

# 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: 6.5PAR20DIM/950FL40/SL+SL25D**

<b>Report Type:</b>	Electrical and Photometric tests including: Luminous Flux, Chromaticity, Luminous Intensity Distribution, THD
<b>Reviewed By:</b>	Hill Liu 
<b>Report Number:</b>	KS2230727-43598E-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: 6.5PAR20DIM/950FL40/SL+SL25D  
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: 6.5W  
Nominal CCT: 5000K  
Nominal Lumen Output: 580lm

### Family Declaration

The Model	Multiple Models	Differences Items	Details
6.5PAR20DIM/950FL40/SL+SL25D	6.5PAR20DIM/950NF25/SL	Model Number	6.5PAR20DIM/950FL40/SL+SL25D & 6.5PAR20DIM/950NF25/SL are the same product except for the model number.

## 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**

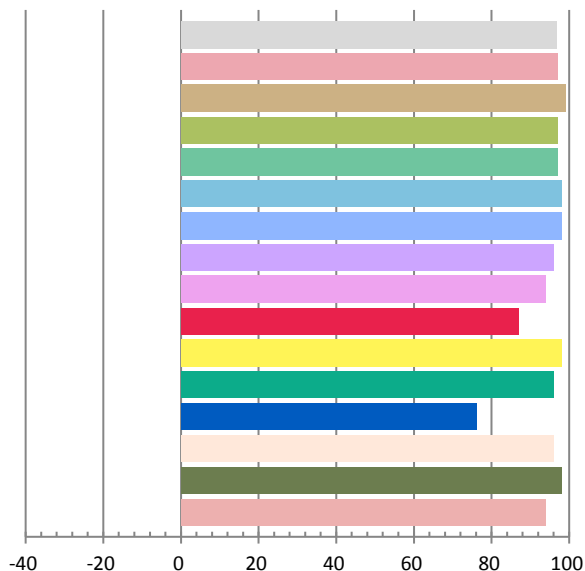
### Photometric and Electrical Measurement Result

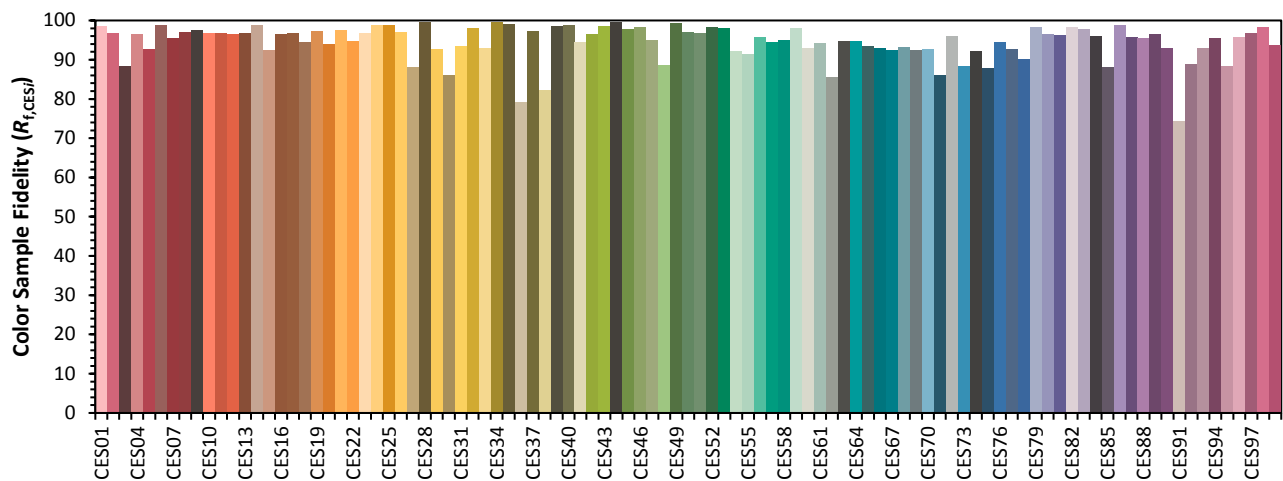
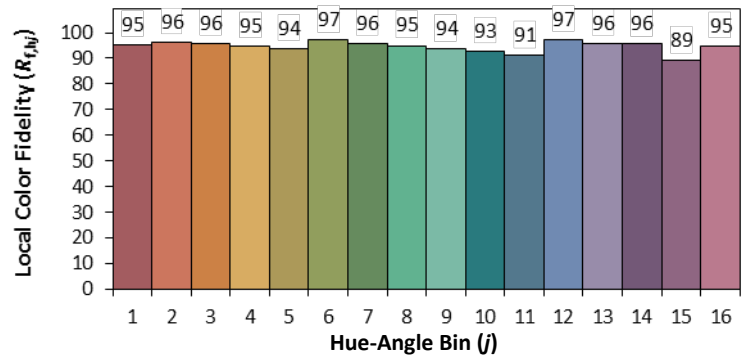
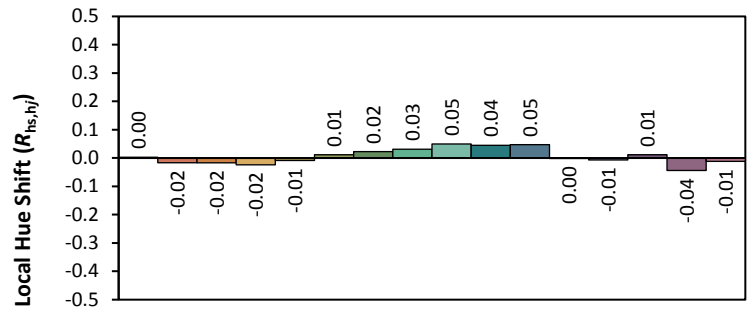
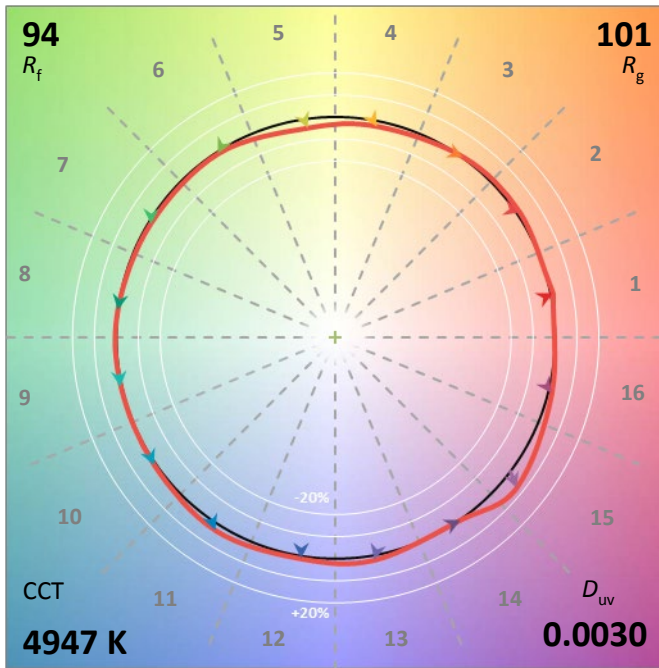
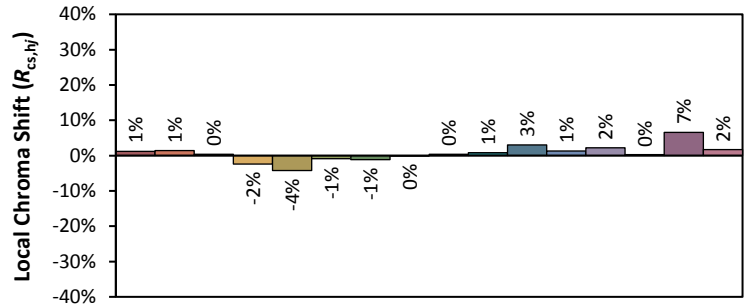
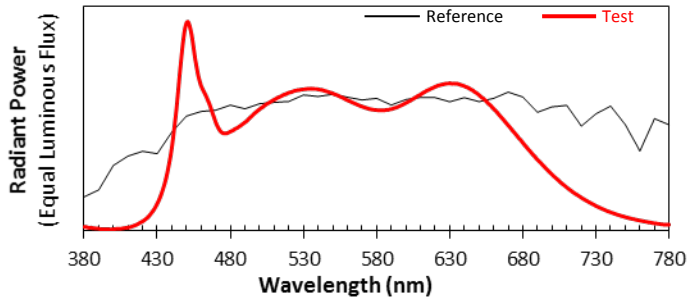
Voltage (V)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	Luminous Flux(lm)	Efficacy (lm/W)
120.0	60	0.05626	6.372	0.9439	582.45	91.41

Radiant Flux (W)	CCT (K)	Duv	x	y	u'	v'
2.152	4945	0.00305	0.3473	0.3595	0.2099	0.4888

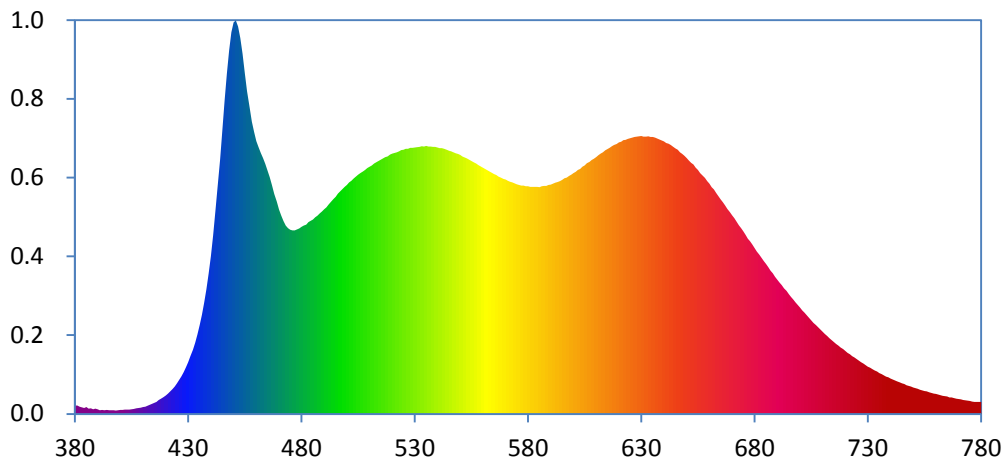
### Color Rendering Index

<b>Ra</b>			
<b>96.9</b>			
<b>R1</b>	<b>R2</b>	<b>R3</b>	<b>R4</b>
97	99	97	97
<b>R5</b>	<b>R6</b>	<b>R7</b>	<b>R8</b>
98	98	96	94
<b>R9</b>	<b>R10</b>	<b>R11</b>	<b>R12</b>
87	98	96	76
<b>R13</b>	<b>R14</b>	<b>R15</b>	
96	98	94	





### Relative Spectral Power Distribution

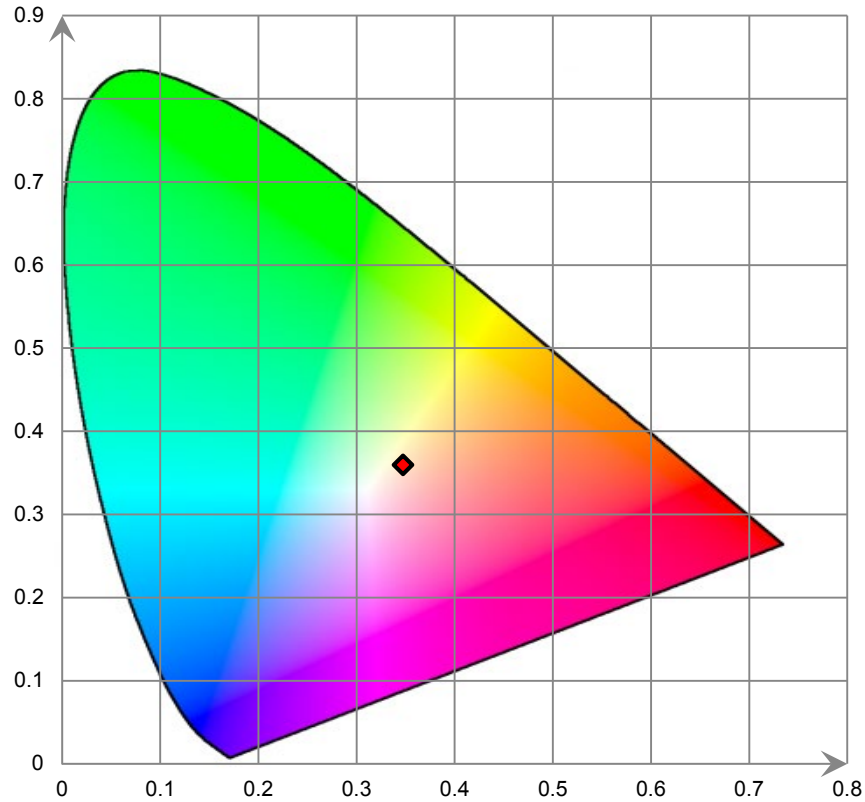


nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
380	2.639E-01	421	6.532E-01	462	8.419E+00	503	7.584E+00	544	8.517E+00
381	2.716E-01	422	7.250E-01	463	8.253E+00	504	7.652E+00	545	8.488E+00
382	2.376E-01	423	7.969E-01	464	8.060E+00	505	7.715E+00	546	8.467E+00
383	2.099E-01	424	8.846E-01	465	7.842E+00	506	7.761E+00	547	8.436E+00
384	1.928E-01	425	9.846E-01	466	7.630E+00	507	7.814E+00	548	8.401E+00
385	2.204E-01	426	1.097E+00	467	7.373E+00	508	7.864E+00	549	8.383E+00
386	1.709E-01	427	1.212E+00	468	7.091E+00	509	7.924E+00	550	8.350E+00
387	1.796E-01	428	1.344E+00	469	6.847E+00	510	7.969E+00	551	8.299E+00
388	1.549E-01	429	1.499E+00	470	6.590E+00	511	8.012E+00	552	8.273E+00
389	1.669E-01	430	1.666E+00	471	6.388E+00	512	8.075E+00	553	8.238E+00
390	1.454E-01	431	1.860E+00	472	6.218E+00	513	8.114E+00	554	8.196E+00
391	1.235E-01	432	2.064E+00	473	6.072E+00	514	8.153E+00	555	8.153E+00
392	1.256E-01	433	2.301E+00	474	5.989E+00	515	8.193E+00	556	8.120E+00
393	1.182E-01	434	2.562E+00	475	5.933E+00	516	8.243E+00	557	8.078E+00
394	1.264E-01	435	2.861E+00	476	5.918E+00	517	8.285E+00	558	8.020E+00
395	1.173E-01	436	3.196E+00	477	5.919E+00	518	8.304E+00	559	7.979E+00
396	1.150E-01	437	3.586E+00	478	5.943E+00	519	8.358E+00	560	7.935E+00
397	1.154E-01	438	4.018E+00	479	5.984E+00	520	8.391E+00	561	7.895E+00
398	1.131E-01	439	4.524E+00	480	6.032E+00	521	8.413E+00	562	7.859E+00
399	1.166E-01	440	5.087E+00	481	6.077E+00	522	8.434E+00	563	7.811E+00
400	1.249E-01	441	5.752E+00	482	6.105E+00	523	8.470E+00	564	7.779E+00
401	1.267E-01	442	6.526E+00	483	6.190E+00	524	8.507E+00	565	7.733E+00
402	1.394E-01	443	7.320E+00	484	6.224E+00	525	8.519E+00	566	7.700E+00
403	1.343E-01	444	8.217E+00	485	6.271E+00	526	8.544E+00	567	7.652E+00
404	1.437E-01	445	9.165E+00	486	6.339E+00	527	8.549E+00	568	7.625E+00
405	1.469E-01	446	1.011E+01	487	6.396E+00	528	8.575E+00	569	7.580E+00
406	1.607E-01	447	1.097E+01	488	6.465E+00	529	8.582E+00	570	7.554E+00
407	1.787E-01	448	1.171E+01	489	6.525E+00	530	8.595E+00	571	7.521E+00
408	1.923E-01	449	1.230E+01	490	6.601E+00	531	8.601E+00	572	7.487E+00
409	2.047E-01	450	1.262E+01	491	6.657E+00	532	8.613E+00	573	7.461E+00
410	2.253E-01	451	1.269E+01	492	6.751E+00	533	8.631E+00	574	7.429E+00
411	2.306E-01	452	1.248E+01	493	6.837E+00	534	8.623E+00	575	7.403E+00
412	2.642E-01	453	1.212E+01	494	6.924E+00	535	8.636E+00	576	7.387E+00
413	2.889E-01	454	1.162E+01	495	7.004E+00	536	8.620E+00	577	7.364E+00
414	3.237E-01	455	1.099E+01	496	7.100E+00	537	8.620E+00	578	7.358E+00
415	3.589E-01	456	1.040E+01	497	7.172E+00	538	8.612E+00	579	7.341E+00
416	3.913E-01	457	9.890E+00	498	7.248E+00	539	8.614E+00	580	7.337E+00
417	4.442E-01	458	9.427E+00	499	7.323E+00	540	8.594E+00	581	7.320E+00
418	4.926E-01	459	9.092E+00	500	7.384E+00	541	8.573E+00	582	7.316E+00
419	5.441E-01	460	8.798E+00	501	7.463E+00	542	8.568E+00	583	7.323E+00
420	5.923E-01	461	8.599E+00	502	7.513E+00	543	8.544E+00	584	7.319E+00

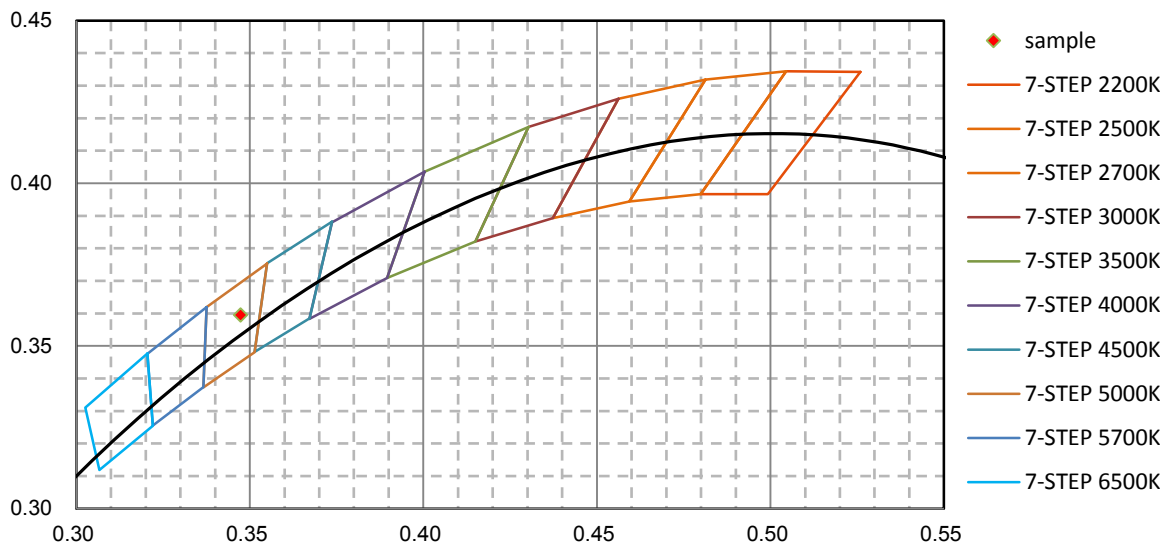
nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
585	7.315E+00	626	8.908E+00	667	6.726E+00	708	2.795E+00	749	8.817E-01
586	7.337E+00	627	8.926E+00	668	6.610E+00	709	2.721E+00	750	8.514E-01
587	7.356E+00	628	8.942E+00	669	6.507E+00	710	2.646E+00	751	8.293E-01
588	7.348E+00	629	8.947E+00	670	6.401E+00	711	2.577E+00	752	8.050E-01
589	7.386E+00	630	8.965E+00	671	6.310E+00	712	2.513E+00	753	7.818E-01
590	7.395E+00	631	8.945E+00	672	6.197E+00	713	2.444E+00	754	7.606E-01
591	7.420E+00	632	8.939E+00	673	6.081E+00	714	2.375E+00	755	7.371E-01
592	7.458E+00	633	8.948E+00	674	5.986E+00	715	2.321E+00	756	7.282E-01
593	7.478E+00	634	8.934E+00	675	5.882E+00	716	2.251E+00	757	6.982E-01
594	7.506E+00	635	8.931E+00	676	5.773E+00	717	2.207E+00	758	6.790E-01
595	7.551E+00	636	8.907E+00	677	5.647E+00	718	2.142E+00	759	6.580E-01
596	7.594E+00	637	8.874E+00	678	5.569E+00	719	2.089E+00	760	6.467E-01
597	7.621E+00	638	8.851E+00	679	5.468E+00	720	2.025E+00	761	6.257E-01
598	7.674E+00	639	8.816E+00	680	5.349E+00	721	1.965E+00	762	6.048E-01
599	7.718E+00	640	8.788E+00	681	5.238E+00	722	1.920E+00	763	5.876E-01
600	7.768E+00	641	8.737E+00	682	5.137E+00	723	1.863E+00	764	5.756E-01
601	7.805E+00	642	8.717E+00	683	5.026E+00	724	1.818E+00	765	5.584E-01
602	7.872E+00	643	8.667E+00	684	4.925E+00	725	1.765E+00	766	5.354E-01
603	7.899E+00	644	8.611E+00	685	4.832E+00	726	1.717E+00	767	5.270E-01
604	7.967E+00	645	8.557E+00	686	4.726E+00	727	1.671E+00	768	5.074E-01
605	8.010E+00	646	8.514E+00	687	4.620E+00	728	1.625E+00	769	4.922E-01
606	8.081E+00	647	8.435E+00	688	4.535E+00	729	1.579E+00	770	4.774E-01
607	8.122E+00	648	8.388E+00	689	4.421E+00	730	1.518E+00	771	4.691E-01
608	8.193E+00	649	8.320E+00	690	4.334E+00	731	1.490E+00	772	4.531E-01
609	8.226E+00	650	8.249E+00	691	4.233E+00	732	1.438E+00	773	4.430E-01
610	8.276E+00	651	8.165E+00	692	4.153E+00	733	1.403E+00	774	4.273E-01
611	8.338E+00	652	8.089E+00	693	4.055E+00	734	1.365E+00	775	4.187E-01
612	8.397E+00	653	8.038E+00	694	3.966E+00	735	1.320E+00	776	4.014E-01
613	8.439E+00	654	7.941E+00	695	3.867E+00	736	1.288E+00	777	3.916E-01
614	8.494E+00	655	7.868E+00	696	3.774E+00	737	1.244E+00	778	3.891E-01
615	8.539E+00	656	7.762E+00	697	3.687E+00	738	1.204E+00	779	3.898E-01
616	8.576E+00	657	7.683E+00	698	3.597E+00	739	1.180E+00	780	3.906E-01
617	8.626E+00	658	7.607E+00	699	3.509E+00	740	1.141E+00		
618	8.667E+00	659	7.503E+00	700	3.429E+00	741	1.112E+00		
619	8.701E+00	660	7.419E+00	701	3.335E+00	742	1.082E+00		
620	8.752E+00	661	7.313E+00	702	3.261E+00	743	1.048E+00		
621	8.779E+00	662	7.241E+00	703	3.178E+00	744	1.014E+00		
622	8.827E+00	663	7.125E+00	704	3.103E+00	745	9.899E-01		
623	8.843E+00	664	7.023E+00	705	3.015E+00	746	9.600E-01		
624	8.869E+00	665	6.918E+00	706	2.936E+00	747	9.283E-01		
625	8.890E+00	666	6.824E+00	707	2.861E+00	748	9.049E-01		



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**

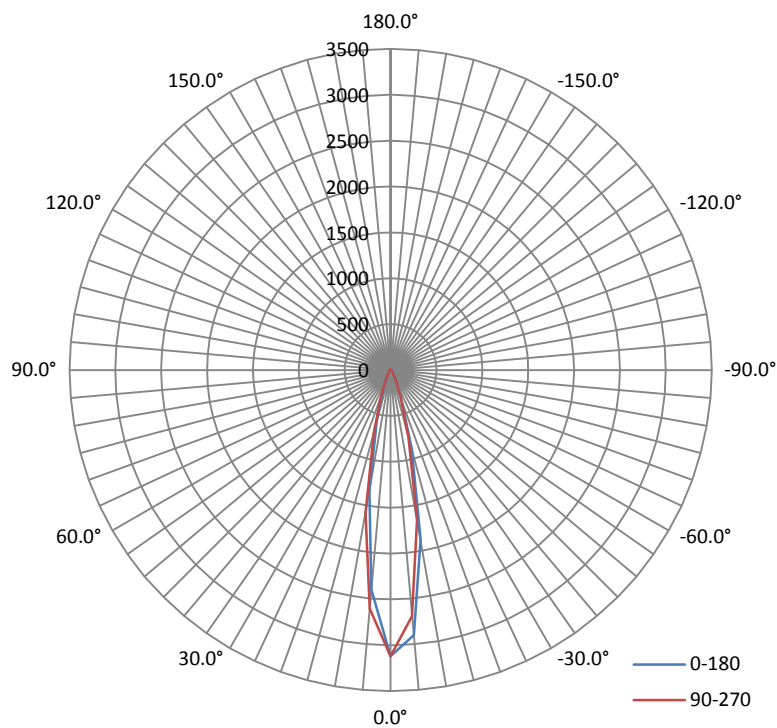
**Electrical Measurement**

Input Voltage (V)	Frequency (Hz)	Input Current (A)	Power (W)	Power Factor
120.01	60	0.0564	6.3500	0.9382

**Photometric Measurement**

Luminous Flux (lm)	Efficacy (lm/W)	I <sub>max</sub> (cd)	S/MH (C0/180)	S/MH (C90/270)
582.717	91.77	3135	0.38	0.36

**Luminous Intensity Distribution**



	C0/180	C45/225	C90/270	C135/315	AVG.
Beam Angle (50% I <sub>max</sub> ):	20.3	20.3	20.6	20.4	20.4
Field Angle (10% I <sub>max</sub> ):	38.8	39.2	39.9	39.4	39.3

**Luminous Intensity (cd) Distribution Data**

$\begin{matrix} C \\ \backslash \\ \gamma \end{matrix}$	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°
0.0°	3119	3119	3119	3119	3119	3119	3119	3119
5.0°	2398	2407	2451	2521	2609	2698	2765	2807
10.0°	1336	1354	1414	1490	1580	1669	1726	1765
15.0°	576	583	598	649	701	742	776	795
20.0°	236	240	255	279	298	314	320	320
25.0°	107	110	117	128	140	150	152	150
30.0°	59	59	61	63	68	72	73	72
35.0°	41	41	42	43	45	46	46	47
40.0°	31	32	33	34	34	35	35	34
45.0°	25	26	27	28	28	27	27	26
50.0°	21	21	21	22	23	22	22	21
55.0°	16	17	17	17	18	18	18	18
60.0°	14	14	14	14	15	15	15	15
65.0°	11	11	11	12	12	12	12	12
70.0°	8	8	9	9	9	9	9	9
75.0°	6	6	6	6	7	7	7	7
80.0°	3	4	4	4	4	4	4	4
85.0°	2	2	2	2	2	2	2	2
90.0°	0	0	0	0	0	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	0	0	0	0	0
145.0°	1	1	1	1	1	1	1	1
150.0°	1	1	1	1	1	1	1	1
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°	1	1	1	1	1	1	1	1
180.0°	1	1	1	1	1	1	1	1

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

$\begin{matrix} C \\ \backslash \\ \gamma \end{matrix}$	180°	202.5°	225°	247.5°	270°	292.5°	315°	337.5°
0.0°	3119	3119	3119	3119	3119	3119	3119	3119
5.0°	2901	2882	2847	2775	2693	2610	2551	2503
10.0°	1876	1849	1794	1730	1655	1570	1493	1450
15.0°	882	867	836	798	755	702	658	625
20.0°	348	347	345	337	320	299	275	262
25.0°	163	162	159	156	146	139	129	117
30.0°	76	76	74	71	68	66	63	61
35.0°	49	49	47	46	46	45	44	43
40.0°	36	36	36	36	36	35	34	33
45.0°	27	28	28	28	28	28	28	26
50.0°	22	22	22	23	23	23	22	21
55.0°	18	18	18	18	18	18	18	17
60.0°	15	16	15	15	15	15	14	14
65.0°	12	13	12	12	12	12	12	11
70.0°	10	10	10	10	9	9	9	8
75.0°	7	7	7	7	7	6	6	6
80.0°	5	5	5	4	4	4	4	4
85.0°	2	2	2	2	2	2	2	2
90.0°	1	1	1	1	1	1	0	0
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°	0	0	0	0	0	0	0	0
160.0°	0	0	0	0	0	0	0	0
165.0°	0	0	0	0	0	0	0	0
170.0°	0	0	0	0	0	0	0	0
175.0°	0	0	0	0	0	0	0	0
180.0°	1	1	1	1	1	1	1	1

### Zonal Lumen Density Measurement

Deg	Flux (lm)	%
0-5	69.0	11.83
5-10	149.1	25.58
10-15	130.9	22.46
15-20	77.3	13.27
20-25	43.3	7.44
25-30	24.4	4.18
30-35	15.9	2.74
35-40	13.1	2.25
40-45	11.3	1.93
45-50	9.9	1.71
50-55	8.5	1.45
55-60	7.5	1.29
60-65	6.5	1.11
65-70	5.3	0.91
70-75	4.1	0.70
75-80	2.8	0.49
80-85	1.6	0.28
85-90	0.7	0.12
90-95	0.1	0.02
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	0.00
125-130	0.0	0.00
130-135	0.0	0.01
135-140	0.1	0.01
140-145	0.1	0.02
145-150	0.2	0.04
150-155	0.3	0.04
155-160	0.3	0.05
160-165	0.2	0.03
165-170	0.1	0.03
170-175	0.1	0.01
175-180	0.0	0.00

Deg	Flux (lm)	%
0-5	69.0	11.83
0-10	218.0	37.41
0-15	348.9	59.87
0-20	426.2	73.14
0-25	469.6	80.58
0-30	493.9	84.76
0-35	509.9	87.50
0-40	523.0	89.75
0-45	534.3	91.68
0-50	544.2	93.39
0-55	552.7	94.84
0-60	560.2	96.13
0-65	566.6	97.24
0-70	571.9	98.15
0-75	576.0	98.85
0-80	578.9	99.34
0-85	580.5	99.62
0-90	581.2	99.74
0-95	581.3	99.76
0-100	581.3	99.76
0-105	581.3	99.76
0-110	581.3	99.76
0-115	581.3	99.76
0-120	581.3	99.76
0-125	581.3	99.76
0-130	581.3	99.76
0-135	581.4	99.77
0-140	581.4	99.78
0-145	581.6	99.80
0-150	581.8	99.84
0-155	582.0	99.88
0-160	582.3	99.93
0-165	582.5	99.96
0-170	582.6	99.99
0-175	582.7	100.00
0-180	582.7	100.00

Test Item	Test Voltage (V)	Frequency (Hz)	Test Result
Total Harmonic Distortion:	120.0	60	14.40%

## 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.
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\*\*\*\*\*END OF REPORT\*\*\*\*\*