromaticity Diagram**

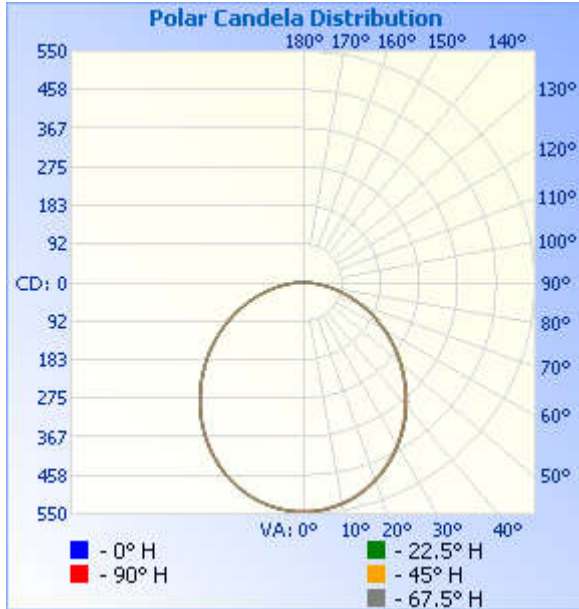


**Zonal Lumen Tabulation**

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	416.6	27.7%
0-40	675.9	44.9%
0-60	1,174.3	78.1%
60-90	325.0	21.6%
70-100	148.5	9.9%
90-120	3.5	0.2%
0-90	1,499.3	99.7%
90-180	4.9	0.3%
0-180	1,504.2	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	51.4	3.4%	90-100	2.5	0.2%
10-20	146.2	9.7%	100-110	0.6	0%
20-30	218.9	14.6%	110-120	0.5	0%
30-40	259.4	17.2%	120-130	0.3	0%
40-50	263.7	17.5%	130-140	0.3	0%
50-60	234.7	15.6%	140-150	0.3	0%
60-70	179.0	11.9%	150-160	0.2	0%
70-80	106.9	7.1%	160-170	0.1	0%
80-90	39.1	2.6%	170-180	0.1	0%

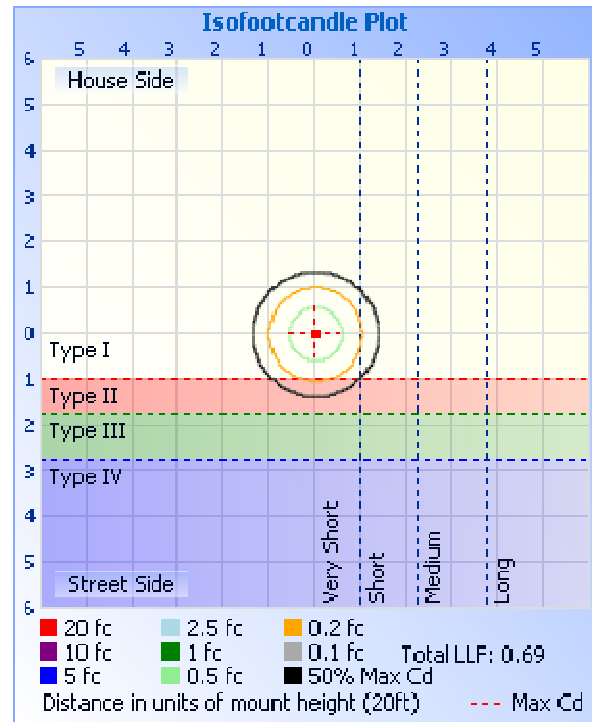
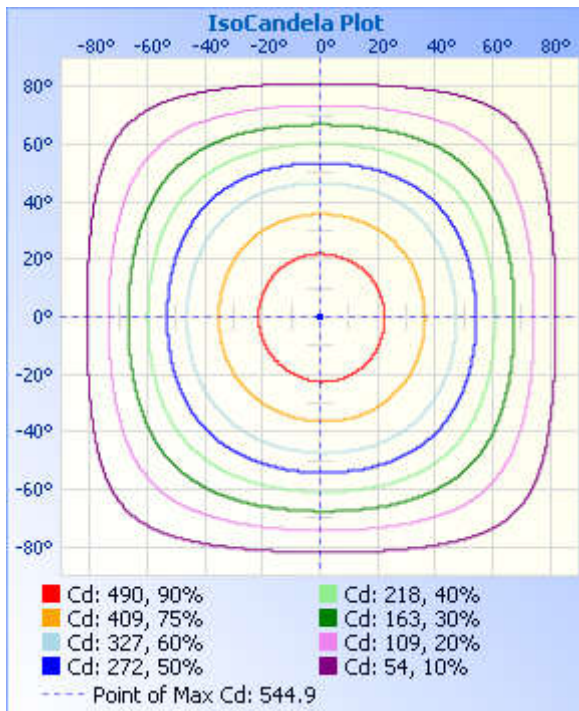
**Photometric Data**



**Illuminance at a Distance**

	Center Beam fc	Beam Width	
17.0ft	1.89 fc	46.6 ft	46.3 ft
34.0ft	0.47 fc	93.3 ft	92.5 ft
51.0ft	0.21 fc	139.9 ft	138.8 ft
68.0ft	0.12 fc	186.6 ft	185.0 ft
85.0ft	0.08 fc	233.2 ft	231.3 ft
102.0ft	0.05 fc	279.8 ft	277.6 ft

■ Vert. Spread: 107.8°  
■ Horiz. Spread: 107.4°



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**Candela Table - Type C**

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	360
0	545	545	544	544	544	543	543	543	545	545	544	544	544	543	543	543	545
1	545	545	544	544	544	543	543	543	545	544	544	544	544	543	543	543	545
2	544	545	544	544	543	543	543	542	544	544	544	543	543	543	543	542	544
3	544	544	543	543	543	542	542	542	544	544	543	543	542	542	542	542	544
4	543	543	543	542	542	541	541	541	543	543	543	542	542	542	541	541	543
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6	541	541	540	540	540	539	539	539	541	541	540	540	540	539	539	539	541
7	540	540	539	539	538	538	537	537	539	539	539	539	538	538	538	538	540
8	538	538	537	537	536	536	535	536	538	538	537	537	537	536	536	536	538
9	536	536	535	535	534	534	533	534	536	535	535	535	535	535	535	534	536
10	534	534	534	533	532	532	531	531	533	534	533	533	533	532	532	533	534
11	532	531	531	530	530	529	529	529	531	531	531	531	531	530	530	530	532
12	529	529	528	527	527	527	526	526	529	529	528	528	528	527	527	528	529
13	526	526	526	525	524	524	523	523	525	526	526	525	525	524	524	525	526
14	523	523	522	522	522	520	520	520	523	522	522	522	522	522	522	522	523
15	520	519	519	519	518	517	517	517	520	519	520	519	519	519	518	519	520
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22	492	491	490	489	489	489	488	488	491	491	492	490	491	490	491	491	492
23	487	487	486	485	484	483	483	484	486	487	486	486	485	486	486	486	487
24	482	481	481	479	480	479	478	479	481	481	482	481	481	481	482	481	482
25	477	476	476	475	474	473	472	473	476	477	476	476	476	476	476	476	477
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61	214	214	213	211	213	212	211	212	214	215	215	214	215	214	215	215	214
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93	0	1	1	1	0	1	1	0	1	1	1	1	1	1	1	0
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106	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0
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111	0	0	0	1	1	1	0	0	0	0	0	1	1	1	0	0
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113	0	0	0	1	1	1	0	0	0	0	0	1	1	1	0	0
114	0	0	0	1	1	1	0	0	0	0	0	0	1	1	0	0
115	0	0	0	1	1	1	0	0	0	0	0	1	0	1	0	0
116	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0
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120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
121	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
122	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
126	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
129	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
131	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
132	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
133	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
134	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
136	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
137	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
138	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
139	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0
140	0	0	0	0	0	0	0	1	1	0	1	1	0	0	0	0
141	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0
142	0	0	0	0	0	0	0	1	0	1	1	1	0	0	0	0
143	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0
144	0	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0
145	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0
146	0	0	0	0	0	0	0	1	0	1	1	1	1	0	0	0
147	0	0	0	0	0	1	0	0	1	0	1	0	1	0	1	0
148	0	0	0	0	0	1	0	0	1	1	0	1	1	0	0	0
149	0	0	0	0	0	1	0	0	1	1	1	0	1	0	0	0
150	0	0	0	1	1	0	0	0	1	1	1	1	1	0	0	0
151	0	0	0	1	0	0	0	0	1	1	1	1	1	1	0	0
152	0	0	0	0	0	0	0	0	1	1	1	1	1	0	1	0
153	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	1
154	0	1	1	0	0	0	0	0	1	1	1	1	1	0	0	1
155	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0
156	0	0	1	0	1	1	1	0	1	1	1	1	1	1	1	0

Laboratory: Standard-Tech Co. Ltd Testing Center  
 NVLAP CODE: 201011-0

Report Format Number STD/QR4909-A/2

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157	0	0	0	0	0	1	0	0	1	1	1	1	1	0	0	1	0
158	0	0	1	0	1	0	1	0	1	1	1	1	1	1	0	0	0
159	0	0	1	1	1	0	0	0	1	1	1	1	1	1	0	1	0
160	0	0	0	0	0	1	0	1	1	1	1	1	1	0	1	1	0
161	0	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	0
162	0	0	0	0	0	1	0	0	1	1	1	1	1	0	0	0	0
163	0	1	0	0	1	1	0	1	1	1	1	1	1	0	1	1	0
164	1	1	0	1	0	0	0	1	1	1	1	1	0	0	1	1	1
165	0	0	0	0	1	1	0	1	1	1	1	1	1	1	0	1	0
166	0	0	0	0	1	1	0	1	1	1	1	1	1	1	0	1	0
167	1	1	0	1	0	1	0	1	1	0	1	1	1	1	1	0	1
168	1	1	1	0	1	0	0	1	1	1	1	1	1	1	1	1	1
169	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1
170	0	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	0
171	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
172	0	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0
173	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
174	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
175	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
176	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
177	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
178	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
179	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
180	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

### 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
EE-09	Goniophotometer system	2016-07-01	2017-06-30
D908S	Standard Lamp	2016-07-01	2017-06-30
PF210	Power Meter for Goniophotometer	2016-07-01	2017-06-30
ST-R-181A	Temperature Tester	2016-07-01	2017-06-30
Uncertainty: Photometric Measurement (Sphere):1.74% Chromaticity Measurement(Sphere):14.3K Photometric Measurement(Goniophotometer):1.62%			

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