



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..... : 304Y0300W30LY,304Y0300W50LY

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..... : CA2005479L 02011R2

Test Date..... : June.30,2020-July.08,2020

Report Date..... : Sep.10,2020

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 304Y0300W30LY,304Y0300W50LY. Sample 304Y0300W30LY was numbered CA2005479L 02011-S01. Sample 304Y0300W50LY was numbered CA2005479L 02011-S02. The sample was received on 2020-06-29, is undamaged condition.

Model Tested:	304Y0300W30LY,304Y0300W50LY
Manufacturer:	Same as client
Address:	Same as client
Product Type:	High Bay Luminaires for Commercial and Industrial Buildings
Rated Voltage/Frequency:	100-277V AC,50/60Hz
Rated Power:	300W
Nominal CCT:	3000K,5000K
LED Manufacturer:	Edison Opto Corporation
LED Model No:	2T03X8WW23000001
LED Driver Manufacturer:	MEANWELL
LED Driver Model:	XLG-150-H-AB*2

Model Similarity:

Model designation: XXXDyyyyWCVY

"X" can be 3, denotes Product Series Name, 3=Linear high bay series;

"XX" can be 02 or 04, which denotes luminaires shell Shape and Overall dimension, where 02= 2FT or 04= 4FT;

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

"yyyy" & "W" denotes the wattage of luminaires, can be from 0075 to 0400; max. 400W, for example 0075W=75W;

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

"V" can be letter L or blank, which denotes range of input voltage; where L=Low voltage range or blank = No description of this item;

"Y" can be blank or Four arbitrary number, letter, 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).



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

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

Model # 304Y0300W30LY 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	2.265	270.2	0.9942	35422	131.10	2949

Ra	R9	Rf	Rg	x	y	u'	v'	Duv
84.1	12	86	96	0.4382	0.4004	0.2530	0.5201	-0.00213

Model # 304Y0300W50LY 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	2.314	276.4	0.9954	37437	135.43	5061

Ra	R9	Rf	Rg	x	y	u'	v'	Duv
83.0	2	83	93	0.3439	0.3566	0.2087	0.4869	0.00301

5.2 Model # 304Y0300W30LY Color Rendering Index

Ra
84.1

R1 83	R2 93	R3 95	R4 82	R5 84
R6 92	R7 82	R8 60	R9 12	R10 85
R11 83	R12 78	R13 86	R14 98	R15 76



5.3 Model # 304Y0300W30LY ANSI/IES TM-30-18 Color Rendition Report

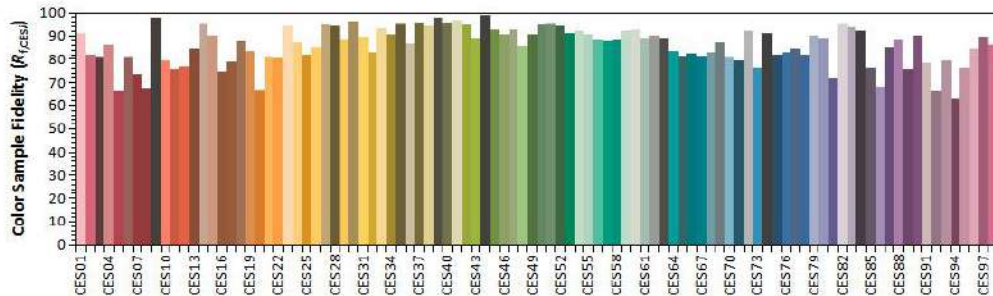
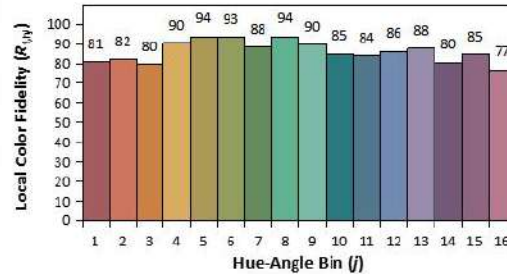
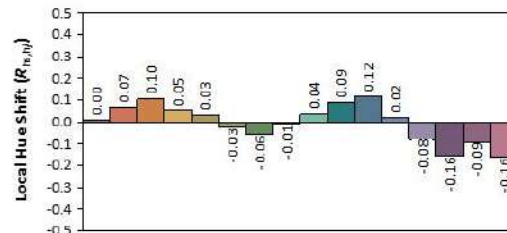
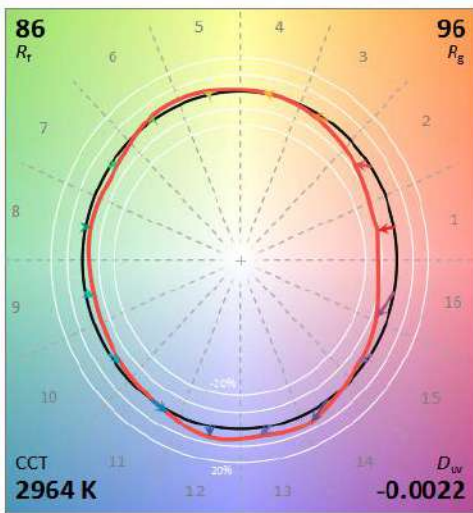
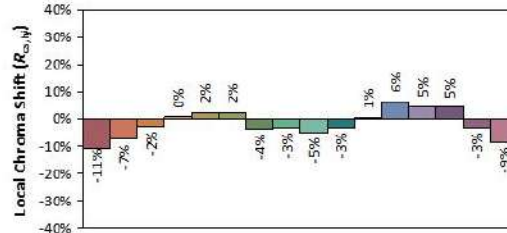
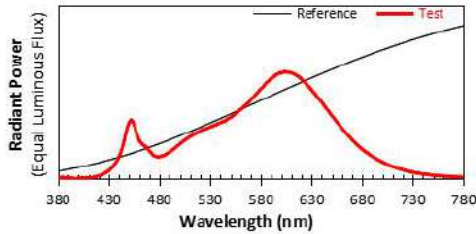
ANSI/IES TM-30-18 Color Rendition Report

Source: 2T03X8WW23000001

Manufacturer: ROYALUX EXPORTS

Date: 2020/9/2

Model: 304Y0300W30LY



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

x 0.4363, y 0.3984, u' 0.2526, v' 0.5191

CIE 13.3-1996 (CRI) Ra 84, Rg 12

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



5.4 Model # 304Y0300W50LY ANSI/IES TM-30-18 Color Rendition Report

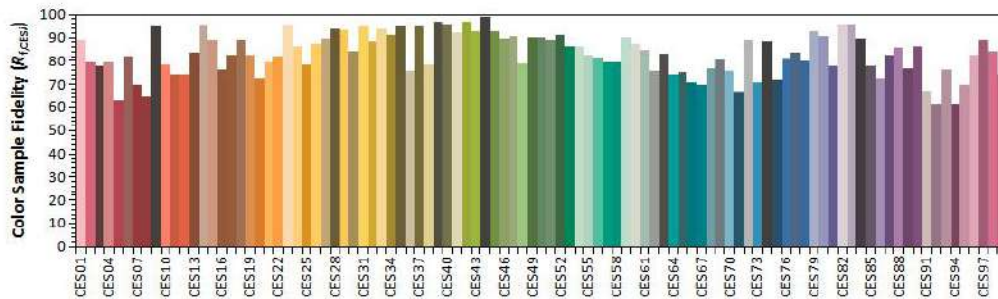
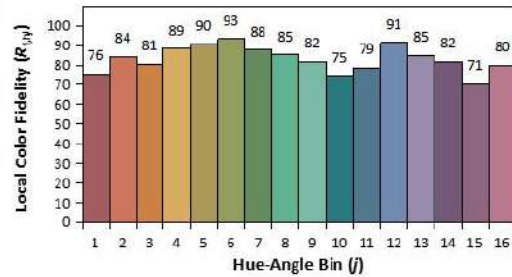
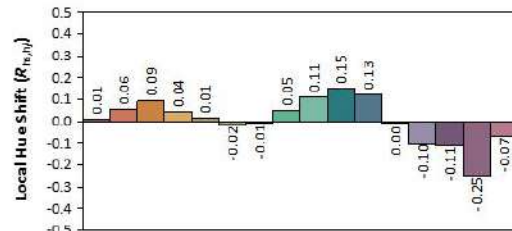
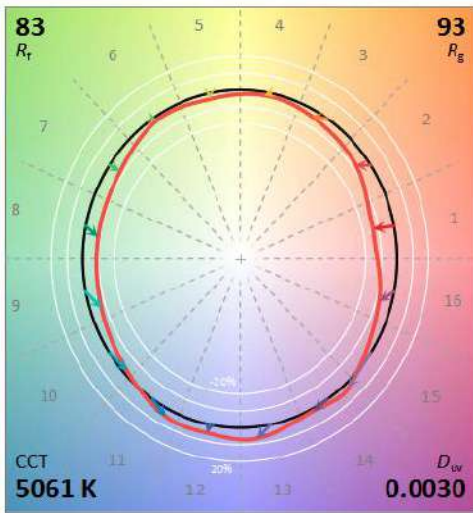
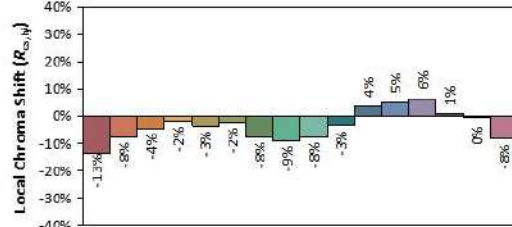
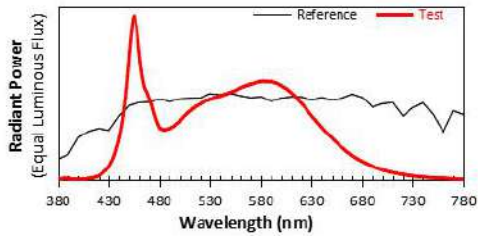
ANSI/IES TM-30-18 Color Rendition Report

Source: 2T03X8WW23000001

Manufacturer: ROYALUX EXPORTS

Date: 2020/9/2

Model: 304Y0300W50LY



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

x 0.3439, y 0.3566, u' 0.2087, v' 0.4869

Table with CIE 13.3-1996 (CRI) and Ra 83, Rg 2.

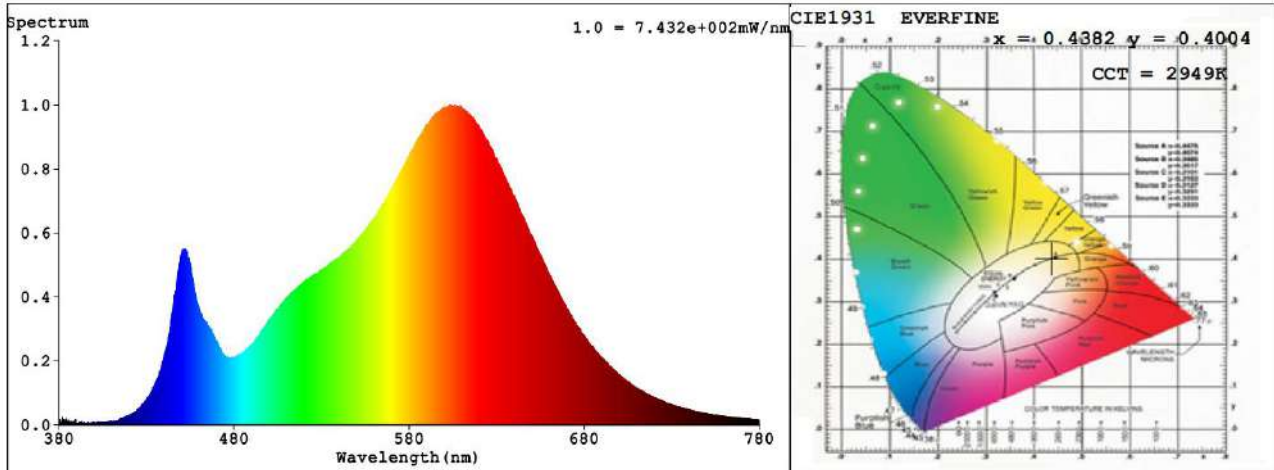
Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.



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5.5 Model # 304Y0300W30LY Relative Spectral Power Distribution



nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
380	0.0048	414	0.015	448	0.4763	482	0.2168	516	0.4284
381	0.0041	415	0.0178	449	0.5034	483	0.2162	517	0.4343
382	0.0156	416	0.0172	450	0.5278	484	0.2197	518	0.4378
383	0.0043	417	0.0217	451	0.5432	485	0.2255	519	0.4422
384	0.018	418	0.0239	452	0.5504	486	0.2281	520	0.4462
385	0.0083	419	0.0283	453	0.5401	487	0.2371	521	0.455
386	0.0079	420	0.0295	454	0.5238	488	0.2399	522	0.453
387	0.0083	421	0.0292	455	0.4991	489	0.2435	523	0.4597
388	0.0097	422	0.0334	456	0.4642	490	0.248	524	0.4634
389	0.0139	423	0.0368	457	0.4355	491	0.2571	525	0.4657
390	0.0021	424	0.0405	458	0.4053	492	0.2661	526	0.4678
391	0.005	425	0.049	459	0.3845	493	0.274	527	0.4727
392	0.0082	426	0.0544	460	0.3587	494	0.2783	528	0.4745
393	0.0056	427	0.0564	461	0.3473	495	0.2866	529	0.4799
394	0.0058	428	0.0668	462	0.3324	496	0.2944	530	0.4844
395	0.0064	429	0.0723	463	0.326	497	0.3051	531	0.4896
396	0.002	430	0.0782	464	0.316	498	0.3121	532	0.4887
397	0.0006	431	0.0868	465	0.3116	499	0.3168	533	0.4957
398	0.0015	432	0.0964	466	0.3002	500	0.3272	534	0.5006
399	0.005	433	0.1078	467	0.2983	501	0.3351	535	0.5026
400	0.0063	434	0.1157	468	0.284	502	0.3407	536	0.5054
401	0.003	435	0.1309	469	0.2741	503	0.3488	537	0.5148
402	0.0095	436	0.142	470	0.2586	504	0.3584	538	0.5169
403	0.0054	437	0.1543	471	0.2498	505	0.3632	539	0.5203
404	0.0092	438	0.1704	472	0.2422	506	0.3702	540	0.5228
405	0.0055	439	0.1888	473	0.2279	507	0.3764	541	0.5266
406	0.0074	440	0.2124	474	0.2193	508	0.3836	542	0.5337
407	0.0083	441	0.2319	475	0.2146	509	0.39	543	0.5336
408	0.0117	442	0.2563	476	0.2126	510	0.3968	544	0.539
409	0.0091	443	0.2863	477	0.2075	511	0.3997	545	0.5418
410	0.0109	444	0.3215	478	0.2055	512	0.4063	546	0.5513
411	0.0119	445	0.358	479	0.2095	513	0.4167	547	0.5603
412	0.0111	446	0.4034	480	0.2087	514	0.4155	548	0.5639
413	0.0135	447	0.4399	481	0.2108	515	0.4216	549	0.5669



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nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
550	0.572	599	0.9863	648	0.6147	697	0.1728	746	0.0392
551	0.5807	600	0.9917	649	0.6022	698	0.167	747	0.0382
552	0.5865	601	0.9891	650	0.5898	699	0.1633	748	0.0373
553	0.5933	602	0.9949	651	0.5786	700	0.1576	749	0.0354
554	0.6018	603	0.9997	652	0.5665	701	0.1532	750	0.0355
555	0.609	604	0.9996	653	0.5535	702	0.148	751	0.0337
556	0.6176	605	0.9945	654	0.5417	703	0.1433	752	0.0327
557	0.6201	606	0.9939	655	0.532	704	0.1406	753	0.0318
558	0.6316	607	0.9913	656	0.519	705	0.1346	754	0.0318
559	0.6384	608	0.9935	657	0.5069	706	0.1315	755	0.0309
560	0.6476	609	0.992	658	0.4972	707	0.1277	756	0.0284
561	0.6532	610	0.99	659	0.4844	708	0.1224	757	0.0287
562	0.6628	611	0.9864	660	0.4741	709	0.1194	758	0.0277
563	0.672	612	0.981	661	0.462	710	0.1158	759	0.0277
564	0.6811	613	0.9765	662	0.4497	711	0.1121	760	0.026
565	0.6875	614	0.9712	663	0.4412	712	0.1095	761	0.0265
566	0.6983	615	0.9682	664	0.4275	713	0.1074	762	0.0255
567	0.7047	616	0.9582	665	0.4182	714	0.1028	763	0.0244
568	0.7151	617	0.9562	666	0.4056	715	0.0994	764	0.0239
569	0.7246	618	0.9435	667	0.3972	716	0.0958	765	0.0236
570	0.74	619	0.9402	668	0.3874	717	0.095	766	0.023
571	0.7459	620	0.9303	669	0.3767	718	0.0914	767	0.0222
572	0.7607	621	0.9205	670	0.3644	719	0.0899	768	0.0215
573	0.7634	622	0.9144	671	0.3555	720	0.0847	769	0.0209
574	0.7781	623	0.9025	672	0.3463	721	0.0838	770	0.0206
575	0.7876	624	0.8949	673	0.3396	722	0.0795	771	0.0199
576	0.7986	625	0.8842	674	0.3273	723	0.0779	772	0.0183
577	0.809	626	0.8709	675	0.3194	724	0.0756	773	0.0184
578	0.821	627	0.8635	676	0.3098	725	0.0728	774	0.0172
579	0.8322	628	0.8551	677	0.3006	726	0.0714	775	0.0185
580	0.8409	629	0.8393	678	0.2959	727	0.0694	776	0.0169
581	0.8504	630	0.8333	679	0.2864	728	0.067	777	0.0169
582	0.8575	631	0.8164	680	0.2776	729	0.0654	778	0.0166
583	0.8685	632	0.8081	681	0.269	730	0.0634	779	0.0158
584	0.8817	633	0.7987	682	0.262	731	0.0605	780	0.0154
585	0.8928	634	0.7871	683	0.2549	732	0.0594		
586	0.9027	635	0.7681	684	0.2482	733	0.0573		
587	0.909	636	0.7605	685	0.2432	734	0.0559		
588	0.9157	637	0.7491	686	0.2348	735	0.0546		
589	0.9292	638	0.7402	687	0.2286	736	0.0536		
590	0.9362	639	0.7249	688	0.2221	737	0.0515		
591	0.9394	640	0.7149	689	0.2174	738	0.0498		
592	0.9476	641	0.7041	690	0.2099	739	0.0483		
593	0.9596	642	0.6886	691	0.205	740	0.0462		
594	0.9591	643	0.6767	692	0.199	741	0.0453		
595	0.9708	644	0.663	693	0.1947	742	0.0448		
596	0.9765	645	0.6505	694	0.1876	743	0.0435		
597	0.9788	646	0.6406	695	0.1819	744	0.0411		
598	0.9853	647	0.6277	696	0.1764	745	0.0406		



6. Goniophotometer Test results for model # 304Y0300W30LY

6.1 Test Data

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

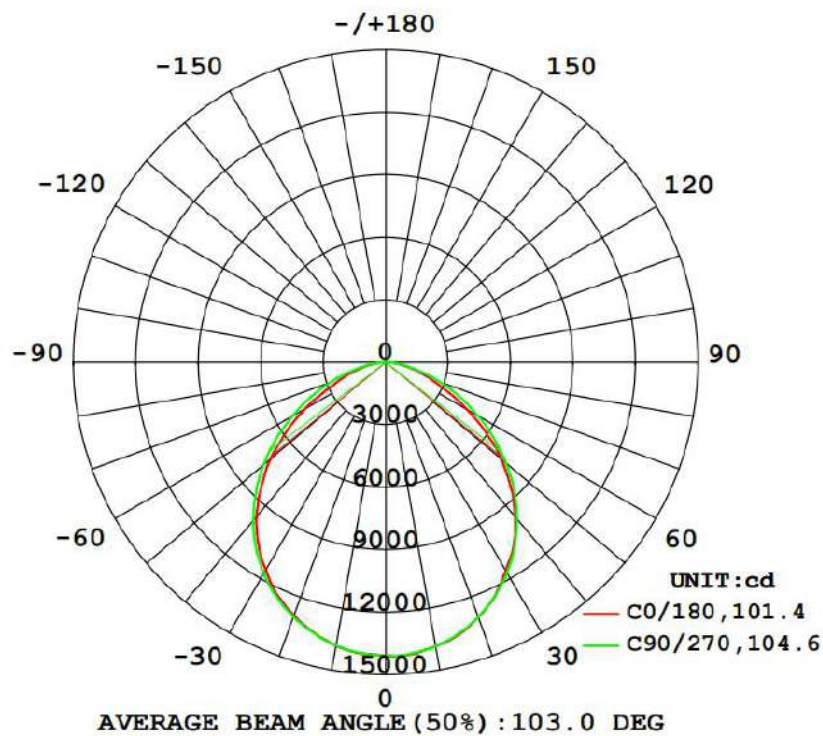
Electrical Measurement

Input Voltage (V)	Frequency (Hz)	Input Current(A)	Power Factor	Power(W)
120.0	60	2.2645	0.9938	270.1

Optical Measurement

Luminous Flux (lm)	Efficacy(lm/W)	ZL (20-50°)	Spacing Criteria (C0/180°)	Spacing Criteria (C90/270°)
35373.5	130.98	53.9%	1.22	1.24

6.2 Luminous Intensity Distribution





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6.3 Zonal Flux Diagram

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	⊙ zone	⊙ total	ℓlum, lamp
10	1385	1387	1385	1385	1382	1387	1380	1375	0- 10	1333	1333	3.77,3.77
20	1302	1304	1302	1302	1294	1306	1300	1291	10- 20	3804	5136	14.5,14.5
30	1156	1170	1166	1167	1153	1169	1172	1161	20- 30	5708	10844	30.7,30.7
40	965.0	975.9	982.2	973.8	965.2	976.7	989.9	971.4	30- 40	6722	17566	49.7,49.7
50	724.2	738.0	755.8	737.5	723.0	744.6	765.7	738.8	40- 50	6645	24211	68.4,68.4
60	448.7	487.9	510.3	487.1	445.8	491.6	519.4	488.8	50- 60	5475	29686	83.9,83.9
70	223.6	247.7	280.3	243.8	220.7	245.1	287.1	243.7	60- 70	3571	33257	94,94
80	82.56	83.59	90.31	81.32	80.58	82.66	93.78	84.36	70- 80	1705	34963	98.8,98.8
90	0.1181	0.1265	0.1449	0.1104	0.0473	0.0557	0.0552	0.0393	80- 90	352.2	35315	99.8,99.8
100	0.1019	0.1260	0.3300	0.1333	0.1655	0.2368	0.3463	0.1884	90-100	1.382	35316	99.8,99.8
110	0.2737	0.3861	0.5962	0.3523	0.4161	0.5285	0.4958	0.4011	100-110	3.007	35319	99.8,99.8
120	0.5401	0.7878	0.9975	0.7534	0.6905	0.9387	0.8814	0.8401	110-120	6.176	35326	99.9,99.9
130	0.9720	1.276	1.322	1.145	1.161	1.372	0.9995	1.067	120-130	9.190	35335	99.9,99.9
140	1.106	1.434	1.283	1.514	1.263	1.884	1.070	1.334	130-140	10.03	35345	99.9,99.9
150	1.050	1.812	1.266	1.883	1.592	2.271	1.433	1.711	140-150	9.649	35354	99.9,99.9
160	1.637	2.236	1.770	2.485	2.016	2.412	1.896	2.175	150-160	8.719	35363	100,100
170	2.673	3.451	2.022	3.500	3.105	3.281	2.914	3.227	160-170	7.300	35370	100,100
180	3.615	4.115	2.385	3.798	3.646	3.641	3.393	3.634	170-180	3.105	35374	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		



6.4 UGR(Unified Glare Rating) Table

ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions	Viewed crosswise					Viewed endwise					
x = 2H y = 2H	24.9	26.4	25.2	26.6	26.8	25.3	26.8	25.6	27.0	27.2	
3H	25.8	27.1	26.1	27.4	27.6	26.5	27.8	26.8	28.1	28.3	
4H	26.1	27.4	26.4	27.6	27.9	26.9	28.2	27.2	28.4	28.7	
6H	26.3	27.5	26.7	27.8	28.1	27.1	28.3	27.4	28.6	28.8	
8H	26.4	27.5	26.7	27.8	28.1	27.1	28.3	27.5	28.6	28.9	
12H	26.4	27.5	26.7	27.8	28.1	27.1	28.2	27.5	28.5	28.8	
4H	2H	25.4	26.7	25.7	27.0	27.2	25.8	27.0	26.1	27.3	27.5
3H	26.5	27.6	26.8	27.9	28.2	27.1	28.2	27.4	28.5	28.8	
4H	26.9	27.9	27.3	28.2	28.5	27.6	28.6	28.0	28.9	29.2	
6H	27.2	28.1	27.6	28.4	28.8	27.9	28.8	28.3	29.1	29.5	
8H	27.3	28.1	27.7	28.5	28.8	27.9	28.8	28.4	29.1	29.5	
12H	27.3	28.1	27.7	28.4	28.9	27.9	28.7	28.4	29.1	29.5	
8H	4H	27.0	27.9	27.5	28.2	28.6	27.7	28.5	28.1	28.9	29.3
6H	27.4	28.1	27.9	28.5	29.0	28.1	28.8	28.5	29.2	29.6	
8H	27.6	28.2	28.0	28.6	29.1	28.2	28.8	28.6	29.2	29.7	
12H	27.7	28.2	28.2	28.6	29.1	28.2	28.7	28.7	29.2	29.7	
12H	4H	27.0	27.8	27.5	28.2	28.6	27.7	28.4	28.1	28.8	29.2
6H	27.5	28.1	27.9	28.5	28.9	28.1	28.7	28.5	29.1	29.6	
8H	27.6	28.1	28.1	28.6	29.1	28.2	28.7	28.7	29.2	29.6	
Variations with the observer position at spacings:											
S = 1.0H	+ 0.3 / - 0.3					+ 0.2 / - 0.3					
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.4					
2.0H	+ 0.5 / - 0.5					+ 0.4 / - 0.4					

CIE Pub.117, 35374 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 12.4)



6.5 Luminous Distribution Intensity Data

Table--1 UNIT: ×10cd

C (DEG) y (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	1409	1409	1409	1409	1409	1409	1409	1409	1409	1409	1409	1409	1409	1409	1409	1409			
5	1406	1406	1405	1403	1404	1404	1402	1404	1403	1401	1404	1403	1401	1400	1399	1401			
10	1385	1385	1387	1385	1385	1381	1385	1386	1382	1384	1387	1383	1380	1380	1375	1378			
15	1354	1349	1353	1349	1349	1347	1352	1352	1342	1350	1356	1351	1345	1346	1340	1343			
20	1302	1306	1304	1303	1302	1301	1302	1301	1294	1302	1306	1304	1300	1298	1291	1298			
25	1240	1244	1245	1238	1239	1240	1243	1240	1234	1238	1246	1245	1243	1239	1233	1235			
30	1156	1162	1170	1162	1166	1166	1167	1160	1153	1163	1169	1173	1172	1167	1161	1155			
35	1072	1074	1080	1076	1080	1079	1076	1070	1067	1072	1080	1085	1088	1083	1072	1069			
40	965	971	976	978	982	982	974	965	965	968	977	987	990	989	971	963			
45	851	856	864	869	874	870	859	853	846	856	865	876	882	881	861	849			
50	724	731	738	750	756	750	738	727	723	729	745	757	766	760	739	726			
55	588	599	614	623	633	625	612	592	584	599	618	632	644	631	614	595			
60	449	461	488	504	510	502	487	456	446	460	492	507	519	513	489	458			
65	317	330	365	384	391	384	361	326	311	328	365	389	399	389	364	327			
70	224	228	248	275	280	273	244	224	221	226	245	278	287	278	244	226			
75	147	149	155	172	178	171	152	146	145	148	154	174	184	174	155	149			
80	82.6	82.9	83.6	84.6	90.3	83.7	81.3	80.6	80.6	81.3	82.7	85.3	93.8	86.1	84.4	83.2			
85	32.0	31.1	28.3	26.2	25.3	25.7	27.0	28.7	30.4	29.4	27.7	26.4	27.0	27.3	29.2	31.6			
90	0.12	0.11	0.13	0.15	0.14	0.14	0.11	0.11	0.05	0.06	0.06	0.06	0.06	0.04	0.04	0.04			
95	0.09	0.09	0.11	0.13	0.21	0.13	0.11	0.10	0.09	0.09	0.14	0.16	0.20	0.13	0.09	0.09			
100	0.10	0.11	0.13	0.14	0.33	0.16	0.13	0.13	0.17	0.20	0.24	0.26	0.35	0.20	0.19	0.17			
105	0.16	0.21	0.25	0.24	0.39	0.26	0.25	0.23	0.27	0.31	0.37	0.37	0.38	0.29	0.29	0.26			
110	0.27	0.29	0.39	0.48	0.60	0.40	0.35	0.28	0.42	0.43	0.53	0.48	0.50	0.42	0.40	0.39			
115	0.38	0.47	0.55	0.79	0.87	0.86	0.49	0.45	0.58	0.62	0.71	0.82	0.80	0.65	0.59	0.53			
120	0.54	0.64	0.79	1.02	1.00	1.12	0.75	0.62	0.69	0.80	0.94	1.24	0.88	0.87	0.84	0.71			
125	0.76	0.79	1.02	1.26	1.29	1.41	0.86	0.78	0.90	0.98	1.10	1.50	0.93	1.09	0.97	0.89			
130	0.97	0.99	1.28	1.38	1.32	1.52	1.14	0.88	1.16	1.11	1.37	1.54	1.00	1.10	1.07	1.04			
135	1.13	1.11	1.43	1.43	1.27	1.64	1.44	0.92	1.25	1.27	1.66	1.70	0.97	1.22	1.18	1.22			
140	1.11	1.16	1.43	1.63	1.28	1.68	1.51	0.99	1.26	1.45	1.88	1.86	1.07	1.53	1.33	1.26			
145	0.99	1.28	1.59	1.76	1.14	1.82	1.62	1.12	1.54	1.57	2.06	2.21	1.14	1.90	1.41	1.32			
150	1.05	1.43	1.81	1.79	1.27	1.86	1.88	1.13	1.59	1.69	2.27	2.51	1.43	2.74	1.71	1.51			
155	1.25	1.63	1.91	1.83	1.38	1.93	2.06	1.28	1.80	1.87	2.40	2.85	1.75	2.24	1.98	1.89			
160	1.64	2.00	2.24	2.23	1.77	2.26	2.48	1.70	2.02	2.11	2.41	2.92	1.90	1.91	2.17	2.06			
165	2.35	2.80	2.92	2.81	1.79	3.17	3.13	2.40	2.78	2.82	2.88	3.34	2.30	2.04	2.80	2.59			
170	2.67	3.11	3.45	3.18	2.02	3.54	3.50	2.76	3.11	3.12	3.28	3.87	2.91	2.26	3.23	3.22			
175	3.20	3.38	3.80	3.31	2.18	3.58	3.64	3.02	3.47	3.47	3.63	4.06	3.27	2.30	3.57	3.64			
180	3.61	3.66	4.11	3.39	2.38	3.64	3.80	3.72	3.65	3.63	3.64	4.09	3.39	2.38	3.63	3.79			

7. THD and PF Test for model # 304Y0300W30LY

Voltage (V AC)	Frequency (Hz)	Power Factor	THD (%)
100.0	60	0.9952	4.45
120.0	60	0.9938	4.21
277.0	60	0.9346	6.01



8.Photo of sample



Figure 1



Figure 2



Guangdong Meide Testing Technology Co., Ltd.



Report Revision

Original report number CA2005479L 02011R1 dated at 2020-09-02 was recalled and declared as invalid by Guangdong Meide Testing Technology Co.,Ltd.Report number CA2005479L 02011R2 was issued on to replace report number CA2005479L 02011R1.

Report Number	Report Date	Contents
CA2005479L 02011	2020-07-09	Original report
CA2005479L 02011R1	2020-09-02	Add ANSI/IES TM-30-18 Color Rendition Report of model 304Y0300W50LY.
CA2005479L 02011R2	2020-09-10	Modify model 304Y0300W50LY x,y coordinates.

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