



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**..... : 302Y0100W30LY,302Y0100W50LY

**Brand Name**..... : **Rlux**

**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 02003R2

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

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

**Tested by:**

*Tim*

Tim Qian/ Test Engineer

**Checked by:**

*Luke lei*

Luke Lei/ Project Engineer

**Approved by:**

*Jessie*

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 302Y0100W30LY,302Y0100W50LY.Sample 302Y0100W30LY was numbered CA2005479L 02003-S01. Sample 302Y0100W50LY was numbered CA2005479L 02003-S02.The sample was received on 2020-06-29,is undamaged condition.

Model Tested:	302Y0100W30LY,302Y0100W50LY
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:	100W
Nominal CCT:	3000K,5000K
LED Manufacturer:	Edison Opto Corporation
LED Model No:	2T03X8WW23000001
LED Driver Manufacturer:	MEANWELL
LED Driver Model:	XLG-100-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).



## 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℃	Test orientation	Downward
Operate time(Min.)	100	stabilization time(Min.)	90

#### Model # 302Y0100W30LY 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	0.8564	102.6	0.9983	13763	134.14	2950

Ra	R9	Rf	Rg	x	y	u'	v'	Duv
84.4	13	86	97	0.4382	0.4005	0.2529	0.5202	-0.00159

#### Model # 302Y0100W50LY 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	0.8451	101.2	0.9979	14113	139.45	5166

Ra	R9	Rf	Rg	x	y	u'	v'	Duv
83.6	6	83	92	0.3409	0.3530	0.2081	0.4847	0.00246

### 5.2 Model # 302Y0100W30LY Color Rendering Index

<b>Ra</b>				
<b>84.4</b>				
<b>R1</b>	<b>R2</b>	<b>R3</b>	<b>R4</b>	<b>R5</b>
84	93	95	83	84
<b>R6</b>	<b>R7</b>	<b>R8</b>	<b>R9</b>	<b>R10</b>
92	83	61	13	85
<b>R11</b>	<b>R12</b>	<b>R13</b>	<b>R14</b>	<b>R15</b>
84	78	86	98	76



5.3 Model # 302Y0100W30LY ANSI/IES TM-30-18 Color Rendition Report

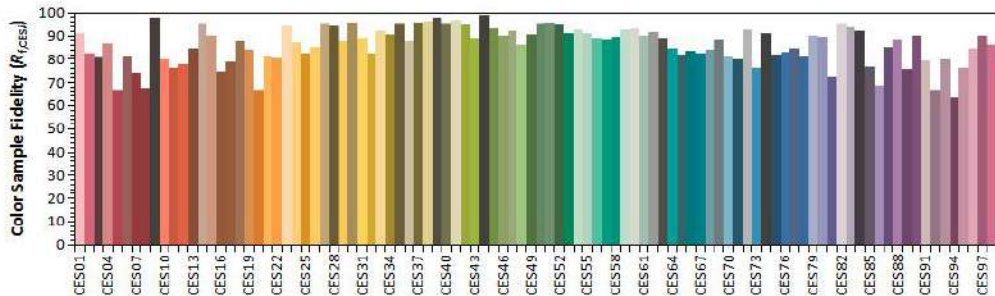
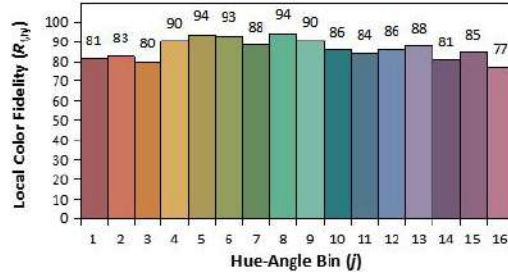
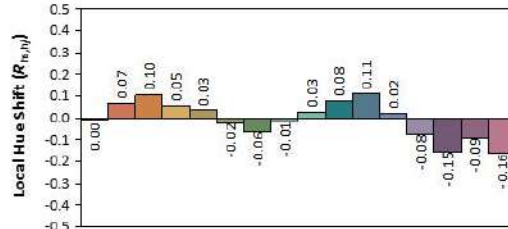
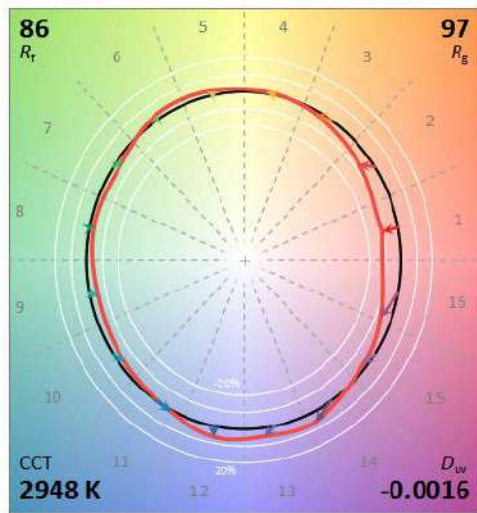
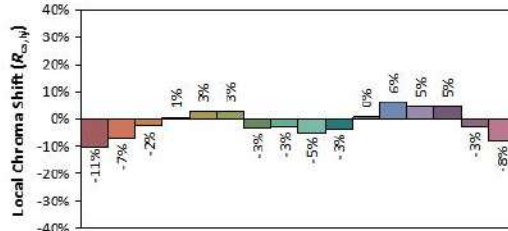
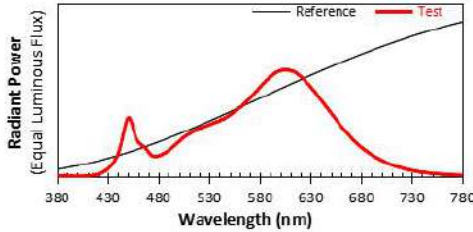
ANSI/IES TM-30-18 Color Rendition Report

Source: 2T03X8WW23000001

Manufacturer: ROYALUX EXPORTS

Date: 2020/9/2

Model: 302Y0100W30LY



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

x 0.4382  
y 0.4004  
u' 0.2530  
v' 0.5201

CIE 13.3-1995 (CRI)	
R <sub>a</sub>	84
R <sub>g</sub>	13

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



5.4 Model # 302Y0100W50LY ANSI/IES TM-30-18 Color Rendition Report

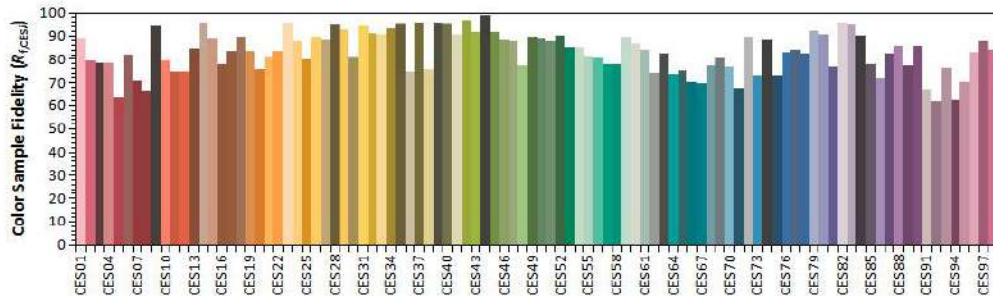
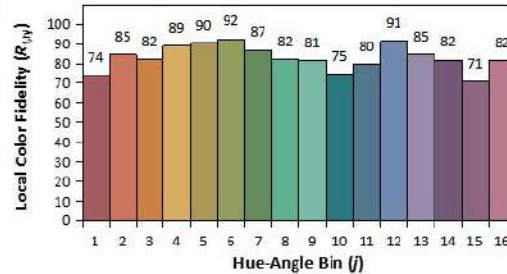
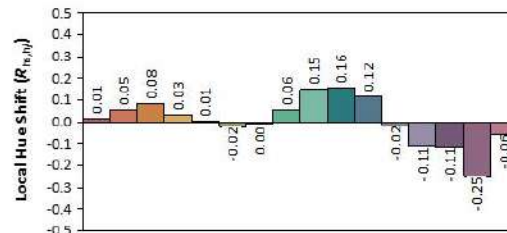
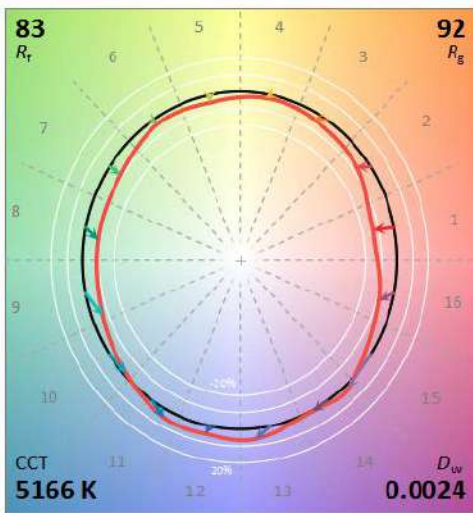
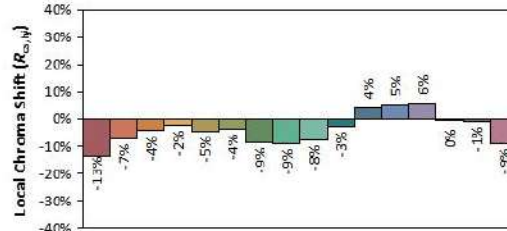
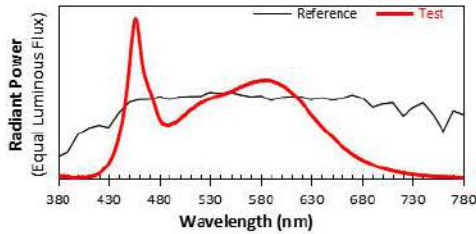
ANSI/IES TM-30-18 Color Rendition Report

Source: 2T03X8WW23000001

Manufacturer: ROYALUX EXPORTS

Date: 2020/9/2

Model: 302Y0100W50LY



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

$x$  0.3409  
 $y$  0.3530  
 $u'$  0.2081  
 $v'$  0.4847

CIE 13.3-1996  
(CRI)  
 $R_a$  84  
 $R_g$  6

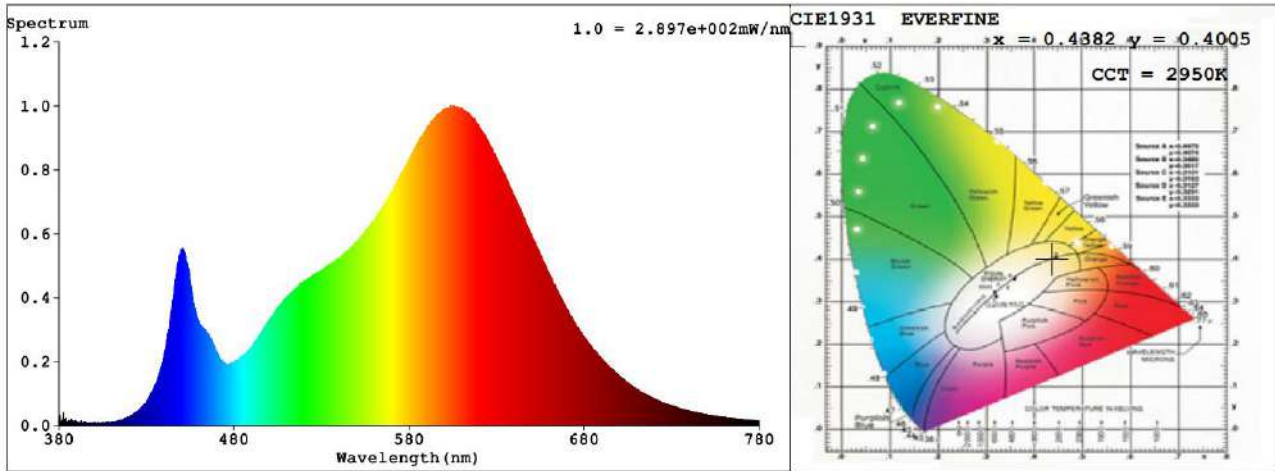
Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.



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### 5.5 Model # 302Y0100W30LY Relative Spectral Power Distribution



nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
380	0.018	414	0.0157	448	0.507	482	0.2028	516	0.4338
381	0.0102	415	0.0161	449	0.5353	483	0.2063	517	0.4338
382	0.0108	416	0.0171	450	0.5484	484	0.2145	518	0.4439
383	0.0026	417	0.0186	451	0.5507	485	0.2166	519	0.4437
384	0.0086	418	0.0212	452	0.5366	486	0.2235	520	0.4539
385	0.0068	419	0.0247	453	0.5092	487	0.2258	521	0.4539
386	0.0129	420	0.0249	454	0.4861	488	0.2325	522	0.4567
387	0.0154	421	0.0284	455	0.4476	489	0.2383	523	0.4596
388	0.0061	422	0.033	456	0.4139	490	0.2441	524	0.4646
389	0.0128	423	0.036	457	0.3814	491	0.253	525	0.4684
390	0.0069	424	0.0397	458	0.354	492	0.264	526	0.4719
391	0.0094	425	0.0441	459	0.3372	493	0.27	527	0.4727
392	0.0094	426	0.0505	460	0.3256	494	0.2775	528	0.4777
393	0.0055	427	0.0538	461	0.3141	495	0.285	529	0.4834
394	0.0049	428	0.0603	462	0.3082	496	0.2947	530	0.4834
395	0.0098	429	0.0665	463	0.2991	497	0.3039	531	0.4894
396	0.0058	430	0.0747	464	0.2923	498	0.3117	532	0.4929
397	0.0075	431	0.0829	465	0.2845	499	0.3214	533	0.4962
398	0.0037	432	0.0946	466	0.2775	500	0.3285	534	0.5022
399	0.0046	433	0.1041	467	0.27	501	0.3376	535	0.5054
400	0.0062	434	0.1133	468	0.2569	502	0.3438	536	0.5056
401	0.0045	435	0.1281	469	0.2461	503	0.3539	537	0.5131
402	0.0081	436	0.1398	470	0.2297	504	0.3627	538	0.5135
403	0.0054	437	0.1544	471	0.2237	505	0.3699	539	0.5182
404	0.0061	438	0.1747	472	0.2092	506	0.3757	540	0.5192
405	0.0062	439	0.1897	473	0.202	507	0.3819	541	0.5263
406	0.0054	440	0.2152	474	0.1974	508	0.3892	542	0.5333
407	0.009	441	0.2412	475	0.1915	509	0.3946	543	0.5358
408	0.0118	442	0.2721	476	0.1898	510	0.3994	544	0.5359
409	0.0079	443	0.3053	477	0.19	511	0.4032	545	0.5437
410	0.0101	444	0.3464	478	0.1921	512	0.4129	546	0.55
411	0.0096	445	0.3932	479	0.1947	513	0.4181	547	0.5557
412	0.0112	446	0.4297	480	0.1961	514	0.4204	548	0.5609
413	0.0111	447	0.4722	481	0.202	515	0.4281	549	0.5689





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nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
550	0.5714	599	0.9825	648	0.6192	697	0.1717	746	0.0383
551	0.5798	600	0.9856	649	0.609	698	0.1646	747	0.0361
552	0.5871	601	0.987	650	0.5971	699	0.1598	748	0.0351
553	0.5926	602	0.9945	651	0.5818	700	0.1563	749	0.034
554	0.5988	603	0.9897	652	0.5726	701	0.1499	750	0.0337
555	0.6082	604	0.992	653	0.5594	702	0.1463	751	0.0321
556	0.6135	605	0.9964	654	0.5483	703	0.1422	752	0.0314
557	0.6181	606	0.9909	655	0.5342	704	0.1354	753	0.0305
558	0.6264	607	0.9955	656	0.5215	705	0.1326	754	0.0302
559	0.6357	608	0.9896	657	0.5096	706	0.1295	755	0.0289
560	0.6433	609	0.9922	658	0.498	707	0.1241	756	0.0285
561	0.6505	610	0.9876	659	0.4828	708	0.1203	757	0.0276
562	0.6536	611	0.9848	660	0.474	709	0.1168	758	0.0271
563	0.6664	612	0.9819	661	0.4633	710	0.1136	759	0.0259
564	0.6771	613	0.9808	662	0.4495	711	0.1096	760	0.0253
565	0.6834	614	0.9766	663	0.4409	712	0.1051	761	0.0251
566	0.6922	615	0.969	664	0.4245	713	0.1032	762	0.024
567	0.704	616	0.9627	665	0.4215	714	0.1006	763	0.0229
568	0.7116	617	0.9588	666	0.4089	715	0.0974	764	0.022
569	0.7208	618	0.948	667	0.3971	716	0.0958	765	0.0216
570	0.7292	619	0.942	668	0.3867	717	0.0907	766	0.0209
571	0.7399	620	0.9331	669	0.3759	718	0.0894	767	0.0209
572	0.7523	621	0.9261	670	0.3656	719	0.0851	768	0.0207
573	0.7596	622	0.9201	671	0.3558	720	0.0845	769	0.0191
574	0.7704	623	0.9101	672	0.3422	721	0.0807	770	0.0191
575	0.7819	624	0.9004	673	0.3365	722	0.0793	771	0.0185
576	0.7941	625	0.888	674	0.3267	723	0.0758	772	0.0184
577	0.798	626	0.8745	675	0.3178	724	0.0731	773	0.0175
578	0.8113	627	0.8666	676	0.3082	725	0.0701	774	0.0174
579	0.8243	628	0.8592	677	0.3006	726	0.0684	775	0.0163
580	0.8314	629	0.8474	678	0.2931	727	0.0671	776	0.0158
581	0.844	630	0.8371	679	0.2846	728	0.0651	777	0.0155
582	0.8557	631	0.8244	680	0.2742	729	0.063	778	0.0158
583	0.8654	632	0.8135	681	0.2706	730	0.0612	779	0.0149
584	0.8727	633	0.8022	682	0.2602	731	0.06	780	0.0145
585	0.8827	634	0.7942	683	0.2541	732	0.0582		
586	0.8961	635	0.7795	684	0.2487	733	0.0573		
587	0.9021	636	0.77	685	0.2412	734	0.0544		
588	0.9083	637	0.7511	686	0.2338	735	0.0527		
589	0.9196	638	0.7424	687	0.2284	736	0.0501		
590	0.9334	639	0.7281	688	0.2196	737	0.049		
591	0.9386	640	0.7175	689	0.2151	738	0.0466		
592	0.9394	641	0.7066	690	0.2099	739	0.0461		
593	0.9525	642	0.6926	691	0.2026	740	0.0446		
594	0.9576	643	0.6825	692	0.1958	741	0.0449		
595	0.9651	644	0.6689	693	0.1914	742	0.0424		
596	0.9731	645	0.6553	694	0.1841	743	0.0409		
597	0.9737	646	0.6459	695	0.18	744	0.0398		
598	0.9798	647	0.6316	696	0.1754	745	0.039		



6. Goniophotometer Test results for model # 302Y0100W30LY

6.1 Test Data

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

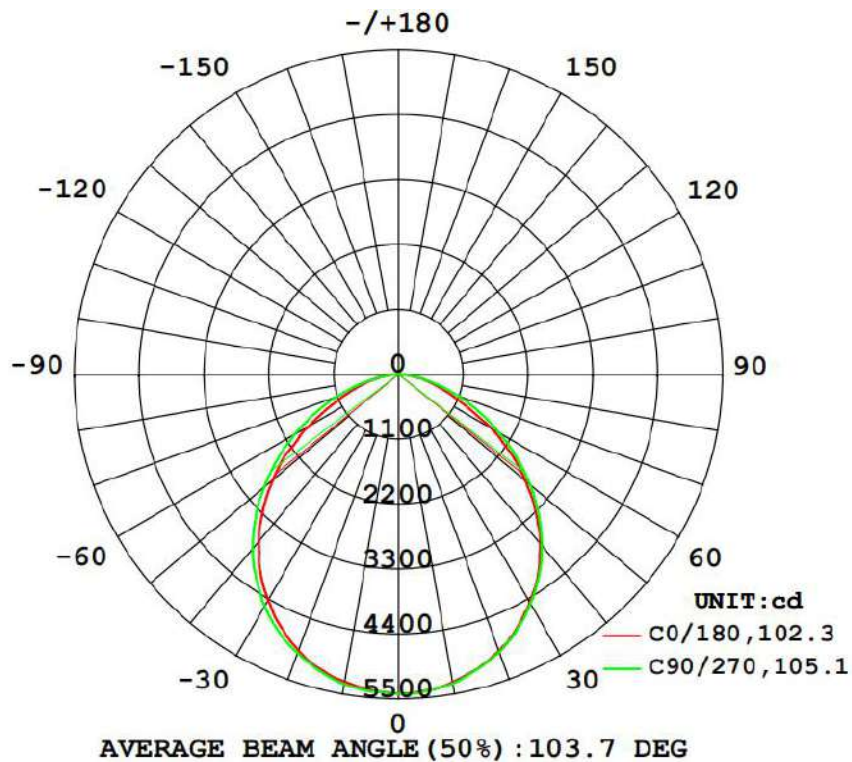
Electrical Measurement

Input Voltage (V)	Frequency (Hz)	Input Current(A)	Power Factor	Power(W)
120.0	60	0.8562	0.9985	102.5

Optical Measurement

Luminous Flux (lm)	Efficacy(lm/W)	ZL (20-50°)	Spacing Criteria (C0/180°)	Spacing Criteria (C90/270°)
13754	134.12	53.5%	1.22	1.25

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	#lum, lamp
10	5294	5312	5318	5283	5287	5297	5330	5326	0- 10	511.4	511.4	3.72, 3.72
20	4986	4994	5007	4974	4974	4999	5023	5018	10- 20	1461	1972	14.3, 14.3
30	4457	4497	4480	4450	4424	4495	4544	4527	20- 30	2194	4166	30.3, 30.3
40	3741	3734	3784	3714	3687	3774	3854	3798	30- 40	2592	6758	49.1, 49.1
50	2819	2875	2915	2827	2792	2878	2986	2937	40- 50	2571	9328	67.8, 67.8
60	1796	1939	1967	1893	1774	1937	2034	1983	50- 60	2139	11467	83.4, 83.4
70	880.7	972.3	1084	957.2	901.2	994.0	1131	984.1	60- 70	1413	12880	93.6, 93.6
80	338.7	341.8	355.6	339.5	347.7	349.2	371.0	348.8	70- 80	666.8	13567	98.6, 98.6
90	0.8618	0.9986	0.9158	0.8004	0.5674	0.5791	0.3834	0.4808	80- 90	151.0	13718	99.7, 99.7
100	1.610	1.526	2.849	1.718	3.032	3.061	3.901	2.387	90-100	1.509	13720	99.7, 99.7
110	2.927	3.147	4.468	2.755	4.825	5.540	5.321	3.913	100-110	3.228	13723	99.8, 99.8
120	4.348	4.957	4.490	4.375	6.338	8.014	7.442	5.540	110-120	4.807	13728	99.8, 99.8
130	5.289	6.105	7.798	6.010	8.135	8.872	10.65	5.920	120-130	5.715	13733	99.8, 99.8
140	6.428	6.392	9.693	6.298	9.173	9.353	11.12	6.298	130-140	5.921	13739	99.9, 99.9
150	7.938	7.060	10.65	6.298	10.88	11.35	13.69	8.592	140-150	5.563	13745	99.9, 99.9
160	9.173	7.635	8.651	8.108	12.58	12.40	12.36	9.637	150-160	4.571	13749	100, 100
170	12.01	12.67	13.77	12.21	14.37	15.08	16.35	13.84	160-170	3.209	13753	100, 100
180	16.83	17.36	18.06	14.03	16.55	15.64	16.54	14.99	170-180	1.393	13754	100, 100
DEG	LUMINOUS INTENSITY: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	24.3	25.8	24.6	26.0	26.2	24.6	26.0	24.9	26.3	26.5	
3H	25.2	26.5	25.5	26.8	27.0	25.8	27.1	26.1	27.3	27.6	
4H	25.5	26.8	25.8	27.0	27.3	26.2	27.4	26.5	27.7	27.9	
6H	25.7	26.9	26.1	27.2	27.5	26.4	27.6	26.7	27.8	28.1	
8H	25.8	26.9	26.1	27.2	27.5	26.4	27.6	26.8	27.8	28.1	
12H	25.8	26.9	26.2	27.2	27.5	26.4	27.5	26.8	27.8	28.1	
4H	2H	24.8	26.1	25.1	26.3	26.6	25.0	26.3	25.4	26.6	26.8
3H	25.8	27.0	26.2	27.2	27.6	26.4	27.5	26.7	27.8	28.1	
4H	26.3	27.3	26.6	27.6	27.9	26.9	27.9	27.3	28.2	28.6	
6H	26.6	27.5	27.0	27.8	28.2	27.2	28.1	27.6	28.4	28.8	
8H	26.7	27.5	27.1	27.9	28.3	27.3	28.1	27.7	28.5	28.8	
12H	26.8	27.5	27.2	27.9	28.3	27.3	28.0	27.7	28.4	28.8	
8H	4H	26.4	27.3	26.9	27.6	28.0	27.0	27.8	27.4	28.2	28.6
6H	26.9	27.6	27.3	28.0	28.4	27.4	28.1	27.8	28.5	28.9	
8H	27.0	27.6	27.5	28.1	28.5	27.5	28.1	28.0	28.6	29.0	
12H	27.1	27.7	27.6	28.1	28.6	27.6	28.1	28.1	28.5	29.0	
12H	4H	26.4	27.2	26.9	27.6	28.0	27.0	27.7	27.4	28.1	28.5
6H	26.9	27.5	27.4	27.9	28.4	27.4	28.0	27.9	28.4	28.9	
8H	27.1	27.6	27.6	28.0	28.5	27.6	28.1	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	+ 0.2 / - 0.4					+ 0.2 / - 0.4					
2.0H	+ 0.4 / - 0.5					+ 0.4 / - 0.4					

CIE Pub.117, 13754 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 9.1)



6.5 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	5409	5409	5409	5409	5409	5409	5409	5409	5409	5409	5409	5409	5409	5409	5409	5409			
5	5376	5386	5386	5398	5385	5388	5375	5365	5366	5364	5378	5387	5389	5397	5394	5389			
10	5294	5313	5312	5306	5318	5294	5283	5285	5287	5286	5297	5303	5330	5327	5326	5310			
15	5166	5172	5174	5176	5167	5151	5154	5164	5169	5166	5172	5183	5198	5207	5201	5190			
20	4986	5002	4994	4999	5007	4981	4974	4981	4974	4996	4999	4996	5023	5037	5018	5032			
25	4749	4761	4763	4767	4770	4746	4731	4727	4719	4748	4776	4775	4814	4795	4798	4795			
30	4457	4451	4497	4475	4480	4461	4450	4441	4424	4464	4495	4510	4544	4541	4527	4498			
35	4133	4126	4147	4153	4157	4142	4116	4094	4093	4114	4161	4184	4218	4213	4205	4167			
40	3741	3734	3734	3786	3784	3762	3714	3683	3687	3717	3774	3829	3854	3825	3798	3771			
45	3295	3311	3339	3364	3361	3324	3298	3252	3258	3294	3346	3392	3434	3411	3386	3347			
50	2819	2847	2875	2911	2915	2875	2827	2777	2792	2831	2878	2950	2986	2931	2937	2887			
55	2331	2367	2402	2424	2442	2401	2359	2308	2284	2346	2410	2466	2514	2454	2451	2405			
60	1796	1840	1939	1950	1967	1929	1893	1788	1774	1814	1937	1987	2034	2005	1983	1871			
65	1249	1300	1444	1499	1511	1477	1399	1288	1252	1322	1442	1527	1566	1551	1469	1319			
70	881	898	972	1082	1084	1059	957	902	901	927	994	1111	1131	1116	984	916			
75	585	597	620	687	693	663	619	599	608	616	638	705	722	695	634	605			
80	339	338	342	341	356	340	340	337	348	348	349	350	371	348	349	346			
85	143	135	125	113	108	112	120	127	139	135	122	113	107	115	127	141			
90	0.86	0.95	1.00	1.08	0.92	0.90	0.80	0.86	0.57	0.76	0.58	0.57	0.38	0.48	0.48	0.57			
95	0.57	0.76	0.76	1.42	1.70	1.33	0.86	0.76	0.86	1.24	1.46	2.09	2.19	1.71	1.24	1.15			
100	1.61	1.62	1.53	1.43	2.85	1.71	1.72	1.43	3.03	2.95	3.06	2.95	3.90	2.29	2.39	2.39			
105	1.98	2.09	2.57	2.37	3.89	1.90	1.72	1.53	3.69	3.81	4.11	4.10	4.85	3.24	3.06	3.05			
110	2.93	2.95	3.15	3.60	4.47	3.42	2.75	2.38	4.83	4.95	5.54	5.52	5.32	4.28	3.91	3.82			
115	3.31	3.71	4.38	4.65	4.94	4.66	3.05	3.05	5.68	6.18	6.87	6.47	7.41	5.23	4.68	4.86			
120	4.35	4.57	4.96	4.75	4.49	4.29	4.37	3.62	6.34	7.14	8.01	6.75	7.44	5.33	5.54	5.53			
125	4.63	4.75	5.62	6.36	7.30	5.90	4.96	4.48	7.29	8.18	8.59	7.99	9.41	6.09	5.82	6.20			
130	5.29	5.60	6.10	7.42	7.80	6.18	6.01	4.48	8.14	8.56	8.87	9.32	10.6	7.04	5.92	6.77			
135	5.86	6.18	6.39	9.13	8.72	7.80	6.30	4.96	8.80	8.94	8.87	10.5	10.4	8.37	6.01	6.96			
140	6.43	6.56	6.39	9.13	9.69	7.80	6.30	5.91	9.17	9.03	9.35	11.0	11.1	8.56	6.30	7.44			
145	7.75	7.51	7.06	9.13	10.4	7.80	6.30	6.01	9.46	9.80	10.7	13.1	13.1	9.61	7.25	7.82			
150	7.94	7.99	7.06	9.22	10.6	7.90	6.30	6.29	10.9	11.2	11.4	14.1	13.7	11.1	8.59	8.78			
155	8.98	8.75	7.06	8.65	8.84	7.99	6.39	7.44	11.5	12.3	11.9	14.1	13.4	11.9	9.35	9.25			
160	9.17	9.03	7.63	8.56	8.65	8.18	8.11	8.10	12.6	12.6	12.4	14.2	12.4	12.2	9.64	9.16			
165	10.5	10.4	9.52	9.41	10.9	9.41	9.83	9.15	12.8	13.0	12.8	14.9	13.7	14.0	9.93	9.54			
170	12.0	12.2	12.7	12.2	13.8	10.9	12.2	10.6	14.4	14.6	15.1	17.2	16.4	17.3	13.8	11.7			
175	14.0	14.9	15.4	15.1	17.0	13.9	13.2	12.6	15.4	15.5	15.8	17.1	16.7	17.5	14.5	14.4			
180	16.8	15.6	17.4	16.5	18.1	15.1	14.0	13.5	16.5	16.3	15.6	17.1	16.5	17.9	15.0	14.1			

7. THD and PF Test for model # 302Y0100W30LY

Voltage (V AC)	Frequency (Hz)	Power Factor	THD (%)
100.0	60	0.9989	2.89
120.0	60	0.9985	2.68
277.0	60	0.9552	7.24



8.Photo of sample

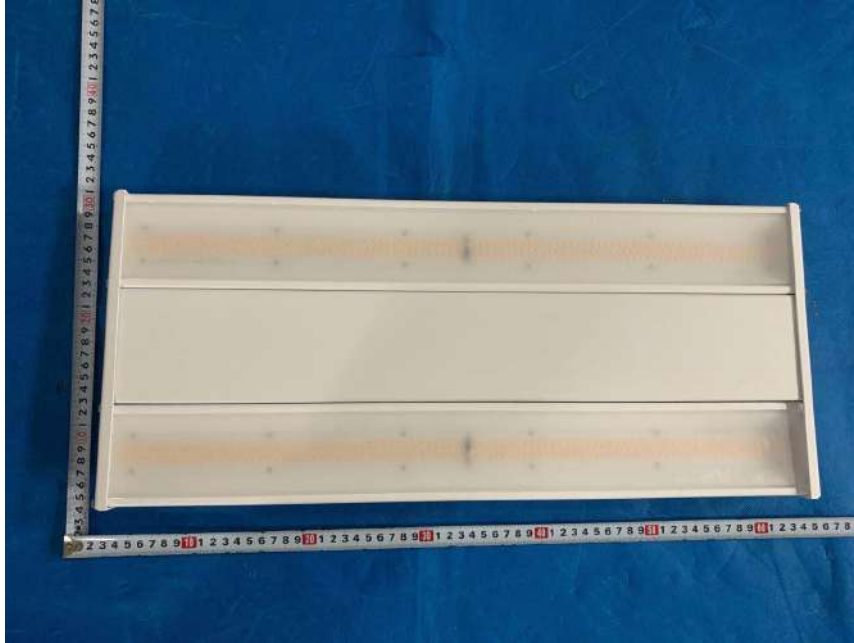


Figure 1

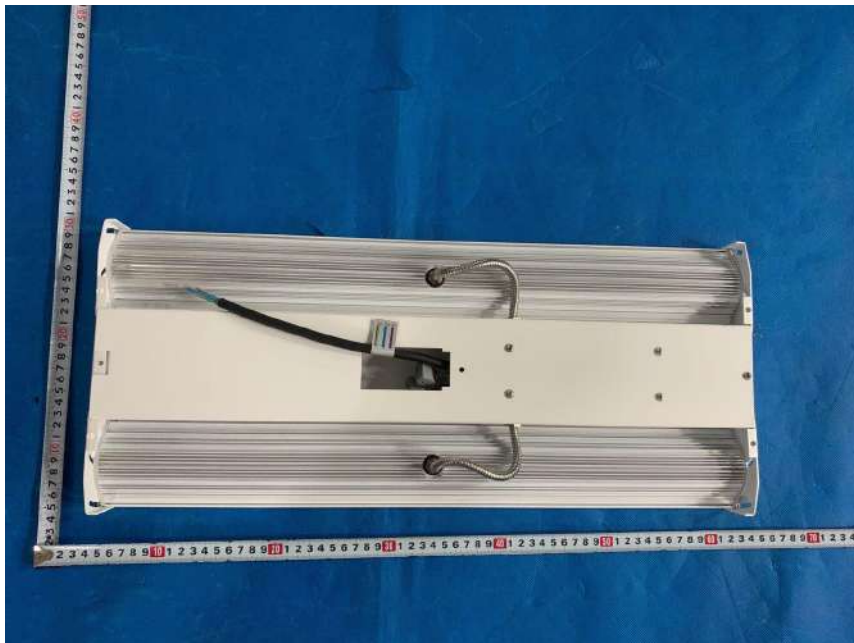


Figure 2



Guangdong Meide Testing Technology Co., Ltd.



### Report Revision

Original report number CA2005479L 02003R1 dated at 2020-09-02 was recalled and declared as invalid by Guangdong Meide Testing Technology Co.,Ltd.Report number CA2005479L 02003R2 was issued on to replace report number CA2005479L 02003R1.

Report Number	Report Date	Contents
CA2005479L 02003	2020-07-09	Original report
CA2005479L 02003R1	2020-09-02	Add ANSI/IES TM-30-18 Color Rendition Report of model 302Y0100W50LY.
CA2005479L 02003R2	2020-09-10	Modify model 302Y0100W50LY x,y coordinates.

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