

## LM-79-08 Test Report

For

### L-TECH CORPORTION (Brand Name: L-TECH CORP)

Shaogangtou District, Qiaotou Town  
Dongguan City, Guangdong, China

## LED Lamp

Model name(s): LRKT3574W-4090

Model differences: N/A

Test & Report By:

Review By:

Engineer: Johnson Sun

Manager: Tommy Liang

Date:Dec.11, 2015

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>

U.S. Department of Energy

**Lighting Facts™ Uniform LM-79 Reporting Template**
**Laboratory Information:**

Name of Test Laboratory	Standard-Tech Co., Ltd.
Date of Test Report	Dec.11, 2015
Test Report No.	GZE151229-Q
Laboratory Contact Name	Tommy Liang

**Product Information:**

Organization Name	L-TECH CORPORTION		
Brand Name	L-TECH CORP		
Model Number	LRKT3574W-4090		
SKU (if available)	N/A		
Type of Luminaire (for integral lamps, list base type and lamp type)	LED Lamp		
Luminaire Aperture (for downlights)	--		in.
Luminaire Length	--		mm
Luminaires Width	--		mm
Number of Units (modular products)	N/A		s

Electrical Measurements:	Integrating Sphere	Goniophotometer	
	Output	Output	
Input Wattage	--	8.491	W
Input Current	--	0.0725	A
Input Voltage (ac)	--	120.0	V
Power Factor	--	0.9765	
Off-State Power	--	0	W

Photometric Characteristics			
Total Initial Lumen Output	--	707.34	lm
Initial Lumen Efficacy	--	83.31	lm/w
Correlated color temperature / CCT	3972	--	K
Color rendering index / CRI	92.0	--	
R9 Value	57	--	
Duv	0.0021	--	
Luminous Intensity Distribution			
Center beam candlepower (if applicable)	--	373	cd
Beam angle (if applicable)	--	131.0	°
Zonal lumens in the 0°-60° zone	--	91.4	%
Zonal lumens in the 60°-90° zone	--	8.6	%
Zonal lumens in the 90°-120° zone	--	0	%
Zonal lumens in the 120°-180° zone	--	0	%

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Test Specifications:	
Date of Receipt	: Dec.08,2015
Date of Test	: Dec.10,2015
Test item	: Total Luminous Flux, Luminous Distribution Intensity, Luminous Efficacy, Correlated Color Temperature, Color Rendering Index, Chromaticity Coordinate, Electrical parameters
Reference Standard	IES LM-79-2008 Electrical and Photometric Measurements of Solid-State Lighting Products ANSI C78.377-2008 Specifications for the Chromaticity of Solid State Lighting Products CIE 13.3-1995 Method of Measuring and Specifying Colour Rendering Properties of Light Sources CIE 15-2004 Technical Report Colorimetry IESNA LM-16-93 Practical Guide to Colorimetry of Light Source IESNA TM-16-05 Technical Memorandum on Light Emitting Diode (LED) Sources and Systems
Reference Work Instruction	QD25

### Test Methods

#### 1. Photometric and Electrical measurements – Light Distribution Method:

Photometric parameters were measured using the goniophotometer and software. The ambient temperature shall be maintained at  $25\text{ }^{\circ}\text{C} \pm 1\text{ }^{\circ}\text{C}$ , 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 Volts AC, 60Hz. It was stabilized before measurement was made. Luminous flux, luminaire efficacy, zonal lumen were calculated from the software taken at  $1\text{ }^{\circ}$  vertical intervals and  $22.5\text{ }^{\circ}$  horizontal intervals.

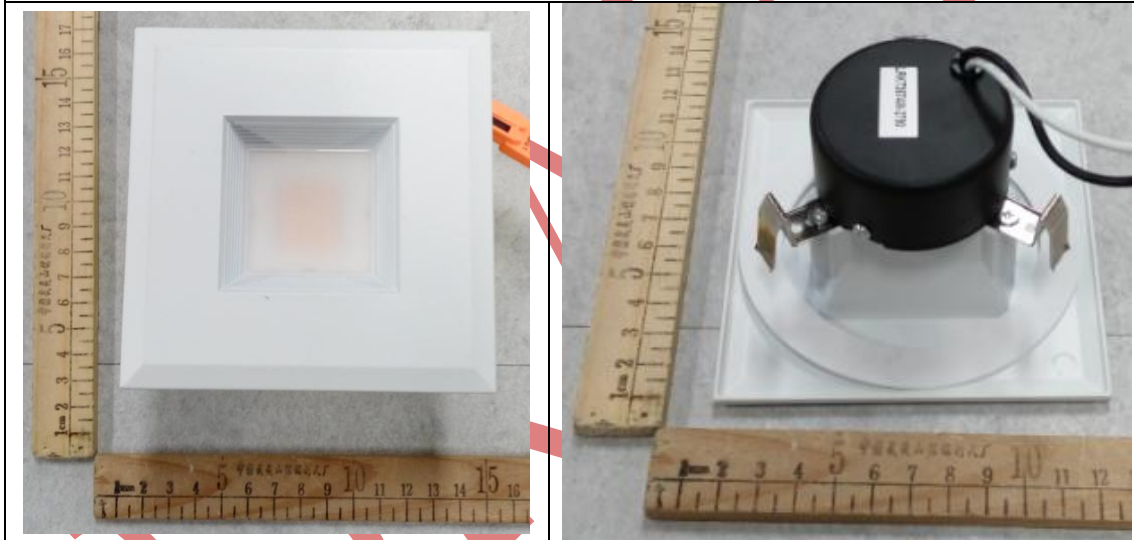
#### 2. Photometric and Electrical Measurements – Integrating Sphere Method:

Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at  $25\text{ }^{\circ}\text{C} \pm 1\text{ }^{\circ}\text{C}$ . 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 Volts AC, 60Hz. It was stabilized before measurement was made. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at least 5 nm intervals over the range of 380 to 780 nm.

**1. Product Information:**

Brand Name	L-TECH CORP
Model Number	LRKT3574W-4090
Luminaire Type	LED Lamp
Rated Voltage / Frequency	120/277Vac, 60Hz
Nominal Power	10W
Rated Initial Lamp Lumen	N/A
Declared CCT	4000K
LED Manufacturer	EVERLIGHT ELECTRONICS CO.,LTD
LED Model	62-217D
Sample Receipt Date	Dec.08,2015
Sample Number	GZE151229-Q1

**Photo**



<b>2.1 Electrical, Photometric and Chromaticity Measurements</b> <i>(Refer to Work Instruction QD25)</i>	<b>IES LM-79 2008</b>
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<b>Test date</b>	2015-12-10	<b>Test Ambient:</b>	25.1 °C
<b>Test Orientation</b>	As intended	<b>Stabilization Time (min)</b>	90
<b>Model Number</b>	LRKT3574W-4090		

**Electrical Measurement:**

Sample No.	Voltage (Vac)	Frequency (Hz )	Current (A)	Power (W)	Power Factor
GZE151229 -Q1	120.0	60	0.0725	8.491	0.9765

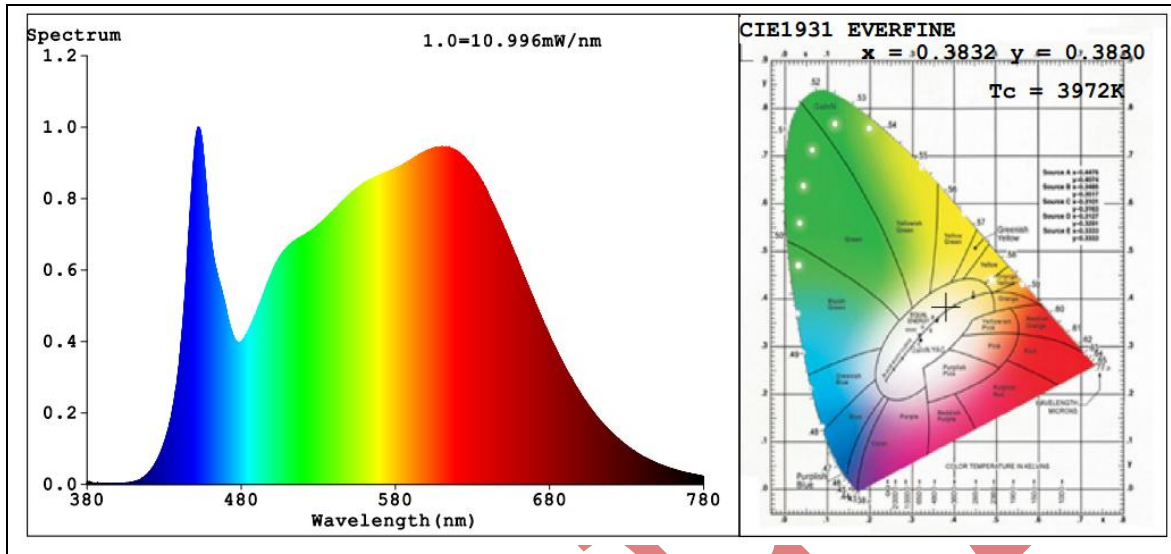
**Sphere-Spectroradiometer Method:**

Parameter	Result	Special Color Rendering Indices			
Test Voltage (V)	120.0	R1	92	R9	57
Frequency (Hz)	60	R2	96	R10	89
Color Rendering Index (CRI)	92.0	R3	98	R11	91
R9	57	R4	91	R12	72
CCT (K)	3972	R5	91	R13	93
Chromaticity (x, y)	x=0.3832 y=0.3830	R6	93	R14	99
Chromaticity (u', v')	u'=0.2244 v'=0.5047	R7	93	R15	88
Duv	0.0021	R8	83	--	--

**Goniophotometer Method:**

Parameter	Result
Test Voltage (V)	120.0
Frequency (Hz)	60
Total Luminous (lm)	707.34
Luminous Efficacy (lm/W)	83.31
Beam Angle °	131.0
Center Beam Candle Power (cd)	373

**Spectral Power Distribution & Chromaticity Diagram**



DRAFT

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**Zonal Lumen Tabulation:**

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	277.6	39.3%
0-40	432.8	61.2%
0-60	646.1	91.4%
60-90	61.1	8.6%
70-100	19.8	2.8%
90-120	0.0	0%
0-90	707.2	100%
90-180	0.0	0%
0-180	707.2	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	35.1	5.0%	90-100	0.0	0%
10-20	99.0	14.0%	100-110	0.0	0%
20-30	143.5	20.3%	110-120	0.0	0%
30-40	155.1	21.9%	120-130	0.0	0%
40-50	129.7	18.3%	130-140	0.0	0%
50-60	83.7	11.8%	140-150	0.0	0%
60-70	41.2	5.8%	150-160	0.0	0%
70-80	15.9	2.2%	160-170	0.0	0%
80-90	3.9	0.6%	170-180	0.0	0%

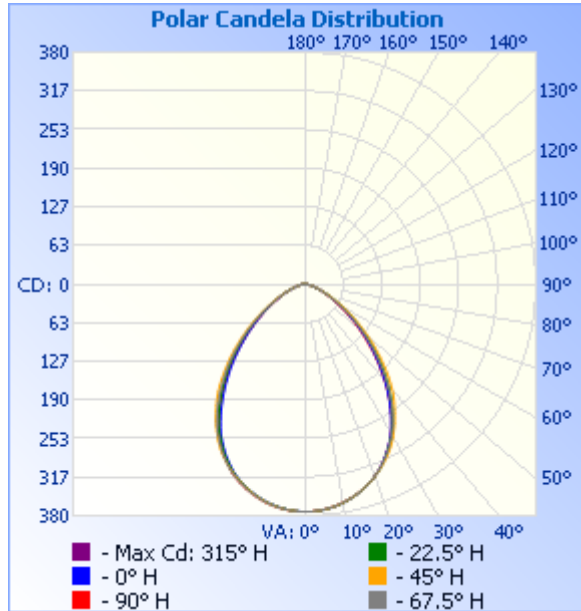
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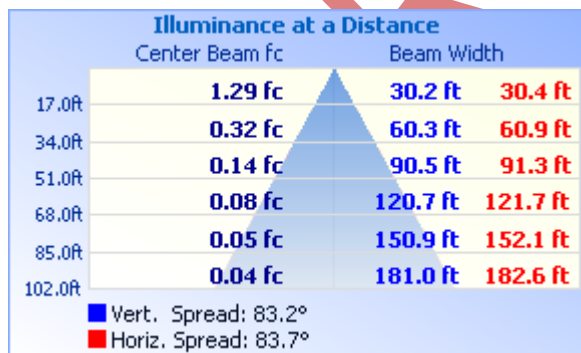
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### Photometric Data



### Illuminance Plots



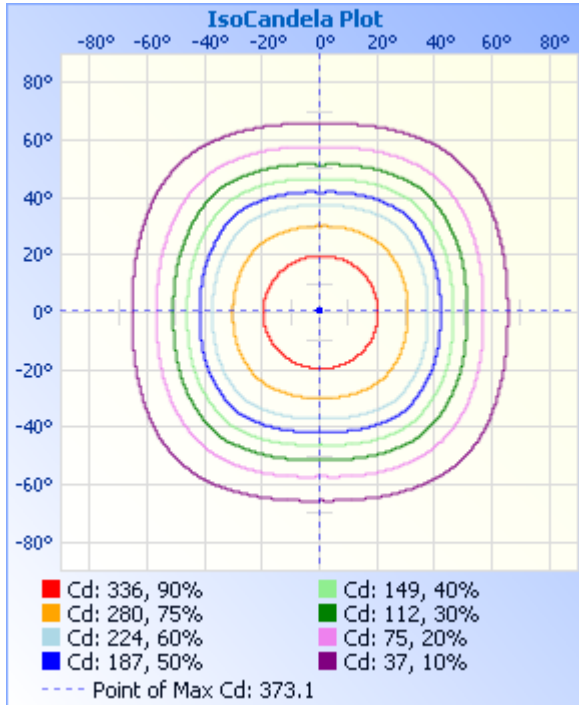
**Illuminance at a Distance**

	Center Beam fc	Beam Width	
17.0ft	1.29 fc	30.2 ft	30.4 ft
34.0ft	0.32 fc	60.3 ft	60.9 ft
51.0ft	0.14 fc	90.5 ft	91.3 ft
68.0ft	0.08 fc	120.7 ft	121.7 ft
85.0ft	0.05 fc	150.9 ft	152.1 ft
102.0ft	0.04 fc	181.0 ft	182.6 ft

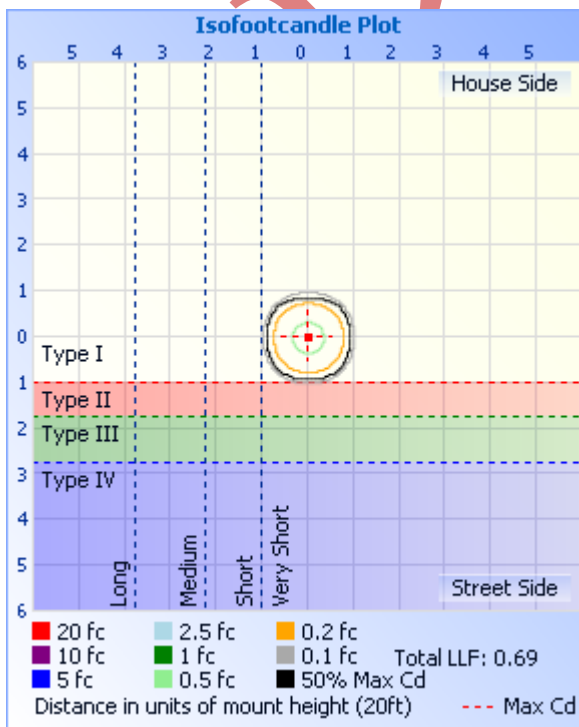
■ Vert. Spread: 83.2°  
■ Horiz. Spread: 83.7°



### ISOCANDELA DIAGRAM



### ISOLUX DIAGRAM



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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	373	373	373	373	373	373	373	373	373	373	373	373	373	373	373	373	373
1	373	373	373	373	373	373	373	373	373	373	373	373	373	373	373	373	373
2	373	373	373	373	373	372	372	372	372	372	373	373	373	373	373	373	373
3	373	373	372	372	372	372	372	372	372	372	372	372	372	372	373	373	373
4	372	372	372	372	372	371	371	371	371	371	371	372	372	372	372	372	372
5	371	371	371	371	371	370	370	370	370	370	370	371	371	371	371	371	371
6	370	370	370	370	369	369	369	369	369	369	369	370	370	370	370	370	370
7	369	369	369	368	368	368	368	367	367	368	368	368	368	369	369	369	369
8	368	368	367	367	367	367	366	366	366	366	366	367	367	367	368	368	368
9	366	366	366	365	365	365	364	364	364	364	365	365	365	366	366	366	366
10	364	364	364	363	363	363	362	362	362	362	363	363	364	364	364	364	364
11	362	362	362	361	361	361	360	360	360	360	361	361	362	362	362	362	362
12	360	360	360	359	359	359	358	358	358	358	359	359	359	360	360	360	360
13	358	357	357	357	357	356	356	355	355	355	356	357	357	358	358	358	358
14	355	355	355	354	355	354	353	352	352	353	353	354	354	355	355	355	355
15	352	352	352	352	352	351	350	350	350	350	351	352	352	352	353	353	352
16	350	349	349	349	349	348	347	347	347	347	348	349	349	350	350	350	350
17	347	346	346	346	346	345	344	343	343	344	344	346	346	347	347	347	347
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21	331	332	332	332	332	331	330	329	328	329	330	332	331	333	333	333	331
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25	312	314	316	313	312	313	313	309	307	309	314	313	311	314	317	314	312
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27	301	303	306	303	301	302	304	298	295	298	304	302	300	303	307	304	301
28	295	297	301	297	296	296	299	292	289	292	299	296	294	297	302	298	295

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29	290	291	296	291	290	291	293	286	283	286	293	290	288	291	297	292	290
30	283	285	290	286	284	285	287	280	276	280	286	284	282	286	290	286	283
31	276	280	284	280	277	279	281	274	268	274	280	279	274	280	284	280	276
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42	188	196	206	194	186	195	201	188	179	188	200	193	183	194	206	196	188
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53	104	111	116	106	100	107	112	104	96	104	110	105	96	106	116	111	104
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56	85	91	94	86	81	87	91	85	78	84	89	84	78	86	94	91	85
57	79	85	87	80	75	80	84	79	73	78	82	78	72	80	87	84	79
58	74	79	81	75	69	74	78	73	67	72	76	72	67	74	81	78	74
59	68	74	75	69	64	68	72	67	62	67	70	66	62	68	75	73	68

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88	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
89	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
114	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
116	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
118	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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

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122	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
123	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
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	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
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	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	0	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	0	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

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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
157	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
158	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	0
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
161	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
162	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
164	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
166	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	0	0	0	0
168	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	0	0	0
170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
171	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
173	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
174	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
177	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
178	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
179	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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**3. Test Equipment**

Equipment ID	Equipment Name	Last Calibration Date	Next Calibration Date
ST-R-336	2 meter Integrating Sphere	2015-07-01	2016-06-30
ST-R-331	Spectral analysis system HAAS-2000	2015-07-01	2016-06-30
D204	Standard Lamp	2015-07-01	2016-06-30
PF2010	Power Meter for Integrating Sphere	2015-07-01	2016-06-30
EE-09	Goniophotometer system	2015-07-01	2016-06-30
D908S	Standard Lamp	2015-07-01	2016-06-30
PF210	Power Meter for Goniophotometer	2015-07-01	2016-06-30
ST-R-181A	Temperature Tester	2015-07-01	2016-06-30
Uncertainty Photometric Measurement (Sphere):1.74% Chromaticity Measurement(Sphere):14.3K Photometric Measurement(Goniophotometer):1.62%			

**\*\*\*\*\* END OF DATASHEET PACKAGE \*\*\*\*\***

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