

IES LM-79-08

MEASUREMENT AND TEST REPORT For

GREEN CREATIVE LTD

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

Test Model: 25HID/835/277V/EX39/R

Report Type:	Electrical and Photometric tests including: Luminous Flux, Chromaticity, Luminous Intensity Distribution
Test Engineer:	George Yang
Report Number:	PKS200903081-10
Test Date:	2020-09-03 to 2020-09-07
Report Date:	2020-09-07
Reviewed By:	Ray Gao/ EE Engineer
Prepared By:	Bay Area Compliance Laboratories Corp. (Kunshan). No.248 Chenghu Road, Kunshan, Jiangsu province, China. Tel: +86-0512-86175000 Fax:+86-0512-88934268
Accreditation:	The IAS Accreditation Number TL-749.

1. Product Description

General Information:

One sample was received on 2020-09-03 and used for testing.

Model Tested: 25HID/835/277V/EX39/R
 Manufacturer: GREEN CREATIVE LTD
 Brand Name: GREEN CREATIVE
 Product Designation: LED Lamp
 Burning Time Before Test: 0hour(For New Products)

Rated Values:

Rated Voltage/Frequency: 120-277VAC 50/60Hz
 Rated Power: 25W
 Nominal CCT: 3500K
 Nominal Lumen Output: 3200lm

2. Standards Used

- IES LM-79-08: Approved Method: Electrical & Photometric Measurement of Solid-state Lighting Products
- ANSI C82.77-10-2014: Harmonic Emission Limits – Related Power Quality Requirements for Lighting Equipment
- IES TM-30-18: IES Method for Evaluating Light Source Color Rendition

3. Description of Test Equipment

Device	Manufacture	Model No	Serial No	Calibration date	Calibration due date
2.0m integrating sphere	EVERFINE	R98	G121960CS1361154D	2019-12-24	2020-12-23
spectroradiometer	EVERFINE	HAAS-2000	M12048CS1361148	2019-12-24	2020-12-23
Digital CC&CV DC Power Supply	EVERFINE	WY305	G115986CN1361134	2019-12-20	2020-12-19
Temperature/humidity/clock	KEJIAN	TA298	EE053	2019-12-02	2020-12-01
Standard Light Source	INVENTFINE	N/A	JWWCR020106	2019-11-19	2020-11-18
Digital Power Meter	YOKOGAWA	WT210	91KB35700	2020-04-02	2021-04-01
Intelligence ac power supply	EVERFINE	DPS1005	G119890CS1361121	2020-04-02	2021-04-01
AC Power Supply	INVENTFINE	CHP-5KVA	900511765	2020-04-02	2021-04-01
DC Power Supply	INVENTFINE	WL3010	JWDMP030001	2019-12-20	2020-12-19
Power Meter	INVENTFINE	WT500	GSQSQ200007	2020-04-02	2021-04-01
Goniophotometer	INVENTFINE	GPM-1900	YWGCF120001	2020-01-22	2021-01-21
Wireless Weather Station	ZHONGXING	KG218	N/A	2019-12-02	2020-12-01
Standard Light Source	INVENTFINE	N/A	JWBYR040008	2020-03-19	2021-03-18

Statement of Traceability: Bay Area Compliance Laboratories Corp. (Kunshan) 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 IES LM-79-08. The product was operated at rated voltage or at voltage required by manufacturer. The ambient temperature of the sample was maintained at $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$ during measurement. And relative humidity is less than 65%.

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.

4π 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 $U_{\text{rel}}=2.70\%$ ($k=2$), at the 95% confidence level. The uncertainty of the correlated color temperature measurements is $U=27\text{K}$ ($k=2$), at the 95% confidence level. The uncertainty of the CRI is $U=2.7(k=2)$, at the 95% confidence level.

The uncertainty of power meter AC current $U_{\text{rel}}=0.27\%$ of rdg, AC Voltage $U_{\text{rel}}=0.26\%$ of rdg, Power $U_{\text{rel}}=0.41\%$ ($k=2$), 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 (γ) 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 flux is $U_{\text{rel}}=2.6\%$ ($k=2$), 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]

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

Test orientation: **Downward**

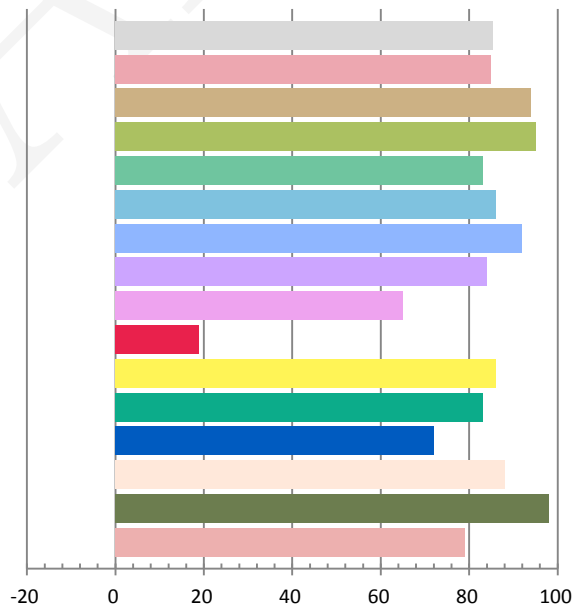
Photometric and Electrical Measurement Result

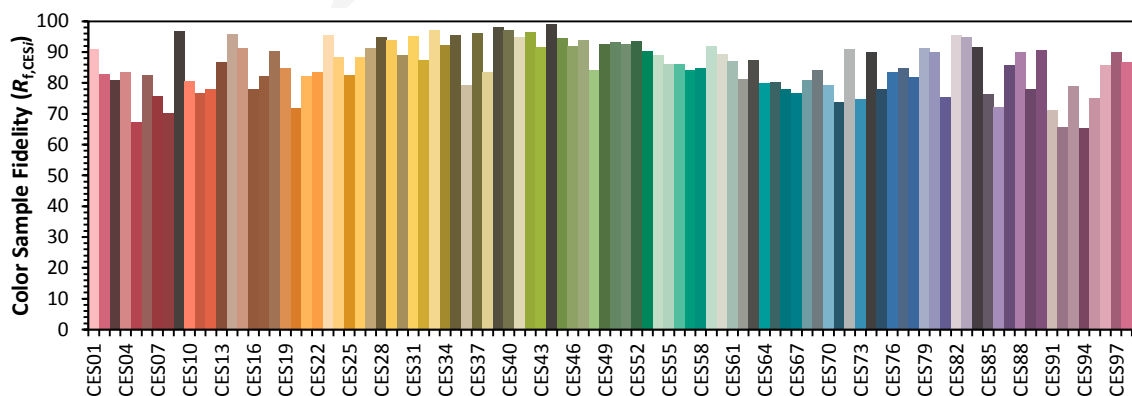
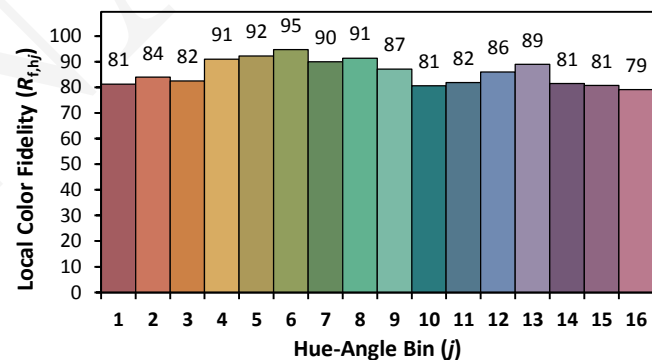
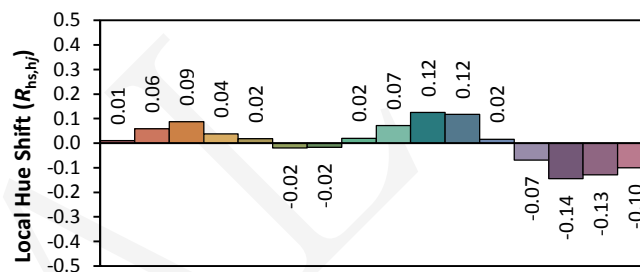
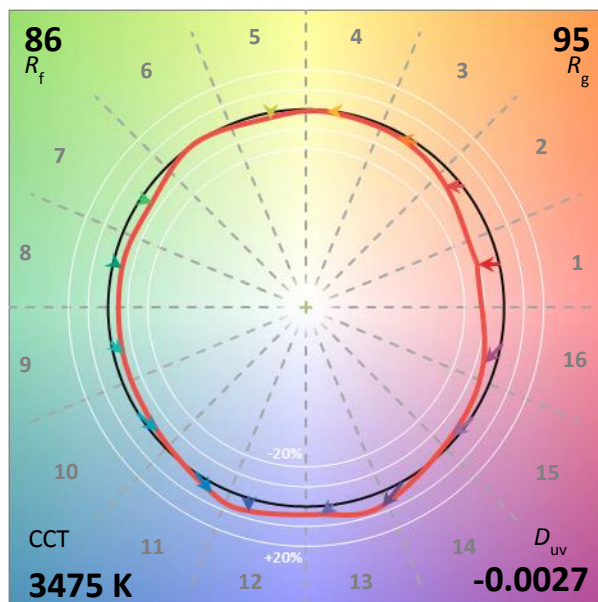
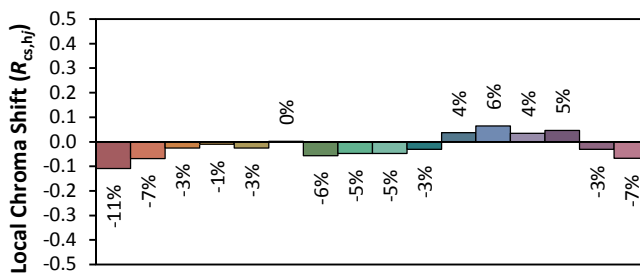
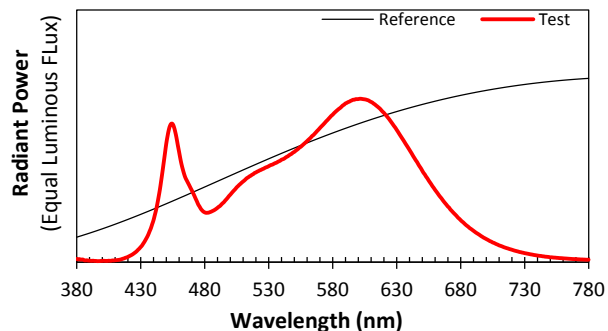
Voltage(V)	Frequency(Hz)	Current(A)	Power (W)	Power Factor	Luminous Flux(lm)	Efficacy(lm/W)
120.0	60	0.206	24.6	0.995	3554.3	144.49

Radiant Flux (W)	CCT (K)	Duv	x	y	u'	v'
11.023	3477	-0.00267	0.4038	0.3840	0.2375	0.5082

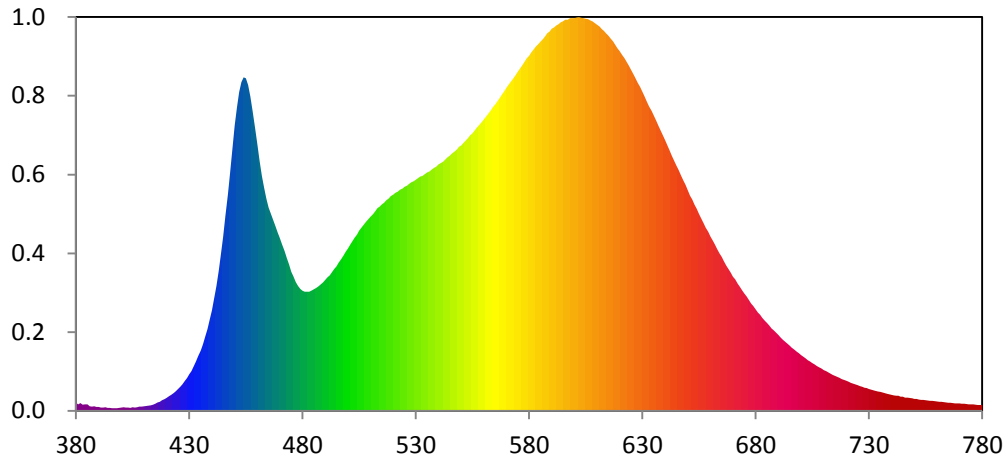
Color Rendering Index

Ra 85.5			
R1 85	R2 94	R3 95	R4 83
R5 86	R6 92	R7 84	R8 65
R9 19	R10 86	R11 83	R12 72
R13 88	R14 98	R15 79	





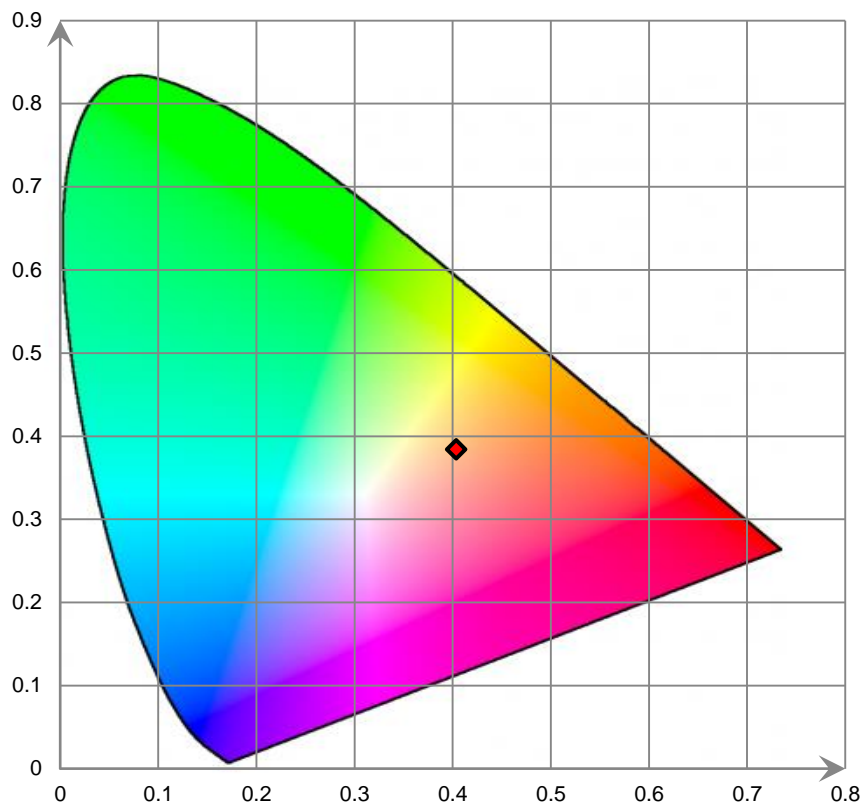
Relative Spectral Power Distribution



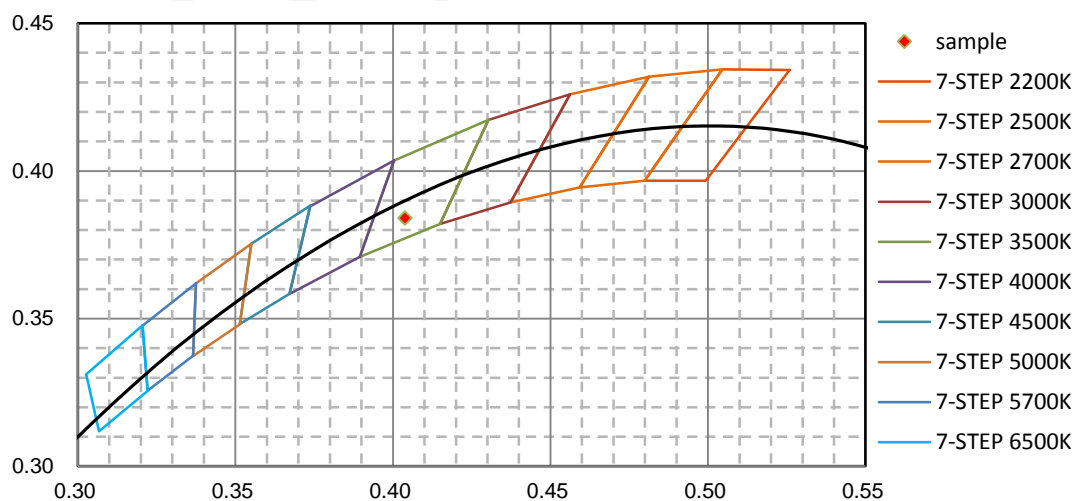
nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
380	1.344E+00	421	2.439E+00	462	4.023E+01	503	2.962E+01	544	4.341E+01
381	1.107E+00	422	2.715E+00	463	3.818E+01	504	3.017E+01	545	4.367E+01
382	1.299E+00	423	2.987E+00	464	3.631E+01	505	3.084E+01	546	4.409E+01
383	1.049E+00	424	3.318E+00	465	3.479E+01	506	3.133E+01	547	4.442E+01
384	1.088E+00	425	3.706E+00	466	3.374E+01	507	3.187E+01	548	4.471E+01
385	1.065E+00	426	4.095E+00	467	3.270E+01	508	3.232E+01	549	4.519E+01
386	7.568E-01	427	4.553E+00	468	3.168E+01	509	3.281E+01	550	4.545E+01
387	7.080E-01	428	5.108E+00	469	3.060E+01	510	3.326E+01	551	4.590E+01
388	7.657E-01	429	5.608E+00	470	2.959E+01	511	3.367E+01	552	4.630E+01
389	6.337E-01	430	6.223E+00	471	2.850E+01	512	3.417E+01	553	4.669E+01
390	6.299E-01	431	6.792E+00	472	2.735E+01	513	3.467E+01	554	4.722E+01
391	5.491E-01	432	7.626E+00	473	2.615E+01	514	3.497E+01	555	4.754E+01
392	5.591E-01	433	8.420E+00	474	2.502E+01	515	3.538E+01	556	4.800E+01
393	5.934E-01	434	9.362E+00	475	2.378E+01	516	3.565E+01	557	4.849E+01
394	4.979E-01	435	1.031E+01	476	2.296E+01	517	3.605E+01	558	4.895E+01
395	5.068E-01	436	1.139E+01	477	2.202E+01	518	3.632E+01	559	4.943E+01
396	4.202E-01	437	1.273E+01	478	2.138E+01	519	3.677E+01	560	4.991E+01
397	4.250E-01	438	1.397E+01	479	2.087E+01	520	3.699E+01	561	5.043E+01
398	4.330E-01	439	1.562E+01	480	2.056E+01	521	3.732E+01	562	5.091E+01
399	5.083E-01	440	1.718E+01	481	2.036E+01	522	3.755E+01	563	5.141E+01
400	5.198E-01	441	1.927E+01	482	2.038E+01	523	3.786E+01	564	5.203E+01
401	5.928E-01	442	2.138E+01	483	2.041E+01	524	3.805E+01	565	5.243E+01
402	5.278E-01	443	2.391E+01	484	2.061E+01	525	3.835E+01	566	5.299E+01
403	5.172E-01	444	2.681E+01	485	2.080E+01	526	3.854E+01	567	5.356E+01
404	5.074E-01	445	2.982E+01	486	2.106E+01	527	3.886E+01	568	5.415E+01
405	5.914E-01	446	3.338E+01	487	2.132E+01	528	3.911E+01	569	5.468E+01
406	5.455E-01	447	3.710E+01	488	2.162E+01	529	3.929E+01	570	5.529E+01
407	5.964E-01	448	4.097E+01	489	2.199E+01	530	3.957E+01	571	5.586E+01
408	7.038E-01	449	4.488E+01	490	2.239E+01	531	3.986E+01	572	5.639E+01
409	6.966E-01	450	4.881E+01	491	2.283E+01	532	4.011E+01	573	5.693E+01
410	7.677E-01	451	5.192E+01	492	2.318E+01	533	4.025E+01	574	5.752E+01
411	8.143E-01	452	5.457E+01	493	2.374E+01	534	4.054E+01	575	5.812E+01
412	8.785E-01	453	5.631E+01	494	2.428E+01	535	4.082E+01	576	5.863E+01
413	9.510E-01	454	5.712E+01	495	2.472E+01	536	4.100E+01	577	5.922E+01
414	1.055E+00	455	5.697E+01	496	2.537E+01	537	4.131E+01	578	5.979E+01
415	1.202E+00	456	5.580E+01	497	2.595E+01	538	4.160E+01	579	6.038E+01
416	1.398E+00	457	5.381E+01	498	2.656E+01	539	4.183E+01	580	6.081E+01
417	1.543E+00	458	5.135E+01	499	2.726E+01	540	4.223E+01	581	6.139E+01
418	1.785E+00	459	4.836E+01	500	2.781E+01	541	4.244E+01	582	6.190E+01
419	1.942E+00	460	4.561E+01	501	2.843E+01	542	4.266E+01	583	6.238E+01
420	2.165E+00	461	4.274E+01	502	2.905E+01	543	4.304E+01	584	6.283E+01

nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
585	6.327E+01	626	5.764E+01	667	2.491E+01	708	7.424E+00	749	2.123E+00
586	6.364E+01	627	5.690E+01	668	2.427E+01	709	7.221E+00	750	1.995E+00
587	6.414E+01	628	5.614E+01	669	2.365E+01	710	6.939E+00	751	1.995E+00
588	6.466E+01	629	5.546E+01	670	2.297E+01	711	6.767E+00	752	1.939E+00
589	6.497E+01	630	5.463E+01	671	2.250E+01	712	6.579E+00	753	1.881E+00
590	6.546E+01	631	5.383E+01	672	2.175E+01	713	6.369E+00	754	1.862E+00
591	6.568E+01	632	5.297E+01	673	2.120E+01	714	6.137E+00	755	1.781E+00
592	6.601E+01	633	5.215E+01	674	2.061E+01	715	5.969E+00	756	1.761E+00
593	6.619E+01	634	5.134E+01	675	2.006E+01	716	5.783E+00	757	1.688E+00
594	6.651E+01	635	5.053E+01	676	1.954E+01	717	5.641E+00	758	1.665E+00
595	6.672E+01	636	4.971E+01	677	1.898E+01	718	5.439E+00	759	1.636E+00
596	6.700E+01	637	4.883E+01	678	1.835E+01	719	5.291E+00	760	1.584E+00
597	6.700E+01	638	4.803E+01	679	1.790E+01	720	5.140E+00	761	1.542E+00
598	6.723E+01	639	4.720E+01	680	1.736E+01	721	4.960E+00	762	1.506E+00
599	6.724E+01	640	4.635E+01	681	1.684E+01	722	4.783E+00	763	1.468E+00
600	6.726E+01	641	4.549E+01	682	1.643E+01	723	4.646E+00	764	1.423E+00
601	6.738E+01	642	4.463E+01	683	1.591E+01	724	4.511E+00	765	1.382E+00
602	6.740E+01	643	4.370E+01	684	1.542E+01	725	4.379E+00	766	1.354E+00
603	6.732E+01	644	4.287E+01	685	1.499E+01	726	4.198E+00	767	1.312E+00
604	6.723E+01	645	4.201E+01	686	1.460E+01	727	4.108E+00	768	1.279E+00
605	6.716E+01	646	4.127E+01	687	1.410E+01	728	3.962E+00	769	1.266E+00
606	6.707E+01	647	4.031E+01	688	1.375E+01	729	3.872E+00	770	1.258E+00
607	6.689E+01	648	3.947E+01	689	1.336E+01	730	3.716E+00	771	1.214E+00
608	6.672E+01	649	3.870E+01	690	1.297E+01	731	3.627E+00	772	1.173E+00
609	6.638E+01	650	3.776E+01	691	1.257E+01	732	3.514E+00	773	1.148E+00
610	6.611E+01	651	3.686E+01	692	1.218E+01	733	3.423E+00	774	1.102E+00
611	6.584E+01	652	3.619E+01	693	1.185E+01	734	3.293E+00	775	1.107E+00
612	6.541E+01	653	3.530E+01	694	1.152E+01	735	3.204E+00	776	1.067E+00
613	6.507E+01	654	3.459E+01	695	1.116E+01	736	3.116E+00	777	1.050E+00
614	6.461E+01	655	3.372E+01	696	1.078E+01	737	2.996E+00	778	1.004E+00
615	6.421E+01	656	3.294E+01	697	1.046E+01	738	2.912E+00	779	1.006E+00
616	6.375E+01	657	3.218E+01	698	1.011E+01	739	2.824E+00	780	1.008E+00
617	6.330E+01	658	3.134E+01	699	9.846E+00	740	2.736E+00		
618	6.270E+01	659	3.064E+01	700	9.550E+00	741	2.648E+00		
619	6.211E+01	660	2.984E+01	701	9.272E+00	742	2.580E+00		
620	6.163E+01	661	2.914E+01	702	8.977E+00	743	2.541E+00		
621	6.099E+01	662	2.842E+01	703	8.659E+00	744	2.421E+00		
622	6.042E+01	663	2.766E+01	704	8.461E+00	745	2.380E+00		
623	5.976E+01	664	2.697E+01	705	8.132E+00	746	2.268E+00		
624	5.911E+01	665	2.635E+01	706	7.947E+00	747	2.233E+00		
625	5.838E+01	666	2.561E+01	707	7.691E+00	748	2.172E+00		

CIE 1931xy Chromaticity Diagram



7-Step Chromaticity Quadrangles



[Goniophotometer System]

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

Test orientation: **Downward**

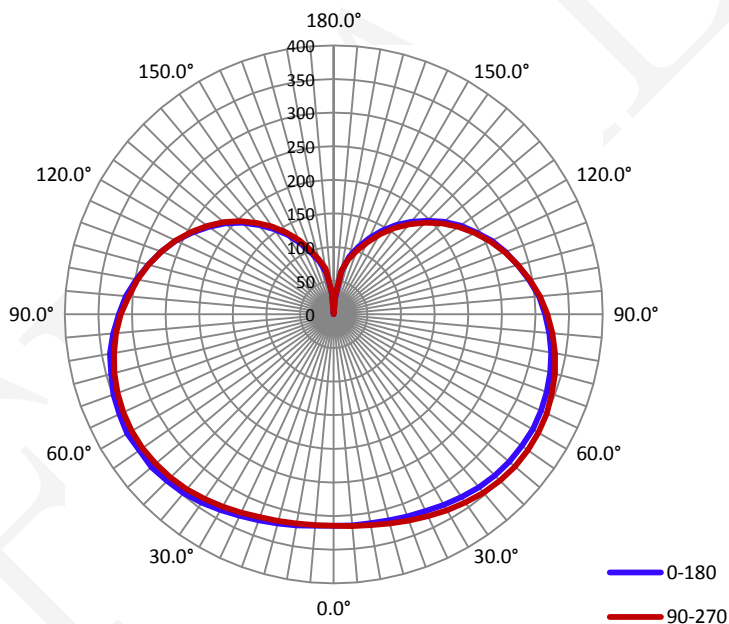
Electrical Measurement

Input Voltage(V)	Frequency(Hz)	Input Current(A)	Power (W)	Power Factor
120.0	60	0.205	24.55	0.996

Photometric Measurement

Luminous Flux(lm)	Efficacy(lm/W)	$I_{max}(cd)$	S/MH(C0/180)	S/MH(C90/270)
3551.4	144.71	355.0	1.64	1.65

Luminous Intensity Distribution



	C0/180	C45/225	C90/270	C135/315	AVG.
Beam Angle(50% I_{max}):	279.7	280.8	279.8	279.6	280.0
Field Angle(10% I_{max}):	348.0	348.5	349.0	350.3	349.0

Luminous Intensity (cd) Distribution Data

C y	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°
0.0°	314.5	314.5	314.5	314.5	314.5	314.5	314.5	314.5
5.0°	315.0	314.5	314.6	315.3	316.2	315.9	316.4	314.9
10.0°	315.3	315.9	316.6	317.9	318.4	318.6	319.1	317.4
15.0°	317.3	318.2	319.3	320.6	321.9	321.8	323.0	321.0
20.0°	319.9	321.9	323.2	324.6	326.4	326.7	327.5	325.2
25.0°	323.0	325.4	327.2	329.2	331.3	331.5	332.5	330.1
30.0°	327.1	330.1	332.0	333.8	336.7	337.2	337.2	335.3
35.0°	331.4	331.9	335.6	338.7	341.4	342.4	343.1	340.0
40.0°	336.2	337.7	340.0	343.0	346.2	347.4	348.5	344.9
45.0°	339.2	340.4	343.2	346.7	349.9	350.4	352.3	348.9
50.0°	341.1	342.9	345.4	348.8	352.3	353.6	353.7	351.1
55.0°	341.6	344.3	346.1	349.7	352.5	355.0	354.7	352.4
60.0°	341.9	344.5	345.0	349.2	351.6	353.3	354.4	351.9
65.0°	340.1	341.8	342.8	347.1	349.6	350.3	352.3	349.5
70.0°	337.1	338.2	339.5	343.6	345.3	347.8	349.9	345.4
75.0°	333.4	333.5	333.7	339.2	340.7	342.7	344.4	341.5
80.0°	328.6	328.8	328.4	332.5	334.0	336.1	338.1	334.9
85.0°	321.8	322.6	321.8	325.6	326.5	328.2	331.2	327.4
90.0°	314.3	315.1	313.9	317.6	317.5	319.3	321.9	319.1
95.0°	306.4	305.5	304.1	307.4	308.1	309.8	311.6	309.3
100.0°	295.0	295.1	294.0	296.5	295.9	297.9	299.7	299.3
105.0°	283.0	283.7	282.8	284.7	283.7	284.9	286.8	286.5
110.0°	271.6	271.6	268.7	270.4	270.8	271.3	272.7	270.8
115.0°	259.3	258.1	256.9	258.5	256.7	257.8	257.7	254.9
120.0°	244.2	244.2	242.3	242.4	242.1	241.4	243.1	242.6
125.0°	230.3	229.1	227.1	226.5	226.5	226.0	226.5	226.1
130.0°	214.3	213.0	211.2	210.6	210.2	209.3	208.8	208.3
135.0°	196.9	197.1	195.3	194.0	192.4	191.7	190.7	189.9
140.0°	179.5	178.8	177.8	176.2	174.5	174.0	173.7	172.3
145.0°	162.3	161.5	159.2	158.0	156.4	154.6	154.6	153.4
150.0°	143.5	142.8	140.7	139.1	137.4	136.8	135.3	134.5
155.0°	125.3	124.4	124.0	121.2	118.5	117.5	116.0	115.5
160.0°	106.3	106.5	104.3	103.1	101.0	98.9	97.8	97.5
165.0°	88.6	88.4	85.3	86.3	84.3	82.3	81.2	81.1
170.0°	64.2	63.5	62.0	66.6	66.4	63.1	63.7	62.9
175.0°	22.1	18.3	25.5	28.3	29.4	39.5	30.3	29.4
180.0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Luminous Intensity (cd) Distribution Data (cont.)

C y	180°	202.5°	225°	247.5°	270°	292.5°	315°	337.5°
0.0°	314.5	314.5	314.5	314.5	314.5	314.5	314.5	314.5
5.0°	315.7	315.0	315.1	314.7	314.6	314.6	314.3	313.5
10.0°	319.0	317.9	317.2	316.0	315.8	315.2	315.1	314.9
15.0°	322.3	320.1	319.5	318.4	318.2	317.4	317.2	316.6
20.0°	326.1	325.4	322.8	321.8	321.0	320.7	320.3	320.2
25.0°	330.5	329.5	327.5	326.3	325.4	324.3	324.1	323.4
30.0°	336.3	334.5	332.4	330.7	330.3	328.7	328.5	327.8
35.0°	342.2	340.4	337.5	336.5	334.9	333.9	333.0	331.9
40.0°	347.1	345.0	342.3	340.7	339.7	338.5	336.6	336.2
45.0°	350.2	348.5	346.5	345.4	343.2	341.5	340.5	339.1
50.0°	353.5	351.3	348.0	347.3	345.7	344.3	343.7	342.1
55.0°	352.8	352.3	350.1	348.9	347.1	345.1	344.2	342.6
60.0°	354.4	352.0	349.8	349.1	346.9	345.0	344.3	341.6
65.0°	351.7	350.5	348.1	347.5	345.3	343.5	342.9	339.6
70.0°	348.6	347.1	345.0	344.5	342.2	340.4	339.8	336.2
75.0°	342.5	343.2	341.1	340.6	337.5	336.2	335.0	331.6
80.0°	337.7	336.7	334.1	334.4	331.8	330.5	329.3	326.3
85.0°	329.3	329.5	328.7	327.5	324.9	323.0	322.6	319.4
90.0°	319.5	320.9	318.9	318.0	316.6	314.7	314.3	310.3
95.0°	310.3	310.4	307.9	308.4	306.1	305.4	304.8	301.3
100.0°	298.0	298.6	298.5	297.9	296.6	294.6	294.0	290.3
105.0°	285.6	287.5	286.1	286.3	285.1	283.5	283.9	280.2
110.0°	272.6	273.5	272.0	272.7	272.6	271.4	270.9	268.5
115.0°	259.1	260.0	258.7	260.6	259.4	259.0	258.9	256.0
120.0°	243.2	244.3	244.8	245.4	244.7	244.5	245.1	242.5
125.0°	226.9	228.5	228.0	230.3	229.4	230.0	230.9	227.9
130.0°	210.2	212.0	211.0	213.1	213.2	213.8	214.6	212.5
135.0°	192.4	192.9	193.6	194.5	196.1	197.1	197.8	195.9
140.0°	173.5	175.2	175.2	176.1	177.3	179.3	179.8	178.9
145.0°	154.9	156.3	156.1	157.9	159.3	160.9	162.3	161.4
150.0°	136.2	136.7	137.1	138.7	140.4	142.3	143.4	142.7
155.0°	116.4	116.7	117.7	119.2	121.2	123.4	123.8	124.3
160.0°	97.4	97.3	99.1	100.1	101.8	104.2	104.6	105.3
165.0°	80.8	81.5	82.4	82.9	84.6	85.6	86.5	84.3
170.0°	63.0	65.3	66.2	67.0	69.2	69.0	69.0	63.2
175.0°	32.9	31.4	34.0	31.4	33.5	39.0	45.1	37.3
180.0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Zonal Lumen Density Measurement

Deg	Flux (lm)	%	Deg	Flux (lm)	%
0-5	7.5	0.21	0-5	7.5	0.21
5-10	22.6	0.64	0-10	30.1	0.85
10-15	37.8	1.06	0-15	67.9	1.91
15-20	53.0	1.49	0-20	120.9	3.40
20-25	68.3	1.92	0-25	189.1	5.33
25-30	83.5	2.35	0-30	272.7	7.68
30-35	98.6	2.78	0-35	371.3	10.45
35-40	113.3	3.19	0-40	484.6	13.64
40-45	127.2	3.58	0-45	611.8	17.23
45-50	140.1	3.94	0-50	751.9	21.17
50-55	151.4	4.26	0-55	903.3	25.44
55-60	161.1	4.54	0-60	1064.5	29.97
60-65	168.9	4.76	0-65	1233.4	34.73
65-70	174.6	4.92	0-70	1408.0	39.65
70-75	178.2	5.02	0-75	1586.2	44.66
75-80	179.6	5.06	0-80	1765.8	49.72
80-85	178.9	5.04	0-85	1944.6	54.76
85-90	176.0	4.95	0-90	2120.6	59.71
90-95	170.9	4.81	0-95	2291.5	64.52
95-100	164.0	4.62	0-100	2455.5	69.14
100-105	155.5	4.38	0-105	2611.0	73.52
105-110	145.3	4.09	0-110	2756.3	77.61
110-115	134.1	3.78	0-115	2890.4	81.39
115-120	122.0	3.43	0-120	3012.4	84.82
120-125	109.0	3.07	0-125	3121.4	87.89
125-130	95.6	2.69	0-130	3217.1	90.59
130-135	82.0	2.31	0-135	3299.1	92.89
135-140	68.6	1.93	0-140	3367.7	94.83
140-145	55.8	1.57	0-145	3423.5	96.40
145-150	43.8	1.23	0-150	3467.3	97.63
150-155	32.8	0.92	0-155	3500.1	98.56
155-160	23.3	0.66	0-160	3523.4	99.21
160-165	15.3	0.43	0-165	3538.7	99.64
165-170	8.9	0.25	0-170	3547.6	99.89
170-175	3.5	0.10	0-175	3551.0	99.99
175-180	0.4	0.01	0-180	3551.4	100.00

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. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.
3. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
4. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.
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*****END OF REPORT*****