



72506
LED Entryway Light



RoHS

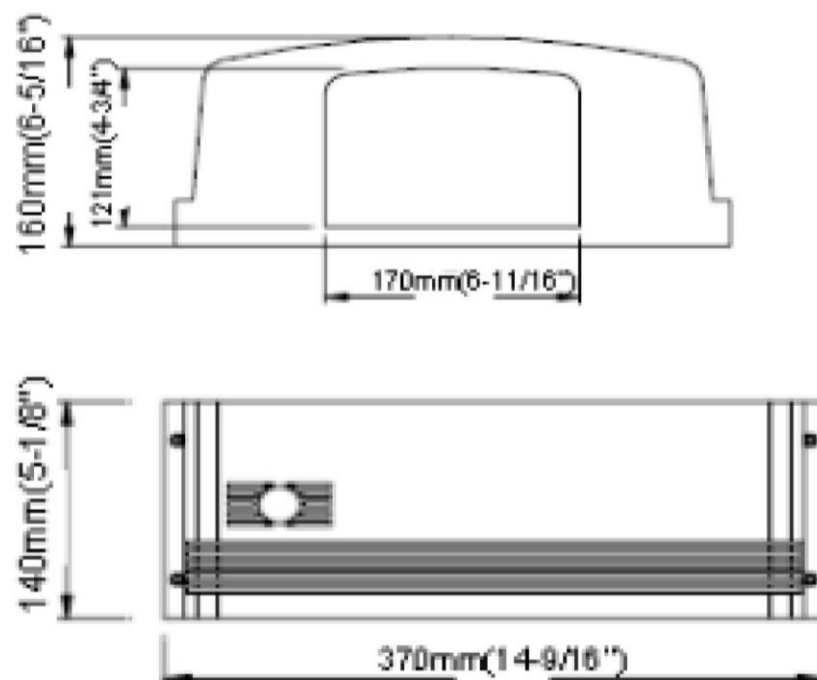


QPL ID #
PPATFZGS

Model:		72506
OVERALL LAMP PARAMETERS	Input Voltage	120-277 VAC 60HZ
	Input Current	0.5A Max @120V
	Input Power	25W
	Power Factor	PF≥0.95
	Luminance	3,133 LM
	Luminous Efficiency	125 LM/W
	CRI	>74
	Beam Angle	112°
	Main Structure	Aluminium + Tempered Glass Lens
LED DRIVER	Output Voltage	12-24 VDC
	Output Current	0.9A
	Driver Efficiency	88%
LED	LED Manufacturer	Nichia
	LED Type	757
	LED Quantity	18 PCS
	LED Efficacy	130 LM/W
	Color Temperature	WW/NW/CW (5000K)
Photocell	-	Not Included
LIFESPAN & ENVIRONMENT	Lifespan	50,000+ Hrs.
	Warranty	5 Years
	IP Rating	IP54 Wet Locations
	Operating Temperature	-20℃--+40℃
	Storage Temperature.Humidity	-40℃--+80℃ , 10-90% RH
SAFETY&EMC	Safety Norms	UL1598, UL8750, EN60598, EN61347-2-13, EN62031, EN62471
	Withstand Voltage	I/P-PG: 2121VDC
	Grounding Resistance	25A 100mΩ
	Electromagnetic Compatibility	EN55015, EN61000-2-3, EN61000-3-3, EN61547
OTHERS	Dimension	Pls refer to attached dimension drawing
	Net Weight	0.6KG
	Gross Weight	0.8KG
	Q'ty / Carton纸箱	4 PCS
	Volume	0.52Cbm/carton
	Housing Color	Black

Dimension:

72506





NVLAP LAB CODE 201011-0

Report No.: GZE160238-C

LM-79-08 Test Report

For

Morris Products Inc.

53 Carey Rd. Queensbury, NY 12804

Outdoor Full-Cutoff Wall-mounted Area Luminaires

Model name(s): 72506, 72508

Representative (Tested) Model: 72506

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

Test & Report By:

Jack Luo

Engineer: Jack Luo

Date: 2016-03-24



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-C/2

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<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	2016-03-24
Test Report No.	GZE160238-C
Laboratory Contact Name	Tommy Liang

Product Information:

Organization Name	Morris Products Inc..		
Brand Name	MORRIS		
Model Number	72506 (5000K)		
SKU (if available)	N/A		
Type of Luminaire (for integral lamps, list base type and lamp type)	Outdoor Full-Cutoff Wall-mounted Area Luminaires		
Luminaire Aperture (for downlights)	--	in. mm mm	
Luminaire Length	--		
Luminaires Width	--		
Number of Units (modular products)	N/A	s	

Integrating Sphere

Goniophotometer

Electrical Measurements:

Output

Output

Input Wattage	23.51	--	W
Input Current	0.1978	--	A
Input Voltage (ac)	120.0	--	V
Power Factor	0.9905	--	
Off-State Power	0	--	W

Photometric Characteristics

Total Initial Lumen Output	3121	--	lm
Initial Lumen Efficacy	132.75	--	lm/w
Correlated color temperature / CCT	5091	--	K
Color rendering index / CRI	74.3	--	
R9 Value	0	--	
Duv	0.0021	--	
Luminous Intensity Distribution			
Center beam candlepower (if applicable)	-----		cd
Beam angle (if applicable)			°
Zonal lumens in the 0°-60° zone			%
Zonal lumens in the 60°-90° zone			%
Zonal lumens in the 90°-120° zone			%
Zonal lumens in the 120°-180° zone			%

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Test Specifications:	
Date of Receipt	: 2016-03-19
Date of Test	: 2016-03-21
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 $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$, 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 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.

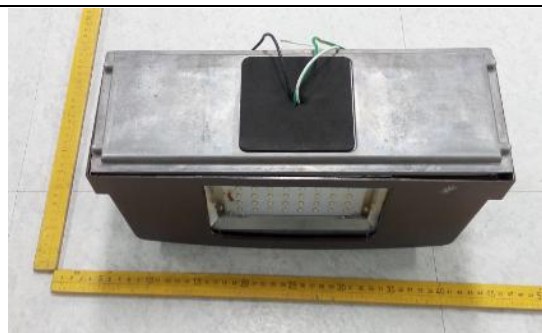
2. Photometric and Electrical Measurements – Integrating Sphere Method:

Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$. 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 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	MORRIS
Model Number	72506
Luminaire Type	Outdoor Full-Cutoff Wall-mounted Area Luminaires
Rated Voltage / Frequency	100~277Vac, 50/60Hz
Nominal Power	25W
Rated Initial Lamp Lumen	--
Declared CCT	5000K
LED Manufacturer	Nichia Corporation
LED Model	NF2L757DR
Sample Receipt Date	2016-03-19
Sample Number	C2 (5000K)

Photo



2.2 Electrical, Photometric and Chromaticity Measurements (Refer to Work Instruction QD25)	IES LM-79 2008
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Test date	2016-03-21	Test Ambient:	25.1 °C
Test Orientation	As intended	Stabilization Time (min)	90
Model Number	WM152AE30D(5000K)		

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD %
GZE160238	120.0	60	0.1978	23.51	0.9905	6.23
-C2	277.0	60	0.0939	23.46	0.9019	10.71

Sphere-Spectroradiometer Method:

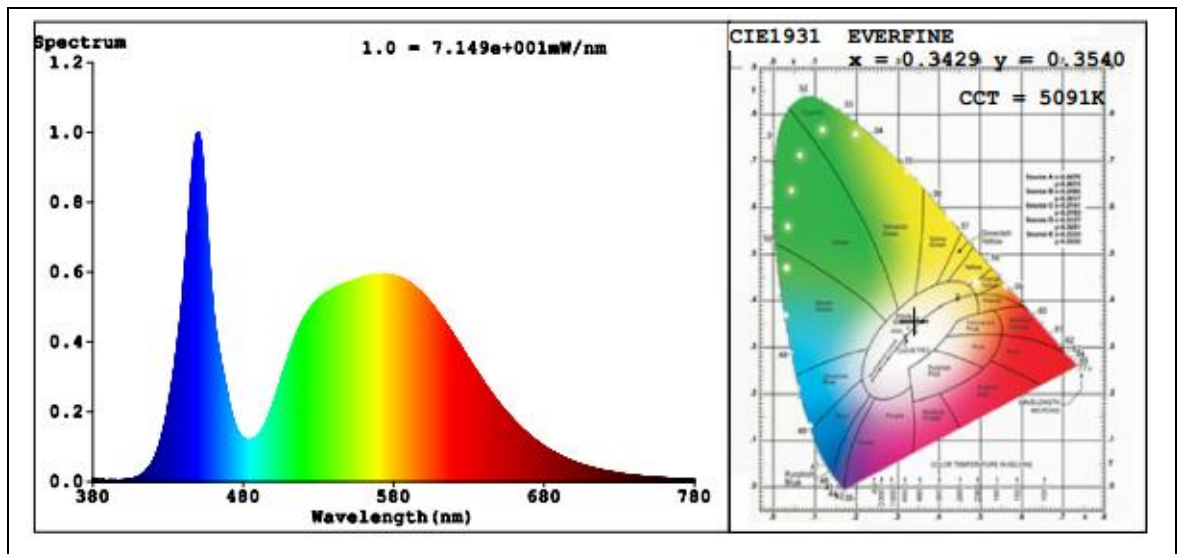
Parameter	Result
Test Voltage (V)	120.0
Frequency (Hz)	60
Color Rendering Index (CRI)	74.3
R9	0
CCT (K)	5091
Chromaticity (x, y)	x=0.3429 y=0.3540
Chromaticity (u', v')	u'=0.2090 v'=0.4855
Duv	0.0021
Total Initial Lumen Output(lm)	3121
Initial Lumen Efficacy(lm/w)	132.75

Special Color Rendering Indices			
R1	72	R9	0
R2	79	R10	49
R3	83	R11	72
R4	75	R12	46
R5	73	R13	73
R6	71	R14	90
R7	82	R15	67
R8	59	--	--

Sphere-Spectroradiometer Method for 277V:

Parameter	Result
Test Voltage (V)	277.0
Frequency (Hz)	60
Total Initial Lumen Output(lm)	3109
Initial Lumen Efficacy(lm/w)	132.52

Spectral Power Distribution & Chromaticity Diagram



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Zonal Lumen Tabulation

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	862.4	29%
0-40	1,422.6	47.9%
0-60	2,530.7	85.2%
60-90	439.9	14.8%
70-100	107.9	3.6%
90-120	0.0	0%
0-90	2,970.6	100%
90-180	1.2	0%
0-180	2,971.8	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	103.6	3.5%	90-100	0	0%
10-20	300.4	10.1%	100-110	0	0%
20-30	458.4	15.4%	110-120	0.0	0%
30-40	560.3	18.9%	120-130	0.1	0%
40-50	587.4	19.8%	130-140	0.3	0%
50-60	520.6	17.5%	140-150	0.3	0%
60-70	332.0	11.2%	150-160	0.3	0%
70-80	103.8	3.5%	160-170	0.2	0%
80-90	4.0	0.1%	170-180	0.1	0%

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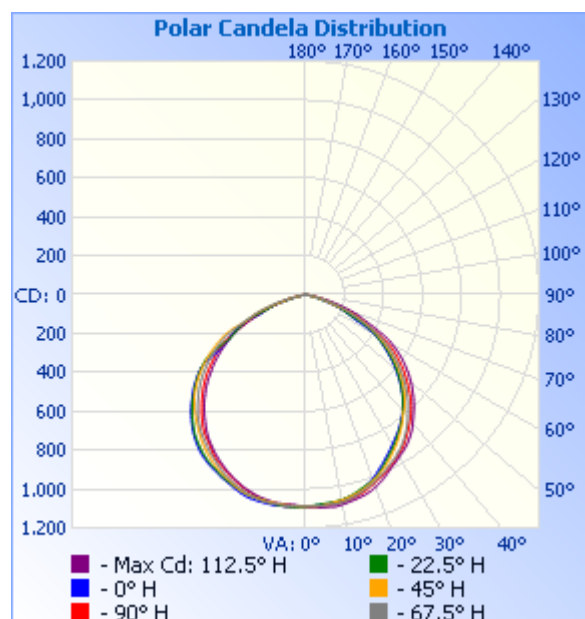
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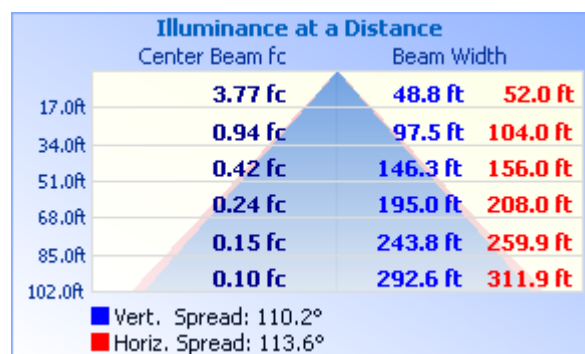
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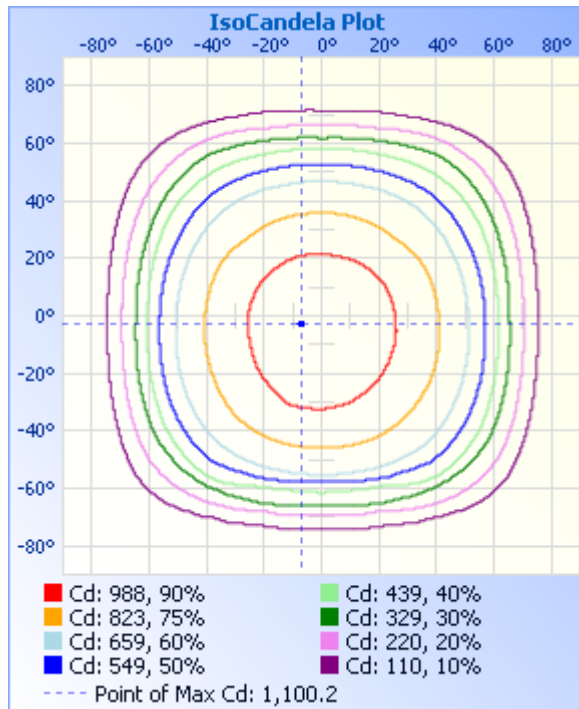
Photometric Data



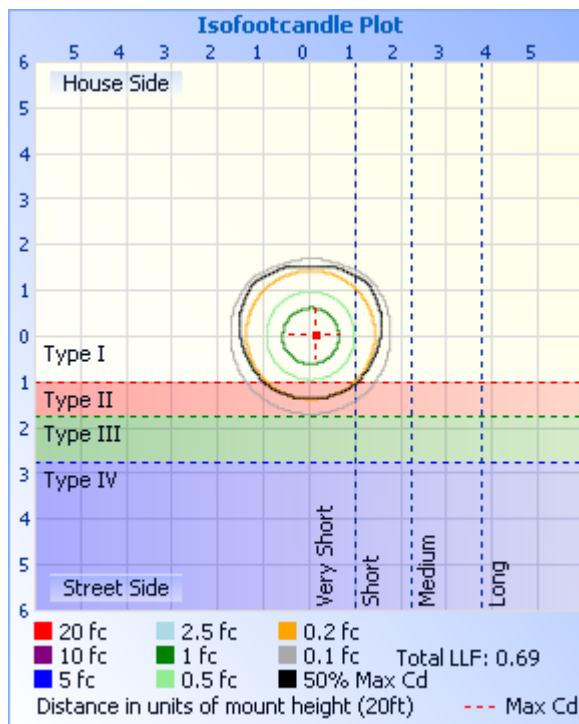
Illuminance Plots



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	1089	1089	1089	1089	1089	1089	1089	1089	1089	1089	1089	1089	1089	1089	1089	1089	1089
1	1088	1086	1089	1089	1088	1092	1090	1091	1089	1091	1088	1089	1089	1087	1087	1087	1088
2	1086	1084	1089	1088	1087	1094	1090	1093	1090	1093	1088	1089	1090	1084	1086	1086	1086
3	1085	1083	1089	1089	1087	1096	1089	1094	1090	1094	1087	1089	1090	1082	1084	1084	1085
4	1083	1080	1088	1089	1088	1098	1089	1095	1091	1094	1087	1089	1091	1082	1082	1082	1083
5	1082	1079	1086	1087	1087	1098	1091	1095	1092	1093	1086	1088	1092	1081	1080	1081	1082
6	1081	1078	1083	1086	1086	1097	1093	1094	1093	1092	1085	1088	1092	1081	1077	1078	1081
7	1080	1076	1080	1086	1087	1099	1094	1093	1093	1091	1083	1087	1093	1081	1074	1075	1080
8	1078	1075	1077	1087	1087	1100	1095	1093	1094	1090	1082	1087	1090	1081	1071	1072	1078
9	1076	1073	1074	1087	1085	1099	1095	1093	1094	1087	1082	1087	1087	1078	1070	1069	1076
10	1073	1071	1072	1085	1083	1096	1095	1093	1093	1084	1082	1087	1084	1075	1067	1065	1073
11	1069	1067	1069	1081	1080	1092	1094	1091	1091	1081	1081	1086	1080	1072	1064	1060	1069
12	1065	1063	1065	1077	1078	1088	1093	1090	1090	1078	1078	1084	1076	1069	1060	1056	1065
13	1061	1058	1060	1072	1074	1085	1091	1089	1089	1076	1076	1081	1071	1066	1056	1052	1061
14	1056	1051	1056	1066	1070	1082	1089	1087	1087	1075	1075	1076	1065	1061	1053	1047	1056
15	1051	1044	1051	1060	1065	1078	1085	1084	1086	1074	1073	1071	1059	1056	1049	1042	1051
16	1044	1038	1046	1054	1060	1076	1080	1080	1083	1071	1070	1066	1054	1050	1044	1036	1044
17	1036	1032	1039	1047	1054	1072	1075	1076	1079	1068	1066	1061	1048	1045	1037	1030	1036
18	1027	1027	1032	1041	1047	1066	1071	1072	1074	1063	1062	1056	1042	1038	1031	1024	1027
19	1017	1021	1024	1034	1039	1060	1066	1068	1068	1058	1057	1051	1036	1031	1024	1015	1017
20	1007	1014	1016	1028	1032	1052	1062	1064	1061	1052	1050	1043	1029	1022	1016	1006	1007
21	996	1006	1007	1020	1023	1043	1057	1061	1055	1047	1044	1036	1022	1015	1008	996	996
22	984	996	999	1012	1017	1035	1051	1056	1049	1042	1037	1030	1015	1008	998	986	984
23	972	984	991	1003	1009	1026	1042	1051	1043	1038	1030	1022	1006	1000	989	975	972
24	961	972	981	994	1002	1016	1033	1045	1037	1033	1023	1014	998	992	978	965	961
25	949	959	971	986	995	1006	1024	1039	1032	1026	1016	1005	989	982	965	954	949
26	937	947	960	978	988	996	1016	1033	1025	1019	1009	996	982	973	951	945	937
27	925	935	949	970	980	987	1010	1026	1019	1012	1001	987	975	964	937	933	925
28	914	924	937	962	971	979	1001	1020	1013	1006	992	977	967	955	924	920	914

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29	902	913	925	954	963	971	991	1014	1008	1000	984	968	958	945	913	910	902
30	890	902	914	945	954	962	981	1007	1002	993	975	959	948	935	902	899	890
31	880	891	902	936	944	954	971	1000	995	986	966	951	936	924	890	889	880
32	869	878	890	924	935	947	962	992	988	978	956	941	923	913	880	877	869
33	859	866	878	912	924	940	951	982	980	970	947	930	911	903	869	864	859
34	849	853	865	902	912	931	941	971	971	961	937	920	902	892	858	852	849
35	838	842	852	889	899	920	932	960	961	952	926	910	893	880	844	840	838
36	826	831	839	876	887	909	923	950	951	941	915	900	883	866	829	827	826
37	814	819	825	862	874	898	914	938	939	932	904	891	871	852	816	814	814
38	802	806	810	848	862	886	904	925	928	921	891	879	858	837	803	801	802
39	789	792	796	832	850	872	896	913	917	909	879	867	844	823	790	788	789
40	775	779	783	817	837	858	886	901	904	895	867	854	830	809	777	776	775
41	761	764	772	802	824	844	874	887	890	882	856	842	815	794	764	762	761
42	747	749	760	787	811	829	860	873	876	868	845	830	800	780	751	747	747
43	732	734	747	771	795	815	846	859	862	856	833	815	785	764	739	730	732
44	716	717	733	756	780	801	832	845	848	841	821	800	769	748	725	714	716
45	699	702	717	739	764	787	818	830	833	826	809	785	754	732	711	698	699
46	682	685	702	723	747	772	803	813	817	811	796	770	738	715	697	682	682
47	664	669	686	706	729	756	788	798	801	794	783	753	722	699	682	666	664
48	646	652	669	688	713	741	772	782	785	776	769	739	706	681	666	648	646
49	628	634	653	670	695	725	756	764	768	760	754	723	689	663	648	630	628
50	609	616	636	652	676	710	740	747	752	744	737	706	673	644	631	613	609
51	590	598	620	633	659	693	724	730	735	727	720	690	656	624	613	595	590
52	571	579	601	614	641	675	706	713	716	711	703	671	637	607	594	576	571
53	552	561	582	595	622	657	688	695	698	692	685	653	617	589	575	557	552
54	532	543	562	575	603	638	670	677	678	673	667	634	597	570	555	538	532
55	512	523	543	555	584	621	650	657	658	654	648	615	579	551	535	519	512
56	493	503	524	537	565	602	629	636	626	633	627	596	562	531	515	498	493
57	473	481	503	518	546	583	609	615	549	612	606	576	543	512	494	478	473
58	454	459	482	497	524	562	590	587	491	581	586	556	523	493	474	457	454
59	434	438	461	477	502	540	570	519	473	508	565	536	501	473	455	436	434
60	412	417	440	455	475	519	548	454	456	449	544	516	477	452	435	415	412

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61	379	396	418	432	443	498	525	433	439	430	521	495	448	430	414	392	379
62	342	370	396	405	411	469	502	416	421	411	498	473	417	407	392	367	342
63	299	342	375	374	380	437	478	398	402	393	475	446	387	380	372	337	299
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65	252	265	326	313	329	373	417	359	361	356	408	384	330	324	329	263	252
66	234	239	299	288	309	343	344	340	324	337	338	353	306	294	302	238	234
67	216	222	277	266	289	320	312	319	250	316	311	324	286	268	277	220	216
68	198	204	250	246	269	299	291	269	232	260	292	299	267	245	251	203	198
69	181	186	217	225	246	278	266	216	217	214	273	279	248	226	220	186	181
70	154	168	178	205	220	257	238	200	201	199	247	259	223	207	184	167	154
71	120	146	145	183	192	230	211	185	185	184	220	236	196	187	148	145	120
72	104	119	128	158	166	203	188	168	150	169	192	206	171	162	129	117	104
73	91	95	114	132	146	176	155	148	108	148	144	179	148	138	114	95	91
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76	44	49	61	83	91	111	91	73	50	71	91	106	90	84	61	49	44
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78	21	26	35	50	57	60	42	26	27	31	44	59	57	50	34	25	21
79	11	15	25	34	44	47	35	20	2	22	35	47	44	34	23	15	11
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81	9	8	11	16	21	22	12	1	1	1	11	19	20	16	10	8	9
82	8	7	6	9	12	13	5	0	1	1	1	12	11	8	5	7	8
83	8	7	5	5	6	7	1	1	0	0	1	5	5	4	4	7	8
84	6	6	4	2	1	2	0	0	0	0	0	2	1	2	4	5	6
85	5	5	3	1	0	0	0	0	0	0	0	0	0	1	3	4	5
86	4	4	2	1	0	0	0	0	0	0	0	0	0	1	2	3	4
87	3	3	2	0	0	0	0	0	0	0	0	0	0	1	2	3	3
88	2	2	1	0	0	0	0	0	0	0	0	0	0	0	1	1	2
89	0	0	0	0	0	0	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
91	0	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	0

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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>

93	0	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	0
95	0	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	0
97	0	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	0
99	0	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	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
114	0	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	0
116	0	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	0
118	0	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	0
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	2	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	0	0
126	0	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	0
128	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0
129	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
131	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0
132	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
133	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
134	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
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136	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
137	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
138	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
139	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
141	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
142	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
143	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0
144	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0
145	0	0	0	0	0	1	0	0	1	0	0	0	1	0	0	0	0
146	1	0	0	0	0	1	0	0	1	1	1	1	1	0	0	0	1
147	1	0	0	0	0	1	0	0	1	1	1	1	1	0	0	0	1
148	1	0	0	0	0	1	0	0	1	1	1	1	1	0	0	1	1
149	1	0	0	0	0	1	0	0	1	1	1	1	1	0	0	1	1
150	1	0	0	0	0	1	1	0	1	1	1	1	1	0	0	1	1
151	1	1	0	0	0	1	1	0	1	1	1	1	1	0	0	1	1
152	1	1	0	0	0	1	1	1	1	1	1	1	1	0	0	1	1
153	1	1	1	0	0	1	1	1	1	1	1	1	1	0	0	1	1
154	1	1	1	0	0	1	1	1	1	1	1	1	1	0	0	1	1
155	1	1	1	0	0	1	1	1	1	1	1	1	1	0	1	1	1
156	1	1	1	0	0	1	1	1	1	1	1	1	1	0	1	1	1

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157	1	1	1	0	0	1	1	1	1	1	1	1	0	0	1	1	1
158	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1
159	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1
160	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
161	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
162	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
163	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
164	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
165	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
166	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
167	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
168	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
169	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
170	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
171	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
172	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
173	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
174	1	1	1	1	1	1	1	1	1	1	1	1	0	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	0	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

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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 *******