



Report No.: GZE160771-L

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): LED800SQ WITH LTSQ801-3090

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

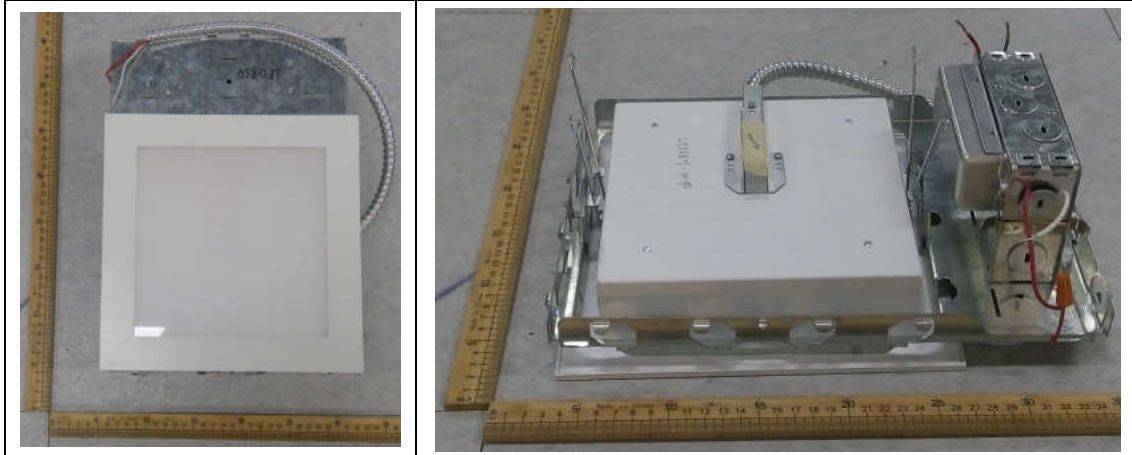
Tel: 8620-3229 0320

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1.1 Product Information:

Organization Name	L-TECH CORPORTION	
Brand Name	L-TECH CORP	
Model Number	LED800SQ WITH LTSQ801-3090	
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	18W	
Rated Initial Lamp Lumen	--	
Declared CCT	3000K	
LED Manufacturer	N/A	
LED Model	N/A	
Sample Number	GZE160771-L1	
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	LED800SQ WITH LTSQ801-3090		

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
GZE160771-L1	120.0	60	0.1500	17.90	0.9946

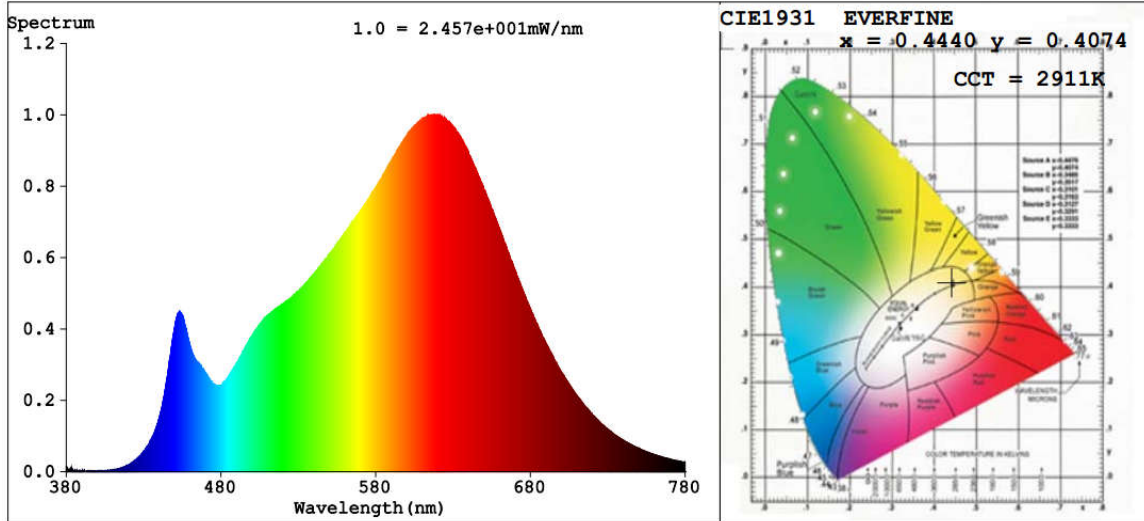
Chromaticity Measurement - Sphere-Spectroradiometer Method i:

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)	1455.56	--
Luminous Efficacy (lm/W)	81.32	--
Beam Angle (°)	100.5	--
Center Beam Candle Power (cd)	583	--

Spectral Power Distribution & Chromaticity Diagram

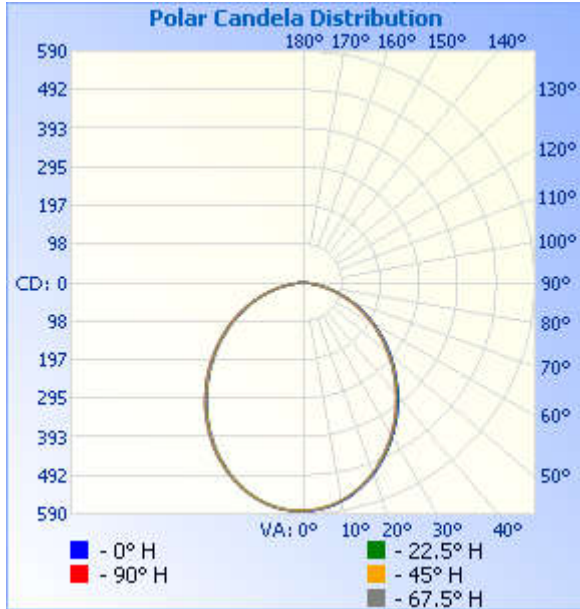


Zonal Lumen Tabulation

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	435.5	29.9%
0-40	697.2	47.9%
0-60	1,180.2	81.1%
60-90	273.1	18.8%
70-100	109.6	7.5%
90-120	1.1	0.1%
0-90	1,453.2	99.8%
90-180	2.2	0.2%
0-180	1,455.5	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	54.8	3.8%	90-100	0.5	0%
10-20	154.3	10.6%	100-110	0.3	0%
20-30	226.4	15.6%	110-120	0.3	0%
30-40	261.7	18.0%	120-130	0.3	0%
40-50	259.0	17.8%	130-140	0.3	0%
50-60	224.0	15.4%	140-150	0.2	0%
60-70	163.9	11.3%	150-160	0.2	0%
70-80	88.5	6.1%	160-170	0.1	0%
80-90	20.7	1.4%	170-180	0.0	0%

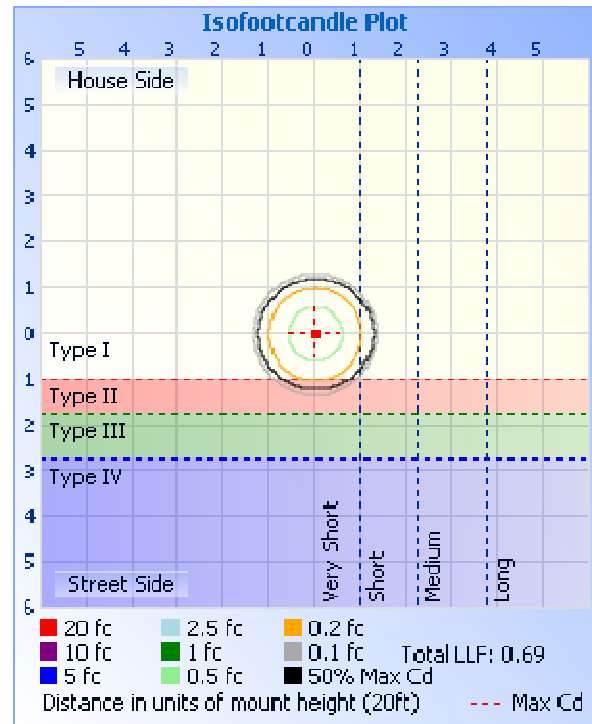
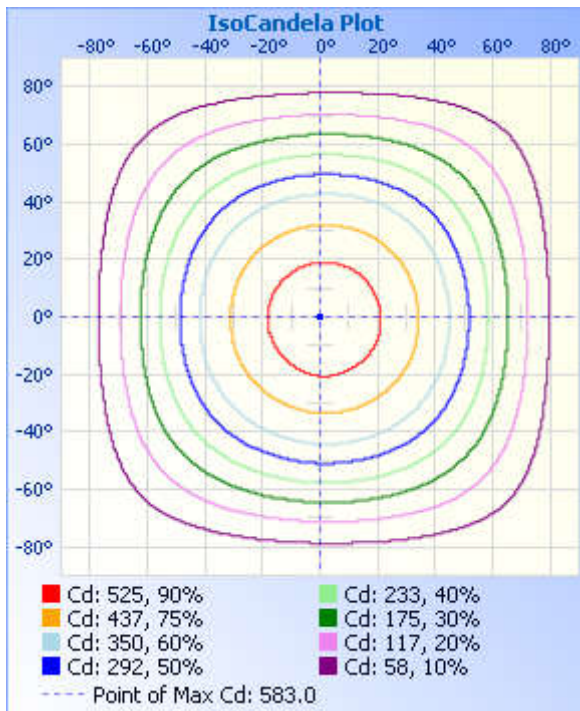
Photometric Data



Illuminance at a Distance

	Center Beam fc	Beam Width	
17.0ft	2.02 fc	40.9 ft	40.9 ft
34.0ft	0.50 fc	81.9 ft	81.8 ft
51.0ft	0.22 fc	122.8 ft	122.7 ft
68.0ft	0.13 fc	163.8 ft	163.6 ft
85.0ft	0.08 fc	204.7 ft	204.5 ft
102.0ft	0.06 fc	245.7 ft	245.4 ft

■ Vert. Spread: 100.6°
■ Horiz. Spread: 100.5°



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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	583	582	581	583	582	581	581	581	583	582	581	583	582	581	581	581	583
1	583	582	580	582	582	581	581	582	583	582	582	583	582	581	581	582	583
2	582	581	580	581	581	580	580	581	583	582	581	583	582	580	581	581	582
3	581	580	579	580	580	580	578	580	582	581	581	582	581	580	580	581	581
4	580	579	578	578	578	578	577	579	581	581	580	582	581	579	579	579	580
5	578	576	575	577	577	576	576	578	580	579	579	580	580	579	578	578	578
6	576	575	573	575	574	574	575	576	579	578	578	579	579	577	577	576	576
7	574	573	571	572	572	571	572	574	577	576	576	577	577	575	575	575	574
8	572	570	569	570	569	569	570	571	574	573	574	576	575	574	573	573	572
9	569	567	566	567	567	565	567	569	572	571	572	574	573	571	571	569	569
10	566	565	562	564	563	563	563	566	569	569	569	571	570	569	568	566	566
11	563	561	559	560	560	559	561	563	566	566	566	568	567	565	564	563	563
12	559	557	555	556	556	556	557	559	563	563	563	565	563	563	561	560	559
13	555	553	551	552	552	552	553	556	559	559	559	562	560	559	558	556	555
14	551	549	547	547	548	548	548	551	556	555	555	558	556	556	554	553	551
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18	531	529	528	528	528	529	530	533	538	537	538	540	539	537	536	535	531
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21	516	513	511	511	511	511	512	516	521	521	523	525	524	522	520	517	516
22	509	507	505	505	506	506	505	509	515	515	516	519	518	516	515	512	509
23	502	500	498	498	498	499	500	504	509	509	511	513	513	511	508	505	502
24	497	494	491	491	491	492	493	497	502	504	504	507	506	504	502	498	497
25	489	487	485	484	485	486	487	491	497	496	497	501	500	498	496	493	489
26	482	481	477	477	477	479	480	484	490	491	492	494	493	490	488	486	482
27	476	473	471	471	470	472	474	478	483	484	484	488	488	485	483	480	476
28	468	467	464	463	463	464	466	469	476	478	478	480	480	477	475	473	468

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29	461	459	457	457	455	458	458	462	469	470	470	473	474	471	469	467	461
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32	439	436	434	433	433	435	436	439	447	449	449	452	451	449	447	443	439
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34	424	421	418	417	418	419	421	423	431	432	434	437	436	434	432	427	424
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61	199	195	193	191	191	192	193	195	201	203	205	208	208	207	205	203	199
62	191	186	184	182	182	183	184	188	193	194	197	200	201	199	198	194	191
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93	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0
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95	0	0	0	0	0	0	0	0	0	1	0	1	1	0	1	1	0
96	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
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100	0	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	0
102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	0	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	0
107	0	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	0
109	0	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	0
111	0	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	0
113	0	0	0	0	0	0	0	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	0
121	0	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	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
126	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
128	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
130	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
132	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
134	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
136	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
138	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
140	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
142	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
144	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
146	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
147	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	1	0	0	0	0
149	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	1	0	0	0
151	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
153	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
154	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0
155	0	0	0	0	1	0	0	0	1	0	0	1	1	0	0
156	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

Report Format Number STD/QR4909-A/2

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