



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**..... : 304Y0200W30LY,304Y0200W50LY

**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 02007R2

**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.



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## 1. Product Description for Equipment under Test(EUT)

The client submitted 2 sample of model 304Y0200W30LY,304Y0200W50LY. Sample 304Y0200W30LY was numbered CA2005479L 02007-S01. Sample 304Y0200W50LY was numbered CA2005479L 02007-S02. The sample was received on 2020-06-29, is undamaged condition.

Model Tested:	304Y0200W30LY,304Y0200W50LY
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:	200W
Nominal CCT:	3000K,5000K
LED Manufacturer:	Edison Opto Corporation
LED Model No:	2T03X8WW23000001
LED Driver Manufacturer:	MENAWELL
LED Driver Model:	XLG-200-H-AB

### 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).



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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  $1^{\circ}$  vertical intervals and  $22.5^{\circ}$  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  $4\pi$  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°C	Test orientation	Downward
Operate time(Min.)	100	stabilization time(Min.)	90

#### Model # 304Y0200W30LY 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	1.678	201.2	0.9991	27306	135.72	2963

Ra	R9	Rf	Rg	x	y	u'	v'	Duv
84.2	13	86	97	0.4366	0.3989	0.2526	0.5193	-0.00204

#### Model # 304Y0200W50LY 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	1.665	199.6	0.9989	28144	140.97	5099

Ra	R9	Rf	Rg	x	y	u'	v'	Duv
83.6	4	83	92	0.3428	0.3551	0.2085	0.4860	0.00272

### 5.2 Model # 304Y0200W30LY Color Rendering Index

**Ra**  
84.2

R1 84	R2 93	R3 95	R4 83	R5 84
R6 92	R7 82	R8 60	R9 13	R10 85
R11 83	R12 78	R13 86	R14 98	R15 76





5.3 Model # 304Y0200W30LY ANSI/IES TM-30-18 Color Rendition Report

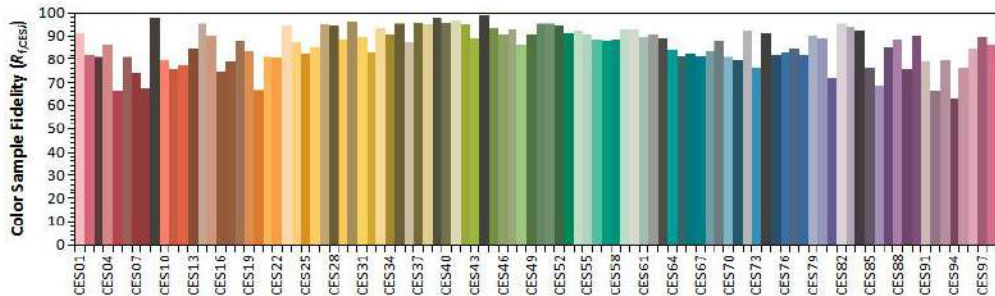
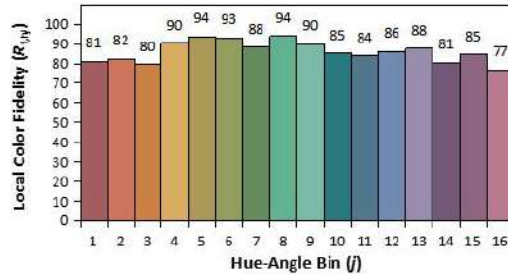
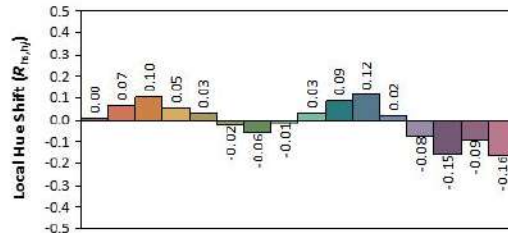
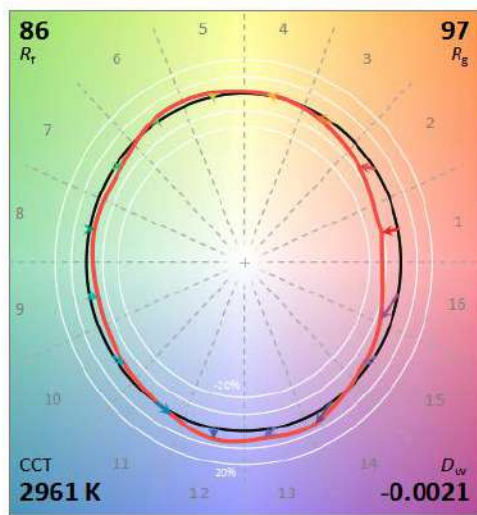
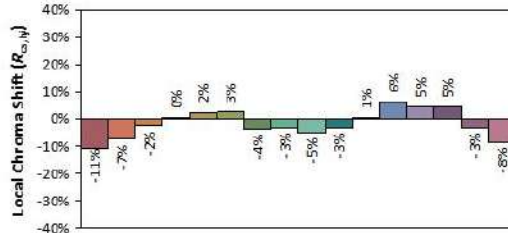
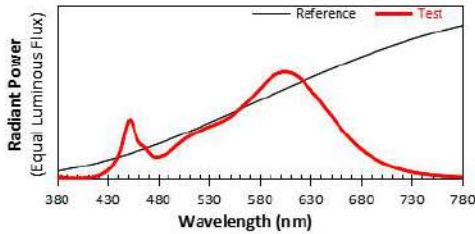
ANSI/IES TM-30-18 Color Rendition Report

Source: 2T03X8WW23000001

Manufacturer: ROYALUX EXPORTS

Date: 2020/9/2

Model: 304Y0200W30LY



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

x 0.4366
y 0.3988
u' 0.2527
v' 0.5192

Table with CIE 13.3-1995 (CRI) and Ra, Rg values.

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



5.4 Model # 304Y0200W50LY ANSI/IES TM-30-18 Color Rendition Report

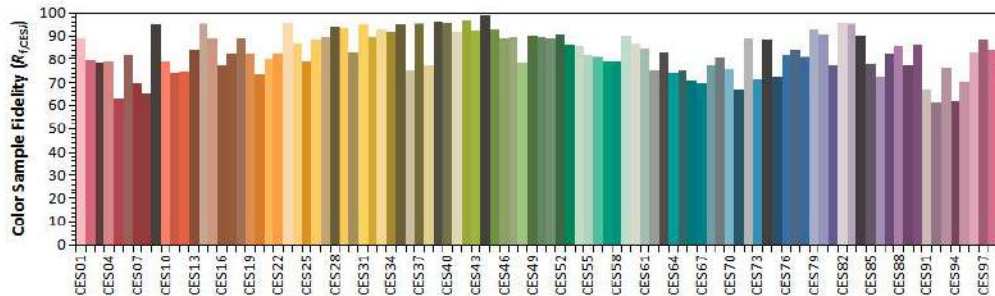
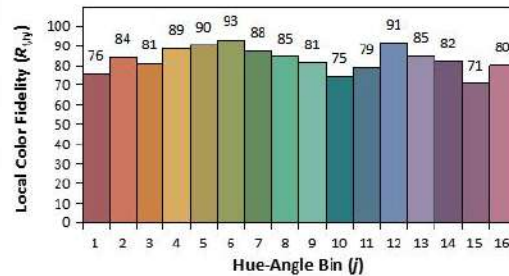
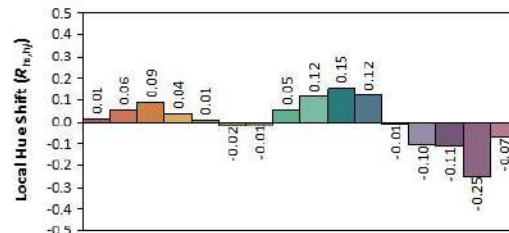
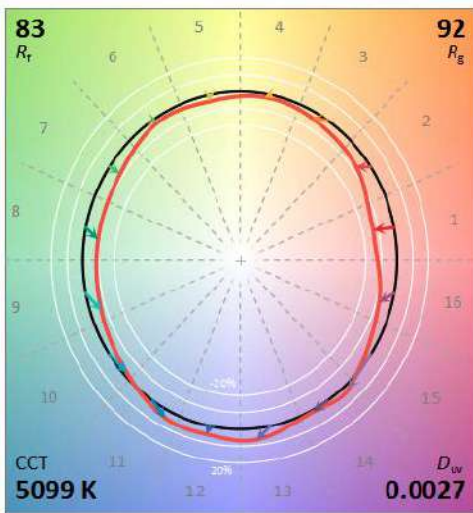
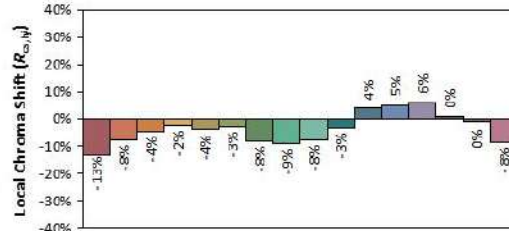
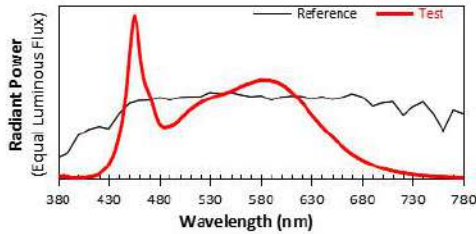
ANSI/IES TM-30-18 Color Rendition Report

Source: 2T03X8WW23000001

Manufacturer: ROYALUX EXPORTS

Date: 2020/9/2

Model: 304Y0200W50LY



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

x 0.3428, y 0.3551, u' 0.2085, v' 0.4860

CIE 13.3-1996 (CRI) Ra 83, Rg 4

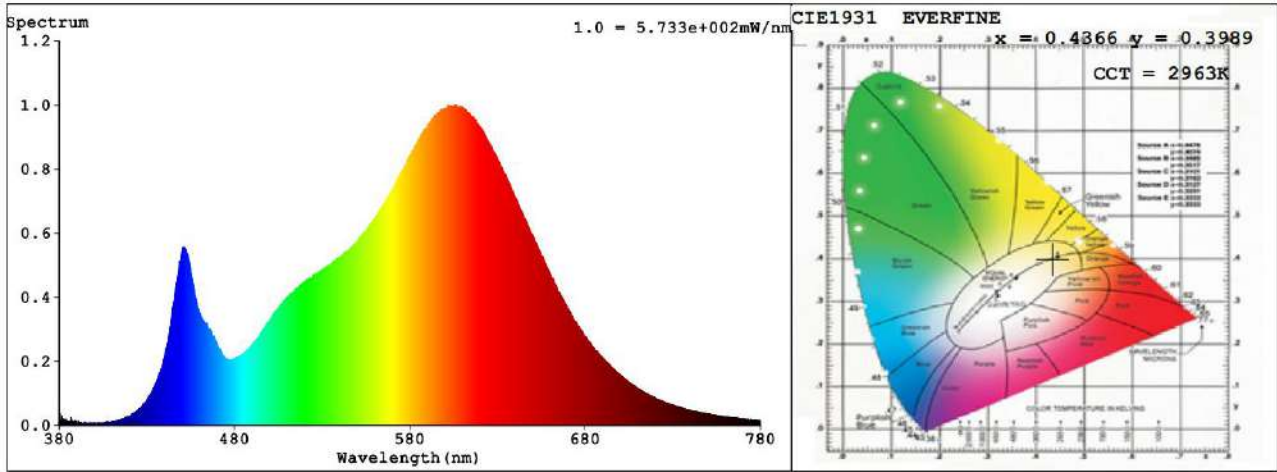
Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.



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5.5 Model # 304Y0200W30LY Relative Spectral Power Distribution



nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
380	0.0057	414	0.0161	448	0.4802	482	0.2118	516	0.4283
381	0.0067	415	0.0164	449	0.511	483	0.2171	517	0.433
382	0.004	416	0.0175	450	0.54	484	0.2203	518	0.4391
383	0.0201	417	0.0201	451	0.5437	485	0.2218	519	0.4426
384	0.0192	418	0.0231	452	0.5484	486	0.228	520	0.4463
385	0.0064	419	0.0268	453	0.5332	487	0.2319	521	0.4515
386	0.0098	420	0.0271	454	0.5163	488	0.2371	522	0.4535
387	0.0119	421	0.0301	455	0.4894	489	0.2433	523	0.4589
388	0.0045	422	0.0345	456	0.4509	490	0.2485	524	0.461
389	0.0126	423	0.0396	457	0.4214	491	0.2572	525	0.4684
390	0.006	424	0.0407	458	0.3965	492	0.2634	526	0.4691
391	0.0136	425	0.0477	459	0.371	493	0.2712	527	0.4736
392	0.0056	426	0.0518	460	0.3522	494	0.2786	528	0.4779
393	0.0004	427	0.0561	461	0.3387	495	0.2866	529	0.4834
394	0.0034	428	0.0655	462	0.3298	496	0.2951	530	0.4814
395	0.0083	429	0.0702	463	0.3188	497	0.3046	531	0.4893
396	0.0046	430	0.077	464	0.3144	498	0.3138	532	0.4919
397	0.0059	431	0.0899	465	0.3061	499	0.3201	533	0.4944
398	0.0053	432	0.095	466	0.2988	500	0.3282	534	0.4991
399	0.0026	433	0.1046	467	0.2916	501	0.3359	535	0.5026
400	0.0062	434	0.1172	468	0.2789	502	0.3445	536	0.5053
401	0.0049	435	0.1283	469	0.2663	503	0.3522	537	0.5139
402	0.0077	436	0.143	470	0.2545	504	0.3567	538	0.5182
403	0.0076	437	0.1581	471	0.2436	505	0.3651	539	0.5184
404	0.0055	438	0.1748	472	0.2333	506	0.3747	540	0.5209
405	0.0047	439	0.1887	473	0.2238	507	0.3811	541	0.5261
406	0.0067	440	0.2101	474	0.2161	508	0.3853	542	0.5324
407	0.0095	441	0.2385	475	0.2084	509	0.3921	543	0.5339
408	0.0102	442	0.2591	476	0.2062	510	0.3978	544	0.5394
409	0.0085	443	0.2909	477	0.2025	511	0.4006	545	0.5467
410	0.0113	444	0.3304	478	0.2035	512	0.4098	546	0.555
411	0.0118	445	0.3695	479	0.2052	513	0.4158	547	0.5575
412	0.0107	446	0.4092	480	0.2064	514	0.4158	548	0.5628
413	0.0125	447	0.4447	481	0.2083	515	0.4279	549	0.5666





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nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
550	0.572	599	0.9855	648	0.6169	697	0.1715	746	0.039
551	0.5797	600	0.9879	649	0.6034	698	0.1656	747	0.0384
552	0.5864	601	0.9877	650	0.5941	699	0.161	748	0.037
553	0.5932	602	0.9961	651	0.5831	700	0.1563	749	0.0348
554	0.6027	603	0.9942	652	0.5697	701	0.1521	750	0.0338
555	0.6062	604	0.9979	653	0.5577	702	0.1466	751	0.0351
556	0.617	605	0.9976	654	0.5408	703	0.1435	752	0.0326
557	0.6224	606	0.996	655	0.5334	704	0.1395	753	0.0314
558	0.6292	607	0.9911	656	0.5188	705	0.1343	754	0.0305
559	0.636	608	0.9942	657	0.5068	706	0.1309	755	0.03
560	0.6445	609	0.9891	658	0.4944	707	0.1283	756	0.0289
561	0.6517	610	0.9909	659	0.4867	708	0.1241	757	0.0289
562	0.6602	611	0.9865	660	0.4746	709	0.12	758	0.0281
563	0.6741	612	0.9821	661	0.4605	710	0.1135	759	0.0265
564	0.679	613	0.9755	662	0.4503	711	0.1134	760	0.0263
565	0.6891	614	0.9754	663	0.4388	712	0.1075	761	0.026
566	0.6982	615	0.965	664	0.4296	713	0.1057	762	0.0251
567	0.7079	616	0.9615	665	0.4171	714	0.102	763	0.0245
568	0.713	617	0.9528	666	0.4077	715	0.0981	764	0.0239
569	0.7245	618	0.9478	667	0.3967	716	0.098	765	0.0223
570	0.7328	619	0.9377	668	0.3863	717	0.0933	766	0.0225
571	0.7434	620	0.9319	669	0.3755	718	0.0895	767	0.0225
572	0.7591	621	0.9256	670	0.365	719	0.0877	768	0.0204
573	0.7635	622	0.9137	671	0.3575	720	0.0844	769	0.0209
574	0.7771	623	0.9051	672	0.3463	721	0.0825	770	0.0197
575	0.7863	624	0.8961	673	0.3376	722	0.0794	771	0.0189
576	0.7975	625	0.8841	674	0.3272	723	0.0775	772	0.0195
577	0.8081	626	0.8729	675	0.3193	724	0.0752	773	0.0185
578	0.8173	627	0.8631	676	0.3099	725	0.0733	774	0.0179
579	0.8265	628	0.8531	677	0.3005	726	0.0707	775	0.0174
580	0.8407	629	0.8435	678	0.2949	727	0.0696	776	0.0168
581	0.8499	630	0.8352	679	0.2845	728	0.0676	777	0.0159
582	0.8518	631	0.8194	680	0.2776	729	0.0647	778	0.016
583	0.8679	632	0.806	681	0.2713	730	0.0628	779	0.0158
584	0.8799	633	0.7963	682	0.2636	731	0.062	780	0.0151
585	0.892	634	0.7877	683	0.2561	732	0.0589		
586	0.9008	635	0.7749	684	0.2466	733	0.0578		
587	0.9106	636	0.767	685	0.2403	734	0.0561		
588	0.9182	637	0.7487	686	0.2335	735	0.0543		
589	0.9255	638	0.7389	687	0.2307	736	0.0524		
590	0.9323	639	0.728	688	0.2219	737	0.0514		
591	0.94	640	0.7138	689	0.2172	738	0.049		
592	0.9455	641	0.7038	690	0.2112	739	0.0493		
593	0.9525	642	0.6888	691	0.2039	740	0.0465		
594	0.9663	643	0.6769	692	0.1996	741	0.0445		
595	0.9668	644	0.6654	693	0.1926	742	0.0439		
596	0.975	645	0.6501	694	0.1877	743	0.0423		
597	0.9767	646	0.6408	695	0.182	744	0.0418		
598	0.9822	647	0.628	696	0.1771	745	0.04		



### 6. Goniophotometer Test results for model # 304Y0200W30LY

#### 6.1 Test Data

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

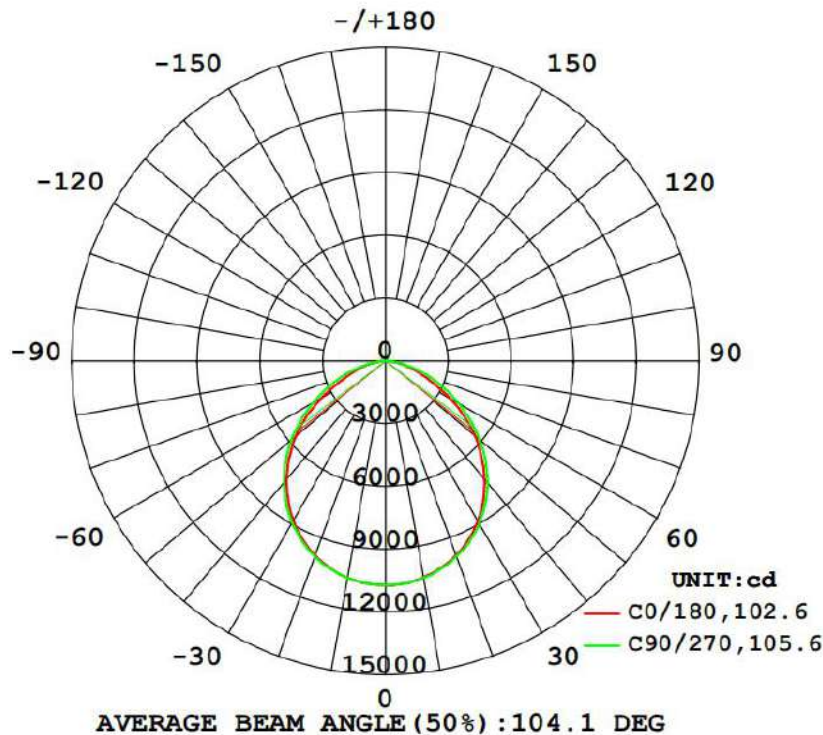
#### Electrical Measurement

Input Voltage (V)	Frequency (Hz)	Input Current(A)	Power Factor	Power(W)
120.0	60	1.678	0.9987	201.1

#### Optical Measurement

Luminous Flux (lm)	Efficacy(lm/W)	ZL (20-50°)	Spacing Criteria (C0/180°)	Spacing Criteria (C90/270°)
27298.2	135.74	53.5%	1.23	1.24

#### 6.2 Luminous Intensity Distribution





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### 6.3 Zonal Flux Diagram

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum, lamp
10	1049	1053	1052	1051	1053	1052	1054	1053	0- 10	1014	1014	3.71, 3.71
20	988.9	991.7	993.4	990.8	988.6	990.5	994.5	992.0	10- 20	2898	3912	14.3, 14.3
30	884.2	891.1	895.7	888.4	882.6	888.2	894.3	891.5	20- 30	4357	8268	30.3, 30.3
40	736.5	747.5	760.1	744.9	737.5	744.8	756.7	748.2	30- 40	5141	13409	49.1, 49.1
50	557.9	569.3	588.5	568.3	561.5	568.4	587.7	571.5	40- 50	5105	18514	67.8, 67.8
60	351.1	383.1	400.5	381.1	351.7	380.8	400.9	384.9	50- 60	4253	22767	83.4, 83.4
70	176.7	196.4	223.5	193.4	175.0	194.9	223.4	196.6	60- 70	2813	25579	93.7, 93.7
80	66.28	68.01	74.68	66.43	66.13	67.19	75.40	68.75	70- 80	1364	26944	98.7, 98.7
90	0.1551	0.2065	0.2482	0.1625	0.0907	0.1370	0.1606	0.1063	80- 90	297.2	27241	99.8, 99.8
100	0.2195	0.3879	0.7139	0.2575	0.3103	0.4339	0.7535	0.3490	90-100	2.907	27244	99.8, 99.8
110	0.4234	0.6915	1.095	0.4998	0.5681	0.7841	1.391	0.6295	100-110	6.035	27250	99.8, 99.8
120	0.6129	0.9358	0.9125	0.9467	0.8174	1.112	1.334	0.8955	110-120	8.453	27258	99.9, 99.9
130	0.7567	1.134	0.7377	1.145	0.9837	1.233	1.102	0.9556	120-130	8.807	27267	99.9, 99.9
140	0.8702	1.218	0.8271	1.183	1.037	1.363	0.6784	1.047	130-140	8.659	27276	99.9, 99.9
150	1.097	1.438	0.8969	1.386	1.355	1.721	1.119	1.434	140-150	8.266	27284	99.9, 99.9
160	1.317	1.583	1.200	1.630	1.703	1.865	1.574	1.858	150-160	7.054	27291	100, 100
170	1.733	2.319	1.444	2.237	1.967	2.178	2.168	2.238	160-170	4.966	27296	100, 100
180	2.353	2.994	1.750	2.549	2.338	2.428	2.395	2.192	170-180	2.070	27298	100, 100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									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	24.1	25.5	24.4	25.7	26.0	24.5	26.0	24.8	26.2	26.4
3H	25.0	26.3	25.3	26.6	26.8	25.7	27.1	26.0	27.3	27.5
4H	25.3	26.6	25.6	26.8	27.1	26.1	27.4	26.4	27.7	27.9
6H	25.5	26.7	25.9	27.0	27.3	26.4	27.6	26.7	27.8	28.1
8H	25.6	26.7	25.9	27.0	27.3	26.4	27.6	26.7	27.8	28.1
12H	25.6	26.7	26.0	27.0	27.3	26.4	27.5	26.8	27.8	28.1
4H 2H	24.6	25.9	24.9	26.1	26.4	24.9	26.2	25.3	26.5	26.7
3H	25.7	26.8	26.0	27.1	27.4	26.3	27.4	26.7	27.7	28.0
4H	26.1	27.1	26.5	27.4	27.8	26.8	27.8	27.2	28.2	28.5
6H	26.4	27.3	26.8	27.6	28.0	27.2	28.1	27.6	28.4	28.8
8H	26.5	27.3	26.9	27.7	28.1	27.2	28.1	27.6	28.4	28.8
12H	26.6	27.3	27.0	27.7	28.1	27.3	28.0	27.7	28.4	28.8
8H 4H	26.3	27.1	26.7	27.5	27.9	26.9	27.8	27.4	28.1	28.5
6H	26.7	27.4	27.1	27.8	28.2	27.4	28.1	27.8	28.5	28.9
8H	26.8	27.4	27.3	27.9	28.3	27.5	28.1	28.0	28.5	29.0
12H	26.9	27.5	27.4	27.9	28.4	27.6	28.1	28.0	28.5	29.0
12H 4H	26.3	27.0	26.7	27.4	27.8	26.9	27.7	27.4	28.1	28.5
6H	26.7	27.3	27.2	27.7	28.2	27.4	28.0	27.8	28.4	28.9
8H	26.9	27.4	27.4	27.9	28.3	27.5	28.0	28.0	28.5	29.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.3					+ 0.2 / - 0.3				
1.5H	+ 0.3 / - 0.4					+ 0.2 / - 0.3				
2.0H	+ 0.4 / - 0.5					+ 0.4 / - 0.3				

CIE Pub.117, 27298 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 11.5)





6.5 Luminous Distribution Intensity Data

Table--1 UNIT: ×10cd

γ (DEG) \ C (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	1071	1071	1071	1071	1071	1071	1071	1071	1071	1071	1071	1071	1071	1071	1071	1071			
5	1067	1067	1068	1067	1068	1067	1065	1065	1067	1067	1066	1067	1067	1068	1068	1068			
10	1049	1052	1053	1054	1052	1053	1051	1051	1053	1052	1052	1052	1054	1055	1053	1052			
15	1023	1026	1026	1029	1028	1028	1027	1027	1026	1028	1026	1028	1029	1030	1027	1027			
20	989	993	992	993	993	994	991	990	989	991	991	993	995	995	992	992			
25	941	945	947	951	951	949	945	941	940	943	944	949	949	949	948	946			
30	884	886	891	895	896	894	888	884	883	884	888	893	894	893	891	888			
35	817	819	824	830	832	829	821	816	813	814	821	828	830	827	824	821			
40	736	740	747	756	760	755	745	735	737	738	745	752	757	756	748	741			
45	650	656	664	674	676	672	659	653	652	655	658	671	676	670	663	660			
50	558	565	569	582	588	579	568	560	561	562	568	579	588	580	571	566			
55	455	467	478	487	494	486	474	461	460	466	474	485	495	487	480	469			
60	351	364	383	394	401	391	381	359	352	364	381	391	401	394	385	366			
65	250	263	287	302	310	302	286	258	250	262	286	301	309	302	289	264			
70	177	180	196	219	223	218	193	177	175	179	195	217	223	219	197	181			
75	117	119	123	139	144	138	122	116	117	118	122	138	144	140	124	120			
80	66.3	67.6	68.0	69.8	74.7	68.8	66.4	65.1	66.1	66.5	67.2	69.0	75.4	70.1	68.7	68.2			
85	26.9	26.2	24.6	23.2	22.9	22.7	23.4	24.0	25.4	25.0	23.5	22.8	23.3	23.7	25.0	27.0			
90	0.16	0.17	0.21	0.27	0.25	0.19	0.16	0.15	0.09	0.11	0.14	0.17	0.16	0.12	0.11	0.11			
95	0.14	0.15	0.19	0.37	0.47	0.34	0.15	0.14	0.17	0.19	0.25	0.40	0.52	0.26	0.20	0.17			
100	0.22	0.27	0.39	0.51	0.71	0.49	0.26	0.23	0.31	0.34	0.43	0.62	0.75	0.39	0.35	0.30			
105	0.35	0.37	0.52	0.71	0.94	0.65	0.36	0.35	0.45	0.48	0.59	0.92	1.08	0.55	0.49	0.43			
110	0.42	0.51	0.69	0.85	1.09	0.83	0.50	0.42	0.57	0.62	0.78	1.17	1.39	0.73	0.63	0.58			
115	0.54	0.65	0.84	1.06	1.12	0.96	0.71	0.54	0.70	0.81	0.97	1.23	1.48	0.87	0.77	0.73			
120	0.61	0.73	0.94	0.93	0.91	0.84	0.95	0.62	0.82	0.96	1.11	1.23	1.33	0.91	0.90	0.84			
125	0.68	0.78	0.99	1.09	0.99	1.12	1.05	0.68	0.94	1.04	1.16	1.30	1.16	0.94	0.92	0.93			
130	0.76	0.86	1.13	1.23	0.74	1.17	1.14	0.71	0.98	1.03	1.23	1.61	1.10	1.19	0.96	0.98			
135	0.86	0.95	1.22	1.47	0.72	1.45	1.21	0.76	1.01	1.10	1.30	1.57	0.94	1.44	1.01	0.99			
140	0.87	0.99	1.22	1.47	0.83	1.45	1.18	0.85	1.04	1.14	1.36	1.83	0.68	1.76	1.05	1.03			
145	0.97	1.13	1.30	1.61	0.89	1.53	1.17	0.96	1.20	1.26	1.54	2.09	0.92	2.26	1.21	1.14			
150	1.10	1.23	1.44	1.61	0.90	1.59	1.39	1.01	1.35	1.41	1.72	2.32	1.12	2.54	1.43	1.28			
155	1.19	1.35	1.47	1.60	0.98	1.59	1.46	1.12	1.54	1.52	1.77	2.32	1.35	1.92	1.58	1.45			
160	1.32	1.38	1.58	1.68	1.20	1.62	1.63	1.22	1.70	1.70	1.87	2.25	1.57	1.51	1.86	1.52			
165	1.56	1.67	1.91	1.87	1.22	1.74	1.90	1.49	1.77	1.78	1.90	2.28	1.64	1.46	1.88	1.73			
170	1.73	1.95	2.32	2.17	1.44	2.03	2.24	1.73	1.97	1.99	2.18	2.70	2.17	1.65	2.24	2.28			
175	2.08	2.27	2.62	2.32	1.56	2.16	2.42	1.95	2.22	2.22	2.42	2.80	2.33	1.68	2.28	2.51			
180	2.35	2.45	2.99	2.49	1.75	2.24	2.55	2.13	2.34	2.34	2.43	2.81	2.40	1.68	2.19	2.53			

7. THD and PF Test for model # 304Y0200W30LY

Voltage (V AC)	Frequency (Hz)	Power Factor	THD (%)
100.0	60	0.9988	3.25
120.0	60	0.9987	3.03
277.0	60	0.9607	6.89



Guangdong Meide Testing Technology Co., Ltd.



## 8.Photo of sample

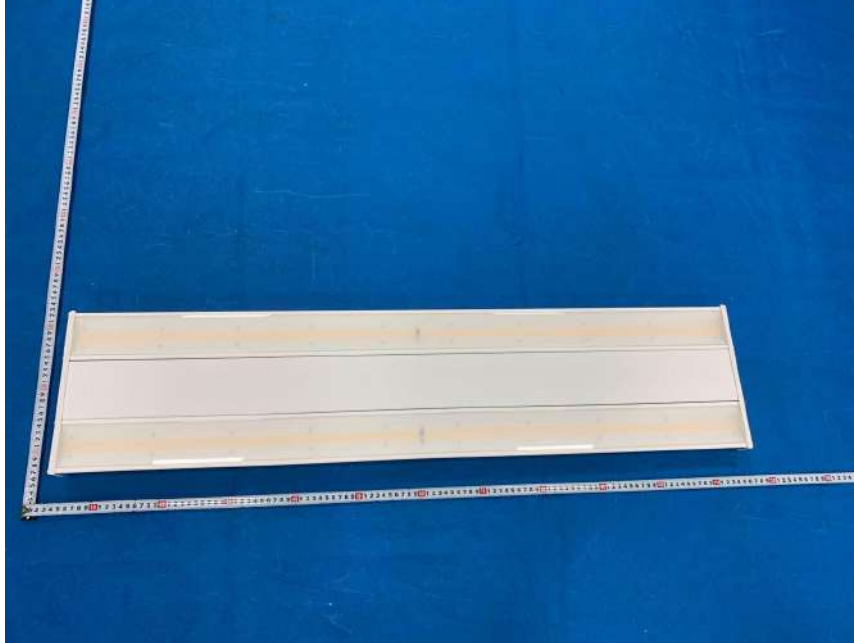


Figure 1

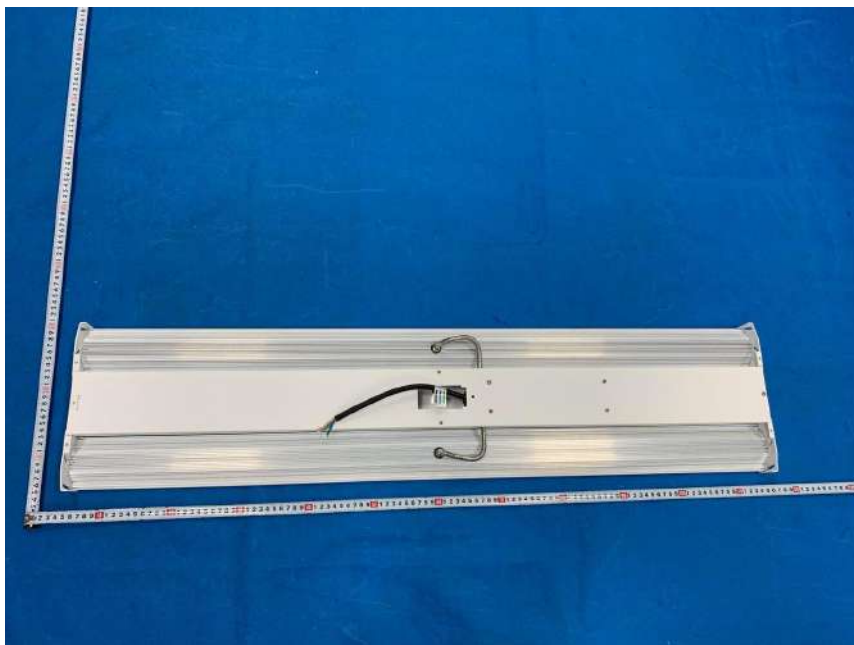


Figure 2



Guangdong Meide Testing Technology Co., Ltd.



### Report Revision

Original report number CA2005479L 02007R1 dated at 2020-09-02 was recalled and declared as invalid by Guangdong Meide Testing Technology Co.,Ltd.Report number CA2005479L 02007R2 was issued on to replace report number CA2005479L 02007R1.

Report Number	Report Date	Contents
CA2005479L 02007	2020-07-09	Original report
CA2005479L 02007R1	2020-09-02	Add ANSI/IES TM-30-18 Color Rendition Report of model 304Y0200W50LY.
CA2005479L 02007R2	2020-09-10	Modify model 304Y0200W50LY x,y coordinates.

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