



Guangdong Meide Testing Technology Co., Ltd.



TEST REPORT OF ANSI/IES LM-79-19

APPROVED METHOD FOR OPTICAL AND ELECTRICAL MEASUREMENTS OF SOLID-STATE LIGHTING PRODUCTS

Client..... : ROYALUX EXPORTS

Address..... : SDF BLOCK M-13, M-14, M-15 & M-16,NOIDA SPECIAL ECONOMIC ZONE,NOIDA
DADRI ROAD, PHASE-II,NOIDA, DSTT. GAUTAM BUDH NAGAR, UP-201305

Test Model..... : 601Y0080W30L70DY,601Y0080W57L70DY

Brand Name..... : 

Testing Laboratory..... : Guangdong Meide Testing Technology Co., Ltd.

Address..... : 1st floor, B Area, Jinbaisheng Industrial Park, Headquarters 2 Road,
Songshan Lake Hi-tech Industrial Development Zone,Dongguan City,
Guangdong Pr., China.

Testing location..... : As above

Report No..... : CA2008348L 01003

Test Date..... : August.26,2020-August.28,2020

Report Date..... : August.31,2020

Tested by:

Tim Qian/ Test Engineer

Checked by:

Luke Lei/ Project Engineer

Approved by:

Jessie Li/ Technical Manager



Note 1: The test data was only valid for the test sample(s). This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or use in part without prior written consent from Guangdong Meide Testing Technology Co., Ltd. This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Note 2: This report does not imply product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.



Guangdong Meide Testing Technology Co., Ltd.



1. Product Description for Equipment under Test(EUT)

The client submitted 2 sample of model 601Y0080W30L70DY,601Y0080W57L70DY. Sample 601Y0080W30L70DY was numbered CA2008348L 01003-S01. Sample 601Y0080W57L70DY was numbered CA2008348L 01003-S02. The sample was received on 2020-08-26, is undamaged condition.

Model Tested:	601Y0080W30L70DY,601Y0080W57L70DY
Manufacturer:	Same as client
Address:	Same as client
Product Type:	Outdoor Non-Cutoff and Semi-Cutoff Wall-Mounted Area Luminaires
Rated Voltage/Frequency:	100-277V AC,50/60Hz
Rated Power:	80W
Nominal CCT:	3000K,5700K
LED Manufacturer:	Shenzhen Smalite Semiconductor Co.,Ltd
LED Model No:	SL-IB3030YEA-21EAI
LED Driver Manufacturer:	SHENZHEN SOSEN ELECTRONICS CO., LTD
LED Driver Model:	SE-100E-58B

Model Similarity:

Model designation: 6XXDyyyyWCVRXY

"6" denotes Wallpack Series;

"XX" can be 01 or 02, which denotes luminaires shell Shape and Overall dimension, where 01= L361mm X W235mm X H180mm or 02= L320mm X W130mm X H175mm;

"D" can be Y or N, which denotes Dimmable or Non-dimmable;

"yyyy" denotes the wattage of luminaires, can be from 0048 to 0070; each 1W gradually increase max. 70W, from 0070 to 0130, each 5 W gradually increase, max. 130W, for example 0048=48W;

"C" can be two arbitrary numbers, which denotes LED Color Temperature, for example 50=5000K;

"V" can be L or H, which denotes range of input voltage; where L=Low voltage range, H=High voltage range or same as LED Driver input;

"R" can be two arbitrary numbers, which denotes CRI, for example 80=80CRI;

"X" can be A, B, C or D, which denotes Light Distribution, where A = T3, B = T4FT, C = 5WQ or D = Other;

"Y" can be an arbitrary number, letter or blank, which denote the company's internal information.



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2. Standards Used

- ANSI/IES LM-79-19:APPROVED METHOD:OPTICAL AND ELECTRICAL MEASUREMENTS OF SOLID-STATE LIGHTING PRODUCTS
- IES TM-30-18 IES Method for Evaluating Light Source Color Rendition (This Method is not in Nvlap accreditation scope)
- ANSI C82.77-10:2014 Harmonic Emission Limits – Related Power Quality Requirements for Lighting Equipment-Solid State

3. Test equipment list

Test Equipment	Serial No	Model No	Calibration due date
Full-field Speed Goniophotometer	MD-E028	GO-R5000	2020/10/06
Digital Power Meter	MD-E001	PF2010	2020/10/06
AC Testing Power Source	MD-E002	DPS1060	2020/10/06
Total Spectral Radiant Flux Standard Lamp	MD-E007	D908S	2020/10/06
Integrating Sphere System	MD-E029	2M	2020/10/06
High Accuracy Array Spectroradio Meter	MD-E011	HAAS-3000	2020/10/06
Digital Power Meter	MD-E008	PF310	2020/10/06
AC Testing Power Source	MD-E010	DPS1010	2020/10/06
Standard Lamp	MD-E012	D204	2021/06/09

Statement of Traceability: Guangdong Meide Testing Technology Co., Ltd. attested that all calibration has been performed using suitable standards traceable to national primary standards and International System of Unit(SI).



Guangdong Meide Testing Technology Co., Ltd.



4. Test Method

Requirements of Ambient Condition

Product was tested with no seasoning. All stabilization and measurements were made in compliance with ANSI/IES LM-79-19. The product was operated at rated voltage or at voltage required by manufacturer. The ambient temperature of the sample was maintained at $25^{\circ}\text{C} \pm 1.2^{\circ}\text{C}$ during measurement. And relative humidity between 10% and 65%.

Goniophotometer System

The sample was tested according to the ANSI/IES LM-79-19.

Photometric parameters were measured using a type C goniophotometer and software. The samples were operated at rated voltage and was stabilized before measurement. Luminous flux, Luminous efficacy, zonal flux were calculated from the software taken at 1° vertical intervals and 22.5° horizontal intervals. Photometric distance was more than five times of the Largest dimension of the test SSL product.

Integrating Sphere System

The sample was tested according to the ANSI/IES LM-79-19.

The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere. Coating reflectance of the integrating sphere was 90% to 98%. Photometric measurement conditions was using 4π geometry. The self-absorption factor is applied in the final test result. The sample was operated at rated voltage and was stabilized before measurement. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at 1 nm intervals over the range of 380 to 780 nm.

Fidelity Index (R_f) and Gamut Index (R_g) Calculation

The R_f , R_g was calculated according to IES TM-30-18 by using calculation tools. The calculation was based on the measured SPD from 380nm to 780nm with 1nm intervals. All the colors in this report is for reference only.

THD and PF Test

The sample was tested according to the ANSI C82.77-10:2014.

The sample was operated at rated voltage and was stabilized before measurement. The total harmonic distortion were calculated from the digital power meter.



5.Integrating Sphere Test Results

5.1 Test Data for Model # 601Y0080W30L70DY

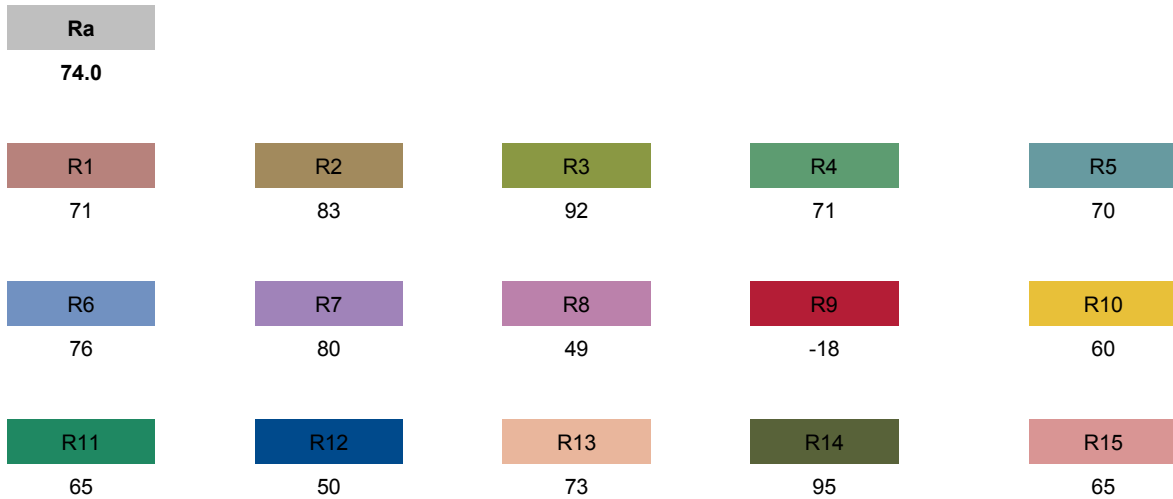
Test Ambient Temperature	25.1℃	Test orientation	Downward
Operate time(Min.)	100	stabilization time(Min.)	90

Optical and Electrical Measurement Result

Voltage (V)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	Luminous Flux(lm)	Efficacy (lm/W)	CCT (K)
120.0	60	0.6596	78.86	0.9963	9224.7	116.98	2935

Ra	R9	Rf	Rg	x	y	u'	v'	Duv
74.0	-18	75	96	0.4393	0.4010	0.2535	0.5205	-0.00121

Color Rendering Index





ANSI/IES TM-30-18 Color Rendition Report

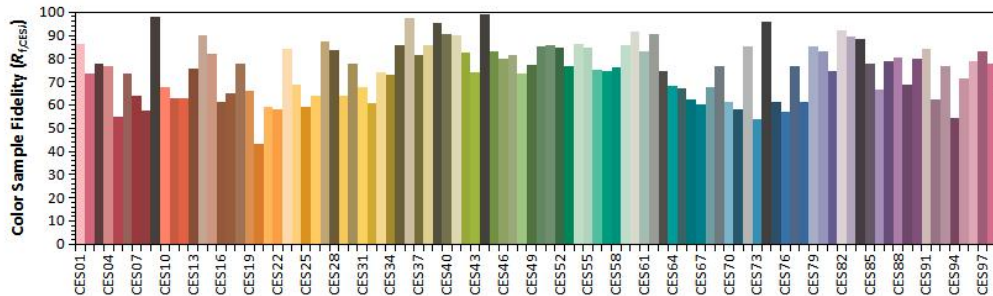
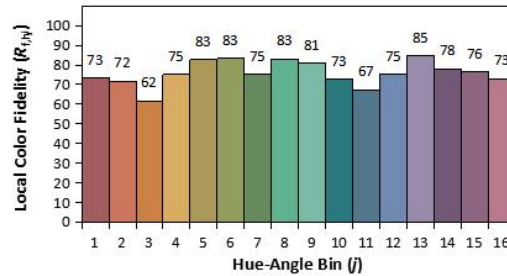
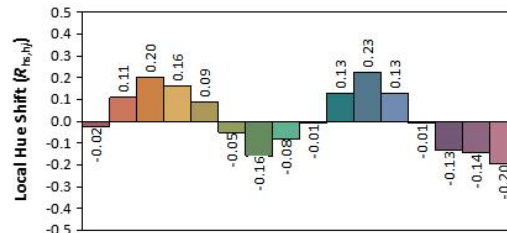
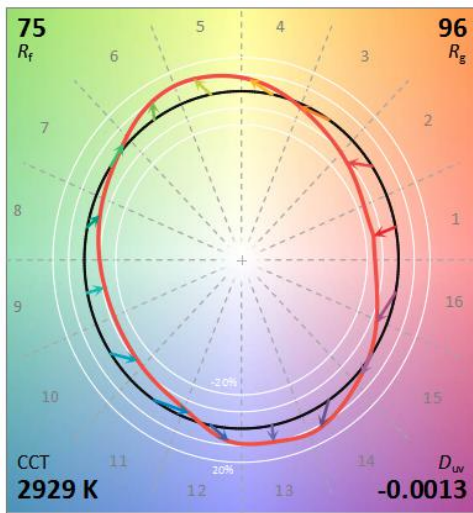
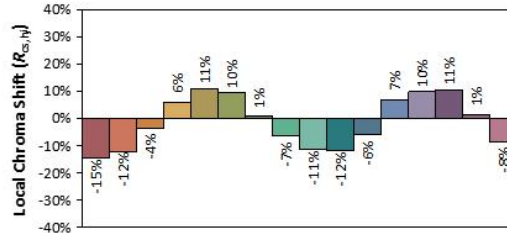
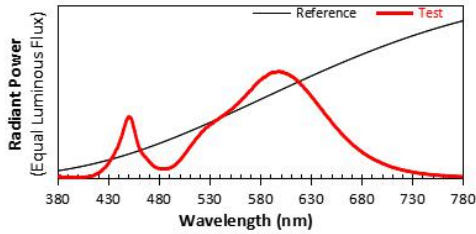
ANSI/IES TM-30-18 Color Rendition Report

Source: SL-IB3030YEA-21EAI

Manufacturer: ROYALUX EXPORTS

Date: 2020/8/31

Model: 601Y0080W30L70DY



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.4401
 y 0.4019
 u' 0.2536
 v' 0.5210

CIE 13.3-1995
 (CRI)
 R_a 74
 R_g -18

Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.



5.2 Test Data for Model # 601Y0080W57L70DY

Test Ambient Temperature	25.1℃	Test orientation	Downward
Operate time(Min.)	100	stabilization time(Min.)	90

Optical and Electrical Measurement Result

Voltage (V)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	Luminous Flux(lm)	Efficacy (lm/W)	CCT (K)
120.0	60	0.6598	78.81	0.9954	9695.8	123.03	5663

Ra	R9	Rf	Rg	x	y	u'	v'	Duv
75.3	-12	75	95	0.3288	0.3386	0.2053	0.4757	0.000661

Color Rendering Index

Ra				
75.3				
R1	R2	R3	R4	R5
74	79	80	77	75
R6	R7	R8	R9	R10
71	83	64	-12	48
R11	R12	R13	R14	R15
74	45	75	89	71



ANSI/IES TM-30-18 Color Rendition Report

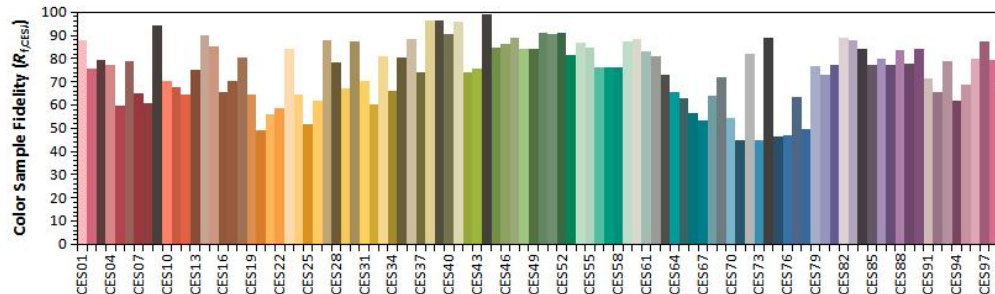
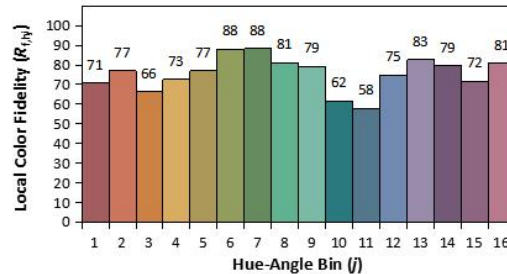
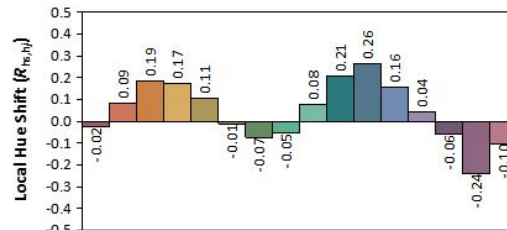
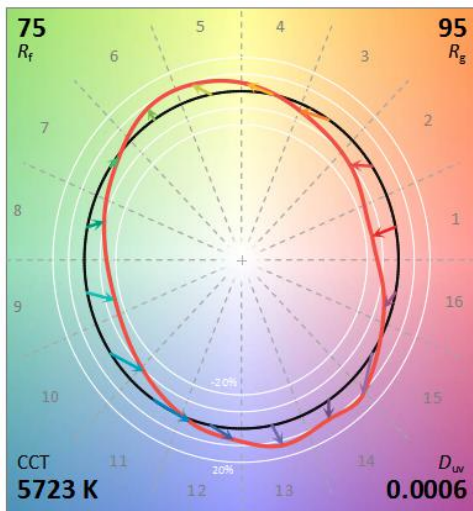
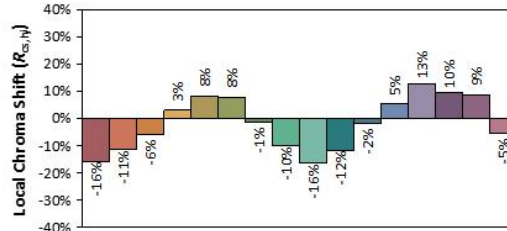
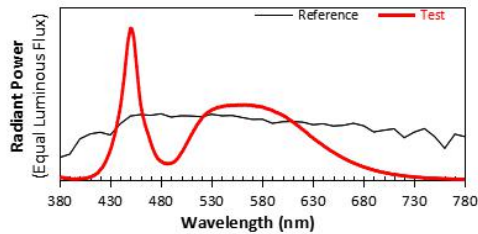
ANSI/IES TM-30-18 Color Rendition Report

Source: SL-IB3030YEA-21EAI

Manufacturer: ROYALUX EXPORTS

Date: 2020/8/31

Model: 601Y0080W57L70DY



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.3275
y 0.3379
u' 0.2047
v' 0.4752

CIE 13.3-1995 (CRI)
R_a 75
R_g -12

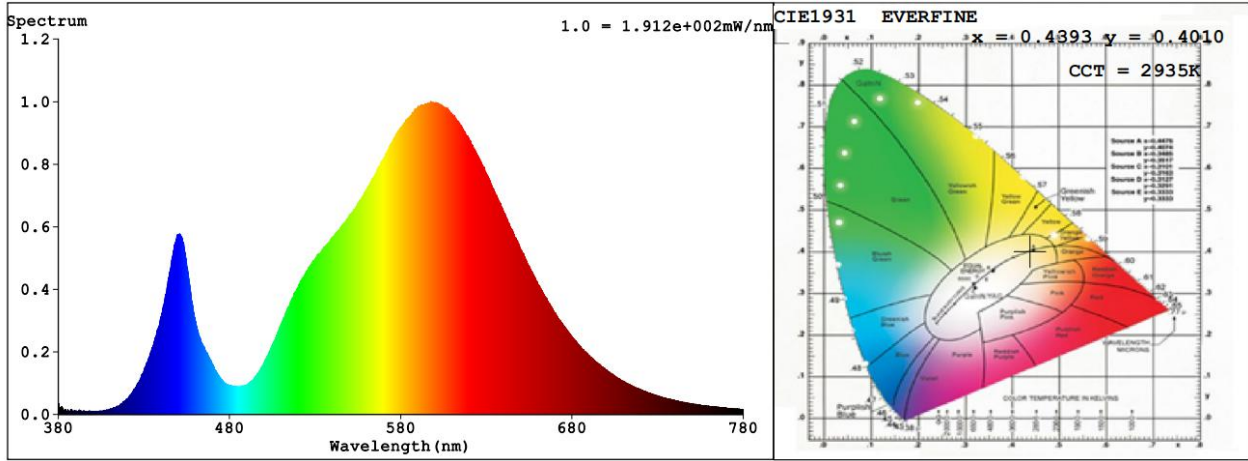
Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.



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5.3 Model # 601Y0080W30L70DY Relative Spectral Power Distribution



nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
380	0.0169	414	0.0238	448	0.5428	482	0.0888	516	0.3634
381	0.0191	415	0.0249	449	0.5576	483	0.0891	517	0.3727
382	0.0251	416	0.0298	450	0.573	484	0.0892	518	0.3836
383	0.0103	417	0.0342	451	0.5716	485	0.0885	519	0.3944
384	0.0093	418	0.0407	452	0.5653	486	0.0876	520	0.4033
385	0.0052	419	0.0429	453	0.5489	487	0.0898	521	0.4172
386	0.0108	420	0.0483	454	0.5172	488	0.0906	522	0.431
387	0.0079	421	0.0532	455	0.4769	489	0.0914	523	0.4376
388	0.0132	422	0.0601	456	0.4423	490	0.0939	524	0.4446
389	0.0106	423	0.0685	457	0.3986	491	0.0984	525	0.4578
390	0.0108	424	0.0773	458	0.3605	492	0.1018	526	0.4672
391	0.0071	425	0.0853	459	0.3281	493	0.1076	527	0.4743
392	0.0098	426	0.0952	460	0.2983	494	0.1117	528	0.4788
393	0.0109	427	0.1017	461	0.2762	495	0.1182	529	0.4921
394	0.0076	428	0.1139	462	0.2545	496	0.1256	530	0.4974
395	0.0113	429	0.1252	463	0.2401	497	0.1336	531	0.5056
396	0.0059	430	0.1378	464	0.2247	498	0.1429	532	0.509
397	0.0067	431	0.1531	465	0.2151	499	0.152	533	0.5141
398	0.0104	432	0.1673	466	0.2029	500	0.1627	534	0.5227
399	0.0069	433	0.1825	467	0.1953	501	0.1715	535	0.5342
400	0.0088	434	0.1975	468	0.1825	502	0.1845	536	0.5385
401	0.0079	435	0.2112	469	0.173	503	0.1967	537	0.5437
402	0.0089	436	0.2293	470	0.1611	504	0.2087	538	0.5479
403	0.0086	437	0.251	471	0.1499	505	0.2207	539	0.5577
404	0.01	438	0.2702	472	0.1401	506	0.2337	540	0.5648
405	0.0114	439	0.2822	473	0.1299	507	0.245	541	0.5699
406	0.0108	440	0.3117	474	0.1207	508	0.2577	542	0.5778
407	0.0127	441	0.3349	475	0.1135	509	0.2728	543	0.5836
408	0.0136	442	0.3612	476	0.1071	510	0.2871	544	0.5893
409	0.0145	443	0.383	477	0.1012	511	0.2988	545	0.5956
410	0.0156	444	0.4164	478	0.0971	512	0.3099	546	0.6058
411	0.0167	445	0.4531	479	0.0957	513	0.3227	547	0.6118
412	0.0205	446	0.4835	480	0.0921	514	0.3367	548	0.616
413	0.0221	447	0.5121	481	0.0916	515	0.3454	549	0.6268



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nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
550	0.6343	599	0.9963	648	0.556	697	0.1557	746	0.0372
551	0.6392	600	0.9941	649	0.5434	698	0.1513	747	0.0364
552	0.6476	601	0.9872	650	0.5279	699	0.1468	748	0.0351
553	0.653	602	0.9939	651	0.5165	700	0.1402	749	0.0343
554	0.6617	603	0.986	652	0.5042	701	0.1372	750	0.034
555	0.6749	604	0.9821	653	0.4951	702	0.1341	751	0.0326
556	0.6823	605	0.9776	654	0.4814	703	0.1302	752	0.0315
557	0.6886	606	0.9776	655	0.4731	704	0.1271	753	0.0304
558	0.6977	607	0.9742	656	0.4606	705	0.1225	754	0.03
559	0.7098	608	0.9667	657	0.4518	706	0.1186	755	0.0294
560	0.7168	609	0.9637	658	0.4408	707	0.1149	756	0.0287
561	0.7263	610	0.9531	659	0.4294	708	0.1119	757	0.0276
562	0.7389	611	0.9522	660	0.4166	709	0.1079	758	0.0269
563	0.7465	612	0.9448	661	0.4103	710	0.1037	759	0.0256
564	0.7549	613	0.9387	662	0.3979	711	0.1033	760	0.0261
565	0.7639	614	0.9305	663	0.389	712	0.0988	761	0.0249
566	0.7759	615	0.9247	664	0.3787	713	0.097	762	0.0255
567	0.7911	616	0.9154	665	0.3722	714	0.0943	763	0.0236
568	0.7959	617	0.9069	666	0.3602	715	0.0906	764	0.0229
569	0.8105	618	0.895	667	0.3537	716	0.0878	765	0.0236
570	0.8188	619	0.8907	668	0.3435	717	0.0867	766	0.0218
571	0.823	620	0.8728	669	0.3326	718	0.0836	767	0.0216
572	0.8344	621	0.8682	670	0.3253	719	0.0809	768	0.0211
573	0.85	622	0.8592	671	0.316	720	0.08	769	0.0201
574	0.8611	623	0.8471	672	0.3057	721	0.0766	770	0.0201
575	0.8683	624	0.8328	673	0.3002	722	0.0737	771	0.0194
576	0.8826	625	0.8271	674	0.2926	723	0.0726	772	0.0194
577	0.8881	626	0.8159	675	0.285	724	0.0705	773	0.0186
578	0.8977	627	0.8047	676	0.2775	725	0.0667	774	0.0174
579	0.909	628	0.7935	677	0.2692	726	0.0662	775	0.0177
580	0.9141	629	0.7823	678	0.2616	727	0.0649	776	0.017
581	0.9232	630	0.7675	679	0.2551	728	0.0625	777	0.0159
582	0.9297	631	0.7584	680	0.2482	729	0.0608	778	0.0155
583	0.9409	632	0.7452	681	0.2398	730	0.0591	779	0.0163
584	0.9402	633	0.7343	682	0.234	731	0.0568	780	0.016
585	0.9472	634	0.7223	683	0.2276	732	0.0551		
586	0.9553	635	0.7078	684	0.2218	733	0.0531		
587	0.963	636	0.7002	685	0.2166	734	0.0524		
588	0.9682	637	0.6836	686	0.2093	735	0.0501		
589	0.9756	638	0.6748	687	0.2037	736	0.0493		
590	0.981	639	0.6593	688	0.1996	737	0.0486		
591	0.9824	640	0.648	689	0.193	738	0.047		
592	0.9899	641	0.6381	690	0.1887	739	0.0447		
593	0.9844	642	0.6248	691	0.1815	740	0.0437		
594	0.9894	643	0.6107	692	0.1783	741	0.0422		
595	0.9897	644	0.5984	693	0.172	742	0.042		
596	0.9918	645	0.5869	694	0.1672	743	0.0402		
597	0.9939	646	0.5766	695	0.1634	744	0.039		
598	0.9967	647	0.5635	696	0.1612	745	0.0386		



6. Goniophotometer Test results for model # 601Y0080W30L70DY

6.1 Test Data

Test Ambient Temperature	25.1°C	Test orientation	Downward
Operate time(Min.)	120	stabilization time(Min.)	90

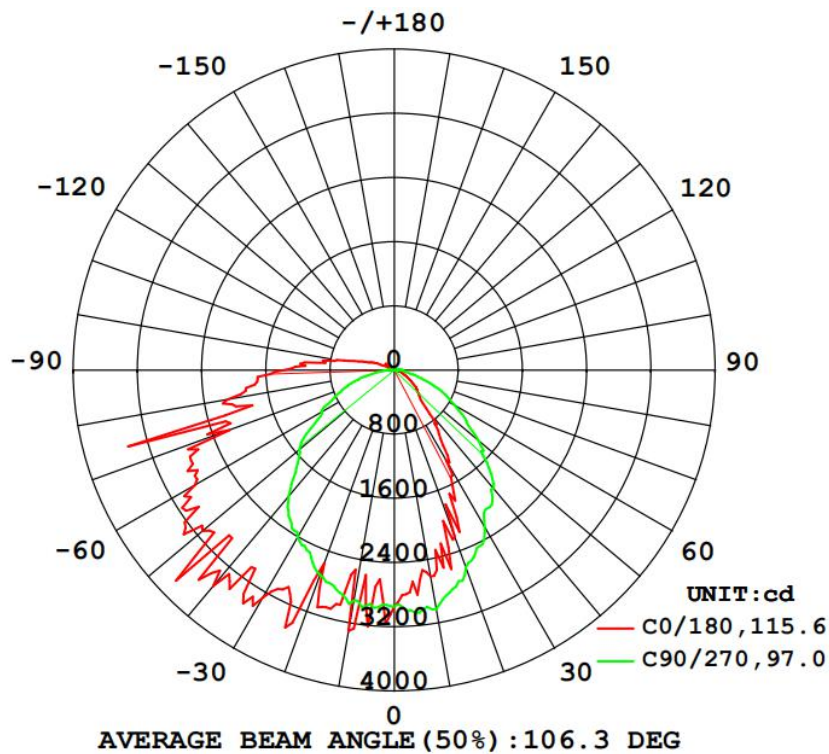
Electrical Measurement

Input Voltage (V)	Frequency (Hz)	Input Current(A)	Power Factor	Power(W)
120.0	60	0.6595	0.9969	78.89

Optical Measurement

Luminous Flux (lm)	Efficacy(lm/W)	Luminous Flux(lm) (0-90°)	Efficacy(lm/W) (0-90°)	BUG	ZL (80-90°)
9239.4	117.12	8717	110.50	B3-U3-G4	6.2%

6.2 Luminous Intensity Distribution





6.3 Zonal Flux Diagram

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2610	2499	3027	3025	3304	2712	2915	2949	0- 10	274.5	274.5	2.97,2.97
20	2207	2296	2615	3030	2563	3062	2717	2485	10- 20	774.9	1049	11.4,11.4
30	1295	1664	2255	2835	3267	3094	2409	1836	20- 30	1145	2194	23.7,23.7
40	622.8	961.5	1924	2749	3517	2872	2054	1151	30- 40	1345	3539	38.3,38.3
50	356.2	451.0	1379	2556	3124	2643	1549	543.7	40- 50	1358	4897	53,53
60	197.6	274.1	864.9	2369	2872	2524	1049	301.7	50- 60	1279	6177	66.9,66.9
70	107.2	141.8	478.6	1840	2184	2020	661.1	174.8	60- 70	1110	7287	78.9,78.9
80	42.96	53.15	157.6	1225	2114	1417	281.9	75.11	70- 80	860.7	8147	88.2,88.2
90	1.948	11.88	94.02	637.6	1378	816.1	98.55	19.54	80- 90	570.1	8717	94.4,94.4
100	2.800	6.378	59.94	291.3	728.3	373.8	71.21	10.81	90-100	307.4	9025	97.7,97.7
110	3.209	2.511	31.66	26.97	289.8	69.15	42.87	3.069	100-110	125.5	9150	99,99
120	3.304	2.725	15.85	66.04	32.83	88.23	20.33	3.308	110-120	41.11	9191	99.5,99.5
130	3.184	2.611	8.054	31.28	109.6	51.26	10.56	2.198	120-130	29.46	9221	99.8,99.8
140	2.805	2.641	3.436	4.172	41.45	8.368	2.746	2.665	130-140	13.31	9234	99.9,99.9
150	2.368	2.422	2.209	2.028	2.342	2.439	3.041	3.122	140-150	3.019	9237	100,100
160	2.225	2.395	2.427	2.155	2.768	2.850	2.944	3.165	150-160	1.167	9238	100,100
170	2.144	2.338	2.468	2.352	2.829	2.878	3.031	3.092	160-170	0.7413	9239	100,100
180	2.616	2.673	2.848	2.792	2.645	2.598	2.784	2.851	170-180	0.2530	9239	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		



6.4 Luminous Distribution Intensity Data

Table--1 UNIT: cd

C (DEG) \ γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	2944	2944	2944	2944	2944	2944	2944	2944	2944	2944	2944	2944	2944	2944	2944	2944			
5	2648	2703	2789	2872	3035	3231	2786	2653	2707	2641	2678	3136	2973	2887	2892	2841			
10	2610	2647	2499	2853	3027	2806	3025	2719	3304	3524	2712	2597	2915	2807	2949	2636			
15	2238	2506	2678	2779	2824	2740	2985	3102	3078	3092	2509	3215	2825	2657	2574	2453			
20	2207	2203	2296	2473	2615	3075	3030	3047	2563	2945	3062	2756	2717	2517	2485	1929			
25	1794	1699	2274	2239	2446	2509	2865	3450	3077	3305	2892	2593	2504	2324	2137	1974			
30	1295	1406	1664	2087	2255	2612	2835	3108	3267	3127	3094	2573	2409	2183	1836	1567			
35	967	1062	1366	1708	2080	2200	2847	3330	3022	3383	2852	2569	2266	1940	1486	1163			
40	623	747	962	1426	1924	2142	2749	3145	3517	3238	2872	2331	2054	1691	1151	814			
45	439	463	649	1098	1638	2071	2730	3299	2915	3323	2810	2162	1732	1295	792	498			
50	356	371	451	801	1379	1861	2556	2838	3124	2972	2643	2055	1549	984	544	403			
55	273	289	350	566	1099	1579	2449	3040	2974	3231	2644	1877	1283	739	396	315			
60	198	212	274	373	865	1353	2369	2804	2872	2942	2524	1595	1049	503	302	236			
65	144	152	205	261	665	1145	1987	2666	2773	2678	2135	1393	831	340	235	167			
70	107	109	142	204	479	987	1840	2240	2184	2486	2020	1200	661	240	175	115			
75	71.3	74.9	90.6	149	278	749	1481	2101	2186	2750	1769	969	473	190	121	79.4			
80	43.0	41.2	53.2	104	158	578	1225	1875	2114	1971	1417	796	282	136	75.1	47.9			
85	15.2	12.0	23.6	68.2	112	397	907	1487	1717	1567	1117	549	148	96.7	39.8	18.3			
90	1.95	1.95	11.9	45.1	94.0	247	638	1139	1378	1258	816	367	98.5	68.1	19.5	2.73			
95	2.29	2.20	8.34	33.7	78.1	166	438	795	1118	931	544	241	81.1	49.7	14.3	2.89			
100	2.80	2.68	6.38	24.3	59.9	98.0	291	520	728	612	374	131	71.2	37.8	10.8	3.20			
105	3.11	2.98	4.88	2.11	18.2	33.4	224	337	419	386	273	68.1	21.6	2.57	7.99	3.27			
110	3.21	3.12	2.51	12.5	31.7	63.3	27.0	238	290	251	69.2	99.5	42.9	18.1	3.07	3.13			
115	3.22	3.16	2.83	8.74	22.5	39.6	60.5	49.2	116	67.9	95.4	69.4	31.4	11.9	4.04	2.90			
120	3.30	3.25	2.73	5.93	15.9	24.5	66.0	76.9	32.8	65.8	88.2	42.0	20.3	10.01	3.31	2.69			
125	3.27	3.25	2.67	4.74	10.8	16.2	51.8	107	132	112	74.7	22.3	14.1	7.13	2.56	2.62			
130	3.18	3.15	2.61	3.87	8.05	10.9	31.3	80.3	110	85.0	51.3	14.8	10.6	5.44	2.20	2.67			
135	2.86	2.86	2.75	3.08	3.96	7.87	10.7	50.5	75.4	57.8	23.6	10.3	2.51	4.34	2.52	2.59			
140	2.81	2.77	2.64	2.53	3.44	4.93	4.17	22.7	41.5	31.8	8.37	5.29	2.75	2.59	2.66	3.00			
145	2.68	2.63	2.57	2.53	2.82	2.13	2.04	4.64	15.8	11.2	2.66	2.30	3.66	2.93	2.95	3.11			
150	2.37	2.32	2.42	2.11	2.21	2.10	2.03	1.63	2.34	2.37	2.44	2.52	3.04	2.83	3.12	3.16			
155	2.26	2.30	2.39	2.37	2.31	2.27	2.06	1.79	2.61	2.64	2.69	2.75	2.82	2.93	3.19	3.27			
160	2.23	2.36	2.40	2.41	2.43	2.32	2.15	1.96	2.77	2.76	2.85	2.86	2.94	3.06	3.17	3.27			
165	2.09	2.29	2.35	2.44	2.36	2.37	2.23	2.06	2.84	2.81	2.84	2.92	2.98	3.04	3.09	3.09			
170	2.14	2.23	2.34	2.43	2.47	2.49	2.35	2.14	2.83	2.83	2.88	2.91	3.03	3.04	3.09	3.01			
175	2.33	2.40	2.46	2.57	2.66	2.66	2.55	2.41	2.73	2.74	2.78	2.85	2.94	2.98	2.96	2.84			
180	2.62	2.60	2.67	2.79	2.85	2.86	2.79	2.60	2.64	2.66	2.60	2.69	2.78	2.85	2.85	2.77			

7. THD and PF Test for model # 601Y0080W30L70DY

Voltage (V AC)	Frequency (Hz)	Power Factor	THD (%)
100.0	60	0.9975	5.11
120.0	60	0.9969	5.69
277.0	60	0.9389	15.23



8.Photo of sample



Figure 1



Figure 2

***** END OF THE TEST REPORT*****