



Report No.: GZE161256-A

NVLAP LAB CODE 201011-0

LM-79-08 Test Report

For

AOK Industrial Company limited

(Brand Name: AOK)

Add: 1# Building, Sans Souci Technology Industrial Park, Shajin street, Shenzhen city, Guangdong Province, China

LED Luminaires

Model name(s): AOK-30WiM

Representative (Tested) Model: AOK-30WiM

Model Different: All construction and rating are the same, except CCT

Test & Report By:

Charman Chen

Engineer: Charman Chen

Date: Dec.22,2016

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

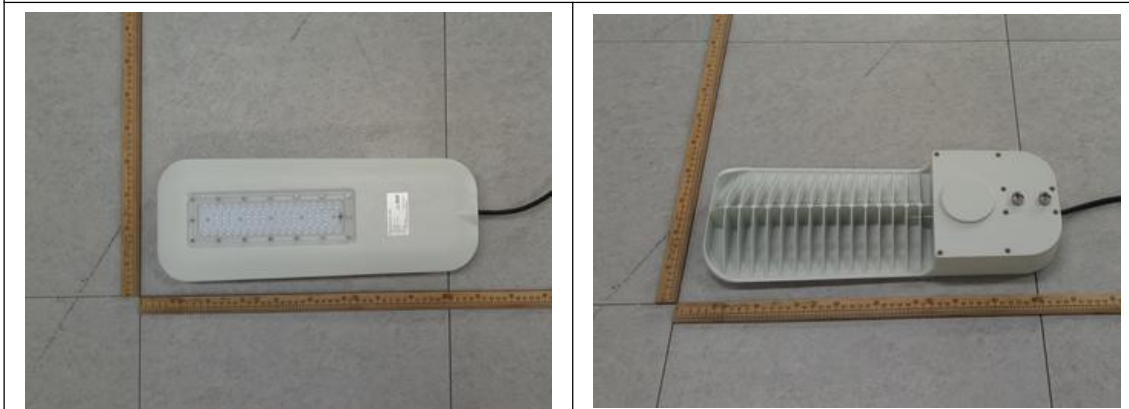
Report Format Number STD/QR4909-A/2

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	AOK Industrial Company limited	
Brand Name	AOK	
Model Number	AOK-30WiM	
SKU (if available)	N/A	
Type of Luminaire (for integral lamps, list base type and lamp type)	LED Luminaires	
Rated Voltage / Frequency	90~277Vac, 50/60 Hz	
Nominal Power	30W	
Rated Initial Lamp Lumen	--	
Declared CCT	5700K	
LED Manufacturer	Philips Lumileds	
LED Model	LUXEON 3030 2D	
Sample Number	GZE161256-A1(5700K)	
Luminaire Aperture (for downlights)	--	in.
Luminaire Length	--	mm
Luminaires Width	--	mm
Number of Units (modular products)	N/A	s

Photo


1.2 Test Specifications:

Date of Receipt	Dec.18,2016
Date of Test	Dec.19,2016
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	2016-12-19	Test Ambient:	25.2 ° C
Test Orientation	As intended	Stabilization Time (min)	90
Model Number	AOK-30WiM		

Electrical Measurement :

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD%
GZE161256-	120.0	60	0.2259	27.05	0.9977	6.21
A1	277.0	60	0.1185	27.03	0.9508	9.64

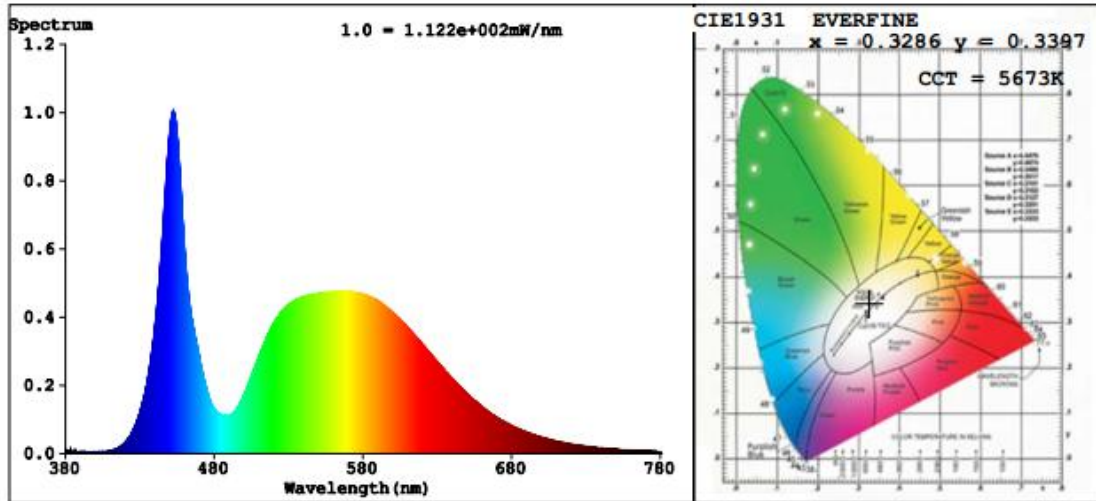
Chromaticity Measurement - Sphere-Spectroradiometer Method :

Parameter	Result	Special Color Rendering Indices			
Test Voltage (V)	120.0	R1	74	R9	0
Frequency (Hz)	60	R2	81	R10	52
CCT (K)	5673	R3	83	R11	72
Duv	0.0010	R4	76	R12	43
Chromaticity (x, y)	x=0.3286 y=0.3397	R5	74	R13	76
Chromaticity (u', v')	u'=0.2048 v'=0.4763	R6	72	R14	90
Color Rendering Index (CRI)	76.0	R7	85	R15	71
R9	0	R8	63	--	--

Photometric Measurement – Goniophotometer Method :

Parameter	Result	
Test Voltage (V)	120.0	277.0
Frequency (Hz)	60	60
Total Luminous (lm)	3552.7	3511.8
Luminous Efficacy (lm/W)	131.34	129.92
Beam Angle (°)	94	--
Center Beam Candle Power (cd)	896	--

Spectral Power Distribution & Chromaticity Diagram



Zonal Lumen Tabulation

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	815.0	22.9%
0-40	1,471.2	41.4%
0-60	2,883.9	81.2%
60-90	665.3	18.7%
70-100	184.4	5.2%
90-120	1.4	0%
0-90	3,549.2	99.9%
90-180	3.2	0.1%
0-180	3,552.4	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	85.9	2.4%	90-100	0.7	0%
10-20	263.2	7.4%	100-110	0.3	0%
20-30	465.9	13.1%	110-120	0.4	0%
30-40	656.2	18.5%	120-130	0.4	0%
40-50	736.3	20.7%	130-140	0.4	0%
50-60	676.4	19.0%	140-150	0.4	0%
60-70	481.7	13.6%	150-160	0.3	0%
70-80	146.9	4.1%	160-170	0.2	0%
80-90	36.7	1.0%	170-180	0.1	0%

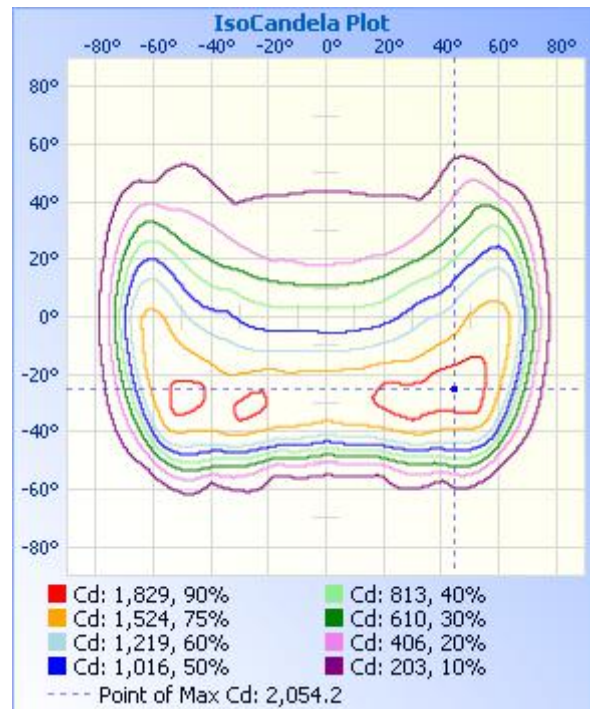
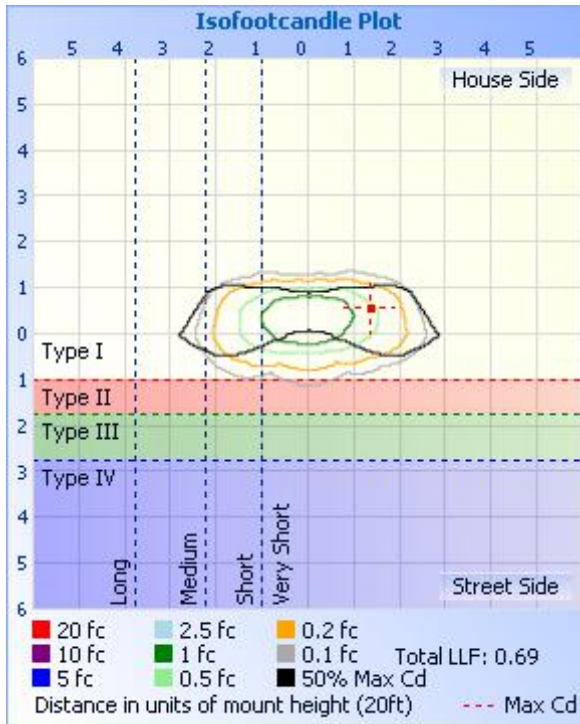
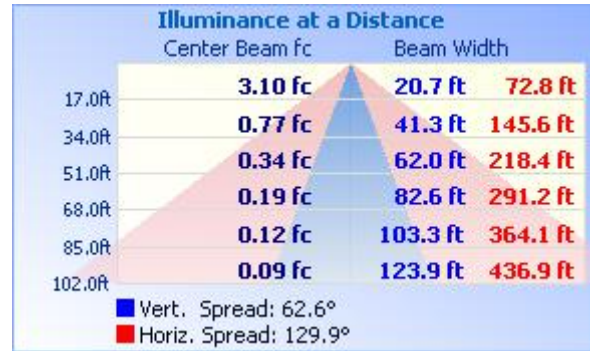
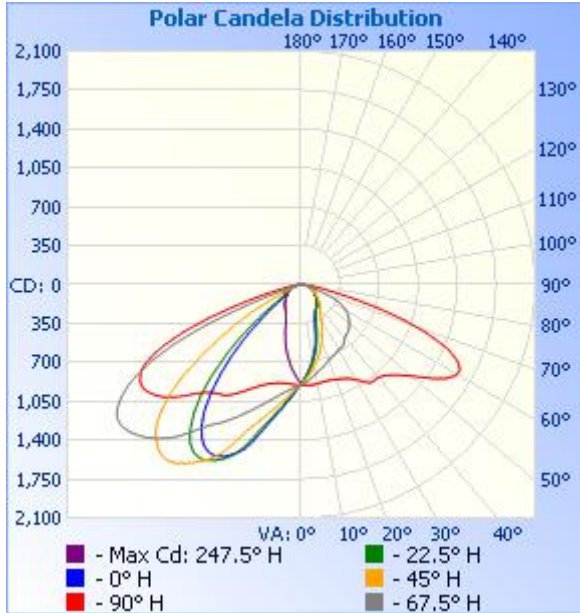
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Photometric Data



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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	896	896	896	896	896	896	896	896	896	896	896	896	896	896	896	896	896
1	868	867	879	893	905	910	915	915	912	906	905	907	902	891	885	873	868
2	847	849	864	885	906	917	933	933	933	924	922	913	903	884	867	855	847
3	822	827	850	879	906	928	946	958	959	948	941	923	902	873	852	830	822
4	797	809	831	870	906	938	966	985	989	976	956	933	901	864	833	807	797
5	777	785	816	859	907	946	983	1008	1012	998	978	939	900	853	813	787	777
6	751	761	799	847	906	957	1003	1036	1043	1028	995	950	898	842	797	763	751
7	727	740	779	837	905	968	1025	1058	1068	1052	1017	959	897	833	779	742	727
8	699	714	764	825	905	977	1042	1087	1100	1085	1041	969	896	824	760	716	699
9	671	688	744	814	903	988	1065	1117	1134	1116	1061	984	898	816	745	690	671
10	648	668	724	805	901	997	1086	1141	1163	1142	1087	997	899	808	726	669	648
11	618	641	708	795	899	1006	1104	1174	1199	1176	1114	1012	901	802	712	643	618
12	594	620	689	787	898	1016	1125	1200	1239	1213	1136	1029	904	795	695	622	594
13	561	591	674	778	897	1028	1142	1237	1273	1245	1164	1042	906	790	677	593	561
14	536	567	655	772	896	1038	1165	1274	1316	1284	1188	1060	913	784	662	565	536
15	504	537	638	763	896	1049	1190	1304	1368	1327	1222	1080	918	779	643	541	504
16	467	508	617	756	897	1061	1210	1348	1413	1366	1253	1094	924	773	628	512	467
17	437	483	595	747	897	1071	1239	1401	1471	1424	1279	1116	930	770	612	484	437
18	405	451	578	739	901	1082	1265	1447	1517	1475	1315	1135	936	766	596	461	405
19	384	426	559	733	903	1097	1291	1505	1563	1534	1346	1157	946	764	582	438	384
20	363	400	544	724	907	1106	1324	1547	1593	1578	1389	1182	957	762	565	411	363
21	344	378	526	718	910	1120	1352	1590	1624	1623	1440	1200	967	761	550	388	344
22	330	362	505	714	916	1131	1397	1618	1645	1659	1490	1226	982	762	529	371	330
23	315	343	487	708	920	1145	1440	1646	1668	1685	1555	1247	994	762	513	351	315
24	306	329	464	705	924	1156	1498	1674	1692	1714	1606	1276	1011	763	492	336	306
25	295	314	447	700	933	1171	1542	1693	1703	1734	1664	1297	1028	764	477	320	295
26	287	304	425	695	939	1187	1595	1718	1716	1761	1704	1328	1046	764	459	309	287
27	278	293	408	689	949	1203	1641	1735	1722	1773	1747	1352	1063	766	443	299	278
28	271	285	388	683	958	1223	1672	1752	1724	1789	1778	1380	1084	766	430	292	271
29	264	276	374	677	973	1243	1711	1764	1717	1800	1811	1406	1102	768	414	283	264

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30	260	269	358	674	985	1264	1737	1776	1705	1805	1836	1433	1125	770	401	277	260
31	255	262	345	672	1005	1282	1765	1776	1691	1803	1865	1456	1141	771	386	270	255
32	252	257	330	671	1021	1305	1793	1773	1665	1797	1888	1482	1164	771	374	265	252
33	248	253	319	669	1044	1322	1821	1766	1637	1783	1918	1507	1181	767	359	260	248
34	244	248	307	667	1059	1343	1846	1747	1596	1760	1936	1543	1199	762	346	255	244
35	241	244	299	661	1078	1358	1871	1726	1560	1738	1961	1576	1213	755	331	251	241
36	237	240	289	652	1084	1380	1892	1696	1503	1696	1972	1623	1222	747	319	246	237
37	234	237	282	640	1084	1393	1915	1660	1455	1659	1984	1670	1229	741	306	242	234
38	230	233	273	627	1083	1417	1924	1615	1389	1606	1984	1710	1238	735	297	236	230
39	226	229	267	620	1085	1440	1934	1570	1310	1545	1983	1757	1252	732	287	232	226
40	221	225	260	613	1088	1483	1934	1509	1244	1493	1970	1792	1267	728	278	227	221
41	217	221	253	609	1094	1523	1929	1440	1157	1417	1956	1831	1285	727	270	221	217
42	213	216	248	605	1104	1582	1918	1379	1084	1352	1932	1860	1304	726	263	217	213
43	207	211	241	602	1115	1638	1900	1293	990	1265	1910	1893	1331	726	255	211	207
44	202	207	236	600	1133	1682	1876	1222	915	1188	1881	1916	1364	724	247	207	202
45	197	202	230	597	1147	1735	1850	1126	820	1091	1846	1947	1394	723	242	201	197
46	192	197	224	590	1169	1768	1812	1046	745	991	1800	1970	1437	721	234	196	192
47	187	192	218	585	1188	1809	1773	945	648	911	1741	1989	1469	720	228	191	187
48	181	186	211	581	1219	1837	1715	864	555	811	1687	2010	1511	719	221	185	181
49	177	181	206	573	1244	1869	1648	762	486	730	1612	2026	1541	719	215	180	177
50	172	175	199	565	1278	1899	1587	662	407	628	1546	2039	1575	717	207	175	172
51	168	170	194	556	1309	1923	1504	584	350	549	1452	2048	1603	716	200	170	168
52	163	165	187	549	1350	1943	1430	489	288	456	1372	2054	1627	715	194	165	163
53	159	160	179	540	1386	1958	1329	418	248	374	1264	2049	1648	713	186	160	159
54	156	155	173	531	1432	1974	1241	335	211	315	1148	2042	1665	712	181	156	156
55	152	150	166	523	1477	1975	1122	276	186	254	1055	2020	1681	709	174	152	152
56	150	146	160	513	1510	1970	1026	224	172	217	937	1992	1693	707	168	149	150
57	147	142	153	505	1549	1957	906	193	160	187	847	1949	1696	704	163	145	147
58	144	139	148	491	1572	1933	797	176	153	170	744	1907	1695	704	157	142	144
59	142	135	141	478	1599	1891	717	162	146	156	667	1841	1685	702	152	138	142
60	139	133	135	463	1614	1850	628	152	141	145	580	1783	1669	699	146	135	139
61	137	129	131	448	1621	1789	561	146	138	139	496	1695	1650	693	142	132	137

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62	134	126	126	430	1614	1730	479	139	138	131	426	1591	1616	682	136	128	134
63	131	124	122	414	1590	1640	408	134	143	126	333	1499	1575	661	130	125	131
64	127	120	117	391	1560	1552	314	129	154	124	258	1370	1509	636	125	122	127
65	124	118	114	372	1509	1420	227	128	175	125	184	1247	1444	590	119	119	124
66	118	114	110	348	1457	1294	179	130	159	129	149	1073	1353	538	115	115	118
67	109	110	106	326	1379	1116	144	134	131	136	126	921	1244	459	109	111	109
68	104	107	103	289	1285	926	129	139	117	141	112	733	1145	391	105	107	104
69	99	102	98	246	1198	776	114	141	106	136	103	553	1009	304	100	103	99
70	96	98	95	210	1081	602	103	136	91	123	95	425	894	231	95	99	96
71	93	93	91	172	977	476	96	127	83	111	89	289	752	191	91	94	93
72	89	89	87	148	841	342	89	113	74	100	85	207	642	152	86	90	89
73	85	82	82	126	730	235	85	102	67	90	82	138	519	130	82	83	85
74	81	76	78	113	597	175	81	90	63	81	80	102	410	111	77	76	81
75	77	71	74	99	499	124	77	77	59	73	77	86	334	99	73	72	77
76	72	66	69	87	394	99	74	69	56	66	73	75	254	86	68	66	72
77	68	63	65	79	324	83	70	63	52	58	70	69	206	77	62	62	68
78	62	58	59	72	255	74	66	56	47	51	64	64	163	71	58	57	62
79	56	53	53	67	213	68	61	48	44	47	60	60	140	65	52	51	56
80	51	48	49	63	172	63	57	42	40	41	57	58	121	62	48	47	51
81	44	43	44	59	142	60	54	37	37	37	53	56	104	57	42	42	44
82	40	39	39	55	122	56	50	33	33	33	45	52	93	52	37	38	40
83	34	34	34	50	103	51	44	29	29	29	38	47	82	47	33	32	34
84	28	29	30	46	91	47	37	25	26	26	33	40	71	42	28	27	28
85	23	24	26	40	77	41	31	22	23	22	27	35	63	37	24	23	23
86	18	19	22	35	66	37	26	19	19	19	22	29	52	31	20	18	18
87	13	15	18	28	54	31	21	15	15	15	18	25	45	26	15	14	13
88	5	9	14	23	43	25	16	12	11	11	14	20	38	21	11	7	5
89	0	2	4	17	35	21	13	9	8	8	11	15	10	2	1	0	0
90	0	0	0	0	7	12	10	6	4	5	5	2	2	1	0	0	0
91	0	0	0	0	1	2	2	1	1	1	1	1	1	1	0	0	0
92	0	0	0	0	1	1	1	1	0	1	1	1	1	1	0	0	0
93	0	0	0	0	1	1	1	0	0	1	1	1	1	1	0	0	0

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94	0	0	0	0	1	1	0	0	0	1	1	1	1	1	0	0	0
95	0	0	0	2	1	1	0	0	0	0	1	1	1	1	0	0	0
96	0	0	0	1	4	2	0	0	0	0	1	1	1	1	0	0	0
97	0	0	0	0	1	1	0	0	0	0	1	1	1	1	0	0	0
98	0	0	0	0	1	1	0	0	0	0	1	1	1	1	0	0	0
99	0	0	0	0	1	1	0	0	0	0	0	1	1	1	0	0	0
100	0	0	0	0	1	0	0	0	0	0	0	1	1	1	0	0	0
101	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0
102	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0
103	0	0	0	0	1	1	0	0	0	0	0	1	1	1	0	0	0
104	0	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0
105	0	0	0	0	1	1	0	0	0	0	0	1	1	1	0	0	0
106	0	0	0	1	1	1	0	0	0	0	0	1	1	1	0	0	0
107	0	0	0	1	1	1	0	0	0	0	0	1	1	1	0	0	0
108	0	0	0	1	1	1	0	0	0	0	0	1	1	1	0	0	0
109	0	0	0	1	1	1	0	0	0	0	0	1	1	1	0	0	0
110	0	0	0	1	1	1	0	0	0	0	0	1	1	1	0	0	0
111	0	0	0	1	1	1	0	0	0	0	0	1	1	1	0	0	0
112	0	0	0	1	1	1	0	0	0	0	0	1	1	1	0	0	0
113	0	0	0	1	1	1	0	0	0	0	0	1	1	1	0	0	0
114	0	0	0	1	1	1	0	0	0	0	0	1	1	1	0	0	0
115	0	0	0	1	1	1	0	0	0	0	0	1	1	1	0	0	0
116	0	0	0	1	1	1	0	0	0	0	0	1	1	1	1	0	0
117	0	0	0	1	1	1	0	0	0	0	0	1	1	1	0	0	0
118	0	0	0	1	1	1	0	0	0	0	0	0	1	1	0	0	0
119	0	0	1	1	1	1	0	0	0	0	0	1	1	1	0	0	0
120	0	0	1	1	1	1	0	0	0	0	0	0	1	1	1	0	0
121	0	0	1	1	1	1	0	0	0	0	0	0	1	1	1	0	0
122	0	0	1	1	1	1	0	0	0	0	0	0	1	1	1	0	0
123	0	0	1	1	1	1	0	0	0	0	0	0	1	1	1	0	0
124	0	0	1	1	1	1	0	0	0	0	0	0	1	1	0	0	0
125	0	0	1	1	1	1	0	0	0	0	0	1	1	1	1	0	0

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126	0	0	1	1	1	1	0	0	0	0	0	0	1	1	1	0	0
127	0	0	1	1	1	1	0	0	0	0	0	0	1	1	1	0	0
128	0	0	1	1	1	1	0	0	0	0	0	0	1	1	1	0	0
129	0	1	1	1	1	1	0	0	0	0	0	0	1	1	1	0	0
130	0	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	0
131	0	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	0
132	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	0	1
133	0	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	0
134	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1
135	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1
136	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1
137	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1
138	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1
139	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1
140	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1
141	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1
142	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1
143	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1
144	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1
145	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1
146	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1
147	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1
148	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1
149	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1
150	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1
151	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1
152	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1
153	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1
154	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1
155	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1
156	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1
157	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1

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