

**ANSI/IES LM-79-19**  
**MEASUREMENT AND TEST REPORT**  
For

**GREEN CREATIVE LTD**

Room 3603, Level 36, Tower 1, Enterprise Square Five, 38 Wang Chiu Road, Kowloon Bay, Kowloon,  
Hong Kong, China

**Test Model: 11PAR30DIM/935FL40/SL**

<b>Report Type:</b>	Electrical and Photometric tests including: Luminous Flux, Chromaticity, Luminous Intensity Distribution, THD
<b>Reviewed By:</b>	Hill Liu <i>Hill Liu</i>
<b>Report Number:</b>	KS2230727-43622E-EE
<b>Test Date:</b>	2023-07-26 to 2023-07-27
<b>Report Date:</b>	2023-08-25
<b>Approved by:</b>	Blake Zhang / EE Engineer
<b>Prepared By:</b>	Bay Area Compliance Laboratories Corp. (Shenzhen) 5/F(B-West) -7/F, the 3rd Phase of Wan Li Industrial Building D, Shihua Road, Futian Free Trade Zone Shenzhen, Guangdong, China. Tel: +86-755-33320018 Fax: +86-755-33320008
<b>Test Facility:</b>	Test facility was located at No.12, Pulong East 1 <sup>st</sup> Road, Tangxia Town, Dongguan, Guangdong, China.

**Note:** This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.(Shenzhen). This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, or any agency of the U.S. Government.

## 1. Product Description#

### General Information:

Two test samples were in good condition and received on 2023-07-27. One was tested in integrating sphere and the other was tested in goniophotometer

Model Tested:	11PAR30DIM/935FL40/SL
Manufacturer:	GREEN CREATIVE LTD
Brand Name:	GREEN CREATIVE
Product Designation:	Directional LED Lamp
Burning Time Before Test:	0hour(For New Products)

### Rated Values:

Rated Voltage/Frequency:	120V AC 60Hz
Rated Power:	11W
Nominal CCT:	3500K
Nominal Lumen Output:	990lm

## 2. Standards Used

- ANSI/IES LM-79-19: Approved method: Optical and Electrical Measurements of Solid-State Lighting Products
- ANSI C82.77-10-2014: Harmonic Emission Limits – Related Power Quality Requirements for Lighting
- \*IES TM-30-18: IES Method for Evaluating Light Source Color Rendition (This method is not in NVLAP accreditation scope)

### 3. Description of Test Equipment

Device	Manufacture	Model No	Serial No	Calibration date	Calibration due date
2.0m integrating sphere	EVERFINE	R98	11010018	2022-11-10	2023-11-09
spectroradiometer	EVERFINE	HAAS-2000	G112048TS81331121	2022-11-10	2023-11-09
Digital Power Meter	EVERFINE	PF2010A	1011004	2022-11-10	2023-11-09
Digital CC&CV DC Power Supply	EVERFINE	WY305-V1	1101047	2022-11-10	2023-11-09
Standard Light Source	EVERFINE	D204	N/A	2023-05-12	2025-05-11
Special zero-voltage synchronous switching AC	EVERFINE	DPS1010-YF	1011001T	2022-11-10	2023-11-09
AC POWER SUPPLY	EVERFINE	VPS1030 PWM	1012017	2022-11-16	2023-11-15
Digital CC&CV DC Power Supply	EVERFINE	WY12010	1009009	2022-11-10	2023-11-09
Digital power meter	YOKOGAWA	WT-210	91j926132	2022-11-10	2023-11-09
full-field speed goniophotometer	EVERFINE	GO-R5000	YG108492N10120001	2022-11-10	2023-11-09
wireless remote thermohygrometer	N/A	AOK-5017B	N/A	2022-11-10	2023-11-09
Standard Light Source	EVERFINE	D908	1012003	2023-05-12	2025-05-11

Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attested that all calibration has been performed using suitable standards traceable to National Primary Standards and International System of Units (SI).

## 4. Test Method

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 is maintained between 10% and 65%. The air flow around the SSL product is less than 0.2m/s.

### Integrating Sphere System

The system includes AC power source, digital power meter, DC power supply, Spectroradiometer, and integrating sphere. The integrating sphere system is calibrated by standard spectrum light source before measurement.

$4\pi$  geometry was used during measurement. The product was operated in its intended orientation in application and was recorded in this report.

The uncertainty of the light output (luminous flux) measurements is  $U=2.1\%$  ( $K=2$ ), at the 95% confidence level. The uncertainty of the correlated color temperature measurements is  $U=22\text{K}$  ( $K=2$ ), at the 95% confidence level. The uncertainty of the CRI is  $U=2.1(K=2)$ , at the 95% confidence level.

The uncertainty of power meter AC current  $U=0.19\%$  of rdg, AC Voltage  $U=0.18\%$  of rdg, Power  $U=0.46\%$  ( $K=2$ ), at the 95% confidence level.

### Goniophotometer System

The goniophotometer system is calibrated by standard light source before measurement.

Type C goniophotometer was used for measuring total luminous flux, luminous intensity distribution, and color spatial uniformity. The product was operated in its intended orientation in application and was recorded in this report. The vertical angle ( $\gamma$ ) test intervals were set no more than 1 degree while data for 5 degree intervals is reported. The horizontal angle (C plane) test intervals were set no more than 22.5 degree.

The uncertainty of the luminous intensity is  $U=2.00\%$  ( $K=2$ ), at the 95% confidence level.

### Additional Test

The Additional Test item may not be covered by ANSI/IES LM-79-2019. Additional test including power factor, off-state power and THD, was measured by Digital Power Meter after stabilized at  $25^{\circ}\text{C} \pm 1.2^{\circ}\text{C}$ . Test voltage for THD and power factor test would be equal to rated voltage or, in case of a voltage range, maximum value of that range.

The uncertainty of power meter AC current  $U=0.19\%$  of rdg, AC Voltage  $U=0.18\%$  of rdg, Power  $U=0.46\%$  ( $K=2$ ), at the 95% confidence level.

### Fidelity Index and Gamut Index Calculation

The  $R_i$ ,  $R_g$  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.

## 5. Test Result

### [Integrating Sphere System]

The Stabilization time: **30 minutes**

Total operating time for integrating sphere test: **1.0 hour**

Test orientation: **Base Up**

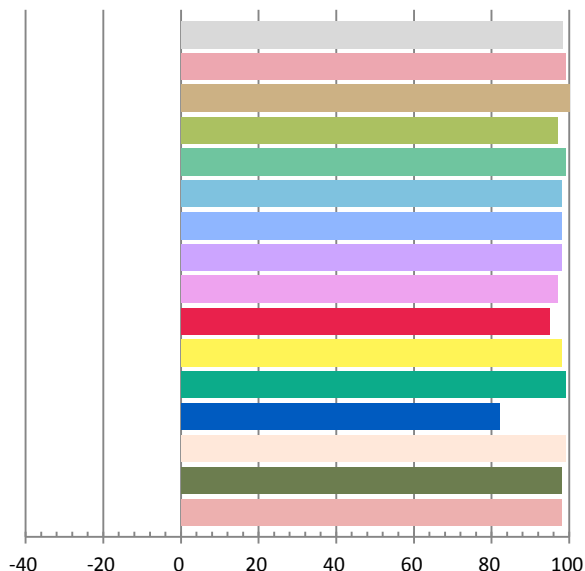
### Photometric and Electrical Measurement Result

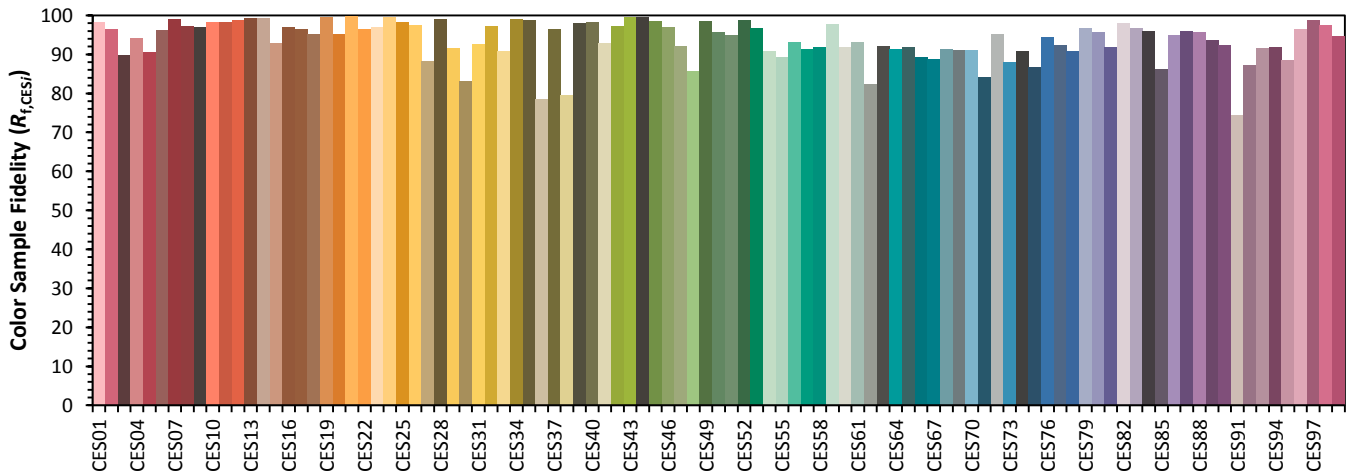
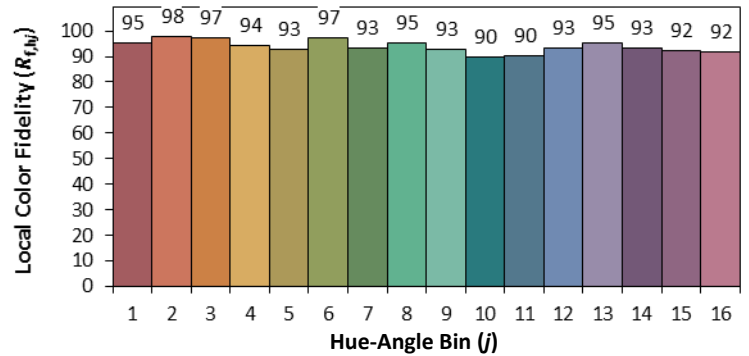
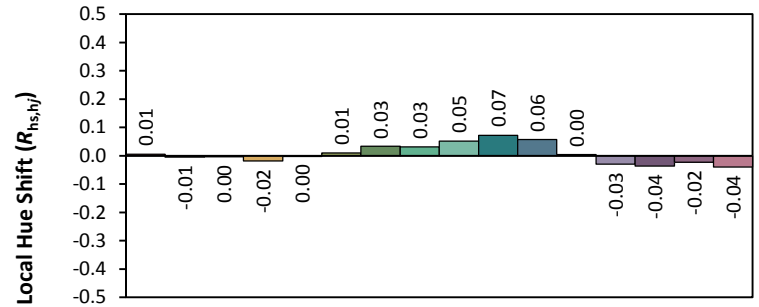
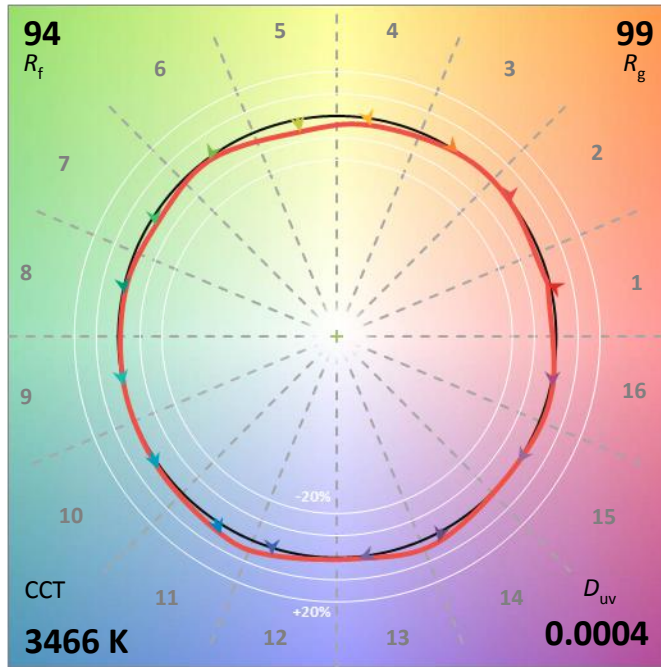
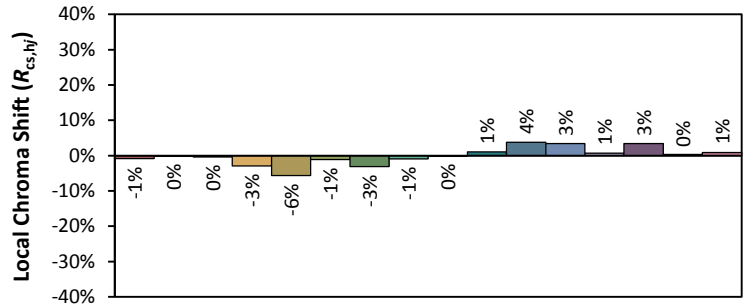
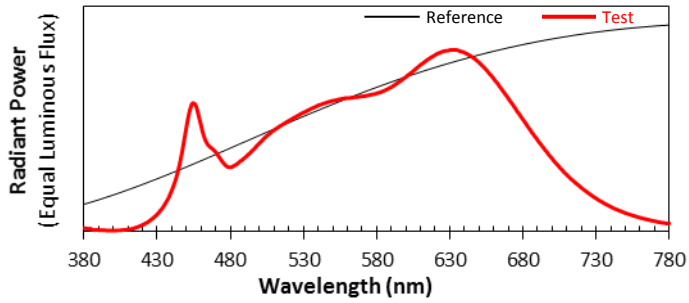
Voltage (V)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	Luminous Flux(lm)	Efficacy (lm/W)
120.0	60	0.09194	10.51	0.9521	990.97	94.31

Radiant Flux (W)	CCT (K)	Duv	x	y	u'	v'
3.635	3466	0.000385	0.4076	0.3928	0.2364	0.5125

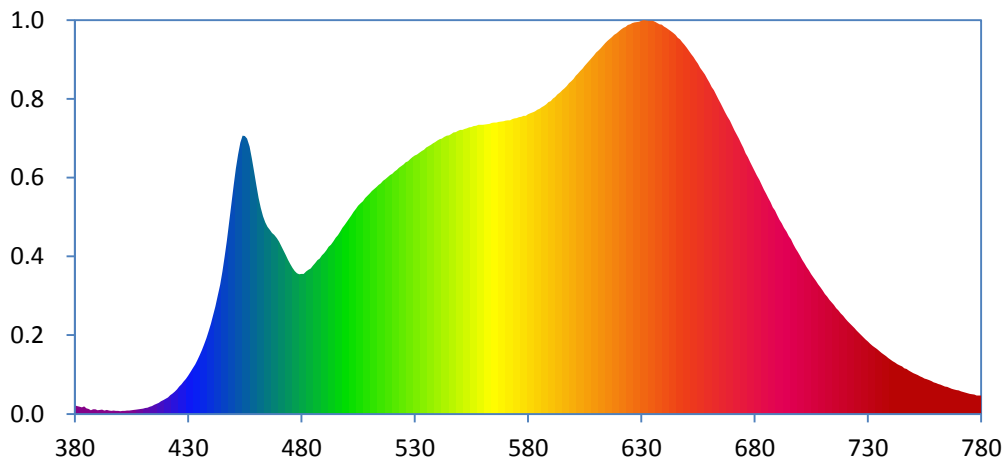
### Color Rendering Index

<b>Ra</b>			
<b>98.3</b>			
<b>R1</b>	<b>R2</b>	<b>R3</b>	<b>R4</b>
99	100	97	99
<b>R5</b>	<b>R6</b>	<b>R7</b>	<b>R8</b>
98	98	98	97
<b>R9</b>	<b>R10</b>	<b>R11</b>	<b>R12</b>
95	98	99	82
<b>R13</b>	<b>R14</b>	<b>R15</b>	
99	98	98	





# Relative Spectral Power Distribution

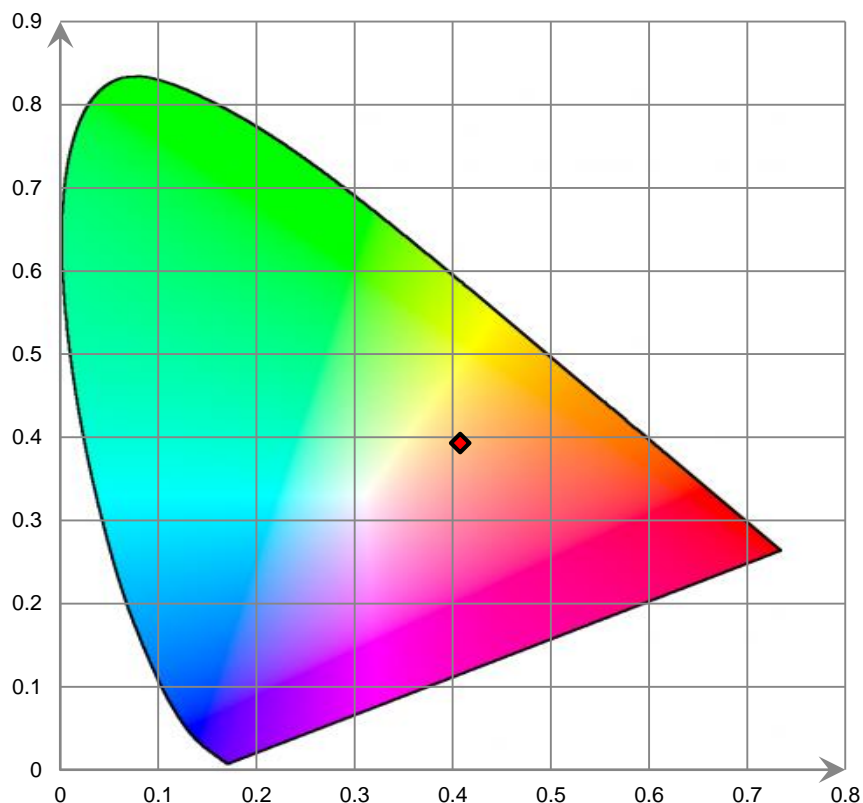


nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
380	4.023E-01	421	7.856E-01	462	9.788E+00	503	9.601E+00	544	1.321E+01
381	3.700E-01	422	8.848E-01	463	9.384E+00	504	9.743E+00	545	1.324E+01
382	3.476E-01	423	9.646E-01	464	9.100E+00	505	9.886E+00	546	1.330E+01
383	3.095E-01	424	1.063E+00	465	8.879E+00	506	9.992E+00	547	1.337E+01
384	3.547E-01	425	1.166E+00	466	8.756E+00	507	1.011E+01	548	1.339E+01
385	2.605E-01	426	1.292E+00	467	8.603E+00	508	1.026E+01	549	1.344E+01
386	2.347E-01	427	1.409E+00	468	8.504E+00	509	1.036E+01	550	1.349E+01
387	1.821E-01	428	1.543E+00	469	8.351E+00	510	1.046E+01	551	1.349E+01
388	2.247E-01	429	1.665E+00	470	8.190E+00	511	1.058E+01	552	1.354E+01
389	2.137E-01	430	1.821E+00	471	7.976E+00	512	1.068E+01	553	1.356E+01
390	1.822E-01	431	1.990E+00	472	7.755E+00	513	1.078E+01	554	1.362E+01
391	1.850E-01	432	2.178E+00	473	7.550E+00	514	1.088E+01	555	1.363E+01
392	1.976E-01	433	2.343E+00	474	7.320E+00	515	1.096E+01	556	1.367E+01
393	1.674E-01	434	2.561E+00	475	7.119E+00	516	1.107E+01	557	1.368E+01
394	1.888E-01	435	2.791E+00	476	6.945E+00	517	1.116E+01	558	1.373E+01
395	1.566E-01	436	3.041E+00	477	6.793E+00	518	1.124E+01	559	1.373E+01
396	1.469E-01	437	3.302E+00	478	6.688E+00	519	1.135E+01	560	1.374E+01
397	1.555E-01	438	3.594E+00	479	6.634E+00	520	1.141E+01	561	1.375E+01
398	1.483E-01	439	3.930E+00	480	6.649E+00	521	1.151E+01	562	1.377E+01
399	1.414E-01	440	4.277E+00	481	6.657E+00	522	1.159E+01	563	1.378E+01
400	1.343E-01	441	4.684E+00	482	6.769E+00	523	1.170E+01	564	1.382E+01
401	1.383E-01	442	5.105E+00	483	6.845E+00	524	1.178E+01	565	1.384E+01
402	1.497E-01	443	5.585E+00	484	6.916E+00	525	1.185E+01	566	1.384E+01
403	1.673E-01	444	6.129E+00	485	7.052E+00	526	1.195E+01	567	1.387E+01
404	1.595E-01	445	6.765E+00	486	7.163E+00	527	1.201E+01	568	1.389E+01
405	1.743E-01	446	7.478E+00	487	7.300E+00	528	1.212E+01	569	1.391E+01
406	1.839E-01	447	8.228E+00	488	7.378E+00	529	1.219E+01	570	1.393E+01
407	2.062E-01	448	9.097E+00	489	7.533E+00	530	1.228E+01	571	1.395E+01
408	2.174E-01	449	9.961E+00	490	7.639E+00	531	1.232E+01	572	1.395E+01
409	2.421E-01	450	1.083E+01	491	7.773E+00	532	1.241E+01	573	1.400E+01
410	2.587E-01	451	1.165E+01	492	7.939E+00	533	1.249E+01	574	1.403E+01
411	2.812E-01	452	1.233E+01	493	8.035E+00	534	1.256E+01	575	1.406E+01
412	2.985E-01	453	1.288E+01	494	8.196E+00	535	1.266E+01	576	1.410E+01
413	3.368E-01	454	1.322E+01	495	8.365E+00	536	1.271E+01	577	1.411E+01
414	3.743E-01	455	1.321E+01	496	8.484E+00	537	1.278E+01	578	1.416E+01
415	4.287E-01	456	1.308E+01	497	8.659E+00	538	1.285E+01	579	1.417E+01
416	4.768E-01	457	1.270E+01	498	8.848E+00	539	1.292E+01	580	1.424E+01
417	5.211E-01	458	1.213E+01	499	8.981E+00	540	1.300E+01	581	1.428E+01
418	5.988E-01	459	1.152E+01	500	9.124E+00	541	1.306E+01	582	1.432E+01
419	6.619E-01	460	1.088E+01	501	9.284E+00	542	1.309E+01	583	1.437E+01
420	7.261E-01	461	1.027E+01	502	9.434E+00	543	1.316E+01	584	1.445E+01

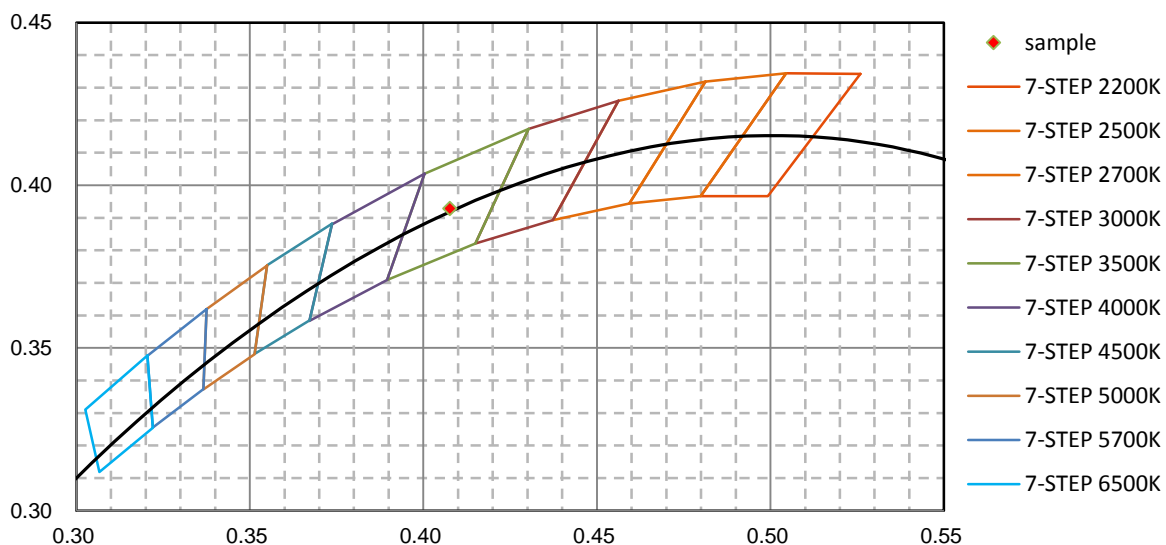
nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
585	1.450E+01	626	1.858E+01	667	1.433E+01	708	6.146E+00	749	2.000E+00
586	1.457E+01	627	1.860E+01	668	1.413E+01	709	6.010E+00	750	1.945E+00
587	1.463E+01	628	1.862E+01	669	1.394E+01	710	5.861E+00	751	1.892E+00
588	1.471E+01	629	1.863E+01	670	1.371E+01	711	5.696E+00	752	1.846E+00
589	1.482E+01	630	1.868E+01	671	1.348E+01	712	5.568E+00	753	1.787E+00
590	1.486E+01	631	1.871E+01	672	1.328E+01	713	5.415E+00	754	1.744E+00
591	1.498E+01	632	1.868E+01	673	1.308E+01	714	5.300E+00	755	1.681E+00
592	1.505E+01	633	1.868E+01	674	1.285E+01	715	5.170E+00	756	1.646E+00
593	1.518E+01	634	1.868E+01	675	1.264E+01	716	5.018E+00	757	1.602E+00
594	1.527E+01	635	1.868E+01	676	1.238E+01	717	4.912E+00	758	1.557E+00
595	1.538E+01	636	1.863E+01	677	1.220E+01	718	4.783E+00	759	1.504E+00
596	1.548E+01	637	1.857E+01	678	1.197E+01	719	4.667E+00	760	1.466E+00
597	1.557E+01	638	1.852E+01	679	1.176E+01	720	4.529E+00	761	1.420E+00
598	1.571E+01	639	1.850E+01	680	1.155E+01	721	4.404E+00	762	1.388E+00
599	1.581E+01	640	1.841E+01	681	1.133E+01	722	4.288E+00	763	1.346E+00
600	1.591E+01	641	1.834E+01	682	1.112E+01	723	4.193E+00	764	1.305E+00
601	1.606E+01	642	1.827E+01	683	1.089E+01	724	4.075E+00	765	1.278E+00
602	1.617E+01	643	1.819E+01	684	1.067E+01	725	3.956E+00	766	1.244E+00
603	1.628E+01	644	1.810E+01	685	1.047E+01	726	3.851E+00	767	1.202E+00
604	1.640E+01	645	1.801E+01	686	1.025E+01	727	3.747E+00	768	1.167E+00
605	1.653E+01	646	1.787E+01	687	1.006E+01	728	3.638E+00	769	1.134E+00
606	1.665E+01	647	1.779E+01	688	9.817E+00	729	3.533E+00	770	1.114E+00
607	1.679E+01	648	1.766E+01	689	9.669E+00	730	3.444E+00	771	1.076E+00
608	1.691E+01	649	1.753E+01	690	9.430E+00	731	3.343E+00	772	1.041E+00
609	1.704E+01	650	1.741E+01	691	9.217E+00	732	3.236E+00	773	1.013E+00
610	1.717E+01	651	1.725E+01	692	9.049E+00	733	3.158E+00	774	9.850E-01
611	1.727E+01	652	1.709E+01	693	8.838E+00	734	3.076E+00	775	9.509E-01
612	1.737E+01	653	1.696E+01	694	8.652E+00	735	2.981E+00	776	9.350E-01
613	1.749E+01	654	1.679E+01	695	8.440E+00	736	2.900E+00	777	9.125E-01
614	1.761E+01	655	1.664E+01	696	8.286E+00	737	2.820E+00	778	8.768E-01
615	1.772E+01	656	1.645E+01	697	8.060E+00	738	2.742E+00	779	8.785E-01
616	1.781E+01	657	1.627E+01	698	7.867E+00	739	2.660E+00	780	8.802E-01
617	1.791E+01	658	1.612E+01	699	7.703E+00	740	2.580E+00		
618	1.801E+01	659	1.593E+01	700	7.522E+00	741	2.504E+00		
619	1.808E+01	660	1.575E+01	701	7.313E+00	742	2.442E+00		
620	1.818E+01	661	1.553E+01	702	7.148E+00	743	2.366E+00		
621	1.827E+01	662	1.538E+01	703	6.977E+00	744	2.309E+00		
622	1.835E+01	663	1.517E+01	704	6.822E+00	745	2.252E+00		
623	1.839E+01	664	1.494E+01	705	6.640E+00	746	2.172E+00		
624	1.847E+01	665	1.475E+01	706	6.488E+00	747	2.129E+00		
625	1.852E+01	666	1.454E+01	707	6.324E+00	748	2.055E+00		



CIE 1931 x y Chromaticity Diagram



7-Step Chromaticity Quadrangles



**[Goniophotometer System]**

The Stabilization time: **30 minutes**

Total operating time for luminous intensity distribution: **1.0 hour**

Test orientation: **Base up**

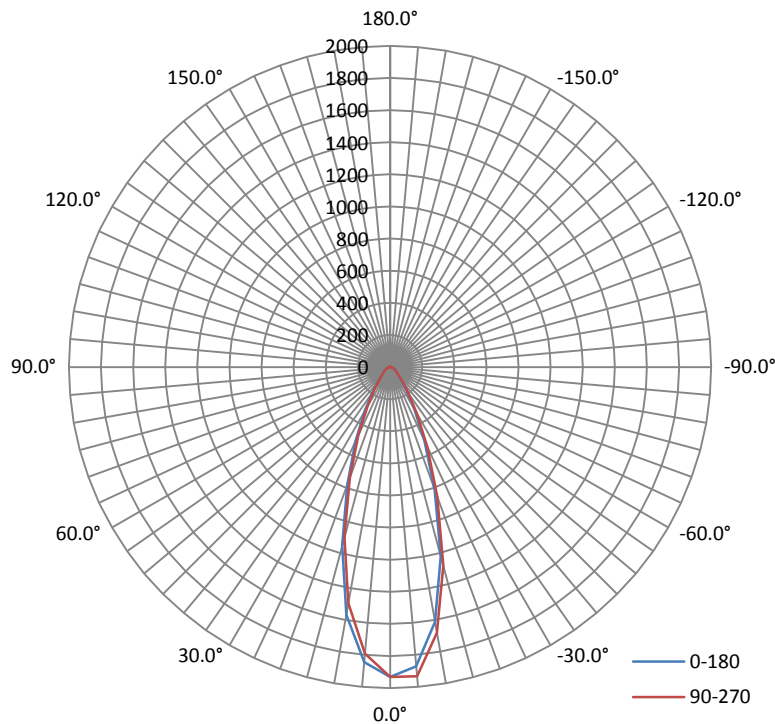
**Electrical Measurement**

Input Voltage (V)	Frequency (Hz)	Input Current (A)	Power (W)	Power Factor
120.08	60	0.0924	10.540	0.9499

**Photometric Measurement**

Luminous Flux (lm)	Efficacy (lm/W)	I <sub>max</sub> (cd)	S/MH (C0/180)	S/MH (C90/270)
994.446	94.35	1962	0.6	0.62

**Luminous Intensity Distribution**



	C0/180	C45/225	C90/270	C135/315	AVG.
Beam Angle (50% I <sub>max</sub> ):	35.4	35.1	34.9	35.0	35.1
Field Angle (10% I <sub>max</sub> ):	68.9	68.7	68.6	68.7	68.7

**Luminous Intensity (cd) Distribution Data**

C y	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°
0.0°	1930	1930	1930	1930	1930	1930	1930	1930
5.0°	1845	1829	1814	1807	1792	1787	1800	1834
10.0°	1567	1537	1507	1491	1493	1503	1516	1553
15.0°	1151	1125	1100	1097	1095	1100	1113	1143
20.0°	780	763	750	740	734	732	738	755
25.0°	506	487	476	467	463	456	458	471
30.0°	311	297	286	282	277	273	272	277
35.0°	186	177	171	170	167	164	162	165
40.0°	117	111	107	107	105	104	104	106
45.0°	77	73	72	72	71	71	71	72
50.0°	55	53	52	52	53	53	53	54
55.0°	43	43	43	44	43	44	43	44
60.0°	34	33	33	33	33	33	34	34
65.0°	25	25	25	24	25	25	25	26
70.0°	19	18	18	18	18	18	18	19
75.0°	13	13	12	12	12	12	13	13
80.0°	8	8	8	7	7	8	8	8
85.0°	4	3	3	3	3	4	4	4
90.0°	1	1	1	1	1	1	1	1
95.0°	0	0	0	0	0	0	0	0
100.0°	0	0	0	0	0	0	0	0
105.0°	0	0	0	0	0	0	0	0
110.0°	0	0	0	0	0	0	0	0
115.0°	0	0	0	0	0	0	0	0
120.0°	0	0	0	0	0	0	0	0
125.0°	0	0	0	0	0	0	0	0
130.0°	0	0	0	0	0	0	0	0
135.0°	0	0	0	0	0	0	0	0
140.0°	1	1	1	1	1	1	1	1
145.0°	1	1	1	1	1	1	1	1
150.0°	2	2	2	2	2	2	2	2
155.0°	2	2	2	2	2	2	2	2
160.0°	2	2	2	2	2	2	2	2
165.0°	2	2	2	2	2	2	2	2
170.0°	2	2	2	2	2	2	2	2
175.0°	2	2	2	2	2	2	2	2
180.0°	1	1	1	1	1	1	1	1

**Luminous Intensity (cd) Distribution Data (cont.)**

C Y	180°	202.5°	225°	247.5°	270°	292.5°	315°	337.5°
0.0°	1930	1930	1930	1930	1930	1930	1930	1930
5.0°	1872	1895	1918	1931	1933	1915	1906	1886
10.0°	1612	1644	1663	1676	1681	1669	1653	1635
15.0°	1221	1256	1272	1276	1280	1269	1247	1225
20.0°	814	844	851	851	858	859	853	843
25.0°	506	528	539	539	550	555	551	544
30.0°	300	313	322	325	333	341	339	336
35.0°	179	187	194	196	201	208	206	204
40.0°	114	116	118	120	124	131	131	129
45.0°	75	75	76	79	81	84	84	83
50.0°	55	55	56	56	58	58	58	57
55.0°	44	44	45	45	46	46	46	45
60.0°	35	36	36	37	37	37	36	36
65.0°	27	27	27	27	28	28	27	27
70.0°	20	20	20	20	21	21	20	20
75.0°	14	14	14	14	15	15	14	14
80.0°	9	9	9	9	9	9	9	9
85.0°	4	5	5	5	5	5	5	4
90.0°	1	2	2	2	2	2	1	1
95.0°	0	0	0	0	0	0	0	0
100.0°	0	0	0	0	0	0	0	0
105.0°	0	0	0	0	0	0	0	0
110.0°	0	0	0	0	0	0	0	0
115.0°	0	0	0	0	0	0	0	0
120.0°	0	0	0	0	0	0	0	0
125.0°	0	0	0	0	0	0	0	0
130.0°	0	0	0	0	0	0	0	0
135.0°	0	0	0	0	0	0	0	0
140.0°	0	0	0	0	0	0	0	0
145.0°	0	0	0	0	0	0	0	0
150.0°	0	0	0	0	0	0	0	0
155.0°	1	1	1	1	1	1	1	1
160.0°	1	1	1	1	1	1	1	1
165.0°	1	1	1	1	1	1	1	1
170.0°	1	1	1	1	1	1	1	1
175.0°	1	1	1	1	1	1	1	1
180.0°	1	1	1	1	1	1	1	1

### Zonal Lumen Density Measurement

Deg	Flux (lm)	%
0-5	45.4	4.57
5-10	123.3	12.39
10-15	163.6	16.46
15-20	161.0	16.19
20-25	134.2	13.49
25-30	100.3	10.09
30-35	70.1	7.05
35-40	48.7	4.90
40-45	34.6	3.48
45-50	26.1	2.62
50-55	21.3	2.14
55-60	18.5	1.86
60-65	14.7	1.48
65-70	11.4	1.14
70-75	8.5	0.85
75-80	5.8	0.58
80-85	3.4	0.34
85-90	1.4	0.14
90-95	0.3	0.03
95-100	0.0	0.00
100-105	0.0	0.00
105-110	0.0	0.00
110-115	0.0	0.00
115-120	0.0	0.00
120-125	0.0	0.01
125-130	0.0	0.00
130-135	0.1	0.01
135-140	0.1	0.01
140-145	0.2	0.02
145-150	0.3	0.03
150-155	0.3	0.03
155-160	0.3	0.03
160-165	0.3	0.03
165-170	0.2	0.02
170-175	0.1	0.01
175-180	0.0	0.00

Deg	Flux (lm)	%
0-5	45.4	4.57
0-10	168.7	16.96
0-15	332.3	33.42
0-20	493.4	49.61
0-25	627.5	63.10
0-30	727.8	73.19
0-35	798.0	80.24
0-40	846.7	85.14
0-45	881.3	88.62
0-50	907.3	91.24
0-55	928.6	93.38
0-60	947.1	95.24
0-65	961.8	96.72
0-70	973.2	97.86
0-75	981.6	98.71
0-80	987.4	99.29
0-85	990.8	99.63
0-90	992.2	99.77
0-95	992.4	99.80
0-100	992.4	99.80
0-105	992.4	99.80
0-110	992.5	99.80
0-115	992.5	99.80
0-120	992.5	99.80
0-125	992.5	99.81
0-130	992.6	99.81
0-135	992.6	99.82
0-140	992.8	99.83
0-145	993.0	99.85
0-150	993.3	99.88
0-155	993.6	99.91
0-160	993.9	99.94
0-165	994.1	99.97
0-170	994.3	99.99
0-175	994.4	100.00
0-180	994.4	100.00

**[Additional Test]**

Test Item	Test Voltage (V)	Frequency (Hz)	Test Result
Total Harmonic Distortion:	120.0	60	16.72%

**6. Product Photo**



## Directions

1. The information marked "superscript #" is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report.
2. This report includes some test methods are not in NVLAP accreditation scope marked \*.
3. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.
4. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
5. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor  $K=2$  with the 95% confidence interval.
6. This report cannot be reproduced except in full, without prior written approval of the Company.
7. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

\*\*\*\*\*END OF REPORT\*\*\*\*\*