



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..... : 602Y0060W30L70AY,602Y0060W57L70AY

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 01006

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.



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1. Product Description for Equipment under Test(EUT)

The client submitted 2 sample of model 602Y0060W30L70AY,602Y0060W57L70AY. Sample 602Y0060W30L70AY was numbered CA2008348L 01006-S01. Sample 602Y0060W57L70AY was numbered CA2008348L 01006-S02. The sample was received on 2020-08-26, is undamaged condition.

Model Tested:	602Y0060W30L70AY,602Y0060W57L70AY
Manufacturer:	Same as client
Address:	Same as client
Product Type:	Outdoor Full-Cutoff Wall-Mounted Area Luminaires
Rated Voltage/Frequency:	100-277V AC,50/60Hz
Rated Power:	60W
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:	SS-75E-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).



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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 # 602Y0060W30L70AY

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	0.4877	58.22	0.9947	7209.7	123.84	2924

Ra	R9	Rf	Rg	x	y	u'	v'	Duv
74.4	-16	75	97	0.4404	0.4018	0.2538	0.5210	-0.00176

Color Rendering Index





ANSI/IES TM-30-18 Color Rendition Report

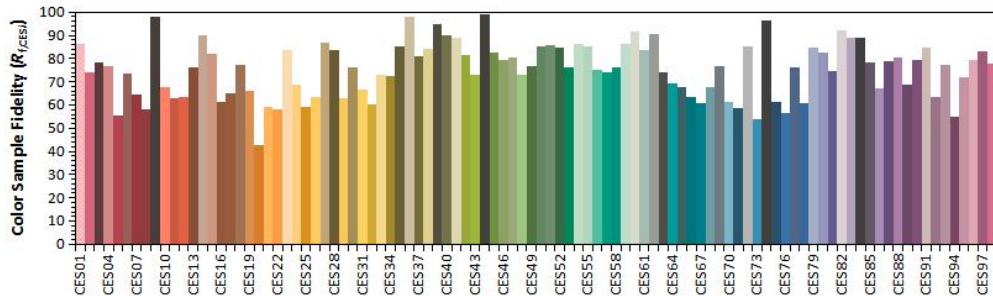
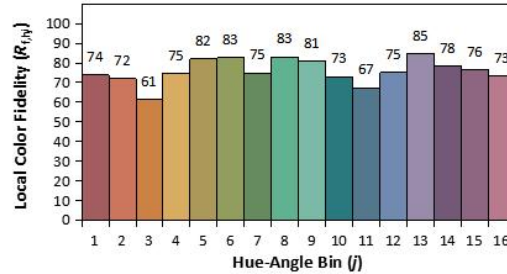
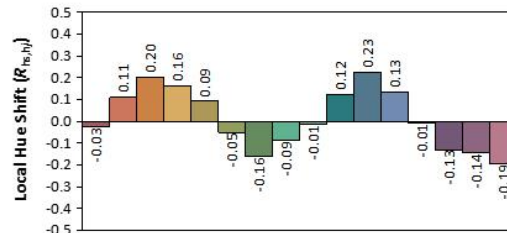
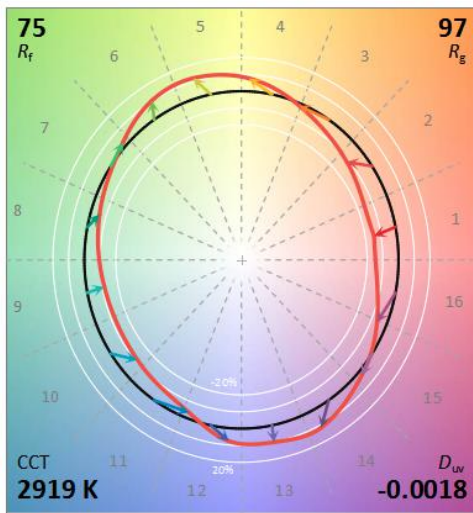
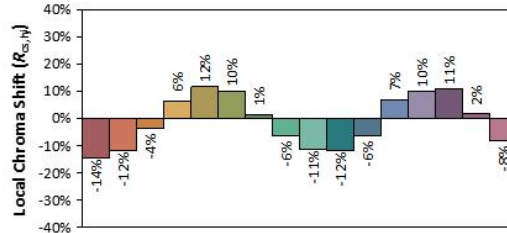
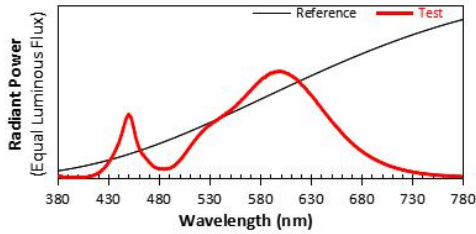
ANSI/IES TM-30-18 Color Rendition Report

Source: SL-IB3030YEA-21EAI

Manufacturer: ROYALUX EXPORTS

Date: 2020/8/31

Model: 602Y0060W30L70AY



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

x 0.4400
y 0.4005
u' 0.2541
v' 0.5204

CIE 13.3-1995 (CRI)
R_a 74
R_g -16

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 # 602Y0060W57L70AY

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	0.4894	58.38	0.9941	7536.1	129.09	5588

Ra	R9	Rf	Rg	x	y	u'	v'	Duv
74.7	-15	75	95	0.3304	0.3442	0.2043	0.4788	0.00186

Color Rendering Index

Ra				
74.7				
R1	R2	R3	R4	R5
73	78	80	76	74
R6	R7	R8	R9	R10
70	83	63	-15	47
R11	R12	R13	R14	R15
73	44	74	89	69



ANSI/IES TM-30-18 Color Rendition Report

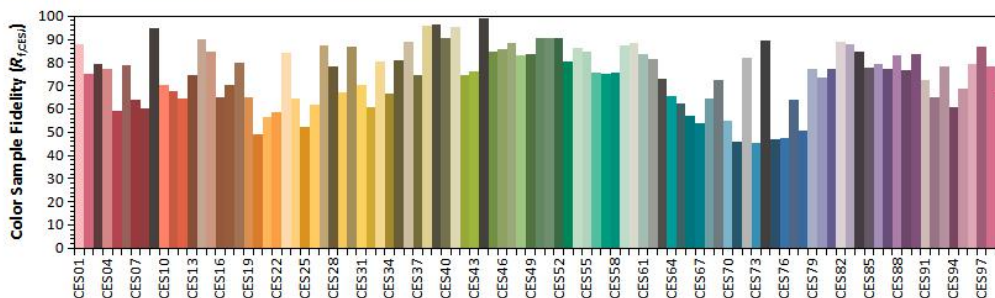
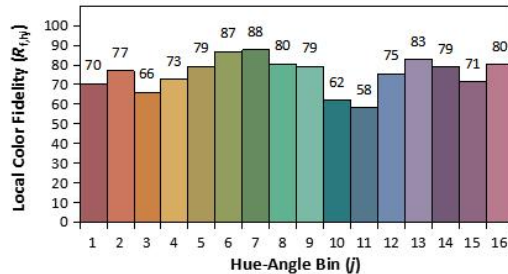
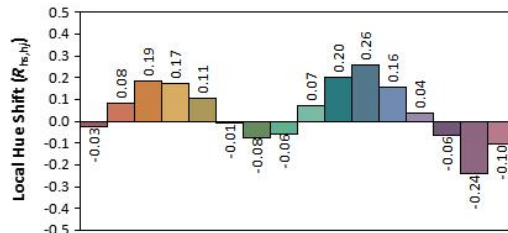
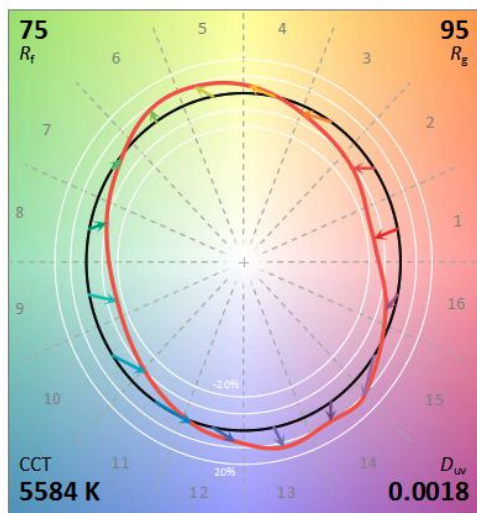
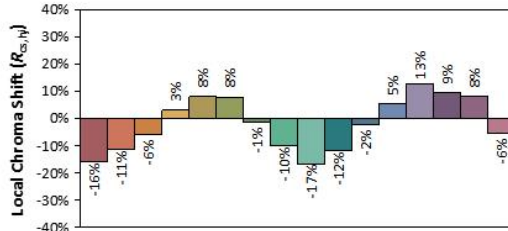
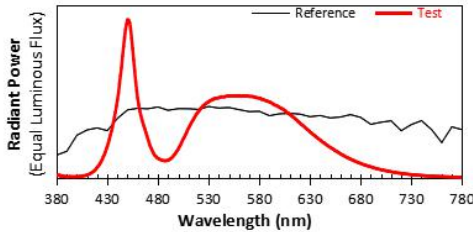
ANSI/IES TM-30-18 Color Rendition Report

Source: SL-IB3030YEA-21EAI

Manufacturer: ROYALUX EXPORTS

Date: 2020/8/31

Model: 602Y0060W57L70AY



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

x 0.3305
y 0.3429
u' 0.2049
v' 0.4782

CIE 13.3-1995 (CRI)
R_a 75
R_g -15

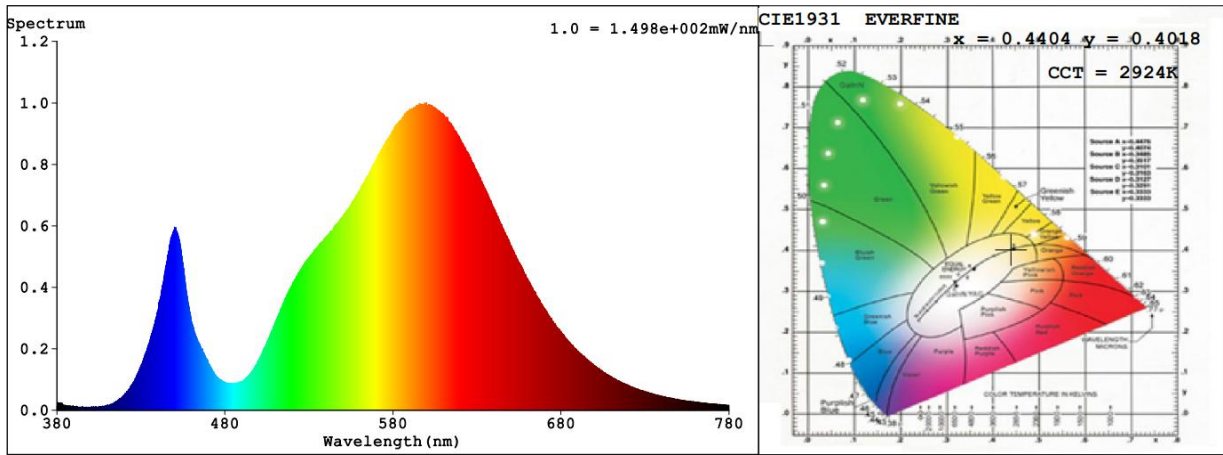
Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.



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5.3 Model # 602Y0060W30L70AY Relative Spectral Power Distribution



nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
380	0.0131	414	0.0241	448	0.5627	482	0.0867	516	0.36
381	0.0196	415	0.0274	449	0.5758	483	0.0878	517	0.373
382	0.0227	416	0.0317	450	0.5952	484	0.0881	518	0.3867
383	0.0233	417	0.0345	451	0.5842	485	0.0846	519	0.396
384	0.0147	418	0.0385	452	0.571	486	0.0879	520	0.4055
385	0.0142	419	0.0419	453	0.5499	487	0.0869	521	0.4181
386	0.0013	420	0.0497	454	0.5099	488	0.0908	522	0.4269
387	0.0072	421	0.0536	455	0.4731	489	0.0913	523	0.4374
388	0.0133	422	0.06	456	0.4288	490	0.0934	524	0.4455
389	0.0124	423	0.0685	457	0.3824	491	0.0947	525	0.4571
390	0.0102	424	0.0798	458	0.3501	492	0.0997	526	0.4644
391	0.0099	425	0.0843	459	0.3207	493	0.1061	527	0.4729
392	0.01	426	0.0945	460	0.2923	494	0.1106	528	0.4832
393	0.0081	427	0.1066	461	0.2717	495	0.1167	529	0.4903
394	0.0095	428	0.1188	462	0.2504	496	0.1259	530	0.4943
395	0.0117	429	0.1299	463	0.235	497	0.1334	531	0.502
396	0.0075	430	0.1429	464	0.2193	498	0.1425	532	0.5086
397	0.0105	431	0.1552	465	0.2147	499	0.1506	533	0.5177
398	0.0095	432	0.1714	466	0.199	500	0.1618	534	0.5221
399	0.0084	433	0.1865	467	0.1875	501	0.1728	535	0.5293
400	0.0091	434	0.2032	468	0.1776	502	0.1821	536	0.5335
401	0.0101	435	0.2198	469	0.1663	503	0.1958	537	0.5422
402	0.0112	436	0.241	470	0.1541	504	0.2079	538	0.5464
403	0.0099	437	0.2583	471	0.143	505	0.2195	539	0.5561
404	0.0079	438	0.28	472	0.1357	506	0.2338	540	0.5621
405	0.0113	439	0.3031	473	0.1251	507	0.2449	541	0.5668
406	0.0106	440	0.3192	474	0.1153	508	0.2592	542	0.5743
407	0.0107	441	0.3486	475	0.1083	509	0.273	543	0.5818
408	0.0122	442	0.3747	476	0.1041	510	0.2861	544	0.5852
409	0.0144	443	0.4053	477	0.0993	511	0.2992	545	0.5937
410	0.015	444	0.4392	478	0.0949	512	0.3123	546	0.6045
411	0.0156	445	0.4711	479	0.0929	513	0.3251	547	0.608
412	0.0193	446	0.5049	480	0.09	514	0.3352	548	0.6137
413	0.0216	447	0.537	481	0.0872	515	0.3503	549	0.6233



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nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
550	0.6265	599	0.9969	648	0.5595	697	0.1578	746	0.0382
551	0.6376	600	0.9959	649	0.5503	698	0.1529	747	0.0371
552	0.6413	601	0.9922	650	0.5356	699	0.1499	748	0.0355
553	0.652	602	0.9915	651	0.5255	700	0.1446	749	0.0362
554	0.6589	603	0.9902	652	0.5145	701	0.1413	750	0.0343
555	0.6669	604	0.9853	653	0.5042	702	0.1357	751	0.0332
556	0.6757	605	0.9816	654	0.4894	703	0.1329	752	0.0328
557	0.6857	606	0.9774	655	0.4823	704	0.1287	753	0.0315
558	0.6978	607	0.9744	656	0.4701	705	0.1243	754	0.0304
559	0.7039	608	0.9719	657	0.4635	706	0.1213	755	0.0294
560	0.7129	609	0.965	658	0.4489	707	0.1176	756	0.029
561	0.7238	610	0.9575	659	0.4415	708	0.1141	757	0.0278
562	0.7342	611	0.9523	660	0.4257	709	0.1105	758	0.0273
563	0.7411	612	0.9492	661	0.4191	710	0.1085	759	0.0269
564	0.7507	613	0.9389	662	0.4077	711	0.105	760	0.0261
565	0.7615	614	0.9346	663	0.3949	712	0.1021	761	0.0254
566	0.7712	615	0.9265	664	0.3858	713	0.0994	762	0.0249
567	0.7821	616	0.9193	665	0.3779	714	0.0945	763	0.0247
568	0.7961	617	0.9114	666	0.3667	715	0.0936	764	0.0242
569	0.8034	618	0.8982	667	0.3585	716	0.0907	765	0.0233
570	0.8129	619	0.8919	668	0.3486	717	0.0863	766	0.023
571	0.8212	620	0.8805	669	0.3398	718	0.086	767	0.0222
572	0.8352	621	0.8657	670	0.3331	719	0.0832	768	0.0215
573	0.8455	622	0.8617	671	0.3241	720	0.08	769	0.0212
574	0.8526	623	0.8536	672	0.3159	721	0.0787	770	0.0205
575	0.8631	624	0.8422	673	0.3043	722	0.0758	771	0.0203
576	0.8755	625	0.8322	674	0.2991	723	0.0738	772	0.0197
577	0.8832	626	0.8225	675	0.2898	724	0.0718	773	0.0191
578	0.8916	627	0.806	676	0.2814	725	0.0696	774	0.0185
579	0.9007	628	0.7983	677	0.274	726	0.0676	775	0.0182
580	0.9069	629	0.7862	678	0.268	727	0.0653	776	0.0179
581	0.9201	630	0.7756	679	0.2623	728	0.064	777	0.0177
582	0.9296	631	0.7671	680	0.2536	729	0.0621	778	0.0165
583	0.9343	632	0.753	681	0.2463	730	0.0605	779	0.016
584	0.9385	633	0.7426	682	0.2408	731	0.0588	780	0.0159
585	0.9408	634	0.7314	683	0.2327	732	0.0573		
586	0.955	635	0.7211	684	0.2277	733	0.0545		
587	0.963	636	0.7019	685	0.2211	734	0.0536		
588	0.9624	637	0.6923	686	0.2152	735	0.0524		
589	0.9717	638	0.6831	687	0.2101	736	0.0504		
590	0.9802	639	0.6697	688	0.2021	737	0.0485		
591	0.98	640	0.6572	689	0.1982	738	0.0467		
592	0.9776	641	0.6428	690	0.1916	739	0.0458		
593	0.9847	642	0.6316	691	0.1863	740	0.0437		
594	0.9907	643	0.6205	692	0.1828	741	0.044		
595	0.9895	644	0.6076	693	0.1765	742	0.0431		
596	0.9928	645	0.5962	694	0.1745	743	0.0415		
597	0.9905	646	0.5854	695	0.1665	744	0.0397		
598	0.9937	647	0.5735	696	0.1633	745	0.0397		



6. Goniophotometer Test results for model # 602Y0060W30L70AY

6.1 Test Data

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

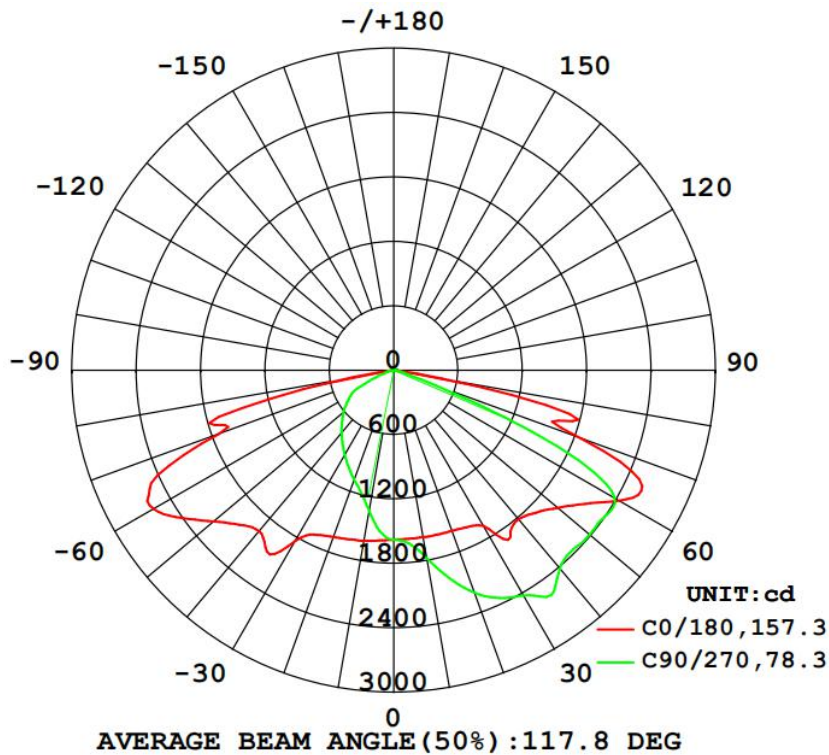
Electrical Measurement

Input Voltage (V)	Frequency (Hz)	Input Current(A)	Power Factor	Power(W)
120.1	60	0.4876	0.9939	58.21

Optical Measurement

Luminous Flux (lm)	Efficacy(lm/W)	BUG	ZL (0-90°)	ZL (80-90°)
7216.72	123.98	B2-U1-G2	99.9%	0.5%

6.2 Luminous Intensity Distribution





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6.3 Zonal Flux Diagram

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1580	1691	1778	1720	1614	1442	1332	1424	0- 10	150.1	150.1	2.08,2.08
20	1594	2011	2205	2046	1655	1245	1086	1219	10- 20	453.7	603.8	8.37,8.37
30	1677	2275	2423	2375	1837	1163	916.6	1093	20- 30	773.3	1377	19.1,19.1
40	1812	2447	2409	2528	1956	998.3	758.8	941.2	30- 40	1108	2485	34.4,34.4
50	1995	2417	2385	2526	2193	866.3	615.0	826.0	40- 50	1319	3805	52.7,52.7
60	2433	2444	2379	2464	2587	686.0	462.9	634.1	50- 60	1559	5364	74.3,74.3
70	1860	1227	417.3	1114	1742	232.1	124.0	231.8	60- 70	1388	6753	93.6,93.6
80	457.9	60.74	39.81	55.07	381.1	43.09	39.94	44.60	70- 80	423.0	7176	99.4,99.4
90	11.03	2.436	0.8982	0.6750	1.292	1.271	3.932	3.712	80- 90	33.39	7209	99.9,99.9
100	0.7239	0.3416	0.2173	0.3310	1.606	1.532	1.305	1.525	90-100	0.9738	7210	99.9,99.9
110	0.9160	0.4561	0.3261	0.4603	1.482	1.637	1.485	1.630	100-110	1.107	7211	99.9,99.9
120	1.247	0.5591	0.5194	0.6232	1.181	1.401	1.499	1.386	110-120	1.047	7212	99.9,99.9
130	1.594	0.7992	0.7801	0.8282	1.269	1.572	1.881	1.625	120-130	1.038	7213	99.9,99.9
140	1.721	1.015	1.030	0.9981	1.598	2.024	2.396	2.167	130-140	1.146	7214	100,100
150	1.301	1.005	1.189	1.014	1.744	2.131	2.571	2.332	140-150	1.042	7215	100,100
160	1.230	1.263	1.519	1.261	1.751	2.009	2.459	2.397	150-160	0.7897	7216	100,100
170	1.473	1.427	1.783	1.535	1.753	1.752	2.051	2.122	160-170	0.4911	7217	100,100
180	1.680	1.675	1.935	1.726	1.686	1.605	1.795	1.831	170-180	0.1672	7217	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	1581	1581	1581	1581	1581	1581	1581	1581	1581	1581	1581	1581	1581	1581	1581	1581			
5	1577	1588	1598	1610	1617	1619	1613	1606	1593	1575	1546	1520	1506	1514	1535	1560			
10	1580	1631	1691	1749	1778	1764	1720	1664	1614	1543	1442	1363	1332	1355	1424	1513			
15	1586	1705	1850	1957	2007	1975	1881	1735	1631	1503	1328	1217	1183	1211	1305	1457			
20	1594	1772	2011	2141	2205	2163	2046	1805	1655	1480	1245	1126	1086	1116	1219	1414			
25	1614	1828	2146	2267	2341	2304	2199	1874	1692	1497	1222	1058	998	1037	1170	1410			
30	1677	1886	2275	2363	2423	2431	2375	2003	1837	1650	1163	978	917	954	1093	1481			
35	1897	2105	2520	2557	2559	2585	2576	2207	2064	1610	1071	897	837	874	1011	1453			
40	1812	2005	2447	2429	2409	2492	2528	2145	1956	1527	998	819	759	801	941	1378			
45	1876	2043	2395	2400	2365	2455	2492	2224	2035	1527	930	753	684	738	882	1349			
50	1995	2165	2417	2449	2385	2489	2526	2375	2193	1529	866	685	615	670	826	1327			
55	2172	2313	2452	2457	2391	2500	2554	2507	2406	1532	799	600	534	589	749	1309			
60	2433	2409	2444	2439	2379	2455	2464	2495	2587	1547	686	506	463	499	634	1309			
65	2558	2231	2106	1966	1686	1909	2049	2117	2494	1447	488	337	303	345	464	1230			
70	1860	1509	1227	631	417	586	1114	1417	1742	833	232	148	124	147	232	751			
75	1784	745	206	106	95.3	99.5	179	616	1689	264	88.3	72.5	61.2	71.9	88.7	231			
80	458	85.8	60.7	47.1	39.8	45.1	55.1	82.2	381	72.4	43.1	45.0	39.9	44.9	44.6	76.5			
85	41.6	33.6	30.2	18.3	14.8	17.5	24.0	27.4	25.1	25.6	19.6	20.4	19.3	20.7	21.1	32.0			
90	11.0	5.51	2.44	1.21	0.90	0.92	0.67	0.60	1.29	1.40	1.27	2.82	3.93	4.44	3.71	3.39			
95	0.59	0.58	0.26	0.18	0.17	0.15	0.25	0.36	1.40	1.40	1.17	1.00	0.91	0.99	1.14	1.36			
100	0.72	0.67	0.34	0.23	0.22	0.20	0.33	0.46	1.61	1.69	1.53	1.39	1.31	1.39	1.53	1.69			
105	0.82	0.75	0.41	0.27	0.27	0.25	0.39	0.57	1.63	1.79	1.69	1.60	1.55	1.59	1.70	1.83			
110	0.92	0.83	0.46	0.31	0.33	0.30	0.46	0.71	1.48	1.67	1.64	1.51	1.48	1.53	1.63	1.76			
115	1.11	0.92	0.51	0.38	0.41	0.38	0.53	0.83	1.32	1.51	1.50	1.43	1.45	1.43	1.49	1.62			
120	1.25	1.01	0.56	0.47	0.52	0.48	0.62	0.94	1.18	1.38	1.40	1.42	1.50	1.41	1.39	1.45			
125	1.39	1.10	0.68	0.59	0.64	0.59	0.73	1.13	1.15	1.36	1.43	1.52	1.63	1.54	1.46	1.45			
130	1.59	1.23	0.80	0.72	0.78	0.73	0.83	1.34	1.27	1.49	1.57	1.75	1.88	1.77	1.63	1.58			
135	1.79	1.35	0.93	0.84	0.92	0.85	0.91	1.42	1.49	1.65	1.82	1.99	2.17	2.05	1.92	1.84			
140	1.72	1.39	1.02	0.92	1.03	0.94	1.00	1.37	1.60	1.78	2.02	2.18	2.40	2.28	2.17	2.03			
145	1.57	1.32	1.02	0.98	1.11	1.02	1.00	1.27	1.72	1.89	2.12	2.26	2.51	2.44	2.28	2.18			
150	1.30	1.14	1.01	1.04	1.19	1.10	1.01	1.13	1.74	1.92	2.13	2.34	2.57	2.54	2.33	2.21			
155	1.22	1.13	1.11	1.19	1.35	1.25	1.11	1.16	1.77	1.89	2.10	2.37	2.55	2.53	2.38	2.23			
160	1.23	1.21	1.26	1.32	1.52	1.36	1.26	1.23	1.75	1.82	2.01	2.25	2.46	2.57	2.40	2.23			
165	1.34	1.32	1.36	1.43	1.63	1.50	1.39	1.28	1.76	1.76	1.85	2.03	2.23	2.41	2.20	2.13			
170	1.47	1.39	1.43	1.56	1.78	1.62	1.54	1.38	1.75	1.75	1.75	1.85	2.05	2.28	2.12	2.06			
175	1.57	1.55	1.58	1.73	1.93	1.80	1.72	1.57	1.69	1.69	1.72	1.82	1.97	2.22	2.05	1.94			
180	1.68	1.61	1.68	1.81	1.94	1.82	1.73	1.65	1.69	1.69	1.61	1.67	1.80	1.94	1.83	1.73			

7. THD and PF Test for model # 602Y0060W30L70AY

Voltage (V AC)	Frequency (Hz)	Power Factor	THD (%)
100.0	60	0.9967	5.36
120.0	60	0.9939	6.85
277.0	60	0.9122	18.39



8.Photo of sample



Figure 1



Figure 2

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