



Report No.: GZE160771-J

NVLAP LAB CODE 201011-0

LM-79-08 Test Report

For

L-TECH CORPORATION

(Brand Name: L-TECH CORP)

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

LED Luminaire

Model name(s): LJKT564S-4090

Test & Report By:

Johnson Sun

Engineer: Johnson Sun

Date: Jul.27,2016

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

Tel: 8620-3229 0320

Fax: 8620-32290422

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

1.1 Product Information:

Organization Name	L-TECH CORPORTION	
Brand Name	L-TECH CORP	
Model Number	LJKT564S-4090	
SKU (if available)	N/A	
Type of Luminaire (for integral lamps, list base type and lamp type)	LED Luminaire	
Rated Voltage / Frequency	120Vac, 60 Hz	
Nominal Power	13W	
Rated Initial Lamp Lumen	--	
Declared CCT	4000K	
LED Manufacturer	N/A	
LED Model	N/A	
Sample Number	GZE160771-J1	
Luminaire Aperture (for downlights)	--	in.
Luminaire Length	--	mm
Luminaire Width	--	mm
Number of Units (modular products)	N/A	s

Photo


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1.2 Test Specifications:

Date of Receipt	Jul.20,2016
Date of Test	Jul.21,2016
Test item	<ol style="list-style-type: none"> 1. Total Luminous Flux 2. Luminous Distribution Intensity 3. Luminous Efficacy 4. Correlated Color Temperature 5. Color Rendering Index 6. Chromaticity Coordinate 7. Electrical Parameters
Reference Standard	<ol style="list-style-type: none"> 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 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) 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° vertical intervals and 22.5° 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)

Test date	2016-07-21	Test Ambient:	25.2 °C
Test Orientation	Horizontal	Stabilization Time (min)	90
Model Number	LJKT564S-4090		

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
GZE160771-J1	120.0	60	0.1066	12.29	0.9610

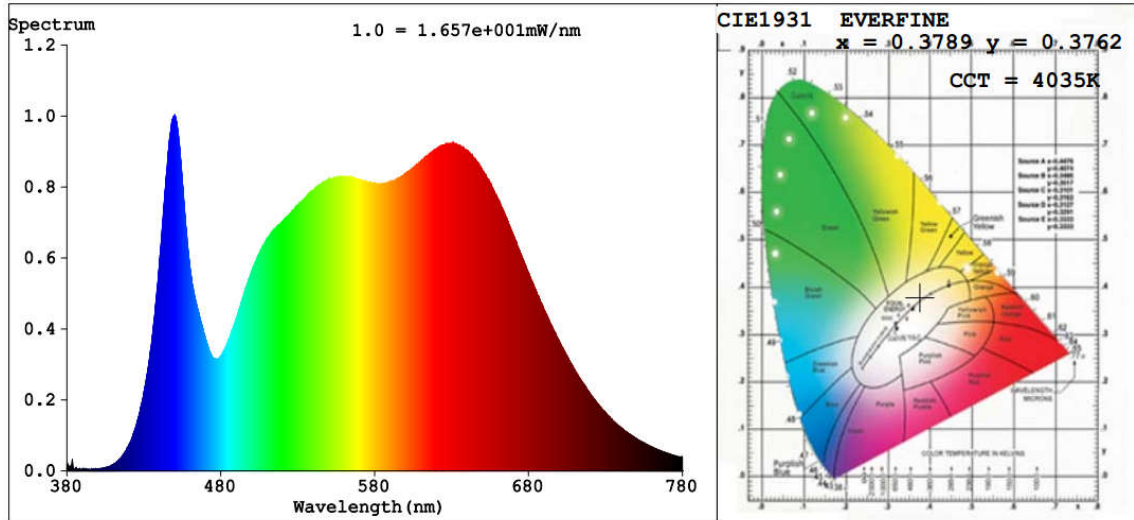
Chromaticity Measurement - Sphere-Spectroradiometer Method i:

Parameter	Result	Special Color Rendering Indices			
Test Voltage (V)	120.0	R1	96	R9	86
Frequency (Hz)	60	R2	95	R10	86
CCT (K)	4035	R3	91	R11	94
Duv	0.0002	R4	95	R12	75
Chromaticity (x, y)	x=0.3789 y=0.3762	R5	94	R13	95
Chromaticity (u', v')	u'=0.2243 v'=0.5011	R6	91	R14	95
Color Rendering Index (CRI)	94.1	R7	96	R15	96
R9	86	R8	95	--	--

Photometric Measurement – Goniophotometer Method:

Parameter	Result	
Test Voltage (V)	120.0	277.0
Frequency (Hz)	60	60
Total Luminous (lm)	1045.49	--
Luminous Efficacy (lm/W)	85.07	--
Beam Angle (°)	108.8	--
Center Beam Candle Power (cd)	371	--

Spectral Power Distribution & Chromaticity Diagram

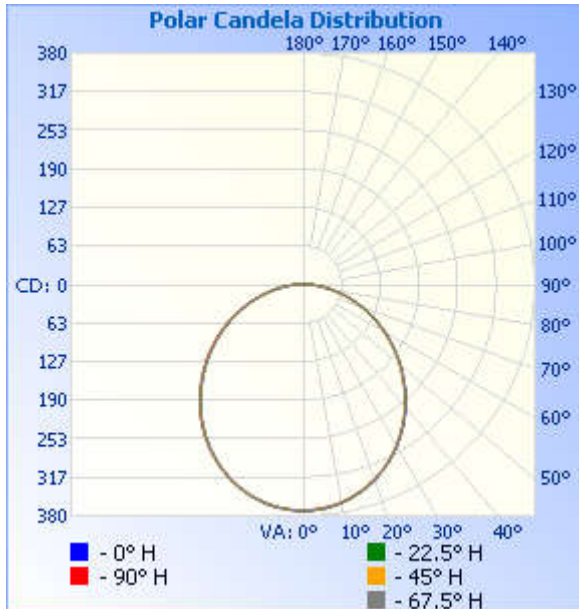


Zonal Lumen Tabulation

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	284.6	27.2%
0-40	462.8	44.3%
0-60	807.1	77.2%
60-90	234.1	22.4%
70-100	110.8	10.6%
90-120	2.9	0.3%
0-90	1,041.3	99.6%
90-180	4.2	0.4%
0-180	1,045.4	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	35.0	3.3%	90-100	1.8	0.2%
10-20	99.8	9.5%	100-110	0.6	0.1%
20-30	149.8	14.3%	110-120	0.5	0%
30-40	178.2	17.0%	120-130	0.3	0%
40-50	181.8	17.4%	130-140	0.3	0%
50-60	162.5	15.5%	140-150	0.3	0%
60-70	125.1	12.0%	150-160	0.2	0%
70-80	77.1	7.4%	160-170	0.1	0%
80-90	32.0	3.1%	170-180	0.0	0%

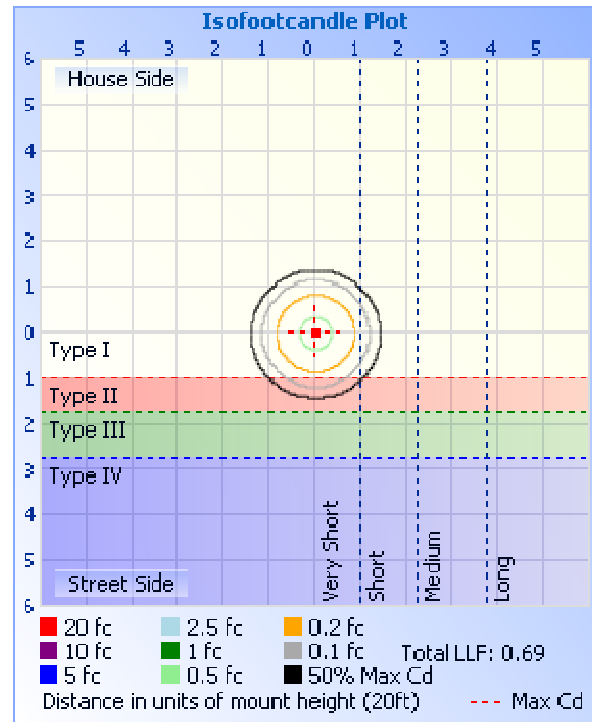
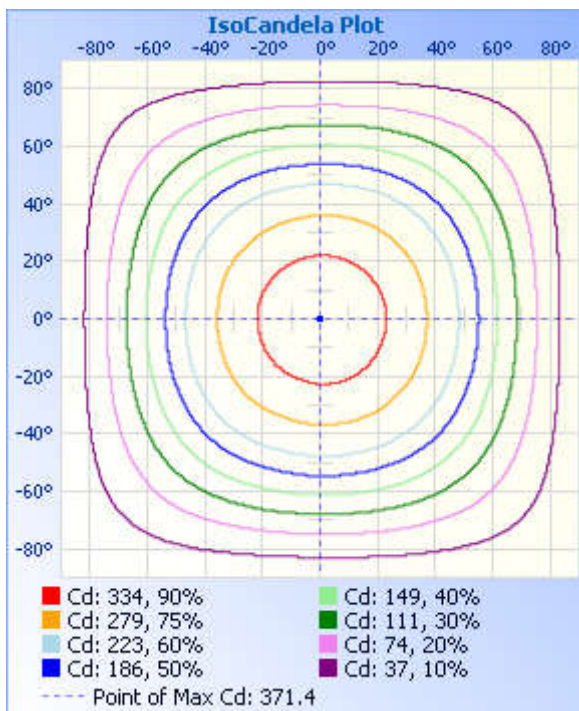
Photometric Data



Illuminance at a Distance

	Center Beam fc	Beam Width	
17.0ft	1.29 fc	47.2 ft	47.5 ft
34.0ft	0.32 fc	94.4 ft	95.0 ft
51.0ft	0.14 fc	141.6 ft	142.5 ft
68.0ft	0.08 fc	188.8 ft	190.0 ft
85.0ft	0.05 fc	236.0 ft	237.5 ft
102.0ft	0.04 fc	283.2 ft	285.0 ft

■ Vert. Spread: 108.5°
■ Horiz. Spread: 108.8°



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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	371	371	371	370	370	370	370	369	371	371	371	370	370	370	370	369	371
1	371	371	370	370	370	370	370	369	371	371	370	370	370	370	370	369	371
2	371	371	370	370	370	370	370	369	371	371	370	370	370	370	370	369	371
3	371	370	370	370	369	369	369	369	371	370	370	370	370	369	369	369	371
4	370	370	369	369	369	369	369	368	370	370	370	369	369	369	369	368	370
5	370	369	369	369	368	368	368	367	370	369	369	369	369	368	368	368	370
6	369	368	368	368	367	367	367	366	369	369	368	368	368	368	367	367	369
7	368	367	367	367	366	366	366	365	368	368	367	367	367	367	367	366	368
8	367	366	366	366	365	365	365	364	367	366	366	366	366	366	365	365	367
9	365	365	364	365	364	363	363	363	365	365	365	364	365	365	364	364	365
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11	362	362	361	362	361	360	360	360	362	362	362	362	362	362	362	361	362
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13	359	358	358	358	357	357	357	357	359	359	358	358	358	358	358	358	359
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15	354	354	354	353	353	353	353	352	355	355	354	354	354	354	354	354	354
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24	329	329	328	328	328	327	327	327	329	329	329	330	330	330	330	329	329
25	325	325	324	325	324	324	324	323	325	326	326	326	326	327	326	326	325
26	322	321	320	321	321	320	321	320	322	323	322	323	323	323	323	322	322
27	318	318	317	317	317	317	317	316	318	319	318	319	319	319	319	319	318
28	315	314	313	314	314	313	313	313	315	315	315	314	316	316	316	315	315

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29	310	310	310	310	309	309	309	309	311	311	311	311	312	312	312	310
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62	142	142	142	142	142	140	141	141	142	142	144	143	145	146	146	145	142
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91	3	4	4	5	6	3	3	4	4	4	2	3	5	4	3	5	3
92	0	0	0	1	1	0	0	0	1	1	1	1	1	1	1	1	0

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93	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0
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99	3	1	0	0	1	0	0	1	3	1	1	0	0	0	0	1	3
100	2	1	0	0	0	0	0	1	3	1	0	0	1	0	0	1	2
101	2	1	0	0	0	0	0	1	2	1	0	0	0	0	0	1	2
102	2	1	0	0	0	0	0	1	2	1	0	0	0	0	1	1	2
103	1	0	0	0	0	0	0	0	2	1	1	0	0	0	0	1	1
104	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1
105	1	1	0	0	0	0	0	1	1	1	0	0	0	0	0	1	1
106	2	1	0	0	0	0	0	1	2	1	1	0	0	0	0	1	2
107	2	1	0	0	0	0	0	1	2	1	0	0	0	0	0	1	2
108	1	1	0	0	0	0	0	1	2	1	0	0	0	0	0	1	1
109	1	1	0	0	0	0	0	1	2	1	0	0	0	0	0	1	1
110	1	1	0	0	0	0	0	1	2	1	0	0	0	0	0	1	1
111	1	1	0	0	0	0	0	1	1	1	0	0	0	0	0	1	1
112	1	1	0	0	0	0	0	1	1	1	0	0	0	0	0	1	1
113	1	1	0	0	0	0	0	1	1	1	0	0	0	0	0	1	1
114	1	1	0	0	0	0	0	1	1	1	0	0	0	0	0	1	1
115	1	1	0	0	0	0	0	1	1	1	0	0	0	0	0	1	1
116	1	1	0	0	0	0	0	1	1	1	0	0	0	0	0	1	1
117	1	1	0	0	0	0	0	1	1	1	0	0	0	0	0	1	1
118	1	1	0	0	0	0	0	1	1	1	0	0	0	0	0	1	1
119	1	1	0	0	0	0	0	1	1	1	0	0	0	0	0	1	1
120	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0
121	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1
122	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
124	0	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
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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	1	0	0	0	0	0	0	0	0
132	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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134	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0
137	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
138	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
139	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
141	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
142	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
144	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
146	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
147	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
148	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
149	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
152	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
153	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
154	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
156	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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

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