



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..... : 304Y0240W30LY,304Y0240W50LY

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 02009R2

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 304Y0240W30LY,304Y0240W50LY.Sample 304Y0240W30LY was numbered CA2005479L 02009-S01. Sample 304Y0240W50LY was numbered CA2005479L 02009-S02.The sample was received on 2020-06-29,is undamaged condition.

Model Tested:	304Y0240W30LY,304Y0240W50LY
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:	240W
Nominal CCT:	3000K,5000K
LED Manufacturer:	Edison Opto Corporation
LED Model No:	2T03X8WW23000001
LED Driver Manufacturer:	MEANWELL
LED Driver Model:	XLG-240-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.



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°C	Test orientation	Downward
Operate time(Min.)	100	stabilization time(Min.)	90

Model # 304Y0240W30LY 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	1.952	233.9	0.9988	31546	134.87	2964

Ra	R9	Rf	Rg	x	y	u'	v'	Duv
84.1	13	86	96	0.4365	0.3988	0.2526	0.5192	-0.00204

Model # 304Y0240W50LY 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	1.980	237.3	0.9989	33214	139.94	5083

Ra	R9	Rf	Rg	x	y	u'	v'	Duv
83.1	3	83	92	0.3433	0.3558	0.2086	0.4864	0.00287

5.2 Model # 304Y0240W30LY Color Rendering Index

Ra				
84.1				
R1	R2	R3	R4	R5
84	93	95	82	84
R6	R7	R8	R9	R10
92	82	60	13	85
R11	R12	R13	R14	R15
83	78	86	98	76



5.3 Model # 304Y0240W30LY ANSI/IES TM-30-18 Color Rendition Report

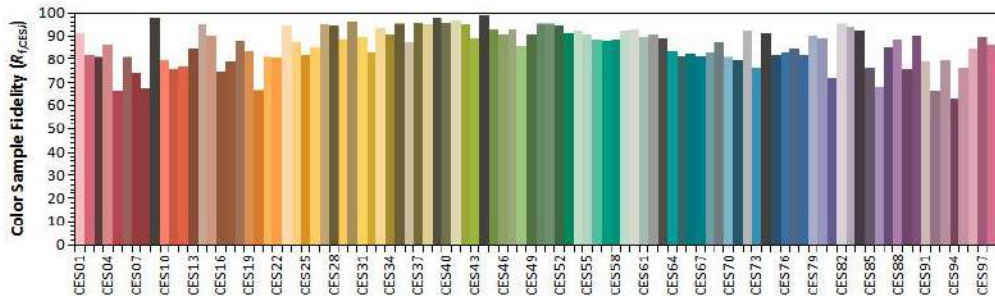
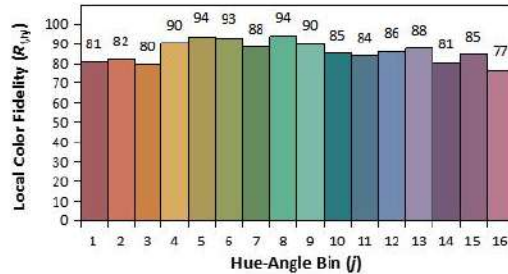
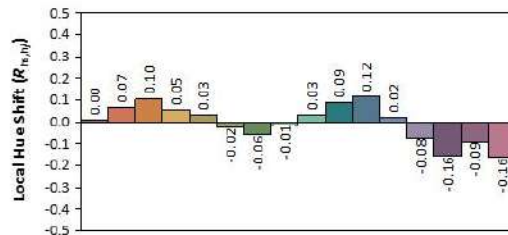
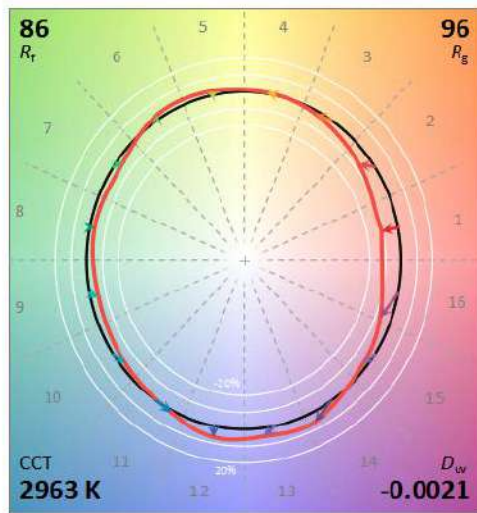
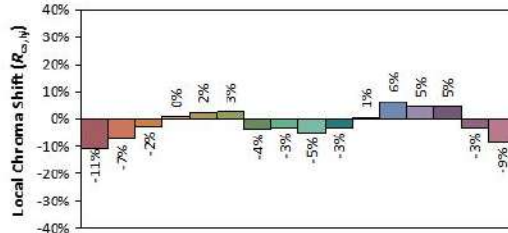
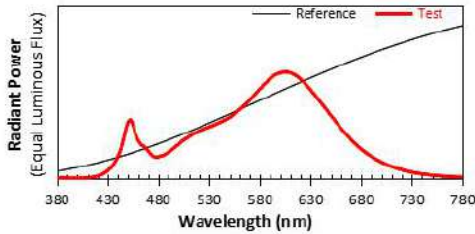
ANSI/IES TM-30-18 Color Rendition Report

Source: 2T03X8WW23000001

Manufacturer: ROYALUX EXPORTS

Date: 2020/9/2

Model: 304Y0240W30LY



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

x 0.4365, y 0.3987, u' 0.2526, v' 0.5192

Table with CIE 13.3-1995 (CRI) and Ra 84, Rg 12.

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



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5.4 Model # 304Y0240W50LY ANSI/IES TM-30-18 Color Rendition Report

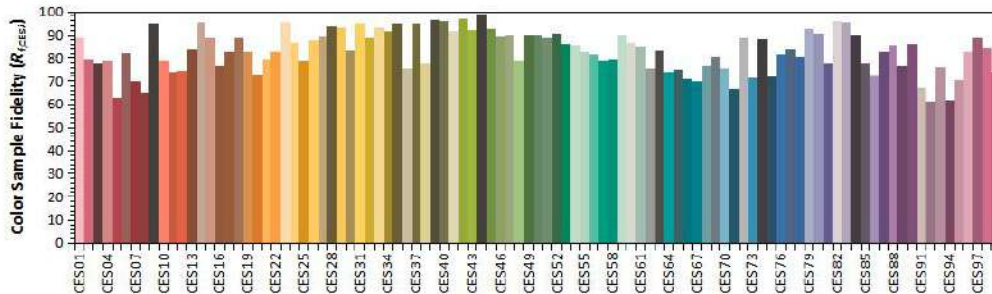
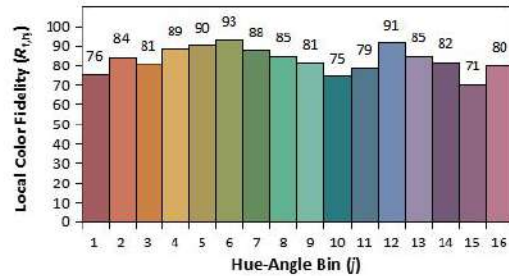
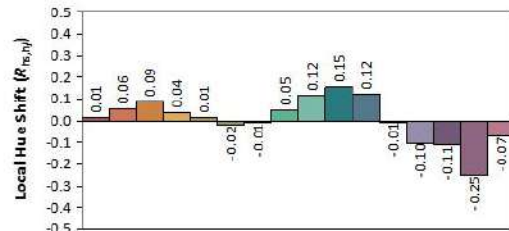
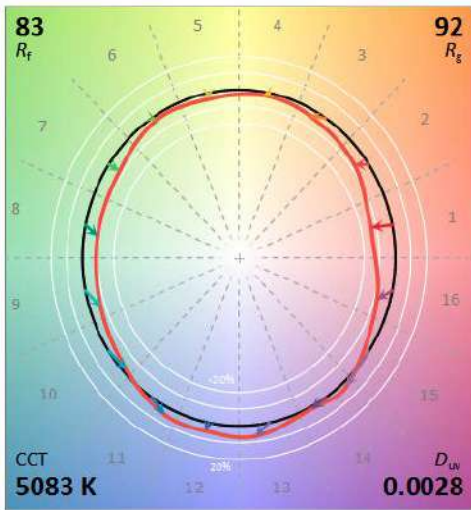
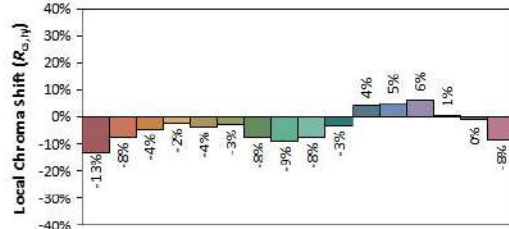
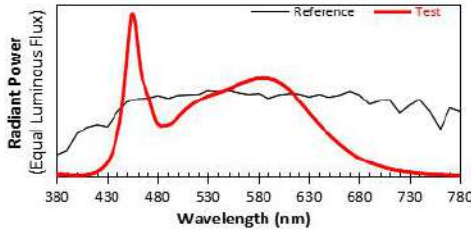
ANSI/IES TM-30-18 Color Rendition Report

Source: 2T03X8WW23000001

Manufacturer: ROYALUX EXPORTS

Date: 2020/9/2

Model: 304Y0240W50LY



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

x 0.3433
y 0.3558
u' 0.2086
v' 0.4864

CIE 13.3-1995 (CRI)	
R _a	83
R _g	3

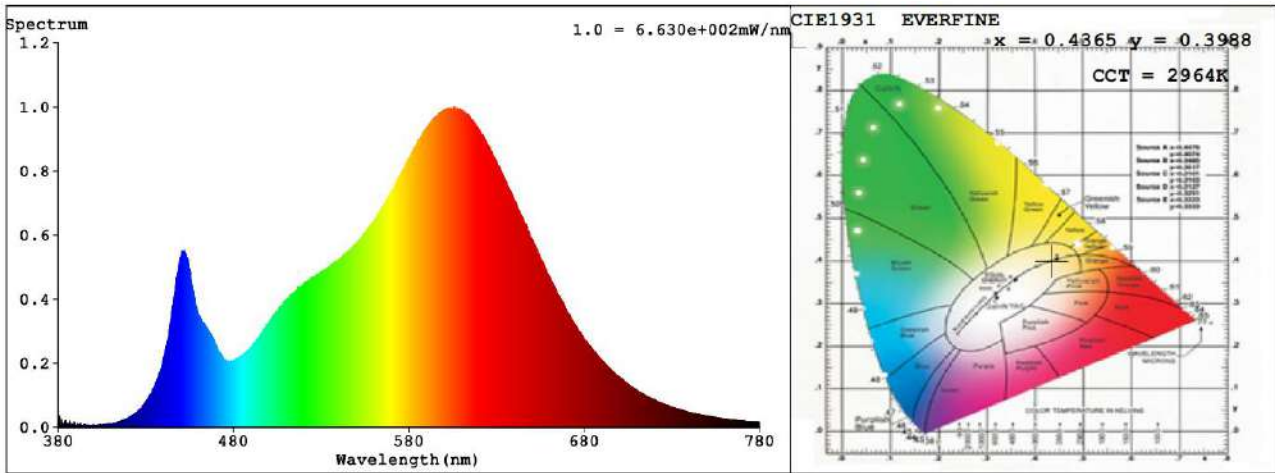
Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.



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5.5 Model # 304Y0240W30LY Relative Spectral Power Distribution



nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
380	0.0102	414	0.0167	448	0.4774	482	0.2147	516	0.4294
381	0.0023	415	0.0164	449	0.5083	483	0.2152	517	0.4288
382	0.0096	416	0.0188	450	0.5327	484	0.2183	518	0.4376
383	0.0056	417	0.0225	451	0.5431	485	0.2229	519	0.4411
384	0.0139	418	0.0244	452	0.5523	486	0.2266	520	0.4489
385	0.0081	419	0.0253	453	0.5389	487	0.2333	521	0.4519
386	0.0083	420	0.0283	454	0.523	488	0.2383	522	0.4554
387	0.0132	421	0.0294	455	0.4893	489	0.2408	523	0.4579
388	0.0047	422	0.0356	456	0.4563	490	0.2468	524	0.4617
389	0.0076	423	0.039	457	0.4218	491	0.256	525	0.4668
390	0.0009	424	0.0431	458	0.4019	492	0.2653	526	0.4703
391	0.0127	425	0.0455	459	0.3738	493	0.2692	527	0.4752
392	0.008	426	0.0534	460	0.3569	494	0.2788	528	0.4743
393	0.0037	427	0.0577	461	0.3437	495	0.2863	529	0.4758
394	0.0053	428	0.0637	462	0.3308	496	0.2939	530	0.4858
395	0.0066	429	0.0712	463	0.3176	497	0.3043	531	0.4877
396	0.0042	430	0.0787	464	0.3133	498	0.3108	532	0.4906
397	0.0084	431	0.0873	465	0.3043	499	0.3165	533	0.4925
398	0.0049	432	0.1006	466	0.3017	500	0.3233	534	0.501
399	0.0035	433	0.1029	467	0.2912	501	0.3339	535	0.5004
400	0.0068	434	0.1182	468	0.2795	502	0.3426	536	0.5081
401	0.0037	435	0.1279	469	0.2684	503	0.349	537	0.5127
402	0.007	436	0.1415	470	0.2584	504	0.3608	538	0.5172
403	0.0071	437	0.1561	471	0.247	505	0.3609	539	0.5193
404	0.0066	438	0.1718	472	0.2343	506	0.3716	540	0.523
405	0.0065	439	0.1893	473	0.2266	507	0.3782	541	0.5283
406	0.0054	440	0.2164	474	0.2175	508	0.3804	542	0.5332
407	0.0091	441	0.2336	475	0.2098	509	0.3892	543	0.5349
408	0.0115	442	0.2607	476	0.2051	510	0.3973	544	0.5458
409	0.0083	443	0.2836	477	0.2074	511	0.4013	545	0.5454
410	0.0113	444	0.3239	478	0.2005	512	0.4055	546	0.5512
411	0.0106	445	0.3632	479	0.2066	513	0.4168	547	0.5561
412	0.0127	446	0.3997	480	0.2054	514	0.4182	548	0.5645
413	0.0136	447	0.4404	481	0.2112	515	0.4237	549	0.5671



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nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
550	0.572	599	0.9849	648	0.6118	697	0.1704	746	0.0399
551	0.5786	600	0.9889	649	0.6002	698	0.1652	747	0.0377
552	0.5851	601	0.9865	650	0.5906	699	0.163	748	0.0374
553	0.594	602	0.9941	651	0.5763	700	0.1568	749	0.0349
554	0.6043	603	0.9927	652	0.5668	701	0.1511	750	0.0351
555	0.6061	604	0.9922	653	0.5556	702	0.1485	751	0.0331
556	0.6145	605	0.9949	654	0.542	703	0.1424	752	0.0331
557	0.6187	606	0.999	655	0.5274	704	0.1392	753	0.0327
558	0.6277	607	0.9897	656	0.5207	705	0.1348	754	0.0302
559	0.6362	608	0.9931	657	0.5071	706	0.1298	755	0.0306
560	0.643	609	0.9915	658	0.4972	707	0.1265	756	0.029
561	0.6514	610	0.9883	659	0.4817	708	0.1226	757	0.0288
562	0.6628	611	0.9864	660	0.472	709	0.1192	758	0.0279
563	0.6694	612	0.9787	661	0.4625	710	0.1155	759	0.0268
564	0.6793	613	0.9756	662	0.4485	711	0.1133	760	0.0259
565	0.6882	614	0.9759	663	0.441	712	0.1082	761	0.026
566	0.695	615	0.962	664	0.4269	713	0.1057	762	0.0245
567	0.7034	616	0.9604	665	0.418	714	0.1032	763	0.0239
568	0.7145	617	0.9532	666	0.407	715	0.0995	764	0.0233
569	0.7253	618	0.9443	667	0.398	716	0.0954	765	0.0226
570	0.733	619	0.9361	668	0.3877	717	0.0948	766	0.0221
571	0.7419	620	0.93	669	0.3777	718	0.0902	767	0.0219
572	0.7567	621	0.9194	670	0.3628	719	0.0889	768	0.0207
573	0.7641	622	0.913	671	0.3561	720	0.0864	769	0.0207
574	0.7771	623	0.9046	672	0.3454	721	0.0826	770	0.0201
575	0.785	624	0.8935	673	0.335	722	0.0781	771	0.0192
576	0.7968	625	0.8813	674	0.3299	723	0.0782	772	0.0192
577	0.8065	626	0.8744	675	0.3201	724	0.0751	773	0.0175
578	0.818	627	0.8597	676	0.3105	725	0.0744	774	0.0179
579	0.8294	628	0.8499	677	0.3006	726	0.0712	775	0.0167
580	0.8378	629	0.8412	678	0.2947	727	0.0699	776	0.0166
581	0.8472	630	0.8302	679	0.2855	728	0.0666	777	0.0164
582	0.8569	631	0.817	680	0.2764	729	0.0645	778	0.0165
583	0.8711	632	0.8018	681	0.2704	730	0.0628	779	0.0163
584	0.8803	633	0.7975	682	0.2615	731	0.0603	780	0.0159
585	0.8872	634	0.7838	683	0.255	732	0.0598		
586	0.8974	635	0.77	684	0.2498	733	0.0575		
587	0.9059	636	0.7623	685	0.2412	734	0.056		
588	0.9184	637	0.744	686	0.2334	735	0.0537		
589	0.9271	638	0.7368	687	0.2288	736	0.0531		
590	0.9349	639	0.7232	688	0.2228	737	0.0513		
591	0.9388	640	0.71	689	0.2158	738	0.0508		
592	0.9488	641	0.7006	690	0.2101	739	0.0471		
593	0.954	642	0.6848	691	0.2042	740	0.0462		
594	0.9631	643	0.676	692	0.1986	741	0.0458		
595	0.9691	644	0.6633	693	0.1924	742	0.0439		
596	0.9721	645	0.652	694	0.1865	743	0.043		
597	0.9779	646	0.6402	695	0.183	744	0.0415		
598	0.9782	647	0.627	696	0.1766	745	0.0401		



6. Goniophotometer Test results for model # 304Y0240W30LY

6.1 Test Data

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

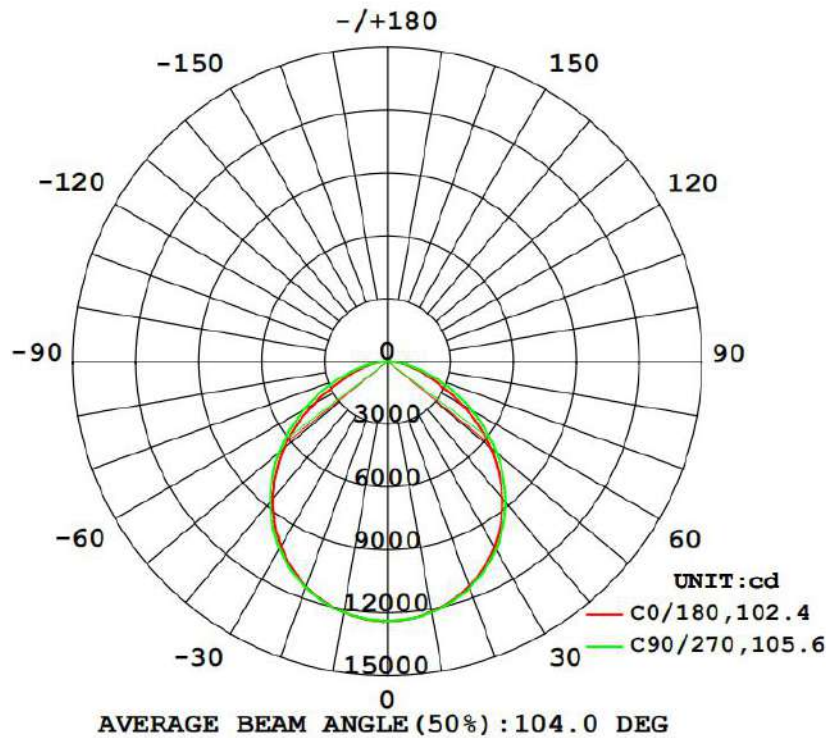
Electrical Measurement

Input Voltage (V)	Frequency (Hz)	Input Current(A)	Power Factor	Power(W)
120.0	60	1.9512	0.9994	234.0

Optical Measurement

Luminous Flux (lm)	Efficacy(lm/W)	ZL (20-50°)	Spacing Criteria (C0/180°)	Spacing Criteria (C90/270°)
31518.9	134.70	53.5%	1.23	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	Φ zone	Φ total	Φ lum, lamp
10	1211	1216	1215	1215	1216	1213	1215	1219	0- 10	1170	1170	3.71, 3.71
20	1140	1144	1149	1145	1143	1143	1146	1148	10- 20	3346	4516	14.3, 14.3
30	1021	1028	1035	1029	1017	1026	1033	1031	20- 30	5030	9546	30.3, 30.3
40	849.6	862.5	875.2	861.4	852.0	858.8	873.3	864.8	30- 40	5936	15482	49.1, 49.1
50	644.2	658.1	677.9	658.5	648.5	656.9	678.3	661.9	40- 50	5894	21375	67.8, 67.8
60	405.6	442.6	463.0	441.4	406.0	440.7	463.2	444.9	50- 60	4910	26285	83.4, 83.4
70	203.6	225.5	257.8	223.7	202.4	225.2	258.0	227.0	60- 70	3247	29533	93.7, 93.7
80	76.73	78.64	86.42	76.76	76.25	77.63	86.67	79.70	70- 80	1576	31108	98.7, 98.7
90	0.1760	0.2447	0.3094	0.1893	0.1137	0.1493	0.1932	0.1318	80- 90	344.4	31453	99.8, 99.8
100	0.2526	0.4204	0.8304	0.3155	0.3840	0.4998	0.8592	0.4123	90-100	3.396	31456	99.8, 99.8
110	0.4790	0.7964	1.261	0.5773	0.6801	0.9204	1.621	0.7277	100-110	6.980	31463	99.8, 99.8
120	0.6971	1.094	1.052	1.093	0.9588	1.289	1.565	1.035	110-120	9.764	31473	99.9, 99.9
130	0.8702	1.288	0.8508	1.349	1.150	1.420	1.297	1.113	120-130	10.20	31483	99.9, 99.9
140	0.9846	1.411	0.9636	1.368	1.220	1.569	0.7808	1.201	130-140	10.04	31493	99.9, 99.9
150	1.255	1.674	1.042	1.603	1.560	1.981	1.280	1.665	140-150	9.568	31503	99.9, 99.9
160	1.490	1.814	1.402	1.891	1.969	2.147	1.831	2.147	150-160	8.149	31511	100, 100
170	1.995	2.653	1.673	2.603	2.292	2.509	2.507	2.603	160-170	5.737	31517	100, 100
180	2.701	3.225	1.980	2.953	2.684	2.787	2.789	2.524	170-180	2.391	31519	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	24.6	26.0	24.9	26.3	26.5	25.0	26.5	25.3	26.7	26.9
3H	25.5	26.8	25.8	27.1	27.3	26.2	27.6	26.5	27.8	28.0
4H	25.8	27.1	26.1	27.3	27.6	26.6	27.9	27.0	28.2	28.4
6H	26.0	27.2	26.4	27.5	27.8	26.9	28.1	27.2	28.3	28.6
8H	26.1	27.2	26.4	27.5	27.8	26.9	28.1	27.3	28.3	28.6
12H	26.1	27.2	26.5	27.5	27.8	26.9	28.0	27.3	28.3	28.6
4H	25.1	26.4	25.4	26.6	26.9	25.5	26.7	25.8	27.0	27.2
3H	26.2	27.3	26.5	27.6	27.9	26.8	27.9	27.2	28.2	28.5
4H	26.6	27.6	27.0	27.9	28.3	27.3	28.4	27.7	28.7	29.0
6H	26.9	27.8	27.3	28.2	28.5	27.7	28.6	28.1	28.9	29.3
8H	27.0	27.8	27.4	28.2	28.6	27.7	28.6	28.2	28.9	29.3
12H	27.1	27.8	27.5	28.2	28.6	27.8	28.5	28.2	28.9	29.3
8H	26.8	27.6	27.2	28.0	28.4	27.4	28.3	27.9	28.6	29.0
6H	27.2	27.9	27.6	28.3	28.7	27.9	28.6	28.3	29.0	29.4
8H	27.3	28.0	27.8	28.4	28.8	28.0	28.6	28.5	29.0	29.5
12H	27.5	28.0	27.9	28.4	28.9	28.1	28.6	28.5	29.0	29.5
12H	26.8	27.5	27.2	27.9	28.3	27.4	28.2	27.9	28.6	29.0
6H	27.2	27.8	27.7	28.2	28.7	27.9	28.5	28.3	28.9	29.4
8H	27.4	27.9	27.9	28.4	28.8	28.0	28.5	28.5	29.0	29.5
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, 31519 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 12.0)



6.5 Luminous Distribution Intensity Data

Table--1 UNIT: ×10cd

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	1237	1237	1237	1237	1237	1237	1237	1237	1237	1237	1237	1237	1237	1237	1237	1237			
5	1232	1232	1231	1232	1232	1231	1234	1232	1233	1230	1229	1231	1233	1230	1235	1233			
10	1211	1215	1216	1217	1215	1215	1215	1214	1216	1215	1213	1214	1215	1216	1219	1215			
15	1181	1184	1186	1190	1186	1186	1187	1185	1185	1184	1186	1185	1187	1186	1190	1186			
20	1140	1146	1144	1148	1149	1147	1145	1144	1143	1143	1143	1144	1146	1148	1148	1147			
25	1085	1092	1093	1097	1097	1095	1094	1088	1084	1088	1091	1094	1096	1094	1093	1093			
30	1021	1022	1028	1033	1035	1032	1029	1020	1017	1022	1026	1031	1033	1031	1031	1026			
35	943	944	951	958	961	957	950	942	940	942	947	955	957	955	953	949			
40	850	855	862	873	875	870	861	851	852	852	859	869	873	871	865	857			
45	751	758	765	778	781	776	761	754	753	755	760	773	778	774	767	760			
50	644	652	658	672	678	670	659	647	649	649	657	668	678	669	662	654			
55	526	537	551	562	571	561	549	533	530	538	548	564	571	561	556	542			
60	406	420	443	455	463	452	441	414	406	418	441	453	463	455	445	423			
65	289	304	332	349	358	348	331	298	288	301	330	346	357	350	334	304			
70	204	208	226	253	258	252	224	204	202	206	225	249	258	253	227	209			
75	135	138	143	160	167	159	141	135	135	137	142	158	166	160	144	139			
80	76.7	78.2	78.6	80.6	86.4	79.5	76.8	75.4	76.3	76.8	77.6	79.7	86.7	81.3	79.7	78.7			
85	31.3	30.4	28.6	26.9	26.4	26.3	27.3	28.1	29.7	29.0	27.5	26.4	26.5	27.3	29.2	31.1			
90	0.18	0.21	0.24	0.32	0.31	0.25	0.19	0.18	0.11	0.13	0.15	0.20	0.19	0.14	0.13	0.12			
95	0.17	0.18	0.21	0.42	0.55	0.39	0.18	0.17	0.18	0.23	0.29	0.47	0.59	0.31	0.23	0.21			
100	0.25	0.30	0.42	0.59	0.83	0.57	0.32	0.28	0.38	0.39	0.50	0.73	0.86	0.46	0.41	0.35			
105	0.37	0.43	0.60	0.81	1.10	0.78	0.41	0.40	0.51	0.54	0.68	1.06	1.24	0.64	0.55	0.48			
110	0.48	0.59	0.80	0.98	1.26	0.97	0.58	0.48	0.68	0.73	0.92	1.36	1.62	0.85	0.73	0.68			
115	0.59	0.74	0.93	1.24	1.29	1.11	0.84	0.62	0.81	0.93	1.12	1.41	1.70	1.01	0.89	0.86			
120	0.70	0.83	1.09	1.08	1.05	0.97	1.09	0.72	0.96	1.09	1.29	1.41	1.56	1.05	1.04	0.98			
125	0.79	0.88	1.14	1.28	1.16	1.29	1.23	0.80	1.08	1.23	1.35	1.53	1.36	1.10	1.07	1.06			
130	0.87	0.98	1.29	1.42	0.85	1.36	1.35	0.84	1.15	1.22	1.42	1.83	1.30	1.38	1.11	1.10			
135	0.97	1.10	1.42	1.70	0.83	1.67	1.43	0.87	1.19	1.28	1.52	1.82	1.11	1.67	1.17	1.15			
140	0.98	1.16	1.41	1.70	0.96	1.68	1.37	0.98	1.22	1.32	1.57	2.11	0.78	2.03	1.20	1.20			
145	1.12	1.30	1.50	1.86	1.03	1.78	1.35	1.14	1.38	1.45	1.78	2.43	1.06	2.62	1.39	1.33			
150	1.25	1.42	1.67	1.87	1.04	1.83	1.60	1.18	1.56	1.62	1.98	2.68	1.28	2.94	1.67	1.49			
155	1.36	1.52	1.70	1.84	1.12	1.83	1.68	1.28	1.79	1.77	2.04	2.68	1.56	2.21	1.84	1.69			
160	1.49	1.58	1.81	1.93	1.40	1.88	1.89	1.41	1.97	1.96	2.15	2.58	1.83	1.75	2.15	1.75			
165	1.79	1.91	2.22	2.17	1.41	2.01	2.21	1.73	2.07	2.05	2.18	2.63	1.90	1.69	2.16	2.00			
170	2.00	2.25	2.65	2.52	1.67	2.34	2.60	1.98	2.29	2.31	2.51	3.14	2.51	1.90	2.60	2.63			
175	2.40	2.60	3.04	2.67	1.81	2.50	2.79	2.26	2.57	2.58	2.80	3.23	2.69	1.92	2.65	2.90			
180	2.70	2.80	3.23	2.78	1.98	2.52	2.95	2.47	2.68	2.70	2.79	3.23	2.79	1.95	2.52	2.94			

7. THD and PF Test for model # 304Y0240W30LY

Voltage (V AC)	Frequency (Hz)	Power Factor	THD (%)
100.0	60	0.9995	2.69
120.0	60	0.9994	2.42
277.0	60	0.9613	6.71



8.Photo of sample

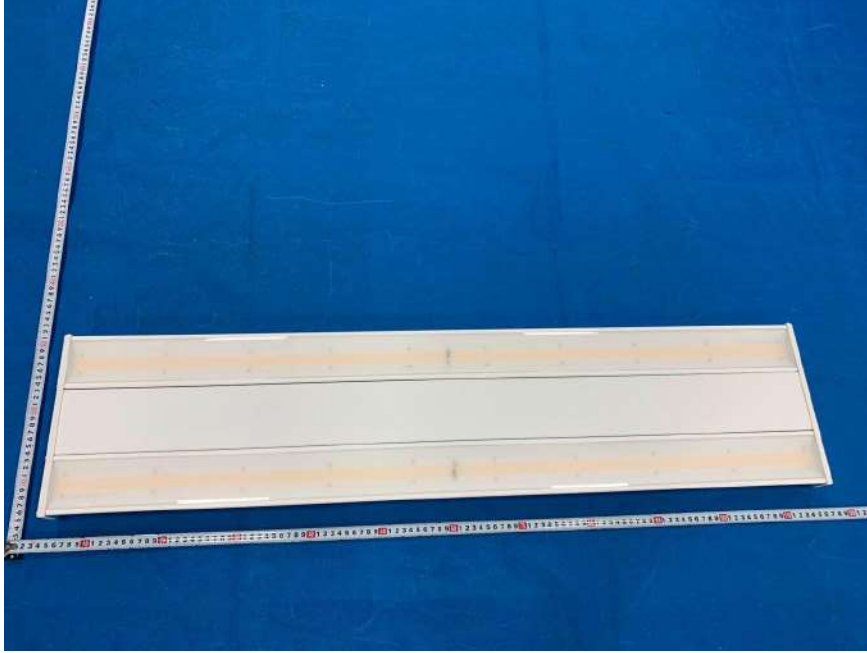


Figure 1



Figure 2



Guangdong Meide Testing Technology Co., Ltd.



Report Revision

Original report number CA2005479L 02009R1 dated at 2020-09-02 was recalled and declared as invalid by Guangdong Meide Testing Technology Co.,Ltd.Report number CA2005479L 02009R2 was issued on to replace report number CA2005479L 02009R1.

Report Number	Report Date	Contents
CA2005479L 02009	2020-07-09	Original report
CA2005479L 02009R1	2020-09-02	Add ANSI/IES TM-30-18 Color Rendition Report of model 304Y0240W50LY.
CA2005479L 02009R2	2020-09-10	Modify model 304Y0240W50LY x,y coordinates.

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