

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: 63HID/840/277V/EX39/RC

Report Type:	Electrical and Photometric tests including: Luminous Flux, Chromaticity, Luminous Intensity Distribution
Project Engineer:	George Yang
Report Number:	RKSB210512004-10
Test Date:	2021-05-15 to 2021-05-17
Report Date:	2021-05-28
Reviewed By:	Seven Xia/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 A2LA Accreditation Number 4323.01

1. Product Description

General Information:

One sample was received on 2021-05-12 and used for testing.

Model Tested: 63HID/840/277V/EX39/RC
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: 63W
Nominal CCT: 4000K
Nominal Lumen Output: 9500lm

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
Integrating Sphere	INVENTFINE	Dia 1.5m	JWWCV090112	2020-12-23	2021-12-22
Power Meter	INVENTFINE	WT500	GSJWQ20009	2021-03-16	2022-03-15
Spectral photometer	INVENTFINE	CMS-3S	GSGSE100017	2020-12-23	2021-12-22
AC Power Supply	INVENTFINE	CHP500	JWJSD010071	2020-11-25	2021-11-24
Standard Light Source	INVENTFINE	N/A	JWWCR020105	2020-10-20	2021-10-19
Thermal Meter	ANYMETRE	TH-20E	N/A	2020-11-30	2021-11-29
DC Power Supply	INVENTFINE	WL3005	JWWCP020069	2020-11-25	2021-11-24
AC Power Supply	INVENTFINE	CHP-5KVA	900511765	2020-11-25	2021-11-24
DC Power Supply	INVENTFINE	WL3010	JWDMP030001	2020-11-25	2021-11-24
Power Meter	INVENTFINE	WT500	GSDSQ200007	2021-03-16	2022-03-15
Goniophotometer	INVENTFINE	GPM-1900	YWGCF120001	2020-12-23	2021-12-22
Wireless Weather Station	ZHONGXING	KG218	N/A	2020-11-27	2021-11-26
Standard Light Source	INVENTFINE	N/A	JWBYR040008	2020-12-23	2022-12-22

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 $U_{rel}=2.61\%$ ($k=2$), at the 95% confidence level. The uncertainty of the correlated color temperature measurements is $U=34\text{K}$ ($k=2$), at the 95% confidence level. The uncertainty of the CRI is $U=2.5(k=2)$, at the 95% confidence level.

The uncertainty of power meter AC current $U_{rel}=0.48\%$ of rdg, AC Voltage $U_{rel}=0.25\%$ of rdg, Power $U_{rel}=0.44\%$, ($k=2$), 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 $U_{rel}=2.6\%$ ($k=2$), 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**

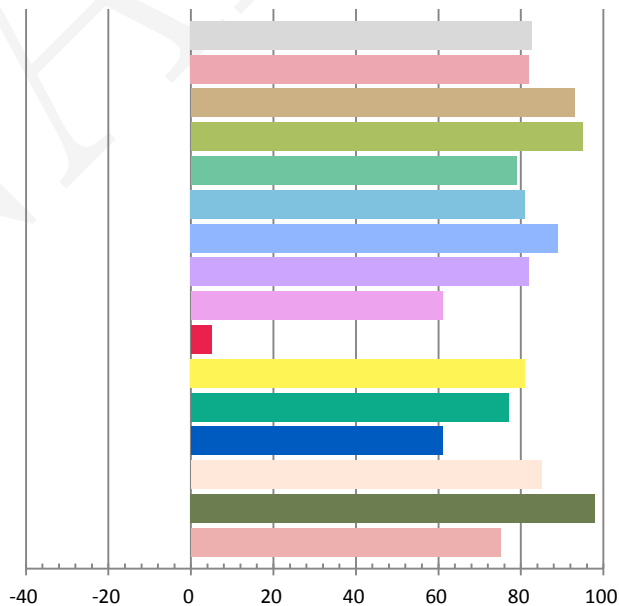
Photometric and Electrical Measurement Result

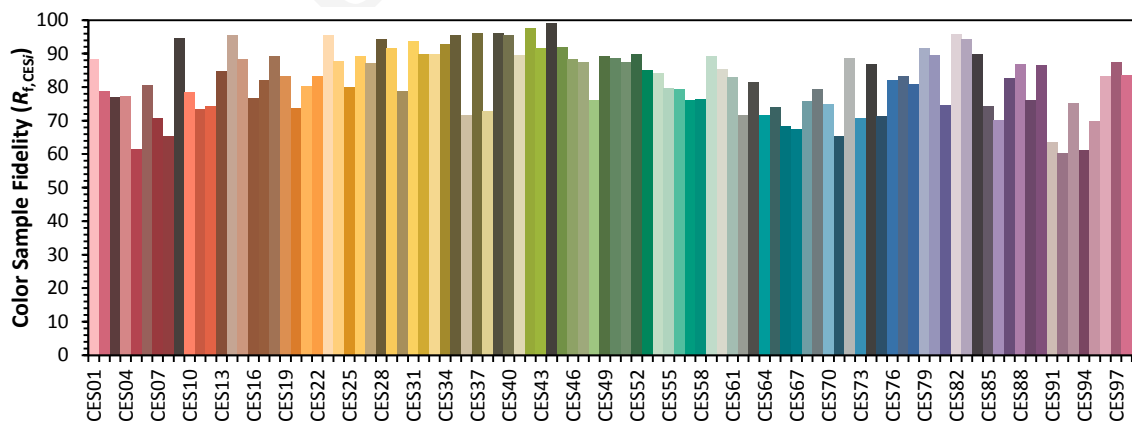
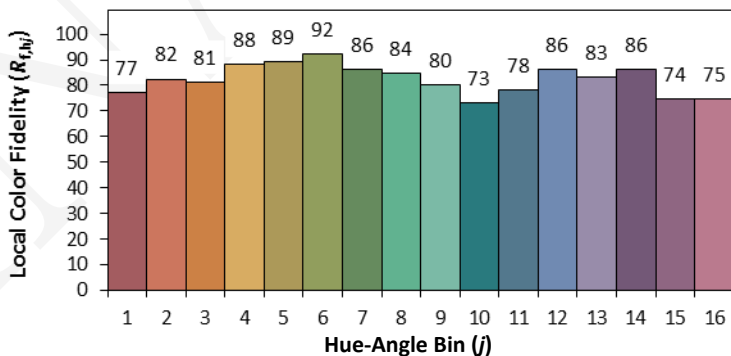
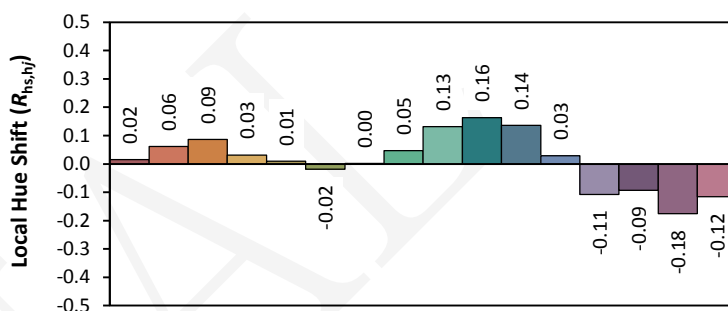
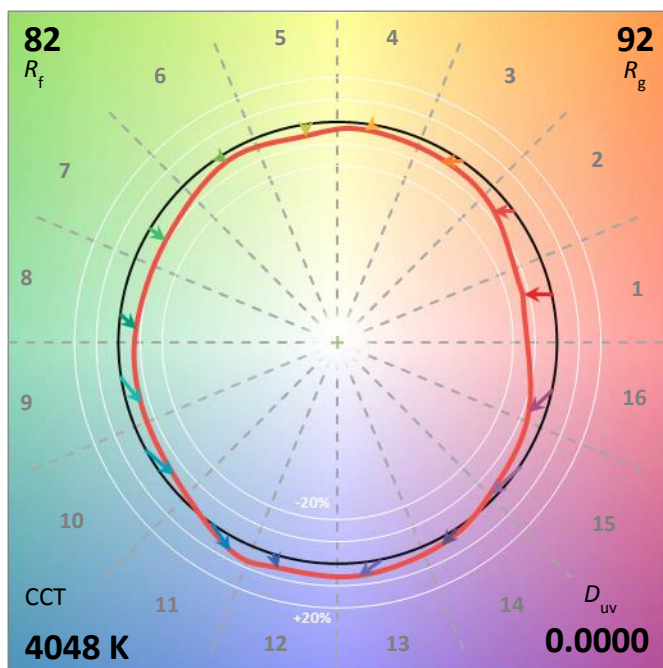
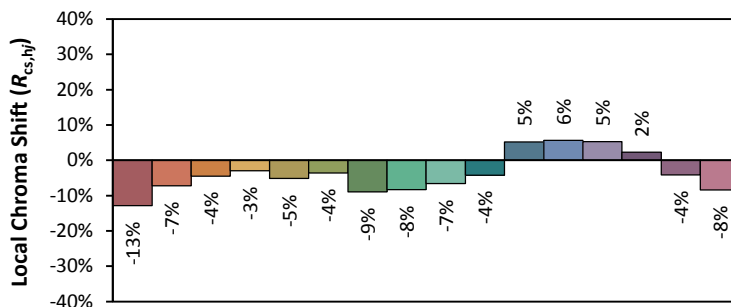
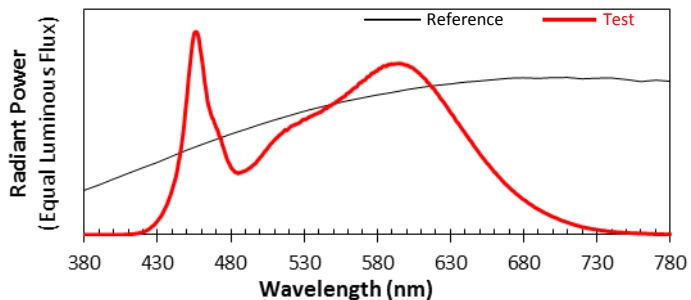
Voltage(V)	Frequency(Hz)	Current(A)	Power (W)	Power Factor	Luminous Flux(lm)	Efficacy(lm/W)
120.2	60	0.5134	60.99	0.9883	9581.57	157.11

Radiant Flux (W)	CCT (K)	Duv	x	y	u'	v'
28.822	4048	-0.00002	0.3783	0.3754	0.2243	0.5007

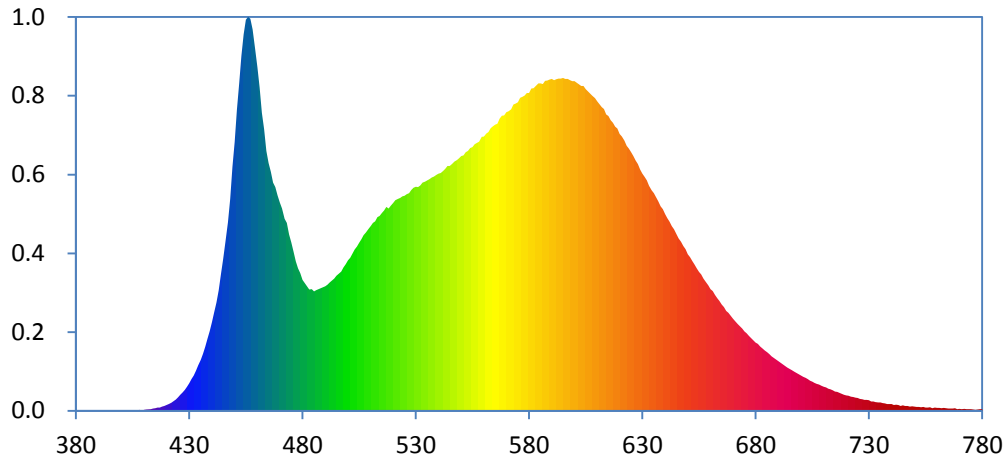
Color Rendering Index

Ra			
82.7			
R1	R2	R3	R4
82	93	95	79
R5	R6	R7	R8
81	89	82	61
R9	R10	R11	R12
5	81	77	61
R13	R14	R15	
85	98	75	





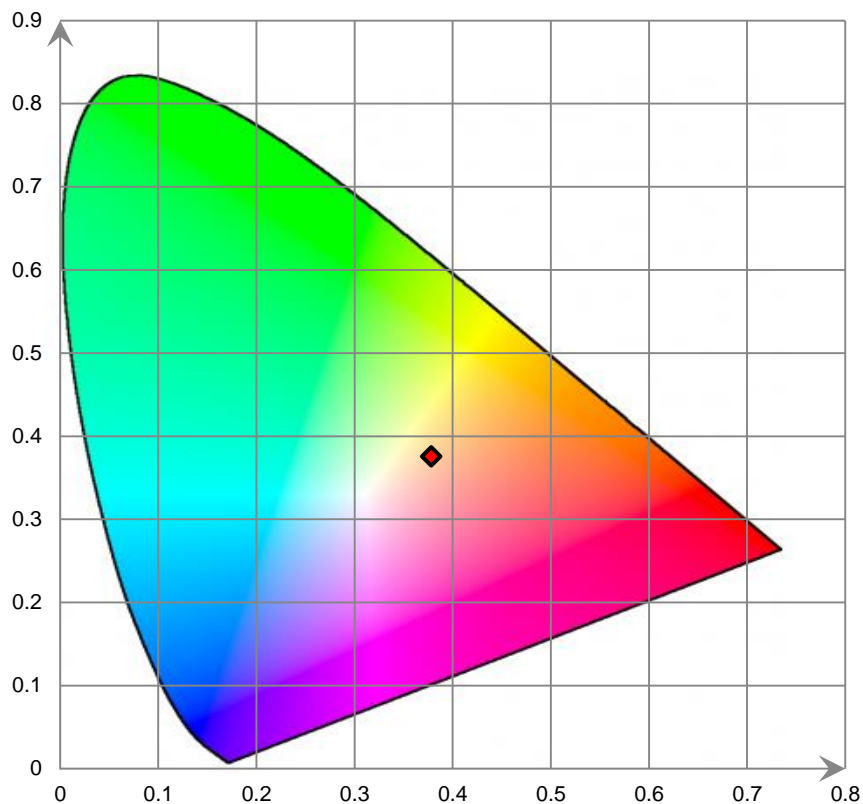
Relative Spectral Power Distribution



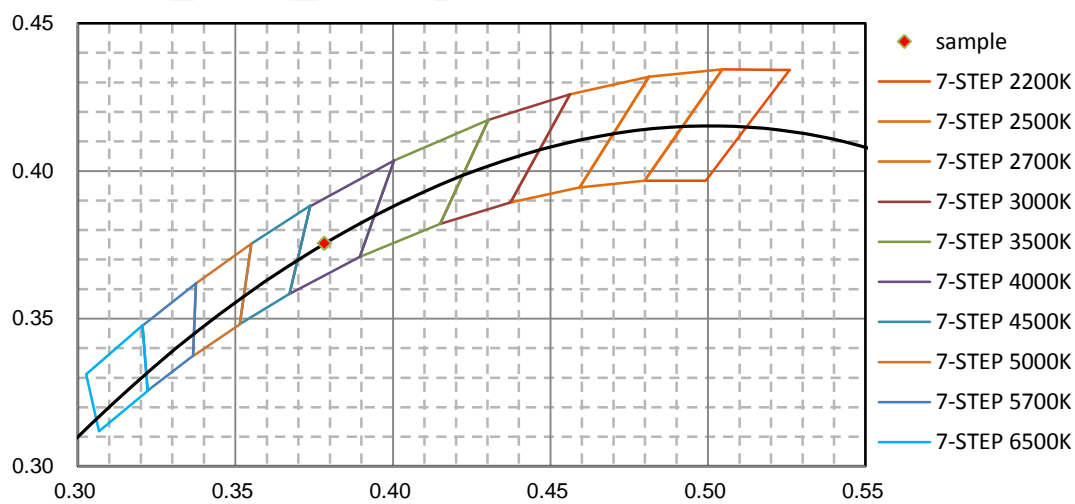
nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
380	1.106E-01	421	3.376E+00	462	1.526E+02	503	8.257E+01	544	1.254E+02
381	6.810E-02	422	4.071E+00	463	1.442E+02	504	8.406E+01	545	1.254E+02
382	1.611E-01	423	4.869E+00	464	1.331E+02	505	8.604E+01	546	1.264E+02
383	1.772E-01	424	5.740E+00	465	1.269E+02	506	8.788E+01	547	1.277E+02
384	1.422E-01	425	6.826E+00	466	1.224E+02	507	8.995E+01	548	1.283E+02
385	1.418E-01	426	8.157E+00	467	1.169E+02	508	9.132E+01	549	1.294E+02
386	2.150E-02	427	9.317E+00	468	1.146E+02	509	9.313E+01	550	1.304E+02
387	8.650E-02	428	1.064E+01	469	1.103E+02	510	9.457E+01	551	1.308E+02
388	4.520E-02	429	1.233E+01	470	1.067E+02	511	9.617E+01	552	1.325E+02
389	3.900E-02	430	1.414E+01	471	1.036E+02	512	9.708E+01	553	1.331E+02
390	1.431E-01	431	1.622E+01	472	9.838E+01	513	9.918E+01	554	1.347E+02
391	1.219E-01	432	1.793E+01	473	9.618E+01	514	9.980E+01	555	1.350E+02
392	4.640E-02	433	2.040E+01	474	9.035E+01	515	1.013E+02	556	1.365E+02
393	4.060E-02	434	2.328E+01	475	8.618E+01	516	1.026E+02	557	1.372E+02
394	7.620E-02	435	2.608E+01	476	8.146E+01	517	1.045E+02	558	1.378E+02
395	1.203E-01	436	2.919E+01	477	7.660E+01	518	1.036E+02	559	1.403E+02
396	1.901E-01	437	3.270E+01	478	7.292E+01	519	1.051E+02	560	1.405E+02
397	5.520E-02	438	3.686E+01	479	7.050E+01	520	1.064E+02	561	1.420E+02
398	6.810E-02	439	4.076E+01	480	6.709E+01	521	1.079E+02	562	1.428E+02
399	8.970E-02	440	4.548E+01	481	6.543E+01	522	1.085E+02	563	1.447E+02
400	6.180E-02	441	5.048E+01	482	6.377E+01	523	1.090E+02	564	1.456E+02
401	5.180E-02	442	5.538E+01	483	6.204E+01	524	1.098E+02	565	1.466E+02
402	1.071E-01	443	6.168E+01	484	6.227E+01	525	1.101E+02	566	1.471E+02
403	1.741E-01	444	6.976E+01	485	6.112E+01	526	1.109E+02	567	1.496E+02
404	2.139E-01	445	7.767E+01	486	6.179E+01	527	1.114E+02	568	1.511E+02
405	2.414E-01	446	8.630E+01	487	6.223E+01	528	1.130E+02	569	1.513E+02
406	2.004E-01	447	9.656E+01	488	6.277E+01	529	1.143E+02	570	1.529E+02
407	3.165E-01	448	1.086E+02	489	6.333E+01	530	1.147E+02	571	1.535E+02
408	4.288E-01	449	1.248E+02	490	6.378E+01	531	1.146E+02	572	1.544E+02
409	3.539E-01	450	1.378E+02	491	6.460E+01	532	1.155E+02	573	1.569E+02
410	5.138E-01	451	1.542E+02	492	6.572E+01	533	1.169E+02	574	1.573E+02
411	6.662E-01	452	1.675E+02	493	6.667E+01	534	1.174E+02	575	1.580E+02
412	7.387E-01	453	1.817E+02	494	6.775E+01	535	1.181E+02	576	1.603E+02
413	8.359E-01	454	1.927E+02	495	6.918E+01	536	1.187E+02	577	1.608E+02
414	1.050E+00	455	2.003E+02	496	7.019E+01	537	1.195E+02	578	1.615E+02
415	1.286E+00	456	2.018E+02	497	7.135E+01	538	1.200E+02	579	1.628E+02
416	1.547E+00	457	2.007E+02	498	7.344E+01	539	1.207E+02	580	1.629E+02
417	1.681E+00	458	1.954E+02	499	7.511E+01	540	1.215E+02	581	1.651E+02
418	2.043E+00	459	1.853E+02	500	7.707E+01	541	1.218E+02	582	1.652E+02
419	2.415E+00	460	1.761E+02	501	7.842E+01	542	1.227E+02	583	1.663E+02
420	2.903E+00	461	1.655E+02	502	8.052E+01	543	1.239E+02	584	1.677E+02

nm	mW	nm	mW	nm	mW	nm	mW	nm	mW
585	1.677E+02	626	1.304E+02	667	5.120E+01	708	1.347E+01	749	2.203E+00
586	1.673E+02	627	1.283E+02	668	5.019E+01	709	1.278E+01	750	2.154E+00
587	1.690E+02	628	1.263E+02	669	4.868E+01	710	1.222E+01	751	1.934E+00
588	1.691E+02	629	1.236E+02	670	4.717E+01	711	1.189E+01	752	1.997E+00
589	1.696E+02	630	1.215E+02	671	4.582E+01	712	1.124E+01	753	1.853E+00
590	1.699E+02	631	1.198E+02	672	4.438E+01	713	1.089E+01	754	1.875E+00
591	1.694E+02	632	1.180E+02	673	4.329E+01	714	1.045E+01	755	1.611E+00
592	1.699E+02	633	1.153E+02	674	4.205E+01	715	9.768E+00	756	1.628E+00
593	1.701E+02	634	1.129E+02	675	4.059E+01	716	9.585E+00	757	1.748E+00
594	1.702E+02	635	1.114E+02	676	3.965E+01	717	9.135E+00	758	1.299E+00
595	1.704E+02	636	1.093E+02	677	3.830E+01	718	8.712E+00	759	1.639E+00
596	1.700E+02	637	1.071E+02	678	3.717E+01	719	8.205E+00	760	1.454E+00
597	1.700E+02	638	1.047E+02	679	3.604E+01	720	7.825E+00	761	1.448E+00
598	1.693E+02	639	1.033E+02	680	3.499E+01	721	7.621E+00	762	1.352E+00
599	1.688E+02	640	1.009E+02	681	3.420E+01	722	7.209E+00	763	1.532E+00
600	1.688E+02	641	9.866E+01	682	3.296E+01	723	6.988E+00	764	1.258E+00
601	1.680E+02	642	9.692E+01	683	3.191E+01	724	6.677E+00	765	1.072E+00
602	1.672E+02	643	9.449E+01	684	3.072E+01	725	6.495E+00	766	1.040E+00
603	1.664E+02	644	9.294E+01	685	2.994E+01	726	6.121E+00	767	1.167E+00
604	1.663E+02	645	9.069E+01	686	2.900E+01	727	5.907E+00	768	1.244E+00
605	1.648E+02	646	8.839E+01	687	2.792E+01	728	5.614E+00	769	8.391E-01
606	1.636E+02	647	8.658E+01	688	2.695E+01	729	5.482E+00	770	9.063E-01
607	1.624E+02	648	8.440E+01	689	2.627E+01	730	5.333E+00	771	7.765E-01
608	1.613E+02	649	8.280E+01	690	2.532E+01	731	4.795E+00	772	9.004E-01
609	1.601E+02	650	8.020E+01	691	2.458E+01	732	4.775E+00	773	7.877E-01
610	1.585E+02	651	7.860E+01	692	2.380E+01	733	4.378E+00	774	8.460E-01
611	1.571E+02	652	7.669E+01	693	2.288E+01	734	4.248E+00	775	8.015E-01
612	1.556E+02	653	7.486E+01	694	2.220E+01	735	4.177E+00	776	6.930E-01
613	1.545E+02	654	7.299E+01	695	2.139E+01	736	3.885E+00	777	4.263E-01
614	1.518E+02	655	7.109E+01	696	2.085E+01	737	3.737E+00	778	6.909E-01
615	1.510E+02	656	6.984E+01	697	2.000E+01	738	3.445E+00	779	7.501E-01
616	1.488E+02	657	6.775E+01	698	1.933E+01	739	3.383E+00	780	7.418E-01
617	1.475E+02	658	6.610E+01	699	1.860E+01	740	3.370E+00		
618	1.455E+02	659	6.418E+01	700	1.796E+01	741	3.013E+00		
619	1.446E+02	660	6.223E+01	701	1.744E+01	742	3.097E+00		
620	1.418E+02	661	6.135E+01	702	1.684E+01	743	2.937E+00		
621	1.405E+02	662	5.927E+01	703	1.623E+01	744	2.394E+00		
622	1.384E+02	663	5.771E+01	704	1.546E+01	745	2.696E+00		
623	1.357E+02	664	5.615E+01	705	1.489E+01	746	2.428E+00		
624	1.343E+02	665	5.444E+01	706	1.422E+01	747	2.404E+00		
625	1.324E+02	666	5.306E+01	707	1.377E+01	748	2.072E+00		

CIE 1931xy Chromaticity Diagram



7-Step Chromaticity Quadrangles



[Goniophotometer System]

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

Test orientation: **Downward**

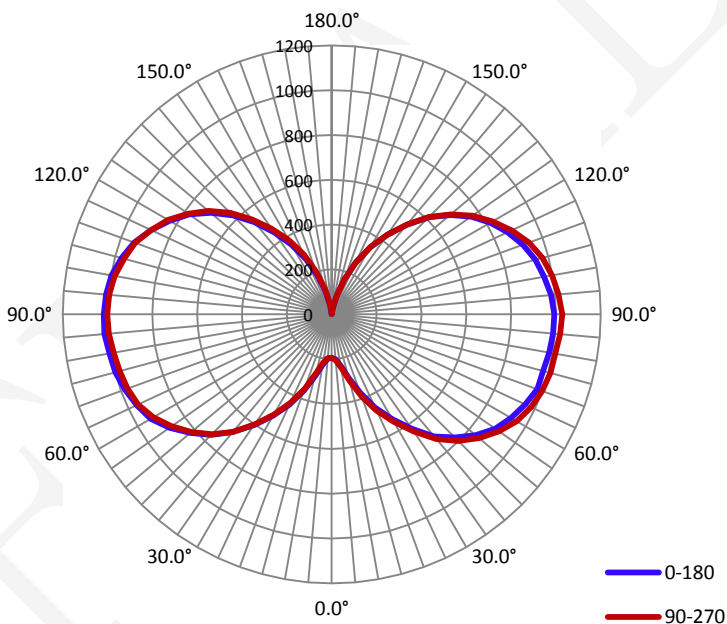
Electrical Measurement

Input Voltage(V)	Frequency(Hz)	Input Current(A)	Power (W)	Power Factor
120.0	60	0.516	61.41	0.992

Photometric Measurement

Luminous Flux(lm)	Efficacy(lm/W)	$I_{max}(cd)$	S/MH(C0/180)	S/MH(C90/270)
9648.3	157.16	1055.9	3.76	3.78

Luminous Intensity Distribution



	C0/180	C45/225	C90/270	C135/315	AVG.
Beam Angle(50% I_{max}):	282.3	282.4	282.6	282.8	282.5
Field Angle(10% I_{max}):	329.1	328.5	330.0	329.7	329.3

Luminous Intensity (cd) Distribution Data

C y	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°
0.0°	194.5	194.5	194.5	194.5	194.5	194.5	194.5	194.5
5.0°	201.8	205.2	203.8	205.1	206.2	205.4	203.8	200.3
10.0°	235.2	241.5	240.8	244.0	241.6	243.0	238.2	232.5
15.0°	295.5	301.8	306.5	306.0	306.5	307.6	299.0	290.4
20.0°	373.7	381.7	388.7	383.9	389.8	388.6	378.4	366.5
25.0°	459.9	468.1	472.3	467.5	473.4	473.6	462.6	449.2
30.0°	540.9	547.0	556.0	546.8	553.1	554.9	547.8	530.7
35.0°	623.5	621.3	642.4	626.8	637.1	635.0	632.5	609.4
40.0°	710.6	697.1	727.8	705.1	726.6	716.7	723.9	690.5
45.0°	777.7	766.7	796.1	774.1	798.1	793.1	799.7	761.7
50.0°	838.6	820.1	856.7	832.7	858.4	854.1	864.9	823.3
55.0°	889.5	865.6	908.1	882.2	910.4	905.6	921.6	871.7
60.0°	924.5	893.6	948.4	911.2	953.2	929.7	964.0	914.5
65.0°	953.0	920.1	973.7	929.7	981.2	956.6	994.8	937.5
70.0°	976.2	931.7	993.6	945.3	999.7	973.0	1018.4	949.6
75.0°	976.1	939.2	997.4	945.0	1010.0	973.6	1026.4	950.6
80.0°	984.9	938.2	1006.1	952.2	1012.5	977.2	1037.3	962.1
85.0°	990.9	945.1	1015.4	958.9	1022.8	983.7	1046.2	967.1
90.0°	993.4	951.4	1017.8	962.4	1028.7	988.7	1055.9	973.3
95.0°	983.0	939.9	1007.0	951.8	1015.8	977.6	1048.2	964.3
100.0°	962.6	918.9	984.9	934.6	998.8	959.4	1029.1	948.2
105.0°	940.9	900.2	961.3	911.0	973.7	937.2	1009.3	928.2
110.0°	907.9	865.9	924.3	877.0	936.9	906.5	971.9	897.4
115.0°	865.1	827.7	877.1	838.4	886.5	864.0	925.7	860.8
120.0°	816.7	781.7	821.8	791.7	829.2	819.4	874.0	816.7
125.0°	759.1	725.8	758.0	735.8	766.4	761.1	803.5	762.7
130.0°	690.1	660.7	687.7	664.6	694.4	690.8	729.3	694.9
135.0°	612.2	580.1	609.4	581.7	613.4	606.7	648.1	617.5
140.0°	522.4	498.0	519.5	495.9	521.9	521.1	552.2	531.9
145.0°	434.3	414.2	427.3	408.5	433.2	434.0	459.3	447.0
150.0°	346.7	334.1	332.3	320.8	347.6	347.6	362.4	362.4
155.0°	257.0	246.5	238.1	232.9	252.3	254.6	269.4	271.9
160.0°	165.9	159.3	147.6	148.2	162.4	168.0	178.5	182.6
165.0°	86.6	81.2	76.5	78.2	85.6	91.9	99.1	101.5
170.0°	29.4	25.8	23.2	25.1	25.4	32.2	39.4	40.5
175.0°	2.7	3.1	3.0	4.2	5.1	4.3	6.0	6.3
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°	194.5	194.5	194.5	194.5	194.5	194.5	194.5	194.5
5.0°	198.8	198.4	194.6	195.5	195.3	198.1	199.5	199.0
10.0°	229.4	224.2	216.9	216.4	220.7	221.2	229.6	233.2
15.0°	286.2	281.0	273.0	271.9	275.3	282.0	287.9	291.5
20.0°	363.5	356.2	347.9	346.3	353.7	356.7	369.4	366.9
25.0°	444.0	441.7	430.5	427.8	435.3	445.1	456.5	451.2
30.0°	522.5	520.3	509.1	509.0	516.7	530.9	538.5	529.7
35.0°	601.8	598.5	590.2	586.1	599.3	613.8	625.1	607.6
40.0°	686.1	673.8	677.7	664.0	686.1	689.5	712.9	687.7
45.0°	760.2	747.0	746.1	736.1	756.4	760.8	781.1	755.1
50.0°	822.5	807.8	808.4	801.0	816.8	823.0	840.7	812.7
55.0°	882.0	858.3	863.4	850.3	871.8	867.1	895.5	852.5
60.0°	932.3	888.8	918.0	886.6	918.4	911.2	934.6	888.0
65.0°	959.7	911.0	938.6	916.4	953.5	934.0	969.9	911.4
70.0°	981.9	929.4	960.5	933.0	969.3	955.5	996.3	931.8
75.0°	999.1	934.4	969.6	936.2	979.1	960.0	998.7	928.4
80.0°	1007.0	937.9	972.8	938.3	987.7	961.8	1009.8	938.4
85.0°	1017.4	950.2	988.0	952.2	998.1	971.3	1022.3	948.5
90.0°	1017.0	947.0	985.7	953.1	1001.0	976.0	1023.0	944.9
95.0°	1010.9	942.9	982.0	944.7	996.0	965.2	1016.6	939.9
100.0°	997.4	930.6	967.8	935.5	983.5	957.1	1003.4	923.4
105.0°	970.7	909.8	943.5	914.9	958.5	934.7	978.5	898.2
110.0°	937.3	884.2	915.6	889.9	932.8	908.9	949.5	870.2
115.0°	889.5	846.5	876.8	851.9	889.5	869.5	905.6	832.8
120.0°	834.8	802.9	825.9	809.0	842.5	826.7	853.0	787.8
125.0°	776.4	748.9	768.0	756.2	783.3	770.6	792.7	734.8
130.0°	704.0	686.2	701.3	694.0	717.7	703.6	722.8	668.7
135.0°	625.1	611.5	627.4	617.1	640.2	625.4	645.6	590.9
140.0°	537.2	531.2	542.2	534.3	552.4	540.9	553.9	510.0
145.0°	444.2	448.7	453.3	454.0	465.4	459.1	466.7	433.2
150.0°	358.2	366.9	369.9	372.6	380.4	377.5	377.5	348.3
155.0°	271.9	280.9	285.3	286.7	294.7	292.4	289.0	260.9
160.0°	184.4	161.0	194.8	199.9	204.6	198.9	193.1	173.7
165.0°	102.8	84.7	105.4	115.8	118.5	112.7	107.4	94.9
170.0°	41.2	45.3	45.9	48.2	51.1	48.3	31.8	30.1
175.0°	5.1	3.4	6.9	11.2	12.2	11.3	6.3	6.0
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)	%
0-5	4.7	0.05
5-10	15.5	0.16
10-15	31.0	0.32
15-20	54.5	0.56
20-25	86.3	0.89
25-30	125.1	1.30
30-35	169.4	1.76
35-40	219.3	2.27
40-45	271.8	2.82
45-50	323.2	3.35
50-55	372.0	3.86
55-60	416.2	4.31
60-65	453.7	4.70
65-70	484.0	5.02
70-75	505.9	5.24
75-80	520.9	5.40
80-85	533.3	5.53
85-90	540.7	5.60
90-95	539.1	5.59
95-100	528.5	5.48
100-105	510.2	5.29
105-110	484.3	5.02
110-115	450.8	4.67
115-120	410.9	4.26
120-125	366.0	3.79
125-130	316.8	3.28
130-135	264.7	2.74
135-140	212.0	2.20
140-145	162.1	1.68
145-150	117.7	1.22
150-155	79.0	0.82
155-160	46.6	0.48
160-165	22.5	0.23
165-170	7.9	0.08
170-175	1.5	0.02
175-180	0.1	0.00

Deg	Flux (lm)	%
0-5	4.7	0.05
0-10	20.2	0.21
0-15	51.2	0.53
0-20	105.7	1.10
0-25	192.0	1.99
0-30	317.1	3.29
0-35	486.5	5.04
0-40	705.7	7.31
0-45	977.5	10.13
0-50	1300.7	13.48
0-55	1672.8	17.34
0-60	2089.0	21.65
0-65	2542.7	26.35
0-70	3026.7	31.37
0-75	3532.6	36.61
0-80	4053.5	42.01
0-85	4586.8	47.54
0-90	5127.6	53.14
0-95	5666.7	58.73
0-100	6195.2	64.21
0-105	6705.4	69.50
0-110	7189.7	74.52
0-115	7640.5	79.19
0-120	8051.3	83.45
0-125	8417.4	87.24
0-130	8734.2	90.53
0-135	8998.9	93.27
0-140	9210.9	95.47
0-145	9373.0	97.15
0-150	9490.7	98.37
0-155	9569.7	99.19
0-160	9616.3	99.67
0-165	9638.8	99.90
0-170	9646.7	99.98
0-175	9648.2	100.00
0-180	9648.3	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*****