



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..... : 302Y0150W30LY,302Y0150W50LY

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 02015R1

Test Date..... : July.27,2020 to July.28,2020

Report Date..... : September.02,2020

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 302Y0150W30LY,302Y0150W50LY.Sample 302Y0150W30LY was numbered CA2005479L 02005-S01. Sample 302Y0150W50LY was numbered CA2005479L 02005-S02.The sample was received on 2020-07-20,is undamaged condition.

Model Tested:	302Y0150W30LY,302Y0150W50LY
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:	150W
Nominal CCT:	3000K,5000K
LED Manufacturer:	Edison Opto Corporation
LED Model No:	2T03X8WW23000001
LED Driver Manufacturer:	MEANWELL
LED Driver Model:	XLG-150-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℃	Test orientation	Downward
Operate time(Min.)	100	stabilization time(Min.)	90

#### Model # 302Y0150W30LY 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	1.162	139.1	0.9973	18294	131.52	2966

Ra	R9	Rf	Rg	x	y	u'	v'	Duv
84.1	12	86	97	0.4371	0.4002	0.2523	0.5199	-0.00157

#### Model # 302Y0150W50LY 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	1.163	139.3	0.9981	18977	136.23	5016

Ra	R9	Rf	Rg	x	y	u'	v'	Duv
83.9	7	83	92	0.3451	0.3565	0.2096	0.4870	0.00240

### 5.2 Model # 302Y0150W30LY Color Rendering Index

<b>Ra</b>				
84.1				
<b>R1</b>	<b>R2</b>	<b>R3</b>	<b>R4</b>	<b>R5</b>
83	93	95	83	84
<b>R6</b>	<b>R7</b>	<b>R8</b>	<b>R9</b>	<b>R10</b>
92	82	60	12	84
<b>R11</b>	<b>R12</b>	<b>R13</b>	<b>R14</b>	<b>R15</b>
83	77	86	98	76



5.3 Model # 302Y0150W30LY ANSI/IES TM-30-18 Color Rendition Report

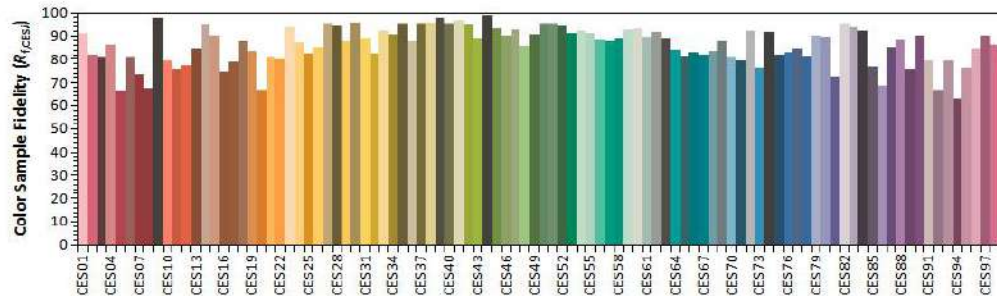
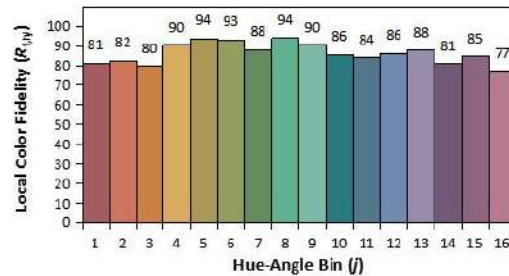
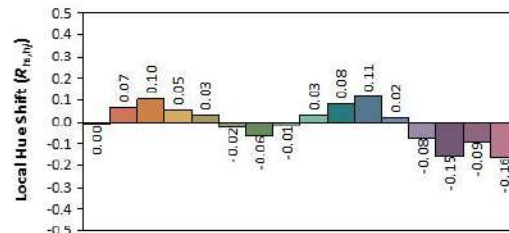
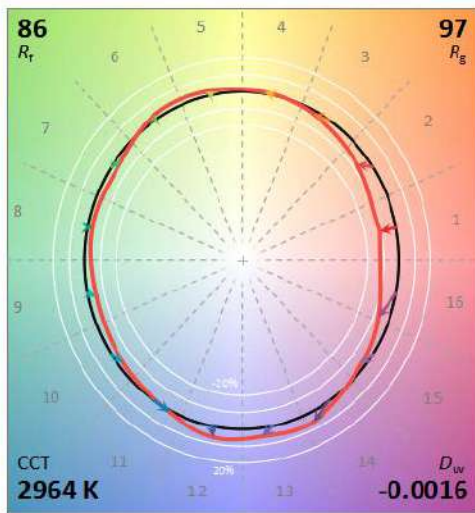
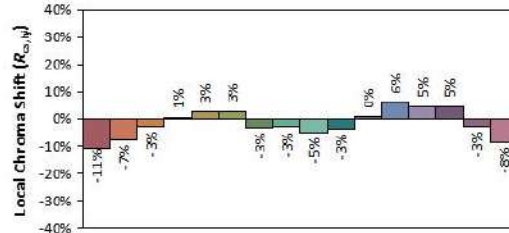
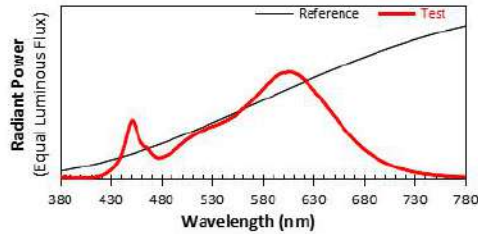
ANSI/IES TM-30-18 Color Rendition Report

Source: 2T03X8WW23000001

Manufacturer: ROYALUX EXPORTS

Date: 2020/9/2

Model: 302Y0150W30LY



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

$x$  0.4371  
 $y$  0.4001  
 $u'$  0.2524  
 $v'$  0.5198

CIE 13.3-1996  
(CRI)  
 $R_a$  84  
 $R_g$  12

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



5.4 Model # 302Y0150W50LY ANSI/IES TM-30-18 Color Rendition Report

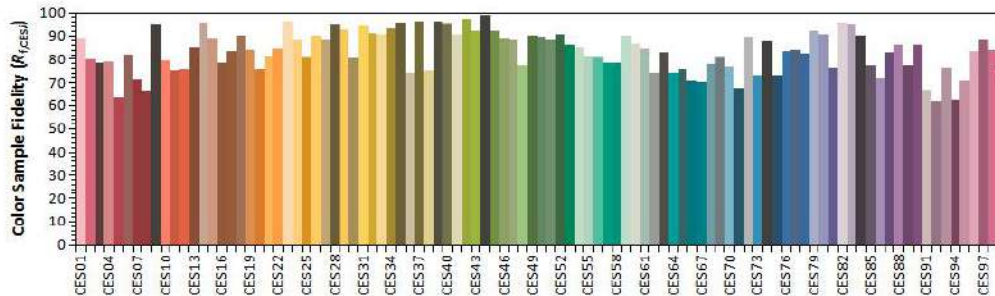
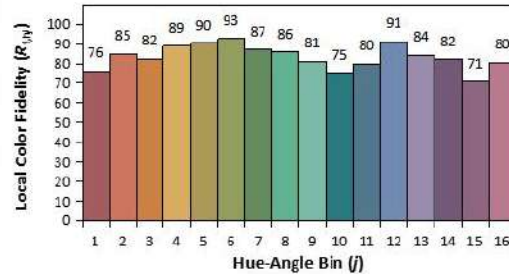
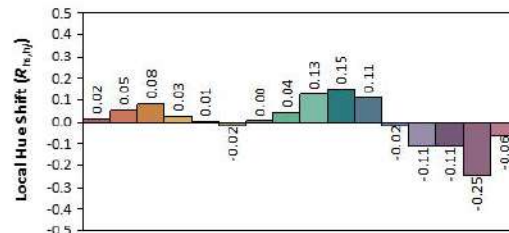
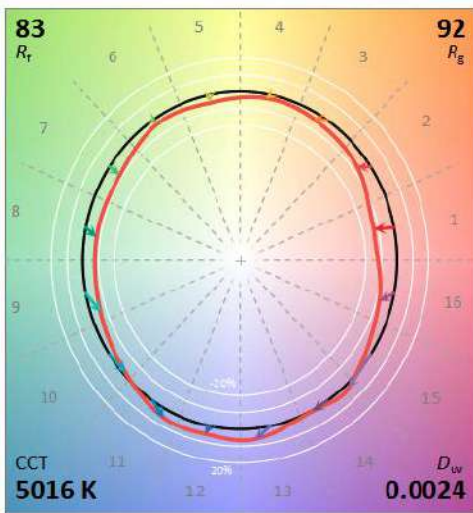
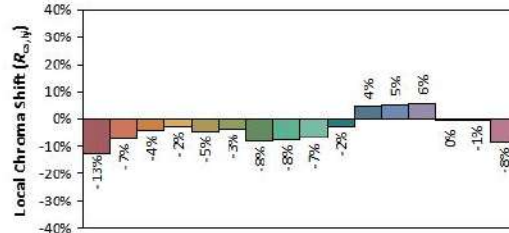
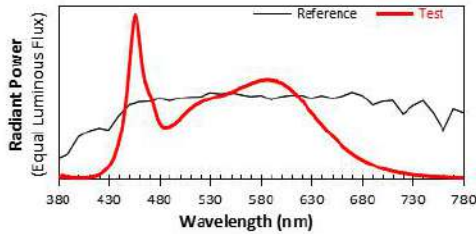
ANSI/IES TM-30-18 Color Rendition Report

Source: 2T03X8WW23000001

Manufacturer: ROYALUX EXPORTS

Date: 2020/9/2

Model: 302Y0150W50LY



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

x 0.3451, y 0.3563, u' 0.2096, v' 0.4869

CIE 13.3-1996 (CRI) Ra 84, Rg 7

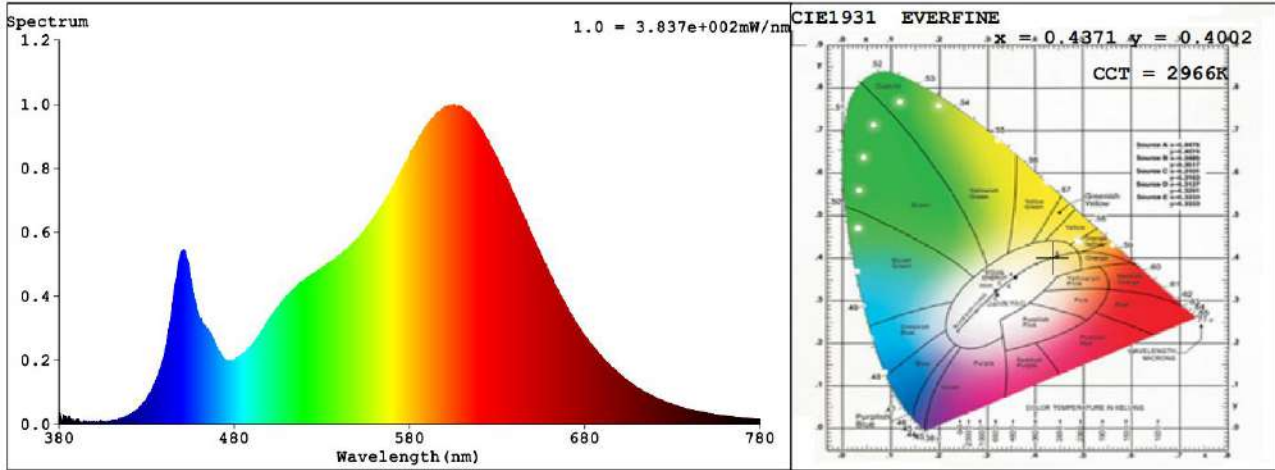
Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.



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### 5.5 Model # 302Y0150W30LY Relative Spectral Power Distribution



nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
380	0.0241	414	0.0168	448	0.493	482	0.208	516	0.4308
381	0.0148	415	0.0179	449	0.5165	483	0.2126	517	0.4389
382	0.0073	416	0.0206	450	0.5384	484	0.2149	518	0.442
383	0.0139	417	0.0209	451	0.5455	485	0.2235	519	0.4429
384	0.024	418	0.0222	452	0.5385	486	0.2248	520	0.4494
385	0.019	419	0.0276	453	0.5154	487	0.2304	521	0.4565
386	0.012	420	0.0268	454	0.4917	488	0.2345	522	0.4581
387	0.0107	421	0.0323	455	0.4619	489	0.2412	523	0.4595
388	0.0144	422	0.0351	456	0.4259	490	0.2449	524	0.4662
389	0.0096	423	0.039	457	0.3979	491	0.255	525	0.4712
390	0.015	424	0.0403	458	0.371	492	0.2636	526	0.4729
391	0.0167	425	0.0466	459	0.3535	493	0.2691	527	0.4792
392	0.0095	426	0.0526	460	0.3368	494	0.2802	528	0.4821
393	0.0029	427	0.0564	461	0.3286	495	0.2849	529	0.4838
394	0.0055	428	0.0672	462	0.3153	496	0.2947	530	0.4891
395	0.0081	429	0.0735	463	0.3037	497	0.3038	531	0.4928
396	0.005	430	0.0789	464	0.2999	498	0.3135	532	0.4914
397	0.0101	431	0.0898	465	0.2982	499	0.3193	533	0.4982
398	0.0072	432	0.0988	466	0.285	500	0.3254	534	0.502
399	0.0049	433	0.1085	467	0.281	501	0.3377	535	0.5048
400	0.0071	434	0.1224	468	0.2664	502	0.3427	536	0.5094
401	0.0078	435	0.1308	469	0.254	503	0.3522	537	0.5137
402	0.0073	436	0.1472	470	0.2419	504	0.3617	538	0.516
403	0.01	437	0.1612	471	0.2298	505	0.3654	539	0.5228
404	0.0042	438	0.176	472	0.2215	506	0.3746	540	0.5254
405	0.0103	439	0.1928	473	0.2142	507	0.3787	541	0.5307
406	0.0086	440	0.2184	474	0.2041	508	0.3871	542	0.5369
407	0.0082	441	0.241	475	0.2029	509	0.3907	543	0.5386
408	0.01	442	0.2717	476	0.1966	510	0.4004	544	0.545
409	0.0097	443	0.3044	477	0.1972	511	0.4058	545	0.5518
410	0.0118	444	0.3398	478	0.1968	512	0.4087	546	0.551
411	0.011	445	0.3811	479	0.1997	513	0.4176	547	0.5627
412	0.0114	446	0.4204	480	0.1997	514	0.4191	548	0.5674
413	0.0131	447	0.4555	481	0.2043	515	0.4274	549	0.5706





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nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
550	0.5791	599	0.9835	648	0.6154	697	0.1708	746	0.0383
551	0.5817	600	0.9868	649	0.6036	698	0.1647	747	0.0367
552	0.5873	601	0.9897	650	0.5897	699	0.1605	748	0.0356
553	0.5944	602	0.9907	651	0.5777	700	0.155	749	0.0346
554	0.6035	603	0.9859	652	0.5687	701	0.1515	750	0.0336
555	0.6099	604	0.9948	653	0.5559	702	0.1457	751	0.0335
556	0.6174	605	0.9957	654	0.54	703	0.1421	752	0.0323
557	0.6261	606	0.997	655	0.5305	704	0.1382	753	0.0324
558	0.6293	607	0.993	656	0.518	705	0.1329	754	0.0294
559	0.64	608	0.9933	657	0.5052	706	0.13	755	0.0298
560	0.6514	609	0.9941	658	0.4984	707	0.1265	756	0.0291
561	0.6518	610	0.9897	659	0.4856	708	0.1202	757	0.0274
562	0.6636	611	0.9863	660	0.4732	709	0.1183	758	0.0269
563	0.6712	612	0.9804	661	0.461	710	0.1141	759	0.0262
564	0.6828	613	0.9754	662	0.4504	711	0.1119	760	0.026
565	0.6894	614	0.9767	663	0.4368	712	0.1069	761	0.0253
566	0.6992	615	0.9688	664	0.4281	713	0.1047	762	0.0249
567	0.7085	616	0.9579	665	0.4172	714	0.1012	763	0.0231
568	0.7144	617	0.9573	666	0.4053	715	0.0983	764	0.0233
569	0.7284	618	0.942	667	0.3962	716	0.0938	765	0.023
570	0.735	619	0.9386	668	0.3851	717	0.0921	766	0.0222
571	0.7439	620	0.9282	669	0.3736	718	0.09	767	0.0217
572	0.757	621	0.922	670	0.3659	719	0.0865	768	0.0209
573	0.7623	622	0.9183	671	0.3545	720	0.0846	769	0.0204
574	0.7803	623	0.8999	672	0.3451	721	0.0813	770	0.02
575	0.7872	624	0.891	673	0.3347	722	0.0784	771	0.0185
576	0.7968	625	0.8834	674	0.3272	723	0.0762	772	0.0179
577	0.8069	626	0.8708	675	0.3169	724	0.0748	773	0.0181
578	0.8182	627	0.8612	676	0.3091	725	0.0729	774	0.017
579	0.829	628	0.8524	677	0.3011	726	0.0694	775	0.0174
580	0.8383	629	0.8387	678	0.2906	727	0.0676	776	0.017
581	0.8468	630	0.8318	679	0.2861	728	0.066	777	0.0163
582	0.8596	631	0.8214	680	0.2742	729	0.0638	778	0.0162
583	0.8701	632	0.802	681	0.2689	730	0.0615	779	0.0151
584	0.8819	633	0.7918	682	0.259	731	0.0599	780	0.0148
585	0.8899	634	0.7828	683	0.2547	732	0.0589		
586	0.8993	635	0.774	684	0.2455	733	0.0566		
587	0.9053	636	0.7665	685	0.2412	734	0.0548		
588	0.9132	637	0.7518	686	0.2349	735	0.0533		
589	0.9256	638	0.7397	687	0.2279	736	0.0515		
590	0.9307	639	0.7214	688	0.2213	737	0.0505		
591	0.9396	640	0.7126	689	0.215	738	0.0481		
592	0.9427	641	0.7019	690	0.2091	739	0.0463		
593	0.9555	642	0.6883	691	0.2022	740	0.0462		
594	0.9551	643	0.6744	692	0.1955	741	0.0448		
595	0.9637	644	0.6614	693	0.1907	742	0.0425		
596	0.9725	645	0.6501	694	0.1865	743	0.0418		
597	0.9758	646	0.6395	695	0.1804	744	0.0411		
598	0.9811	647	0.6268	696	0.1748	745	0.04		



### 6. Goniophotometer Test results for model # 302Y0150W30LY

#### 6.1 Test Data

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

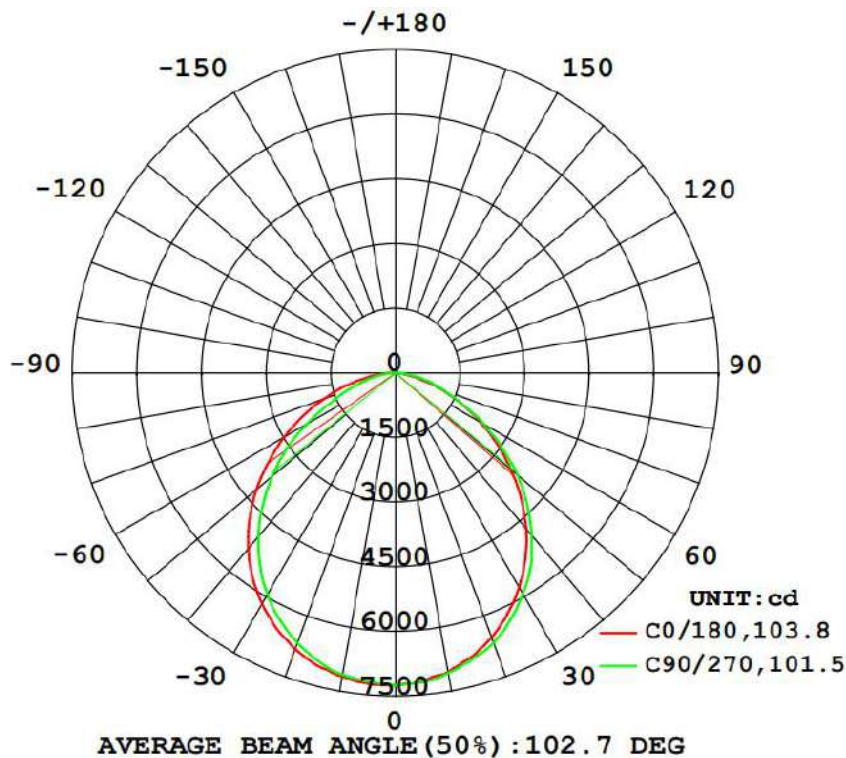
#### Electrical Measurement

Input Voltage (V)	Frequency (Hz)	Input Current(A)	Power Factor	Power(W)
120.0	60	1.1624	0.9979	139.2

#### Optical Measurement

Luminous Flux (lm)	Efficacy(lm/W)	ZL (20-50°)	Spacing Criteria (C0/180°)	Spacing Criteria (C90/270°)
18261.9	131.19	53.4%	1.27	1.22

#### 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	7044	7032	7074	7153	7155	7141	7110	7047	0- 10	683.9	683.9	3.74, 3.74
20	6530	6534	6666	6750	6819	6794	6663	6567	10- 20	1950	2634	14.4, 14.4
30	5748	5765	5914	6123	6198	6136	5947	5799	20- 30	2921	5555	30.4, 30.4
40	4723	4748	4913	5172	5320	5214	4957	4765	30- 40	3434	8989	49.2, 49.2
50	3514	3498	3701	4023	4217	4066	3742	3560	40- 50	3391	12380	67.8, 67.8
60	2269	2234	2361	2765	2984	2826	2392	2300	50- 60	2817	15197	83.2, 83.2
70	1144	1088	1208	1546	1785	1567	1199	1098	60- 70	1876	17073	93.5, 93.5
80	267.0	319.0	456.3	613.7	730.2	616.1	454.9	327.6	70- 80	923.7	17997	98.5, 98.5
90	1.119	1.120	0.9583	32.57	56.62	52.11	1.203	1.293	80- 90	217.0	18214	99.7, 99.7
100	4.552	2.045	2.480	2.794	3.523	2.382	1.250	3.405	90-100	3.671	18218	99.8, 99.8
110	7.974	3.870	5.043	5.432	6.317	4.537	3.549	5.757	100-110	4.124	18222	99.8, 99.8
120	9.272	6.905	7.503	8.436	8.712	6.767	5.259	7.654	110-120	6.179	18228	99.8, 99.8
130	13.73	9.230	9.626	9.821	10.87	7.668	6.954	9.261	120-130	7.509	18236	99.9, 99.9
140	13.78	8.620	10.66	10.42	12.55	8.015	8.755	9.552	130-140	7.699	18243	99.9, 99.9
150	13.07	9.912	12.98	13.11	14.31	10.19	10.51	10.91	140-150	6.888	18250	99.9, 99.9
160	13.83	11.50	15.50	15.81	14.66	12.58	11.24	11.57	150-160	5.870	18256	100, 100
170	18.13	15.58	18.15	17.74	16.44	16.47	14.76	17.40	160-170	4.131	18260	100, 100
180	21.32	21.32	19.26	19.26	19.26	19.26	21.32	21.32	170-180	1.764	18262	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	24.8	26.2	25.0	26.4	26.6	24.9	26.3	25.2	26.6	26.8	
3H	25.8	27.1	26.0	27.3	27.6	25.8	27.2	26.1	27.4	27.7	
4H	26.0	27.3	26.3	27.5	27.8	26.2	27.5	26.5	27.7	28.0	
6H	26.1	27.3	26.4	27.6	27.8	26.4	27.6	26.8	27.9	28.2	
8H	26.1	27.2	26.4	27.5	27.8	26.5	27.7	26.8	27.9	28.2	
12H	26.0	27.1	26.4	27.4	27.7	26.5	27.6	26.9	27.9	28.2	
4H	2H	25.2	26.5	25.5	26.7	27.0	25.3	26.5	25.6	26.8	27.1
3H	26.3	27.4	26.7	27.7	28.0	26.4	27.5	26.7	27.8	28.1	
4H	26.6	27.7	27.0	28.0	28.3	26.8	27.8	27.2	28.2	28.5	
6H	26.8	27.7	27.2	28.0	28.4	27.2	28.1	27.6	28.4	28.8	
8H	26.8	27.6	27.2	28.0	28.4	27.3	28.1	27.7	28.5	28.9	
12H	26.7	27.5	27.2	27.9	28.3	27.3	28.1	27.7	28.5	28.9	
8H	4H	26.7	27.6	27.2	27.9	28.3	26.9	27.8	27.3	28.1	28.5
6H	26.9	27.6	27.4	28.0	28.5	27.3	28.0	27.8	28.4	28.9	
8H	27.0	27.6	27.4	28.0	28.5	27.5	28.1	27.9	28.5	29.0	
12H	26.9	27.5	27.4	27.9	28.4	27.6	28.1	28.1	28.5	29.0	
12H	4H	26.7	27.5	27.2	27.9	28.3	26.9	27.7	27.3	28.0	28.5
6H	26.9	27.6	27.4	28.0	28.4	27.3	27.9	27.8	28.4	28.8	
8H	27.0	27.5	27.5	27.9	28.4	27.5	28.0	28.0	28.5	28.9	
Variations with the observer position at spacings:											
S = 1.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.3					
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.3					
2.0H	+ 0.5 / - 0.5					+ 0.6 / - 0.6					

CIE Pub.117, 18262 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 10.1)



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	7254	7254	7254	7254	7254	7254	7254	7254	7254	7254	7254	7254	7254	7254	7254	7254			
5	7170	7169	7175	7186	7205	7224	7240	7235	7240	7209	7218	7195	7191	7188	7168	7164			
10	7044	7030	7032	7047	7074	7111	7153	7171	7155	7144	7141	7125	7110	7087	7047	7022			
15	6822	6810	6812	6842	6886	6932	6982	7028	7029	6996	7016	6980	6928	6899	6866	6808			
20	6530	6513	6534	6604	6666	6722	6750	6798	6819	6799	6794	6729	6663	6626	6567	6531			
25	6162	6143	6205	6259	6320	6429	6474	6513	6542	6527	6491	6422	6340	6278	6227	6193			
30	5748	5714	5765	5835	5914	6014	6123	6157	6198	6190	6136	6052	5947	5869	5799	5773			
35	5260	5241	5269	5368	5481	5588	5683	5739	5789	5779	5708	5601	5480	5395	5316	5281			
40	4723	4722	4748	4799	4913	5057	5172	5268	5320	5292	5214	5094	4957	4859	4765	4737			
45	4123	4116	4133	4209	4323	4476	4636	4747	4792	4742	4658	4540	4367	4278	4168	4138			
50	3514	3469	3498	3572	3701	3864	4023	4175	4217	4158	4066	3926	3742	3650	3560	3523			
55	2878	2856	2876	2888	3013	3227	3393	3530	3602	3550	3453	3292	3087	2984	2931	2888			
60	2269	2250	2234	2232	2361	2550	2765	2903	2984	2922	2826	2623	2392	2303	2300	2269			
65	1690	1669	1631	1615	1701	1911	2136	2314	2368	2303	2186	1934	1688	1633	1688	1703			
70	1144	1131	1088	1127	1208	1337	1546	1715	1785	1738	1567	1330	1199	1130	1098	1153			
75	660	646	668	724	819	909	1013	1185	1239	1191	1018	901	788	728	677	657			
80	267	275	319	380	456	537	614	692	730	692	616	538	455	391	328	281			
85	35.3	44.0	68.9	115	180	233	273	303	320	306	281	243	189	136	80.3	48.8			
90	1.12	1.19	1.12	1.05	0.96	5.09	32.6	55.0	56.6	59.8	52.1	13.9	1.20	1.29	1.29	1.51			
95	3.20	1.62	1.57	1.15	1.44	1.50	1.38	1.44	1.04	1.25	1.29	1.48	1.12	1.39	2.38	2.49			
100	4.55	2.84	2.04	1.56	2.48	2.62	2.79	2.71	3.52	2.41	2.38	2.30	1.25	2.47	3.41	3.94			
105	6.15	4.75	2.93	2.51	3.61	3.82	3.90	3.97	4.96	3.40	3.34	3.32	2.36	3.62	4.59	5.43			
110	7.97	6.25	3.87	3.59	5.04	5.24	5.43	5.47	6.32	4.62	4.54	4.55	3.55	4.71	5.76	6.90			
115	7.52	6.72	5.21	4.33	6.20	6.72	7.07	6.74	5.92	5.73	5.68	5.84	4.32	5.79	6.68	7.54			
120	9.27	7.39	6.90	5.35	7.50	8.18	8.44	7.64	8.71	6.54	6.77	6.82	5.26	6.44	7.65	8.42			
125	12.2	9.01	8.03	5.96	8.66	9.36	9.27	7.99	9.36	7.01	7.42	7.72	6.25	7.30	8.37	10.3			
130	13.7	10.4	9.23	6.73	9.63	10.1	9.82	9.68	10.9	8.43	7.67	8.34	6.95	7.94	9.26	12.4			
135	13.9	10.5	9.39	7.19	10.2	10.3	10.2	11.0	12.3	9.47	7.83	8.58	7.78	8.91	9.45	12.6			
140	13.8	10.8	8.62	8.17	10.7	10.7	10.4	11.3	12.6	9.91	8.02	9.04	8.76	9.46	9.55	12.5			
145	13.3	11.2	8.19	8.64	11.6	11.7	11.5	12.4	13.3	10.8	8.92	9.83	10.2	10.7	10.2	12.6			
150	13.1	11.4	9.91	9.84	13.0	12.8	13.1	14.4	14.3	12.1	10.2	11.0	10.5	11.4	10.9	12.6			
155	13.4	12.3	10.5	11.1	13.9	14.3	14.5	15.5	14.7	13.4	11.4	12.0	11.4	11.9	11.3	12.7			
160	13.8	12.8	11.5	12.2	15.5	15.4	15.8	15.6	14.7	14.2	12.6	12.4	11.2	12.2	11.6	12.8			
165	16.5	14.2	13.5	14.5	15.8	15.8	15.9	15.5	14.7	14.3	13.2	12.7	14.0	14.6	13.9	14.3			
170	18.1	16.5	15.6	17.3	18.2	18.3	17.7	17.1	16.4	17.9	16.5	15.1	14.8	16.4	17.4	17.7			
175	20.4	18.2	18.6	20.6	19.5	20.2	19.5	18.8	18.0	19.1	19.3	17.9	16.8	18.1	19.5	20.1			
180	21.3	21.3	21.3	21.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	21.3	21.3	21.3	21.3			

7. THD and PF Test for model # 302Y0150W30LY

Voltage (V AC)	Frequency (Hz)	Power Factor	THD (%)
100.0	60	0.9986	4.08
120.0	60	0.9979	3.98
277.0	60	0.9534	6.87



8.Photo of sample



Figure 1



Figure 2



Guangdong Meide Testing Technology Co., Ltd.



### Report Revision

Original report number CA2005479L 02015 dated at 2020-07-28 was recalled and declared as invalid by Guangdong Meide Testing Technology Co.,Ltd.Report number CA2005479L 02015R1 was issued on to replace report number CA2005479L 02015.

Report Number	Report Date	Contents
CA2005479L 02015	2020-07-28	Original report
CA2005479L 02015R1	2020-09-02	Add ANSI/IES TM-30-18 Color Rendition Report of model 302Y0150W50LY.

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