

IN THE UNITED STATES DISTRICT COURT
FOR THE WESTERN DISTRICT OF PENNSYLVANIA

PROMIER PRODUCTS, INC.,

Plaintiff,

v.

GEARONZ, *et al.*,

Defendants.

Case No.

FILED UNDER SEAL

DECLARATION OF DAVID WAY

I, David Way, declare and state as follows:

1. I am over eighteen (18) years of age. I have never been convicted of a felony or any criminal offense involving moral turpitude, and I am competent to testify to the matters stated herein. This declaration is based upon my personal knowledge of the facts stated herein or on the business records that were made at the time or in the regular course of business. If called as a witness, I could and would testify to the statements made herein.

2. I have a Degree in Manufacturing Engineering and am currently employed at Elite Electronic Engineering, Inc., as an Environmental Test Engineer. I have worked there for 3 years and have 3 years of experience in the product qualification and compliance testing industry.

3. Counsel for Premier Products, Inc., the plaintiff in this action, commissioned Elite Electronic Engineering, Inc. to conduct photometric luminous flux testing on 267 flashlights to obtain an accurate measurement of the Lumen output of each device. A true and correct copy of the test report (Engineering Test Report No. 2500113-01, dated March 28, 2025) detailing the results of the testing on these flashlights is attached hereto (hereinafter the "Test Report").

4. Elite Electronic Engineering, Inc. is accredited by the American Association for Laboratory Accreditation as an ISO/IEC 17025:2017 laboratory. This accreditation certifies Elite Electronic Engineering, Inc.'s competency to conduct ANSI/PLATO FL 1-2019 complaint photometric testing on handheld flashlights and headlamps to measure light output, beam intensity/distance, run time, and impact and water resistance.

5. ANSI/PLATO FL 1-2019 is the leading standard for testing and reporting methods in the portable lighting industry. The standard was developed by the Portable Lights American Trade Organization, industry experts, and stakeholders to create accountability and consistency and has been widely adopted throughout the industry.

6. Elite Electronic Engineering, Inc.'s photometric testing lab is fully equipped with state-of-the-art measurement equipment to ensure the accuracy of testing. Luminous Flux testing measures the light output of a device and is quantified in Lumens. This testing is completed using a 2-meter Integrating Sphere with spectroradiometer for 4pi and 2pi geometries. The equipment used can measure up to 159,000 Lumens.

7. I conducted photometric luminous flux testing on each of the 267 flashlights provided by counsel. The methodology and procedures described in Section 11.1.2 of the Test Report accurately reflect those used during the testing process. The tests were conducted under conditions which meet or exceed the testing specifications set forth in the ANSI/PLATO FL 1-2019 standard, with any deviations noted.

8. The Test Report accurately states the Lumen output of each flashlight as determined by industry standard testing. The luminous flux of the tested flashlights measured between 58 and 90,901 Lumens. The number of Lumens produced by each tested device is shown in the charts on

pages 10-22 in Section 11.1.4 of the Test Report. Section 13 of the Test Report contains the detailed results of each individual test.

I declare under penalty of perjury that the foregoing is true and correct.

Dated: March 31, 2025

/s / David Way
David Way

ATTACHMENT



Environmental Tests on Flashlights/Headlamps

For	Ference & Associates LLC 409 Broad St Pittsburgh, PA 15143
P.O. Number	On Account
Date Tested	2/7/2025 – 3/19/2025
Test Personnel	David Way
Test Specification	ANSI/PLATO FL 1-2019

Test Report By:

David Way
ENV Engineer

Requested By:

Stanley Ference
Ference & Associates LLC

Approved By:

Mark Gabalewicz
Environmental Team Leader
Senior Mechanical Engineer

Elite Electronic Engineering Inc.

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1. REPORT REVISION HISTORY

Revision	Date	Description
-	March 28, 2025	Initial release

2. INTRODUCTION

This document presents the results of a series of environmental (ENV) tests that were performed on (267) Flashlights/Headlamps (hereinafter referred to as the Device Under Test (DUT)). The DUTs were identified as follows:

Part ID: N/A	S/N FL001 - FL264
	FL266
	FL006-2
	FL044-2

3. TEST SPECIFICATION

The test was performed in accordance with ANSI/PLATO FL 1-2019 with deviation listed in Section 4.

4. MODIFICATIONS MADE TO DUT AND/OR DEVIATIONS TO THE TEST SPECIFICATION DURING TESTING

No modifications were made to the DUTs during the testing.

One deviation from the test specification was made during the testing:

- Only one or two DUTs of each model number were tested, instead of 3 as stated in ANSI/PLATO FL 1-2019 Section 1.3.2

5. SUMMARY

The following ENV test was performed, and the results are shown below:

Test Description	Specification Section	Test Results	S/N	Date Tested
Light Output (FL 1)	ANSI/PLATO FL 1-2019 (Section 2.5) with deviation listed in Section 4	See Section 11.1.4	FL001 - FL264, FL266, FL006-2, FL044-2	2/7/25 – 3/19/25

6. OPERATION STATES

The ENV test was performed with the DUTs operating in one or more of the test modes described below.

6.1. Powered, Power Supply 12V

FL188 and FL244 were powered with 12VDC throughout the test.

6.2. Powered, Power Supply 5V

FL241 was powered with 5VDC throughout the test.

6.3. Powered, Battery

All DUTs not listed in Sections 6.1 and 6.2 were powered with a fully charged internal battery throughout the test.

7. PERFORMANCE MONITORING

The DUTs were not monitored during testing.

8. ACCEPTANCE CRITERIA

The DUTs must adhere to the requirements found in each test section of this report.

9. CERTIFICATION

Elite Electronic Engineering Incorporated certifies that the information contained in this report was obtained under conditions which meet or exceed those specified in the test specification, except if noted otherwise. The data presented in this test report pertains to the DUTs as provided by the customer at the test date as operated and monitored by Elite personnel. Any electrical or mechanical modification made to the DUTs subsequent to the specified test date will serve to invalidate the data and void this certification.

10. DEVICE UNDER TEST



Typical DUT Photographs



Typical DUT Photograph

11. TEST SECTIONS

11.1. Light Output (FL 1)

11.1.1. Test Objective:

Measure and record the total luminous flux output (lumens) by the DUTs between 30 seconds and 2 minutes of operation per ANSI/PLATO FL 1-2019 Section 2.5 with deviation listed in Section 4.

11.1.2. Test Procedure:

The test was conducted in accordance with ANSI/PLATO FL 1-2019 Section 2.5 with deviation listed in Section 4.

The DUTs were mounted outside the sphere in a 2pi position and aimed horizontally into the sphere with a baffle in place to prevent direct light from entering the spectroradiometer. The DUTs' lenses were adjusted to the setting that produces the maximum light output. The DUTs were powered on to confirm the baffle was properly placed. The DUTs were then powered off and a self-absorption correction scan was performed.

The DUTs were then powered ON for at least 30 seconds and the measurement was recorded prior to 2 minutes of operation. The spectroradiometer saturation level was verified between 75 and 85%. This process was repeated for each DUT and mode as specified by the customer, and the DUTs were fully charged prior to each measurement. Correction factors applied include spectrometer stray light correction, dark correction, and self-absorption correction.

11.1.3. Description of Test Apparatus:

Eq ID	Equipment Description	Manufacturer	Model No.	Serial No.	Frequency Range	Cal Date	Due Date
MDC39	MULTIMETER (D. WAY)	FLUKE	179	21040206	I;VDC;VAC;R	2/26/2025	2/26/2026
MDC39	MULTIMETER (D. WAY)	FLUKE	179	21040206	I;VDC;VAC;R	2/23/2024	2/23/2025
MRK19	HYGRO-THERMOMETER	EXTECH	445703	0622	---	2/6/2025	2/6/2027
PHT01	LABSPHERE PHOTOMETRY	LABSPHERE	ILLUMINA PLUS	0313172858	350nm-1050nm	CBU	
PHT10	INTEGRATING SPHERE	LABSPHERE	ILLUMIAPLUS LM-195	0428164553	----	CNR	
PHT11	SPECTRORADIOMETER	LABSPHERE	CDS 2600	0313172858	---	12/4/2024	12/4/2025
PHT112	CONTROL MODULE	LABSPHERE	ICM-500	0914203588	---	CNR	
PHT113	DC POWER SUPPLY	LABSPHERE	LPS-525-42	190615327	---	11/29/2024	11/29/2025
PHT12A	TEMPERATURE MONITOR	PICO	USB TC08	A0031/650	---	3/7/2024	4/7/2025
SMAQ	DC POWER SUPPLY	VOLTEQ	HY3020EX	020177895	30VDC/20A	CNR	

CNR: Calibration Not Required

CBU: Calibrated Before Use

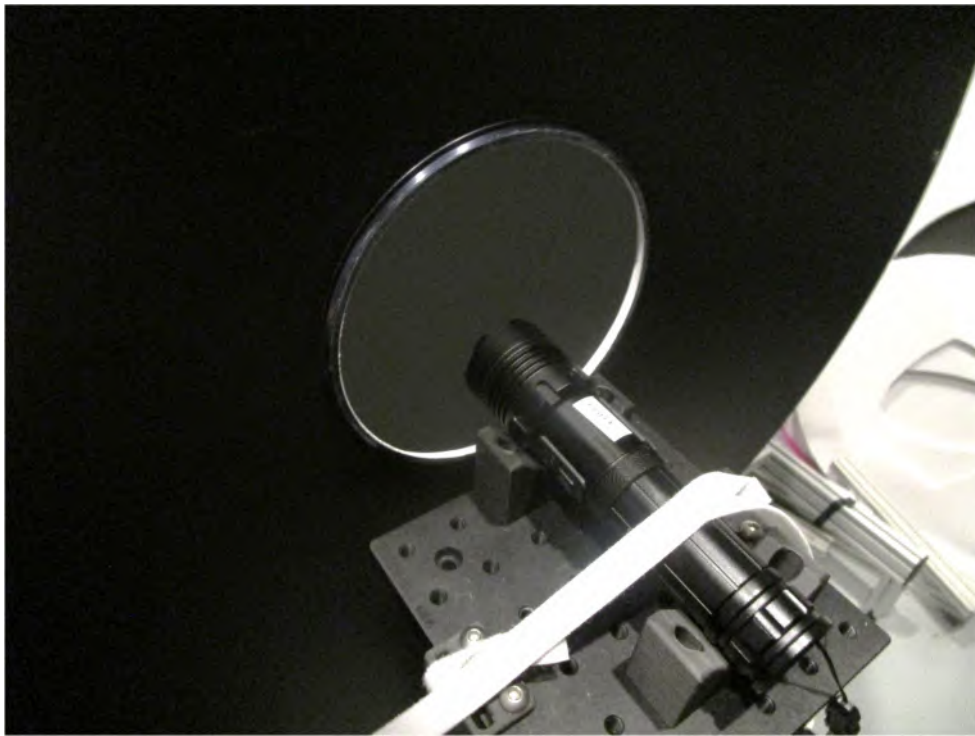
I/O: Initial Only

N/A: Not Applicable

Note 1: For the purpose of this test, the equipment was verified prior to the test or monitored by a calibrated instrument.

11.1.4. Test Results:

The DUTs were subjected to and completed Light Output (FL 1) testing per ANSI/PLATO FL 1-2019 Section 2.5 with deviation listed in Section 4. The measurements used to determine Light Output are summarized on the following pages. The DUTs functioned properly, and no damage was noted. The DUTs were returned to the customer for further evaluation.



Typical Test Setup Photographs

Light Output Results Sorted by DUT S/N				
DUT / Mode	Ambient Temperature (°C)	CCT (K)	CRI	Total Luminous Flux (lumens)
FL001	24.0	9868	76	1218
FL002	25.1	8356	76	1375
FL003	24.6	18819	75	355
FL004	25.2	8402	75	529
FL005	24.5	11096	73	693
FL006-1	25.3	9191	77	307
FL006-2	25.3	8412	79	325
FL007	25.2	10511	69	672
FL008	25.2	7739	75	1254
FL009	24.5	9662	75	358
FL010	24.5	11059	76	454
FL011	24.9	11819	71	363
FL012	24.6	9494	77	366
FL013	23.9	8314	77	529
FL014	25.1	10155	75	1040
FL015	25.0	10011	78	415
FL016	25.4	9639	79	532
FL017	25.8	6968	71	965
FL018	24.5	8322	75	551
FL019	24.9	12564	75	520
FL020	24.9	9214	76	379
FL021	24.9	11063	80	572
FL022	24.5	8624	70	782
FL023	24.8	8727	78	1182
FL024	25.1	10777	75	835
FL025	25.2	13025	76	543
FL026	24.8	10562	83	284
FL027	24.2	11242	76	768
FL028	25.5	11940	76	523
FL029	25.3	10253	76	421
FL030	25.5	8858	77	1711
FL031	25.3	10941	78	385
FL032	23.9	8727	74	415
FL033	24.1	7962	75	521
FL034	24.5	8755	70	312
FL035	25.0	10011	79	520
FL036	24.5	20000	74	2741
FL037	24.6	10078	78	1462
FL038	23.8	11130	78	716
FL039	23.7	12162	78	753
FL040	24.0	14916	78	823
FL041	24.9	9739	77	1175
FL042	24.7	10061	77	274
FL043	24.2	8878	74	538
FL044	25.4	17699	81	457

Light Output Results Sorted by DUT S/N				
DUT / Mode	Ambient Temperature (°C)	CCT (K)	CRI	Total Luminous Flux (lumens)
FL044-2	24.6	16464	79	546
FL045	24.8	8802	73	452
FL046	23.8	9574	76	370
FL047	24.6	8085	70	908
FL048	24.5	11628	78	1378
FL049	24.5	9605	72	320
FL050	24.8	11456	77	376
FL051	24.5	11763	70	451
FL052	24.6	15960	73	366
FL053	24.9	9298	74	434
FL054	24.5	8722	77	396
FL055	24.6	8425	76	1348
FL056	24.3	10849	75	437
FL057	23.6	9870	74	563
FL058	24.4	13553	76	417
FL059	24.4	9056	78	58
FL060	24.2	9834	75	754
FL061	24.9	16361	74	756
FL062	24.5	9277	78	378
FL063	24.1	9662	72	1170
FL064	24.3	8948	79	969
FL065	24.6	9287	77	829
FL066	23.7	7522	72	368
FL067	24.6	9433	76	488
FL068	25.0	6581	73	641
FL069	24.6	10174	83	444
FL070	25.0	8593	68	352
FL071	24.3	13262	72	689
FL072	24.7	7216	74	771
FL073	24.1	9144	75	3909
FL074	23.8	9273	76	359
FL075	24.6	5950	74	1745
FL076	24.2	8556	79	510
FL077	24.3	7285	72	648
FL078	24.2	10684	76	434
FL079	24.2	8948	72	819
FL080	24.6	16514	74	698
FL081	24.7	12038	74	594
FL082	24.1	10750	74	2359
FL083	24.5	9431	74	457
FL084	24.9	6288	73	794
FL085	24.3	11940	75	645
FL086	24.9	9175	76	842
FL087	24.5	10444	77	636
FL088	24.6	17818	76	629

Light Output Results Sorted by DUT S/N				
DUT / Mode	Ambient Temperature (°C)	CCT (K)	CRI	Total Luminous Flux (lumens)
FL089	25.0	7021	74	1320
FL090	24.9	9193	73	1199
FL091	24.6	10700	71	699
FL092	23.8	7686	74	1309
FL093	25.0	9275	72	1071
FL094	24.6	7647	72	1073
FL095	24.1	11812	76	1417
FL096	24.1	7725	71	636
FL097	25.0	8502	71	335
FL098	24.5	8711	77	1003
FL099	25.1	9031	75	3387
FL100	24.6	9681	68	705
FL101	24.6	6444	72	1104
FL102	24.6	9623	73	999
FL103	24.1	11661	74	1854
FL104	24.9	10472	75	637
FL105	23.9	12576	80	769
FL106	24.7	6259	72	500
FL107	23.8	6536	72	952
FL108	24.8	5087	72	1037
FL109	24.7	8488	78	439
FL110	24.6	11251	76	454
FL111	24.8	6129	71	569
FL112	24.3	10206	76	669
FL113	24.7	7801	72	806
FL114	24.2	9662	75	1698
FL115	23.9	8140	75	953
FL116	24.7	8737	77	1272
FL117	24.7	12066	74	386
FL118	24.1	8517	73	597
FL119	23.8	12332	79	368
FL120	25.4	8677	77	1440
FL121	25.2	9991	72	529
FL122	24.8	10018	72	663
FL123	25.3	9878	70	194
FL124	24.0	7737	73	1151
FL125	25.5	10652	72	491
FL126	23.9	10707	84	304
FL127	24.0	7552	69	1782
FL128	24.6	8725	76	987
FL129	22.8	8016	75	413
FL130	24.9	7035	68	860
FL131	24.7	6693	73	1406
FL132	24.8	14993	78	573
FL133	24.2	12978	78	804

Light Output Results Sorted by DUT S/N				
DUT / Mode	Ambient Temperature (°C)	CCT (K)	CRI	Total Luminous Flux (lumens)
FL134	26.2	8308	73	426
FL135	23.8	8519	76	985
FL136	24.3	8099	77	726
FL137	23.7	8241	72	749
FL138	25.2	9783	74	720
FL139	24.0	9764	77	491
FL140	24.0	6831	73	1332
FL141	24.9	9747	74	1104
FL142	24.0	8230	78	518
FL143	24.2	11179	74	616
FL144	24.9	7761	75	146
FL145	25.5	6283	72	90901
FL146	24.4	8679	76	783
FL147	24.0	10926	74	726
FL148	24.3	8129	73	226
FL149	23.9	8054	72	561
FL150	24.0	9197	77	497
FL151	25.4	6388	69	1371
FL152	24.0	8104	72	229
FL153	24.3	8573	75	704
FL154	23.9	8229	79	734
FL155	23.9	10818	78	269
FL156	24.9	11457	83	408
FL157	24.0	9343	77	1152
FL158	23.9	11328	77	265
FL159	24.8	6796	72	468
FL160	23.6	9893	73	610
FL161	24.7	8111	71	1317
FL162	23.5	8967	75	1490
FL163	25.0	8484	71	248
FL164	24.7	7013	73	731
FL165	24.5	9574	73	800
FL166	25.1	9445	76	754
FL167	23.9	9753	74	639
FL168	25.0	5916	72	975
FL169	24.3	7554	71	481
FL170	23.1	7706	72	862
FL171	24.0	17268	73	972
FL172	25.3	7698	73	597
FL173	25.3	5978	69	1768
FL174	25.7	8500	73	493
FL175	24.6	5993	71	204
FL176	25.4	8943	77	375
FL177	25.7	9359	83	1193
FL178	24.5	6378	71	532

Light Output Results Sorted by DUT S/N				
DUT / Mode	Ambient Temperature (°C)	CCT (K)	CRI	Total Luminous Flux (lumens)
FL179	24.1	6500	73	10298
FL180	24.0	7769	73	925
FL181	23.7	5944	67	583
FL182	24.4	7401	76	1253
FL183	24.6	8822	74	1020
FL184	25.0	9186	75	614
FL185	25.3	9774	76	1099
FL186	24.4	9129	74	494
FL187	24.9	10232	74	1310
FL188	24.1	6785	71	1957
FL189	24.3	7492	73	650
FL190	26.8	6406	71	1126
FL191	24.9	8943	74	1370
FL192	24.9	10560	81	162
FL193	25.1	9591	80	1104
FL194	25.5	9665	78	738
FL195	25.4	9031	78	1040
FL196	24.2	8026	77	828
FL197	25.1	6881	70	1339
FL198	23.7	9034	75	594
FL199	26.7	6764	74	565
FL200	25.7	12900	73	2317
FL201	24.0	6241	75	1648
FL202	24.2	6852	70	2483
FL203	24.5	8162	76	443
FL204	24.0	7302	73	1077
FL205	24.1	7403	75	543
FL206	25.2	8301	70	479
FL207	24.6	10285	74	361
FL208	24.8	6623	72	977
FL209	24.1	10386	79	1181
FL210	24.7	8283	73	1592
FL211	24.4	8897	73	1268
FL212	24.7	9747	79	926
FL213	24.1	6132	72	1629
FL214	24.2	7765	72	694
FL215	24.6	7854	73	549
FL216	25.6	9176	77	1402
FL217	24.6	8519	79	526
FL218	24.9	9812	73	587
FL219	25.0	10466	77	768
FL220	24.9	9963	75	365
FL221	25.1	16171	84	269
FL222	24.3	5458	69	944
FL223	22.6	7419	71	338

Light Output Results Sorted by DUT S/N				
DUT / Mode	Ambient Temperature (°C)	CCT (K)	CRI	Total Luminous Flux (lumens)
FL224	25.0	7286	71	321
FL225	24.9	6704	72	27135
FL226	24.7	7666	81	540
FL227	26.4	10266	73	620
FL228	24.8	7252	74	557
FL229	25.5	6690	70	457
FL230	23.9	8085	79	200
FL231	24.5	8679	71	561
FL232	24.8	7086	71	338
FL233	24.7	7740	75	558
FL234	24.6	10288	72	759
FL235	25.1	7338	70	480
FL236	24.2	6954	69	443
FL237	24.6	15304	76	370
FL238	24.3	9107	73	542
FL239	24.8	6105	78	3769
FL240	24.9	6504	71	341
FL241	24.3	6537	72	683
FL242	23.7	14893	76	342
FL243	24.0	6173	69	3465
FL244	24.9	3109	99	980
FL245	24.2	9878	72	387
FL246	24.0	8837	74	1553
FL247	24.3	9850	77	344
FL248	24.3	18667	75	890
FL249	24.6	8273	77	471
FL250	24.1	10194	75	1829
FL251	24.0	11133	79	386
FL252	24.4	13495	77	436
FL253	24.2	8872	74	1559
FL254	24.4	10270	72	140
FL255	24.2	6596	74	726
FL256	24.3	10569	74	1032
FL257	25.6	9707	76	613
FL258	25.6	7610	72	268
FL259	24.4	9159	75	1555
FL260	24.4	10798	75	623
FL261	24.2	8707	72	1881
FL262	25.5	9081	74	1081
FL263	24.1	8786	72	546
FL264	24.3	6795	68	1343
FL266	24.3	8910	73	104

Light Output Results (Sorted by DUT S/N)

Light Output Results Sorted by Total Luminous Flux				
DUT / Mode	Ambient Temperature (°C)	CCT (K)	CRI	Total Luminous Flux (lumens)
FL145	25.5	6283	72	90901
FL225	24.9	6704	72	27135
FL179	24.1	6500	73	10298
FL073	24.1	9144	75	3909
FL239	24.8	6105	78	3769
FL243	24.0	6173	69	3465
FL099	25.1	9031	75	3387
FL036	24.5	20000	74	2741
FL202	24.2	6852	70	2483
FL082	24.1	10750	74	2359
FL200	25.7	12900	73	2317
FL188	24.1	6785	71	1957
FL261	24.2	8707	72	1881
FL103	24.1	11661	74	1854
FL250	24.1	10194	75	1829
FL127	24.0	7552	69	1782
FL173	25.3	5978	69	1768
FL075	24.6	5950	74	1745
FL030	25.5	8858	77	1711
FL114	24.2	9662	75	1698
FL201	24.0	6241	75	1648
FL213	24.1	6132	72	1629
FL210	24.7	8283	73	1592
FL253	24.2	8872	74	1559
FL259	24.4	9159	75	1555
FL246	24.0	8837	74	1553
FL162	23.5	8967	75	1490
FL037	24.6	10078	78	1462
FL120	25.4	8677	77	1440
FL095	24.1	11812	76	1417
FL131	24.7	6693	73	1406
FL216	25.6	9176	77	1402
FL048	24.5	11628	78	1378
FL002	25.1	8356	76	1375
FL151	25.4	6388	69	1371
FL191	24.9	8943	74	1370
FL055	24.6	8425	76	1348
FL264	24.3	6795	68	1343
FL197	25.1	6881	70	1339
FL140	24.0	6831	73	1332
FL089	25.0	7021	74	1320
FL161	24.7	8111	71	1317
FL187	24.9	10232	74	1310
FL092	23.8	7686	74	1309
FL116	24.7	8737	77	1272

Light Output Results Sorted by Total Luminous Flux				
DUT / Mode	Ambient Temperature (°C)	CCT (K)	CRI	Total Luminous Flux (lumens)
FL211	24.4	8897	73	1268
FL008	25.2	7739	75	1254
FL182	24.4	7401	76	1253
FL001	24.0	9868	76	1218
FL090	24.9	9193	73	1199
FL177	25.7	9359	83	1193
FL023	24.8	8727	78	1182
FL209	24.1	10386	79	1181
FL041	24.9	9739	77	1175
FL063	24.1	9662	72	1170
FL157	24.0	9343	77	1152
FL124	24.0	7737	73	1151
FL190	26.8	6406	71	1126
FL141	24.9	9747	74	1104
FL101	24.6	6444	72	1104
FL193	25.1	9591	80	1104
FL185	25.3	9774	76	1099
FL262	25.5	9081	74	1081
FL204	24.0	7302	73	1077
FL094	24.6	7647	72	1073
FL093	25.0	9275	72	1071
FL195	25.4	9031	78	1040
FL014	25.1	10155	75	1040
FL108	24.8	5087	72	1037
FL256	24.3	10569	74	1032
FL183	24.6	8822	74	1020
FL098	24.5	8711	77	1003
FL102	24.6	9623	73	999
FL128	24.6	8725	76	987
FL135	23.8	8519	76	985
FL244	24.9	3109	99	980
FL208	24.8	6623	72	977
FL168	25.0	5916	72	975
FL171	24.0	17268	73	972
FL064	24.3	8948	79	969
FL017	25.8	6968	71	965
FL115	23.9	8140	75	953
FL107	23.8	6536	72	952
FL222	24.3	5458	69	944
FL212	24.7	9747	79	926
FL180	24.0	7769	73	925
FL047	24.6	8085	70	908
FL248	24.3	18667	75	890
FL170	23.1	7706	72	862
FL130	24.9	7035	68	860

Light Output Results Sorted by Total Luminous Flux				
DUT / Mode	Ambient Temperature (°C)	CCT (K)	CRI	Total Luminous Flux (lumens)
FL086	24.9	9175	76	842
FL024	25.1	10777	75	835
FL065	24.6	9287	77	829
FL196	24.2	8026	77	828
FL040	24.0	14916	78	823
FL079	24.2	8948	72	819
FL113	24.7	7801	72	806
FL133	24.2	12978	78	804
FL165	24.5	9574	73	800
FL084	24.9	6288	73	794
FL146	24.4	8679	76	783
FL022	24.5	8624	70	782
FL072	24.7	7216	74	771
FL105	23.9	12576	80	769
FL219	25.0	10466	77	768
FL027	24.2	11242	76	768
FL234	24.6	10288	72	759
FL061	24.9	16361	74	756
FL060	24.2	9834	75	754
FL166	25.1	9445	76	754
FL039	23.7	12162	78	753
FL137	23.7	8241	72	749
FL194	25.5	9665	78	738
FL154	23.9	8229	79	734
FL164	24.7	7013	73	731
FL136	24.3	8099	77	726
FL147	24.0	10926	74	726
FL255	24.2	6596	74	726
FL138	25.2	9783	74	720
FL038	23.8	11130	78	716
FL100	24.6	9681	68	705
FL153	24.3	8573	75	704
FL091	24.6	10700	71	699
FL080	24.6	16514	74	698
FL214	24.2	7765	72	694
FL005	24.5	11096	73	693
FL071	24.3	13262	72	689
FL241	24.3	6537	72	683
FL007	25.2	10511	69	672
FL112	24.3	10206	76	669
FL122	24.8	10018	72	663
FL189	24.3	7492	73	650
FL077	24.3	7285	72	648
FL085	24.3	11940	75	645
FL068	25.0	6581	73	641

Light Output Results Sorted by Total Luminous Flux				
DUT / Mode	Ambient Temperature (°C)	CCT (K)	CRI	Total Luminous Flux (lumens)
FL167	23.9	9753	74	639
FL104	24.9	10472	75	637
FL096	24.1	7725	71	636
FL087	24.5	10444	77	636
FL088	24.6	17818	76	629
FL260	24.4	10798	75	623
FL227	26.4	10266	73	620
FL143	24.2	11179	74	616
FL184	25.0	9186	75	614
FL257	25.6	9707	76	613
FL160	23.6	9893	73	610
FL118	24.1	8517	73	597
FL172	25.3	7698	73	597
FL198	23.7	9034	75	594
FL081	24.7	12038	74	594
FL218	24.9	9812	73	587
FL181	23.7	5944	67	583
FL132	24.8	14993	78	573
FL021	24.9	11063	80	572
FL111	24.8	6129	71	569
FL199	26.7	6764	74	565
FL057	23.6	9870	74	563
FL231	24.5	8679	71	561
FL149	23.9	8054	72	561
FL233	24.7	7740	75	558
FL228	24.8	7252	74	557
FL018	24.5	8322	75	551
FL215	24.6	7854	73	549
FL263	24.1	8786	72	546
FL044-2	24.6	16464	79	546
FL025	25.2	13025	76	543
FL205	24.1	7403	75	543
FL238	24.3	9107	73	542
FL226	24.7	7666	81	540
FL043	24.2	8878	74	538
FL178	24.5	6378	71	532
FL016	25.4	9639	79	532
FL121	25.2	9991	72	529
FL004	25.2	8402	75	529
FL013	23.9	8314	77	529
FL217	24.6	8519	79	526
FL028	25.5	11940	76	523
FL033	24.1	7962	75	521
FL019	24.9	12564	75	520
FL035	25.0	10011	79	520

Light Output Results Sorted by Total Luminous Flux				
DUT / Mode	Ambient Temperature (°C)	CCT (K)	CRI	Total Luminous Flux (lumens)
FL142	24.0	8230	78	518
FL076	24.2	8556	79	510
FL106	24.7	6259	72	500
FL150	24.0	9197	77	497
FL186	24.4	9129	74	494
FL174	25.7	8500	73	493
FL125	25.5	10652	72	491
FL139	24.0	9764	77	491
FL067	24.6	9433	76	488
FL169	24.3	7554	71	481
FL235	25.1	7338	70	480
FL206	25.2	8301	70	479
FL249	24.6	8273	77	471
FL159	24.8	6796	72	468
FL044	25.4	17699	81	457
FL083	24.5	9431	74	457
FL229	25.5	6690	70	457
FL110	24.6	11251	76	454
FL010	24.5	11059	76	454
FL045	24.8	8802	73	452
FL051	24.5	11763	70	451
FL069	24.6	10174	83	444
FL236	24.2	6954	69	443
FL203	24.5	8162	76	443
FL109	24.7	8488	78	439
FL056	24.3	10849	75	437
FL252	24.4	13495	77	436
FL078	24.2	10684	76	434
FL053	24.9	9298	74	434
FL134	26.2	8308	73	426
FL029	25.3	10253	76	421
FL058	24.4	13553	76	417
FL015	25.0	10011	78	415
FL032	23.9	8727	74	415
FL129	22.8	8016	75	413
FL156	24.9	11457	83	408
FL054	24.5	8722	77	396
FL245	24.2	9878	72	387
FL117	24.7	12066	74	386
FL251	24.0	11133	79	386
FL031	25.3	10941	78	385
FL020	24.9	9214	76	379
FL062	24.5	9277	78	378
FL050	24.8	11456	77	376
FL176	25.4	8943	77	375

Light Output Results Sorted by Total Luminous Flux				
DUT / Mode	Ambient Temperature (°C)	CCT (K)	CRI	Total Luminous Flux (lumens)
FL237	24.6	15304	76	370
FL046	23.8	9574	76	370
FL119	23.8	12332	79	368
FL066	23.7	7522	72	368
FL012	24.6	9494	77	366
FL052	24.6	15960	73	366
FL220	24.9	9963	75	365
FL011	24.9	11819	71	363
FL207	24.6	10285	74	361
FL074	23.8	9273	76	359
FL009	24.5	9662	75	358
FL003	24.6	18819	75	355
FL070	25.0	8593	68	352
FL247	24.3	9850	77	344
FL242	23.7	14893	76	342
FL240	24.9	6504	71	341
FL232	24.8	7086	71	338
FL223	22.6	7419	71	338
FL097	25.0	8502	71	335
FL006-2	25.3	8412	79	325
FL224	25.0	7286	71	321
FL049	24.5	9605	72	320
FL034	24.5	8755	70	312
FL006-1	25.3	9191	77	307
FL126	23.9	10707	84	304
FL026	24.8	10562	83	284
FL042	24.7	10061	77	274
FL221	25.1	16171	84	269
FL155	23.9	10818	78	269
FL258	25.6	7610	72	268
FL158	23.9	11328	77	265
FL163	25.0	8484	71	248
FL152	24.0	8104	72	229
FL148	24.3	8129	73	226
FL175	24.6	5993	71	204
FL230	23.9	8085	79	200
FL123	25.3	9878	70	194
FL192	24.9	10560	81	162
FL144	24.9	7761	75	146
FL254	24.4	10270	72	140
FL266	24.3	8910	73	104
FL059	24.4	9056	78	58

Light Output Results (Sorted by Luminous Flux)

12. SCOPE OF ACCREDITATION



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELITE ELECTRONIC ENGINEERING, INC.
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MECHANICAL

Valid To: June 30, 2025

Certificate Number: 1786.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory at the location listed above, *as well as the two satellite laboratory locations listed below*¹, for the following mechanical tests:

<u>Test Technology</u>	<u>Test Method(s)²:</u>
Humidity (5 to 95) %	MIL-STD-810 (C/E/F/G/H), Methods 507 and 520; MIL-STD-202 (F/G/H), Methods 103 and 106; SAE J1455, Sec. 4.2, 4.12; SAE J575, Section 4.4; RTCA/DO-160 (D/E/F/G), Section 6.0; EIA-364-31; GMW 3172, Section 9.4; IACS-E10, Test 6; IEC 60068-3-4; IEC 60068-2-30; IEC 60068-2-38; IEC 60068-2-78; US CAR-2, Section 5.6.2; ISO 16750-4; FAA AC 150/5345-3G, -5B, -10H, -43J, -49D, -51B, -52A, 54B; USCAR21-3, Section 4.5.4
Temperature Cycling, Temperature Steady State, Temperature Life (-100 to 343) °C Thermal Shock (-100 to 200) °C (Ramps up to 60°C/min) (<15sec transitions)	MIL-STD-810 (E/F/G/H), Methods 501, 502, 503, 520, and 524; MIL-STD-202 (F/G/H), Methods 107 and 108; IEC 60068-2-1; IEC 60068-2-2; IEC 60068-2-28; IEC 60068-2-14; SAE J1455, Sections 4.1 and 4.12; EIA-364-32; RTCA/DO-160 (D/E/F/G), Sections 4 and 5; US CAR-2, Sections 5.6.1 and 5.6.3; GMW 3172, Section 9.4;

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5202 Presidents Court, Suite 220 | Frederick, MD 21703-8515 | Phone: 301 644 3248 | Fax: 240 454 9449 | www.A2LA.org

<u>Test Technology</u>	<u>Test Method(s)²:</u>
Temperature Cycling, Temperature Steady State, Temperature Life Thermal Shock (Cont'd)	IACS-E10, Tests 5 and 11; ISO 16750-4; FAA AC 150/5345-5B, -10H, -12F, -28G, -39D, -42J, -43J, -44K, -46E, -49D, -50B, -51B, -52A, -54B, -55A; FAA EB-67D; US CAR-21, Section 4.5.5
Immersion	MIL-STD-810 (E/F/G/H), Method 512; MIL-STD-202 (F/G/H), Method 104; SAE J1455, Section 4.3; SAE J575, Section 4.3; US CAR-2, Section 5.6.5; IEC 529; IEC 60529; ISO 16750-4; GMW 3172, Section 5.8; ISO 20653; FAA AC 150/5345-26D, -39D, -44K, -46E, -47C
Rain, Drip, and Water Spray	MIL-STD-810 (E/F/G/H), Method 506; SAE J1455, Section 4.5; SAE J575, Section 4.3; RTCA/DO-160 (D/E/F/G), Section 10; IEC 60529; IEC 60068-2-17; ISO 16750-4; ISO 20653; DIN 40 050; NEMA 250; GMW 3172, Section 9.5; FAA AC 150/5345-12F, -28G, -43J, -44K, -46E, -50B, -51B, -54B
Dust Blowing and Settling	MIL-STD-810 (E/F/G/H), Method 510, Procedure I; MIL-STD-202 (F/G/H), Method 110; IEC 60529; ISO 20653; ISO 16750-4; SAE J1455, Section 4.7, Alternate Method; RTCA/DO-160(D/E/F/G), Section 12, Procedure D; DIN 40 050; NEMA 250; GMW 3172, Section 9.5
Salt Spray (Corrosion)	ASTM B117; ASTM G85; MIL-STD-810 (E/F/G/H), Method 509; MIL-STD-202 (F/G/H), Method 101; SAE J1455, Section 4.3; SAE J575, Sections 4.6, 4.7; RTCA/DO-160 (D/E/F/G), Section 14; US CAR-2, Section 6.6.4; GMW 3172, Section 9.4.7; IACS-E10, Test 12; IEC 60068-2-11; IEC 60068-2-52; ISO 16750-4; FAA AC 150/5345-28G, -39D, -43J, -45C, -46E, 50B, 51B, 52A
Explosive Atmosphere	MIL-STD-810 (E/F/G/H), Method 511; MIL-STD-202 (F/G/H), Method 109; RTCA/DO-160 (D/E/F/G), Section 9

<u>Test Technology</u>	<u>Test Method(s)²:</u>
Fluids Susceptibility	MIL-STD-810 (E/F/G/H), Methods 504 and 518; MIL-STD-202 (F/G/H), Method 215; SAE J1211, Section 4.4; SAE J1455, Section 4.4; SAE J575, Sections 4.15 and 4.16; RTCA/DO-160 (D/E/F/G), Section 11; US CAR-2 Sec. 6.4; ISO 16750-5; FAA AC 150/5345-42J, -46E
Flammability	MIL-STD-202 (F/G/H), Method 111; FMVSS 302; RTCA/DO-160 (D/E/F/G), Section 26, Category C
Vibration Random and Sine 28k force pound 4" stroke 1 Hz to 3 kHz Remote Temperature Hood (177 to -72) C ^o	MIL-STD-810 (E/F/G/H), Method 520; MIL-STD-202 (F/G/H), Methods 201, 204, and 214; IEC 60068-2-6; IEC 60068-2-64; IEC 61373:2010; ISO 16750-3; CEI IEC 255-21-1; SAE J1455, Sections 4.10 and 4.12; SAE J575, Section 4.2; RTCA/DO-160 (D/E/F/G), Section 8; US CAR-2, Sections 5.4.6 and 5.8; EIA-364-28; GMW 3172, Section 9.3; IACS-E10, Test 7; FAA AC 150/5345-46E
Mechanical Shock	MIL-STD-810 (E/F/G/H), Methods 516 and 519; MIL-STD-202 (F/G/H), Methods 203 and 213; RTCA/DO-160 (D/E/F/G), Section 7; EIA-364-27; GMW 3172, Section 9.3; IEC 60068-2-27; IEC-60068-2-29; IEC 60068-2-3; ISO 16750-3; CEI IEC 255-21-2; SAE J1455, Section 4.11; US CAR-2, Sections 5.4.6 and 5.8; FAA AC 150/5345-46E, -47C; IEC 61373:2010
Transportation Vibration	ISTA 1D (<i>except for sequence # 3</i>), 2A; MIL-STD-810 (E, F, G/H), Method 514, Procedure II
Packaging Tests (<i>including Random Vibration, Drop Shock, Temperature, Humidity</i>)	ISTA 1A, 1C, 1G, 2A, 2C, 3A, 3B, 3F, 3L-Small, 3L-A, 3L-B, 3L-D, 3L-G, 3L-H, 6-AMAZON.com-Over Boxing, 6-AMAZON.com-SIOC Type A, 6-AMAZON.com-SIOC Type B, 6-AMAZON.com-SIOC Type D, 6-AMAZON.com-SIOC Type G, 6-AMAZON.com-SIOC Type H, 6-FedEx-A, 6-SAMSCLUB, 7D
UN Manual of Tests and Criteria	Tests T1 (Altitude Simulation), T2 (Thermal Test), T3 (Vibration), T4 (Shock), T5 (External Short Circuit), and T7 (Overcharge)

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<u>Test Technology</u>	<u>Test Method(s)²:</u>
Gravel Bombardment	SAE J400; SAE J1455, Section 4.8; ISO 16750-3; ISO 20567-1
Transformer Tests	FAA AC 150/5345-47C (Section 4.2.4)
Dielectric Withstand Voltage	MIL-STD-202, Method 301; EIA-364-20D
Insulation Resistance	MIL-STD-202, Method 302; SAE/USCAR-2, Revision 6, Section 5.5.1; EIA-364-21D
Contact Resistance	MIL-STD-202, Method 307; SAE/USCAR-2, Revision 6, Section 5.3.1; EIA-364-23C; USCAR21-3 Section 4.5.3
DC Resistance	MIL-STD-202, Method 303
Contact Chatter	MIL-STD-202, Method 310; SAE/USCAR-2, Revision 6, Section 5.1.9
Voltage Drop	SAE/USCAR-2, Revision 6, Section 5.3.2; USCAR21-3 Section 4.5.6

¹ This accreditation covers the testing performed at the main laboratory listed above and the two satellite laboratories listed below.

² When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard measurement method, per part C., Section 1 of A2LA R101 - *General Requirements- Accreditation of ISO-IEC 17025 Laboratories*.

201 Eisenhower Lane South, Unit 219
Lombard, IL 60418

<u>Test Technology</u>	<u>Test Method(s)²:</u>
Connector and Cable Testing (5,000 to 20,000) lbs 20 ³ /min	GMW 3172, Sections 9.3.6 through 9.3.10; EIA-364, 38; US CAR-2, Sections 5.2 through 5.4; US CAR-21-3 Section 4.4; FAA AC 150/5345-26D, Sections 4.2.2.2, 4.2.3, and 4.2.4, -47C
Transportation Vibration	ISTA 1A, 1B, 1D (<i>except for sequence #3</i>), 2A

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<u>Test Technology</u>	<u>Test Method(s)²:</u>
Packaging Tests (including Fixed Displacement Vibration, Drop Shock, Compression, Temperature, Humidity)	ISTA 1A, 1C, 1G, 2A, 2C, 3A, 3B, 3F, 3L-Small, 3L-A, 3L-B, 3L-D, 3L-G, 3L-H, 6-AMAZON.com-Over Boxing, 6-AMAZON.com-SIOC Type A, 6-AMAZON.com-SIOC Type B, 6-AMAZON.com-SIOC Type D, 6-AMAZON.com-SIOC Type G, 6-AMAZON.com-SIOC Type H, 6-FedEx-A, 6-SAMSCLUB, 7D
UN Manual of Tests and Criteria	Tests T1 (Altitude Simulation), T2 (Thermal Test), T3 (Vibration), T4 (Shock), T5 (External Short Circuit), & T7 (Overcharge)
Seal/Leakage	FAA AC 150/5345-10H, -42J, -46E
Yield Device	FAA AC 150/5345-27D, -28G, -39D, -44K, -46E, -50B, -51B, -52A, -55A
Load	FAA AC 150/5345-27D, -28G, -39D, -42J, -43J, -46E, -50B, -52A, -55A
Surface Temperature	FAA AC 150/5345-46E
Impact	ASTME23; ASTM D6110; FAA AC 150/5345-42J
Accelerated Life Test	FAA AC 150/5345-46E; FAA EB-67D
Humidity (5 to 95) %	MIL-STD-810 (C/E/F/G/H), Methods 507 and 520; MIL-STD-202 (F/G/H), Methods 103 and 106; SAE J1455, Sections 4.2 and 4.12; SAE J575, Section 4.4; RTCA/DO-160 (D/E/F/G), Section 6.0; EIA-364-31; GMW 3172, Section 9.4; IACS-E10, Test 6; IEC 60068-3-4; IEC 60068-2-30; IEC 60068-2-38; IEC 60068-2-78; US CAR-2, Section 5.6.2; US CAR21-3, Section 4.5.4; ISO 16750-4; FAA AC 150/5345-3G, -5B, -10H, -43J, -49D, -51B, -52A, -54B
Temperature Cycling, Temperature Steady State, Temperature Life (-100 to 343) °C Thermal Shock (-100 to 200) °C	MIL-STD-810 (E/F/G/H) Methods 501, 502, 503, 520, and 524; MIL-STD-202 (F/G/H) Methods 107, 108; IEC 60068-2-1; IEC 60068-2-2; IEC 60068-2-28; IEC 60068-2-14; SAE J1455, Sections 4.1 and 4.12; EIA-364-32; RTCA/DO-160 (D/E/F/G), Sections 4 and 5; US CAR-2, Sections 5.6.1 and 5.6.3; US CAR-21-3, Section 4.5.5; GMW 3172, Section 9.4; IACS-E10, Tests 5 and 11; ISO 16750-4; FAA AC 150/5345-5B, -10H, -12F, -26D, -28G, -39D, -42J, -43H, -44K, -46E, -49D, -50B, -51B, -52A, -54B, -55A; FAA EB-67D

<u>Test Technology</u>	<u>Test Method(s)²:</u>
Altitude (-1.5 to 90) k ft	MIL-STD-810 (E/F/G/H), Methods 500 and 520; MIL-STD-202 (F/G/H), Method 105C, Test Conditions A, B, and C; SAE J1455, Section 4.9; RTCA/DO-160 (D/E/F/G), Section 4.0; EIA-364-20; US CAR-2 5.6.6; IEC 60068-2-13; FAA AC 150/5345-5B, -10H, -51B
Ice & Freezing Rain	MIL-STD-810 (E/F/G/H), Method 521; RTCA/DO-160 (D/E/F/G), Section 24; NEMA 250; FAA AC 150/5345-12F
Dielectric Withstand Voltage	MIL-STD-202, Method 301; EIA-364-20D
Insulation Resistance	MIL-STD-202, Method 302; SAE/USCAR-2, Revision 6, Section 5.5.1; EIA-364-21D
Contact Resistance	MIL-STD-202, Method 307; SAE/USCAR-2, Revision 6, Section 5.3.1; EIA-364-23C; USCAR21-3 Section 4.5.3
DC Resistance	MIL-STD-202, Method 303
Contact Chatter	MIL-STD-202, Method 310; SAE/USCAR-2, Revision 6, Section 5.1.9
Voltage Drop	SAE/USCAR-2, Revision 6, Section 5.3.2; USCAR21-3 Section 4.5.6
Photometry, Luminous Flux ³ 2-meter Integrating Sphere with spectroradiometer; 4pi and 2pi geometries; (6 to 159,000) lumens	IES LM-79-08, Section 9.1; LM-79-19, Section 7.0; LM-45-2015; 49 CFR 571.108 (FMVSS 108), 49 CFR 564 (Part 564); CMVSS 108; SAE J573, J2560; UNECE Reg 37, Reg 99; CIE 84, CIE S025; ANSI/PLATO FL 1 2019

Test Technology

Test Method(s)²:

Photometry, Luminous Intensity³
64' (19.5 m) Type A Goniophotometer; (Steady, Flashing); (0.01 to 1,000,000) cd

FAA AC 150/5345-12F, -28G, -43J, -46E, -50B, -51B, -52A, -55A; FAA EB-67D; ICAO Annex 14, Volume 1 (8th Edition); CASA MOS139; TP312 (5th Edition); CAR 621, SAE J222, J575, J581, J582, J583, J585, J586, J588, J591, J592, J593, J595, J845, J852, J914, J1319, J1373, J1383, J1395, J1398, J1424, J1432, J1735, J1889, J1957, J2009, J2039, J2040, J2042, J2087, J2139, J2261, J2595, J2650, AS8037, AS 8017; 49 CFR 571.108 (FMVSS 108); CMVSS 108; UNECE Reg 38; NFPA 1901 Chapter 13; GSA/KKK-A-1822F Section 3.8; GMW 14906 Section 4.5.5; CIE 70; ANSI/PLATO FL 1 2019

Colorimetry, Chromaticity³ Spectrometer (350 to 1050) nm

FAA AC 150/5345-12F, -28G, -43J, -46E, -50B, -51B, -52A, -55A; FAA EB-67D; SAE J576, SAE J578, AS25050; IES LM-79-08, Section 12.1; LM-79-19, Section 7.0; LM-58-20, TM-30-20; CIE 13.3; CIE15; ANSI C78-09.377; ICAO Annex 14, Volume 1 (8th Edition); CASA MOS139; TP312 (5th Edition); CAR 621

³ Also using customer specified methods directly related to the technologies and parameters listed above.

1524 Centre Circle
Downers Grove, IL 60515

<u>Test Technology</u>	<u>Test Method(s)²:</u>
Acceleration	MIL-STD-810 (E/F/G/H), Method 513; MIL-STD-202 (F/G/H), Method 212, Conditions A and C
Solar Radiation	MIL-STD-810 (E/F/G/H), Method 505; FAA AC 150/5345-12F, -39D, -43J, -44K, -45C, -46E, -50B, -51B, -52A, -54B
Temperature Cycling, Temperature Steady State, Temperature Life (-100 to 343) °C°	MIL-STD-810 (E/F/G/H) Methods 501, 502, 503, 520, and 524; MIL-STD-202 (F/G/H) Methods 107, 108; IEC 60068-2-1; IEC 60068-2-2; IEC 60068-2-28; IEC 60068-2-14; SAE J1455, Sections 4.1 and 4.12; EIA-364-32;
Liquid to Liquid Thermal Shock (-65 to 200)C°	RTCA/DO-160 (D/E/F/G), Sections 4 and 5; US CAR-2, Sections 5.6.1 and 5.6.3; US CAR-21-3, Section 4.5.5; GMW 3172, Section 9.4; IACS-E10, Tests 5 and 11; ISO 16750-4; FAA AC 150/5345-5B, -10H, -12F, -26D, -28G, -39D, -42J, -43H, -44K, -46E, -49D, -50B, -51B, -52A, -54B, -55A; FAA EB-67D; ISO 60068-2-14; MIL-STD-750E Method 1056.7
Vibration Random and Sine 16,700 force pound 3” stroke 1 Hz to 2.6 kHz	MIL-STD-810 (E/F/G/H), Method 520; MIL-STD-202 (F/G/H), Methods 201, 204, and 214; IEC 60068-2-6; IEC 60068-2-64; IEC 61373:2010; ISO 16750-3; CEI IEC 255-21-1; SAE J1455, Sections 4.10 and 4.12; SAE J575, Section 4.2; RTCA/DO-160 (D/E/F/G), Section 8; US CAR-2, Sections 5.4.6 and 5.8; EIA-364-28; GMW 3172, Section 9.3; IACS-E10, Test 7; FAA AC 150/5345-46E
Mechanical Shock	MIL-STD-810 (E/F/G/H), Methods 516 and 519; MIL-STD-202 (F/G/H), Methods 203 and 213; RTCA/DO-160 (D/E/F/G), Section 7; EIA-364-27; GMW 3172, Section 9.3; IEC 60068-2-27; IEC-60068-2-29; IEC 60068-2-3; ISO 16750-3; CEI IEC 255-21-2; SAE J1455, Section 4.11; US CAR-2, Sections 5.4.6 and 5.8; FAA AC 150/5345-46E, -47C; IEC 61373:2010

(A2LA Cert. No. 1786.02) 08/15/2023

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<u>Test Technology</u>	<u>Test Method(s)²:</u>
Packaging Tests (including Random Vibration, Temperature, Humidity)	ISTA 1A, 1C, 1G, 2A, 2C, 3A, 3B, 3F, 3L-Small, 3L-A, 3L-B, 3L-D, 3L-G, 3L-H, 6-AMAZON.com-Over Boxing, 6-AMAZON.com-SIOC Type A, 6-AMAZON.com-SIOC Type B, 6-AMAZON.com-SIOC Type D, 6-AMAZON.com-SIOC Type G, 6-AMAZON.com-SIOC Type H, 6-FedEx-A, 6-SAMSCLUB, 7D
Dielectric Withstand Voltage	MIL-STD-202, Method 301; EIA-364-20D
Insulation Resistance	MIL-STD-202, Method 302; SAE/USCAR-2, Revision 6, Section 5.5.1; EIA-364-21D
Contact Resistance	MIL-STD-202, Method 307; SAE/USCAR-2, Revision 6, Section 5.3.1; EIA-364-23C; USCAR21-3 Section 4.5.3
DC Resistance	MIL-STD-202, Method 303
Contact Chatter	MIL-STD-202, Method 310; SAE/USCAR-2, Revision 6, Section 5.1.9
Voltage Drop	SAE/USCAR-2, Revision 6, Section 5.3.2; USCAR21-3 Section 4.5.6

On the following products and materials:

Telecommunications Terminal Equipment (TTE), Radio Equipment, Network Equipment, Information Technology Equipment (ITE), Automotive Electronic Equipment, Automotive Hybrid Electronic Devices, Maritime Navigation and Radio Communication Equipment and Systems, Vehicles, Boats and Internal Combustion Engine Driven Devices, Automotive, Aviation, and General Lighting Products, Medical Electrical Equipment, Motors, Industrial, Scientific and Medical (ISM) Radio-Frequency Equipment, Household Appliances, Electric Tools, Low-voltage Switchgear and Control gear, Programmable Controllers, Electrical Equipment for Measurement, Control and Laboratory Use, Base Materials, Power and Data Transmission Cables and Connectors



Accredited Laboratory

A2LA has accredited

ELITE ELECTRONIC ENGINEERING INC.

Downers Grove, IL

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 15th day of August 2023.



Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1786.02
Valid to June 30, 2025

For the tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.

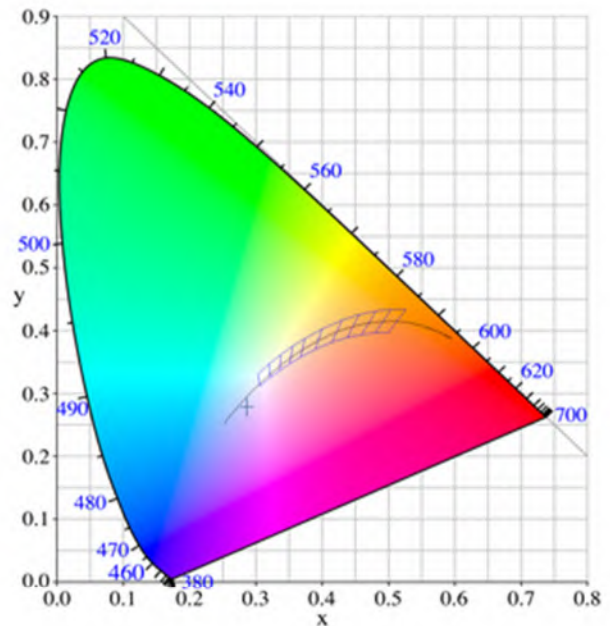
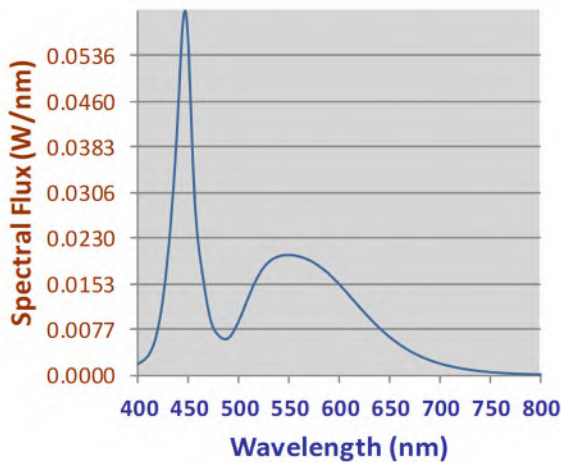
13. INDIVIDUAL TEST RESULTS

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL001		2/11/25	
Description	30 sec warmup	Test Time	11:42 AM
		Integration Time	519.1
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	80%
Notes	24.3C, 17% RH	Sphere Geometry	2pi
		Sphere Temp	23.95
Scan ID	Scan id 13074	Lumens	1218.1
Scan Name	FL001		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9868		76.12		0.2866		0.2789		-0.0089		0.1985		0.4348	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81	76	68	81	81	67	80	76	16	39	83	48	78	81

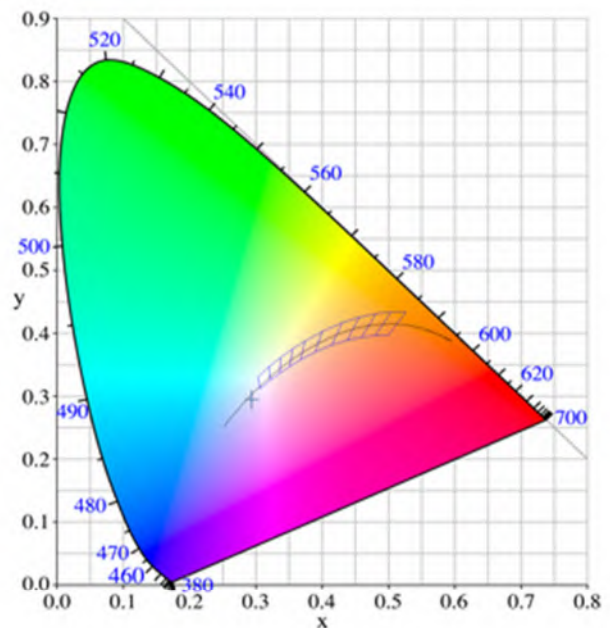
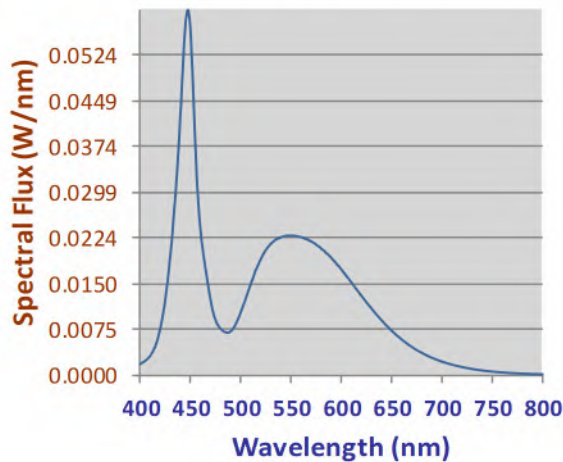
FL001 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL002		2/7/25	
Description	30 sec warmup	Test Time	12:09 PM
		Integration Time	527.6
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	80%
Notes	25.6C, 17% RH	Sphere Geometry	2pi
		Sphere Temp	25.12
Scan ID	Scan id 12475	Lumens	1374.7
Scan Name	FL002		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8356		75.91		0.2942		0.2950		-0.0047		0.1977		0.4461	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
78	77	72	80	79	68	81	72	4	42	80	48	77	84

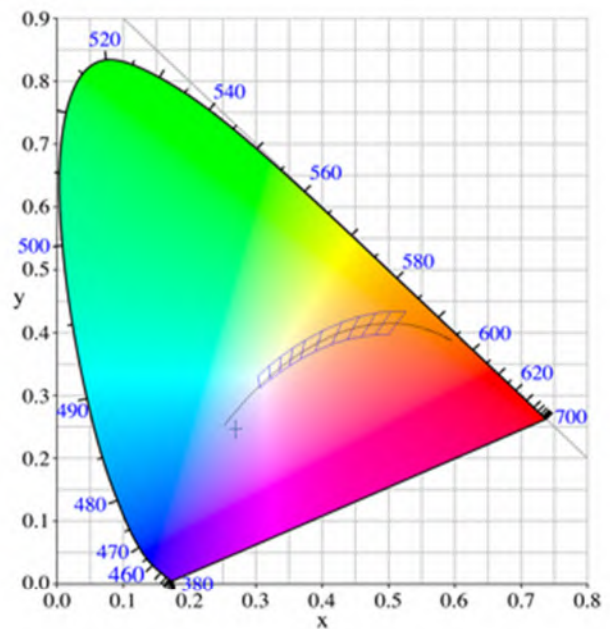
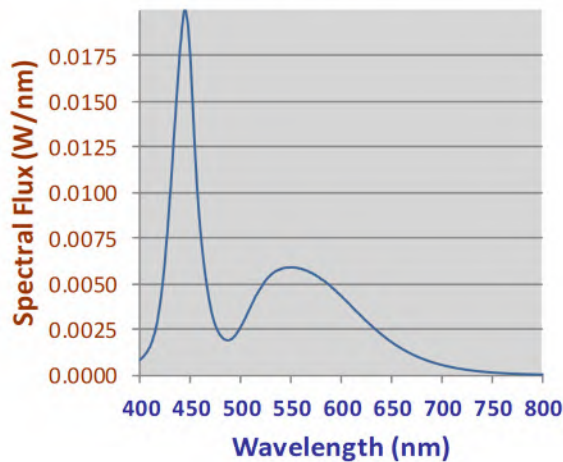
FL002 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL003		2/14/25	
Description	30 sec warmup	Test Time	2:46 PM
		Integration Time	1589.6
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	25.1C, 17%RH	Sphere Geometry	2pi
		Sphere Temp	24.6
Scan ID	Scan id 13079	Lumens	354.9
Scan Name	FL003		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
18819		75.17		0.2700		0.2466		-0.0159		0.1993		0.4095	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
84	73	57	82	84	63	77	80	39	29	88	48	78	75

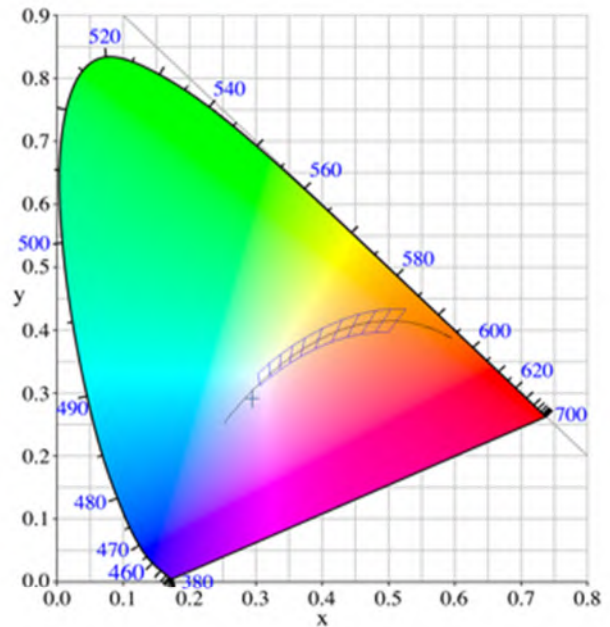
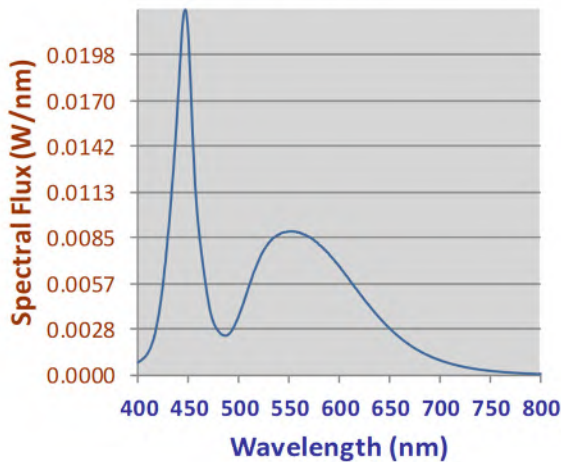
FL003 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL004		2/7/25	
Description	30 sec warmup	Test Time	9:18 AM
		Integration Time	1374.7
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	25.9C, 17% RH	Sphere Geometry	2pi
		Sphere Temp	25.16
Scan ID	Scan id 12464	Lumens	529.2
Scan Name	FL004		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8402		75.13		0.2949		0.2917		-0.0070		0.1996		0.4441	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
78	76	70	79	79	67	80	73	7	39	80	48	76	82

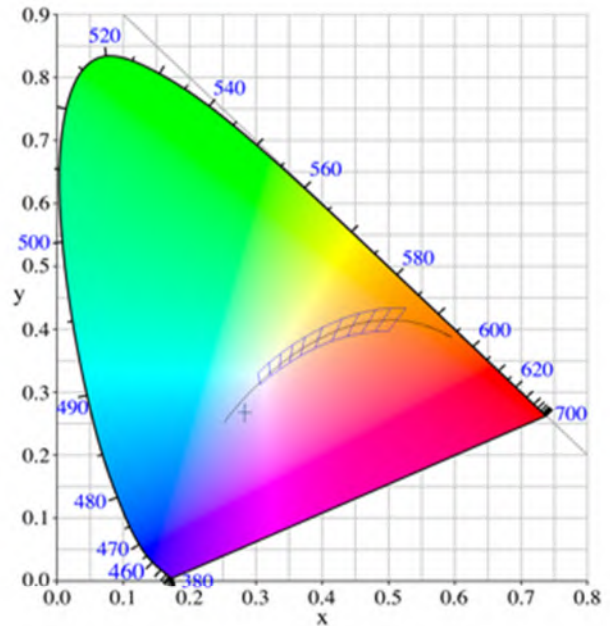
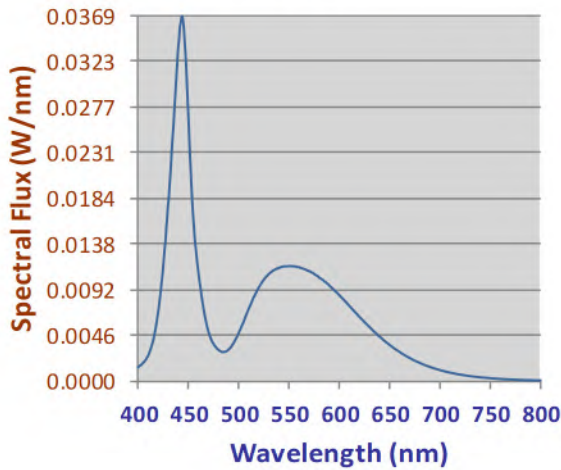
FL004 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL005		2/17/25	
Description	30 sec warmup	Test Time	10:47 AM
		Integration Time	837.2
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	75%
Notes	24.9C, 17%RH	Sphere Geometry	2pi
		Sphere Temp	24.49
Scan ID	Scan id 13090	Lumens	693.1
Scan Name	FL005		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
11096		73.34		0.2835		0.2683		-0.0129		0.2006		0.4272	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82	72	60	78	82	63	75	76	22	29	84	48	76	76

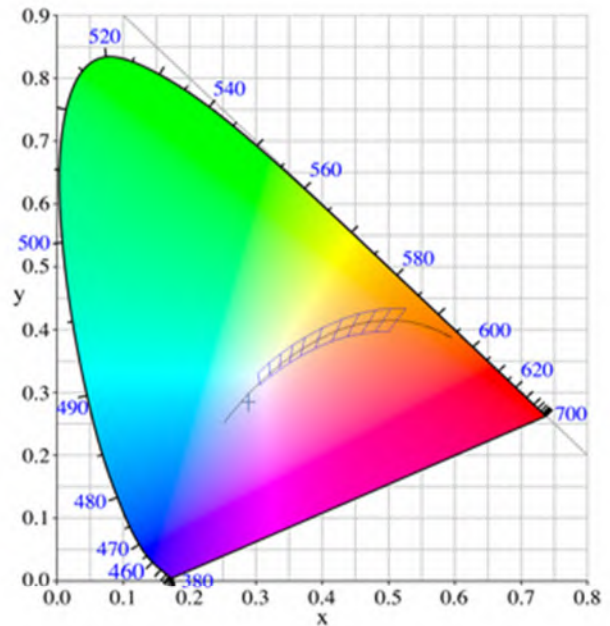
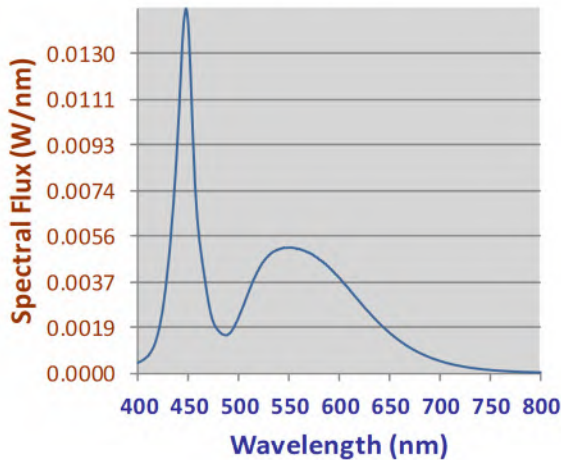
FL005 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL006-1				2/7/25			
Description	30 sec warmup				Test Time		10:45 AM
					Integration Time		2020.8
Orientation	Horizontal				Scans Averaged		3
Test by	DW				Saturation		76%
Notes	25.8C, 17% RH				Sphere Geometry		2pi
					Sphere Temp		25.28
Scan ID	Scan id 12470				Lumens		306.8
Scan Name	FL006-1						
Power	Battery Powered DUT, Power Not Monitored						

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9191		76.63		0.2896		0.2851		-0.0073		0.1983		0.4392	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80	77	70	81	80	68	81	75	13	42	82	48	78	83

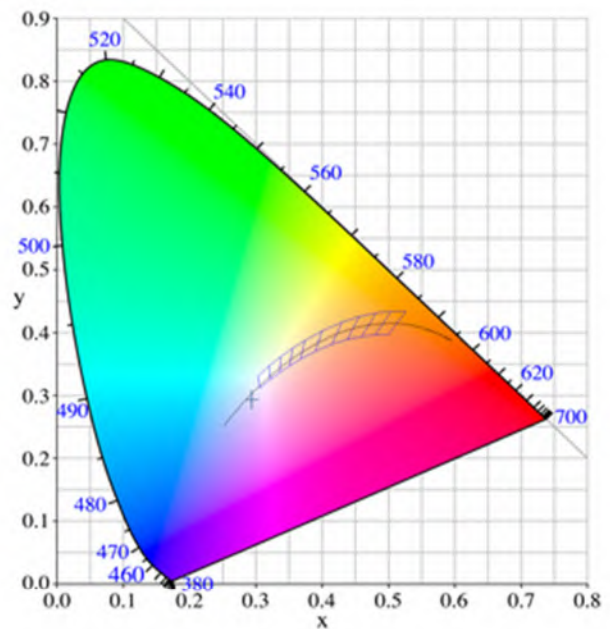
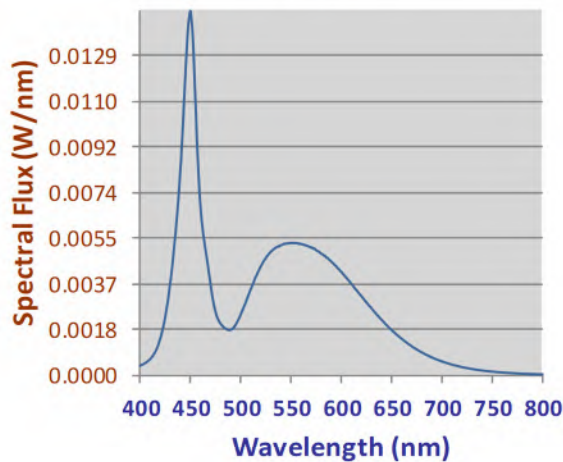
FL006-1 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL006-2		2/7/25	
Description	30 sec warmup	Test Time	11:34 AM
		Integration Time	2018.9
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	25.8C, 17% RH	Sphere Geometry	2pi
		Sphere Temp	25.25
Scan ID	Scan id 12472	Lumens	325.2
Scan Name	FL006-2		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8412		78.80		0.2943		0.2930		-0.0059		0.1986		0.4449	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81	81	75	82	81	71	84	75	15	49	81	49	80	86

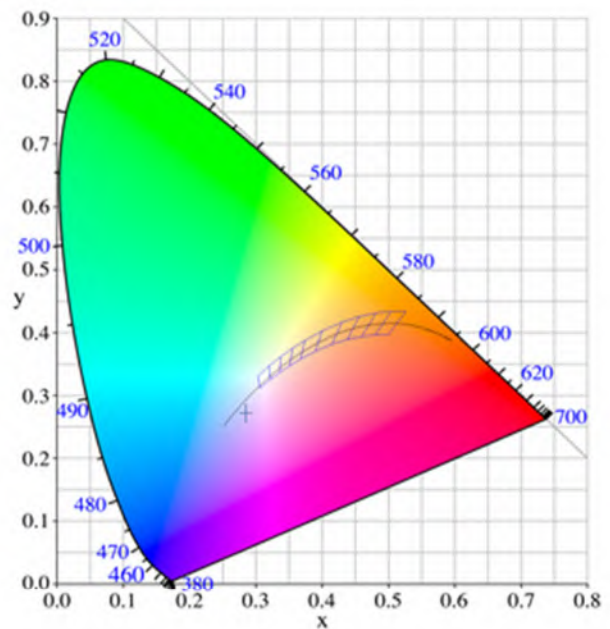
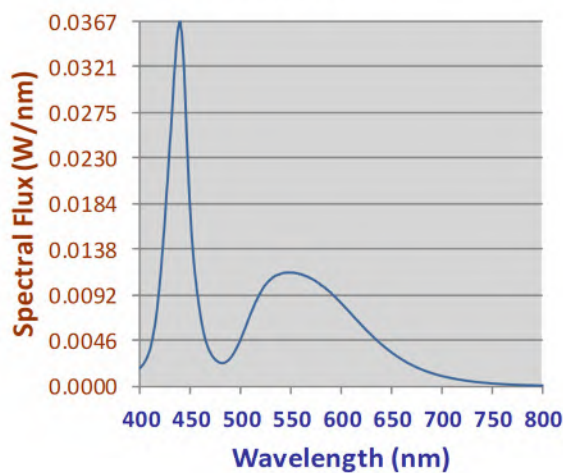
FL006-2 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL007		2/7/25	
Description	30 sec warmup	Test Time	11:42 AM
		Integration Time	918.9
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	25.8C, 17% RH	Sphere Geometry	2pi
		Sphere Temp	25.23
Scan ID	Scan id 12473	Lumens	672.1
Scan Name	FL007		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
10511		69.20		0.2853		0.2721		-0.0119		0.2004		0.4300	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
79	68	55	71	80	60	69	70	10	20	81	48	72	74

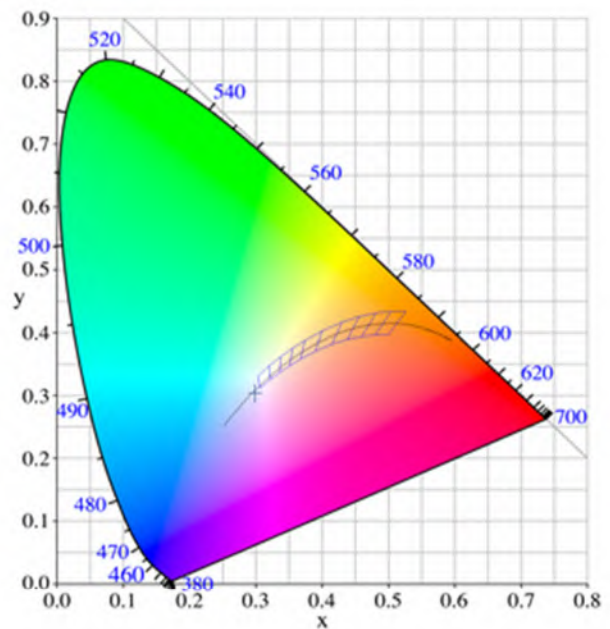
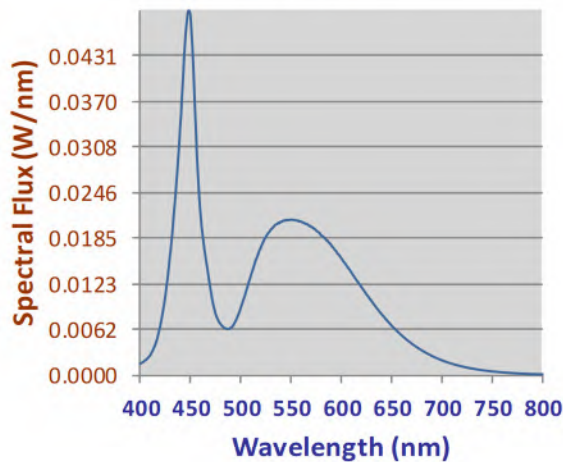
FL007 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL008		2/7/25	
Description	30 sec warmup	Test Time	10:52 AM
		Integration Time	662.2
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	83%
Notes	25.6C, 17% RH	Sphere Geometry	2pi
		Sphere Temp	25.24
Scan ID	Scan id 12471	Lumens	1254.2
Scan Name	FL008		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
7739		75.40		0.2988		0.3042		-0.0024		0.1974		0.4523	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
76	77	74	78	77	69	82	70	-3	42	77	48	75	85

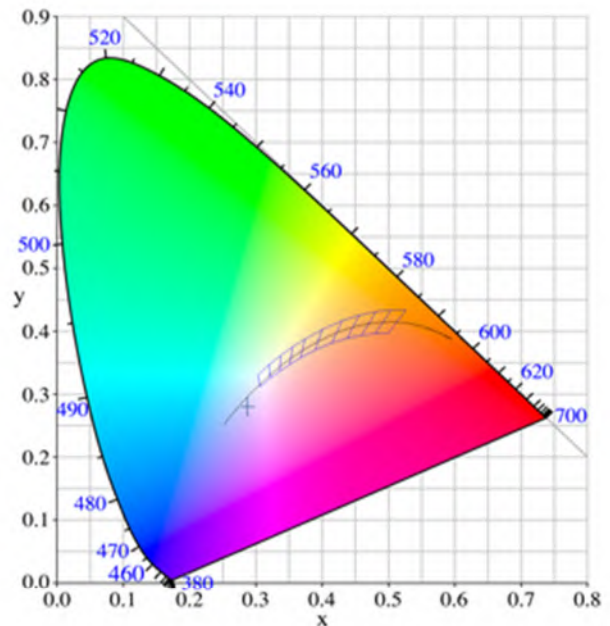
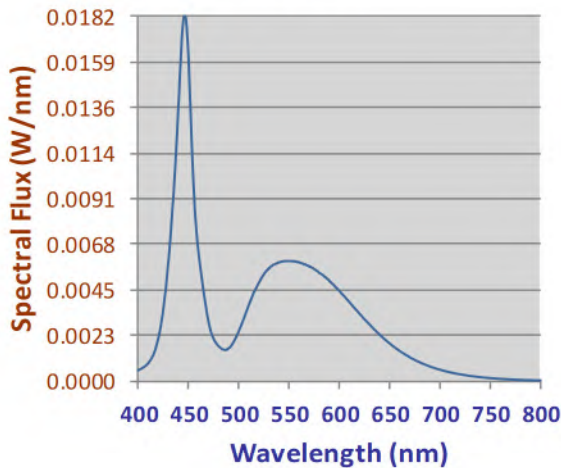
FL008 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL009		2/17/25	
Description	30 sec warmup	Test Time	10:02 AM
		Integration Time	1807.8
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	83%
Notes	25.0C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	24.48
Scan ID	Scan id 13084	Lumens	358.0
Scan Name	FL009		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9662		75.14		0.2878		0.2799		-0.0091		0.1991		0.4356	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80	75	66	80	80	66	79	75	14	36	82	46	77	80

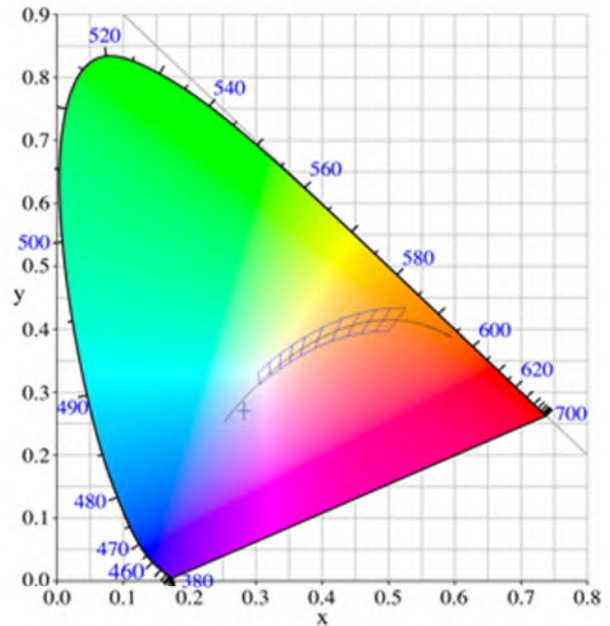
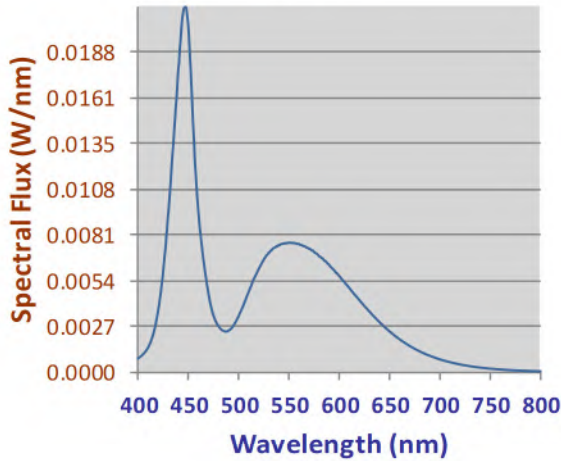
FL009 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL010		2/17/25	
Description	30 sec warmup	Test Time	10:20 AM
		Integration Time	1417.3
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	25.0C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	24.51
Scan ID	Scan id 13086	Lumens	454.1
Scan Name	FL010		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
11059		76.28		0.2824		0.2705		-0.0109		0.1988		0.4285	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82	76	66	82	82	66	80	77	22	37	84	49	78	80

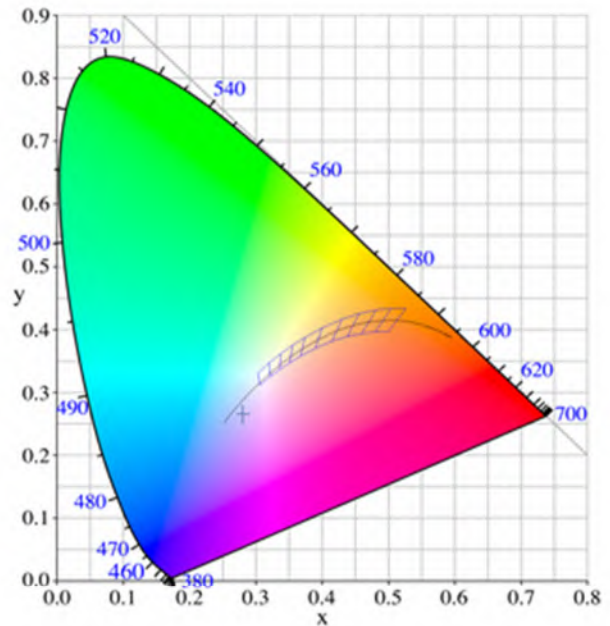
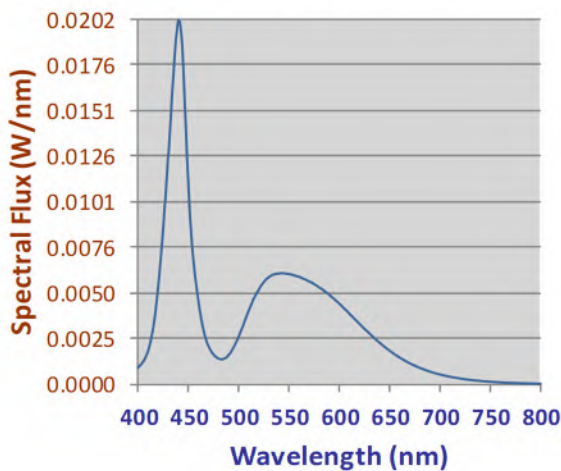
FL010 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL011		2/10/25	
Description	30 sec warmup	Test Time	11:56 AM
		Integration Time	1654.7
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	25.4C, 17% RH	Sphere Geometry	2pi
		Sphere Temp	24.94
Scan ID	Scan id 13060	Lumens	362.9
Scan Name	FL011		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
11819		70.75		0.2806		0.2658		-0.0123		0.1994		0.4251	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81	69	55	73	82	62	71	73	20	22	83	49	74	74

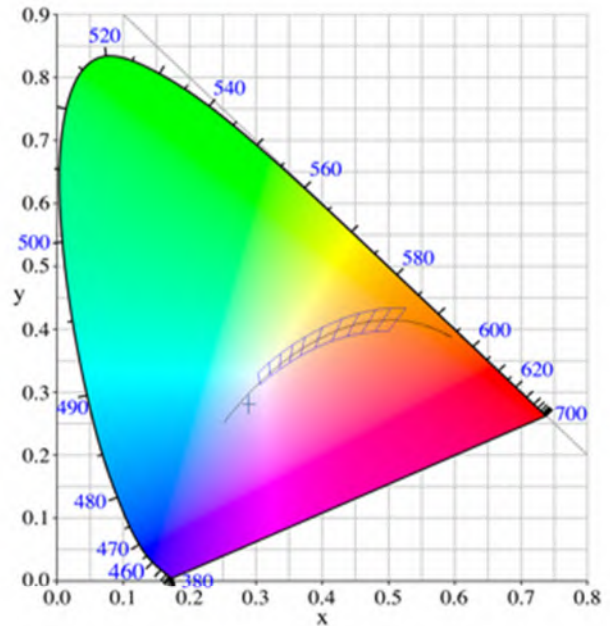
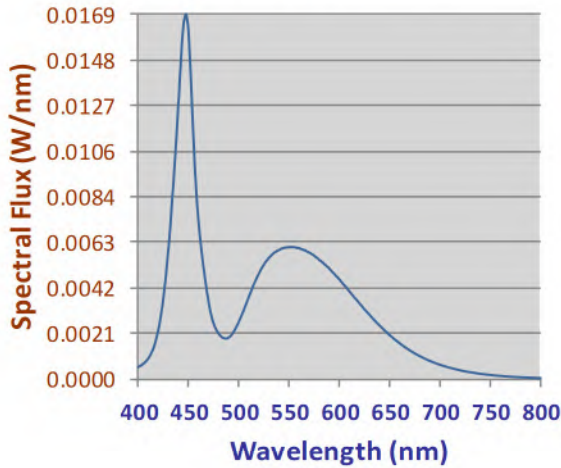
FL011 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL012		2/14/25	
Description	30 sec warmup	Test Time	2:57 PM
		Integration Time	1834.5
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	25.1C, 17%RH	Sphere Geometry	2pi
		Sphere Temp	24.6
Scan ID	Scan id 13080	Lumens	366.3
Scan Name	FL012		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9494		77.02		0.2888		0.2808		-0.0093		0.1995		0.4363	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81	78	69	82	81	68	81	77	20	41	83	48	79	82

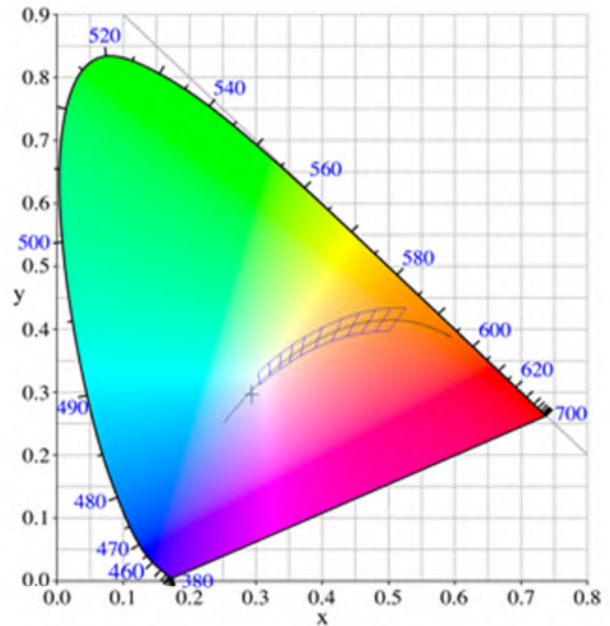
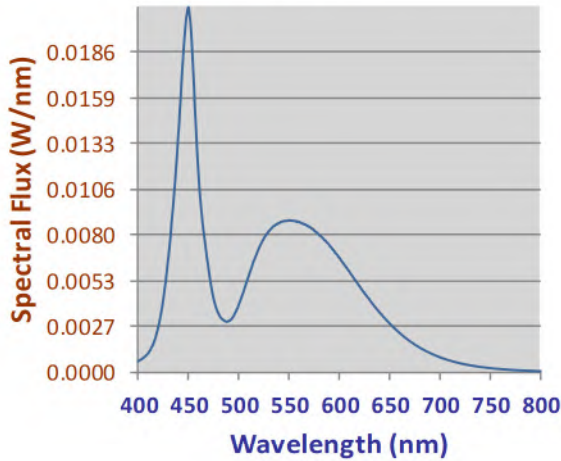
FL012 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL013		2/11/25	
Description	30 sec warmup	Test Time	11:36 AM
		Integration Time	1401.8
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	24.3C, 17% RH	Sphere Geometry	2pi
		Sphere Temp	23.9
Scan ID	Scan id 13073	Lumens	528.7
Scan Name	FL013		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8314		77.24		0.2941		0.2966		-0.0037		0.1970		0.4471	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
78	79	76	80	78	70	84	72	4	46	78	48	78	86

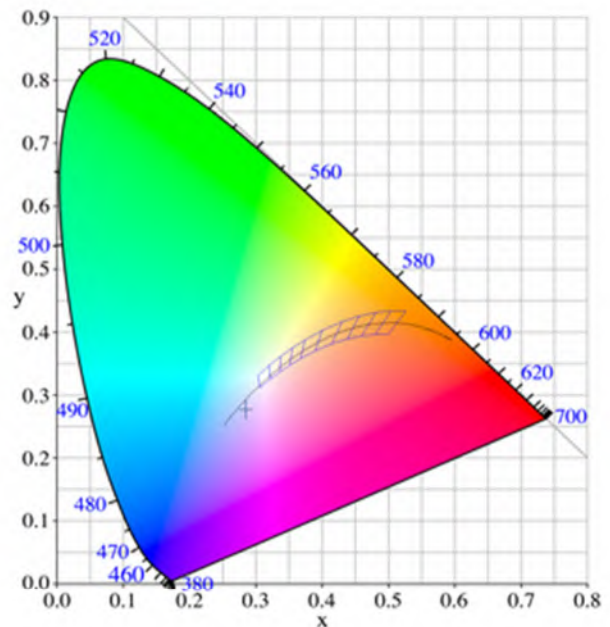
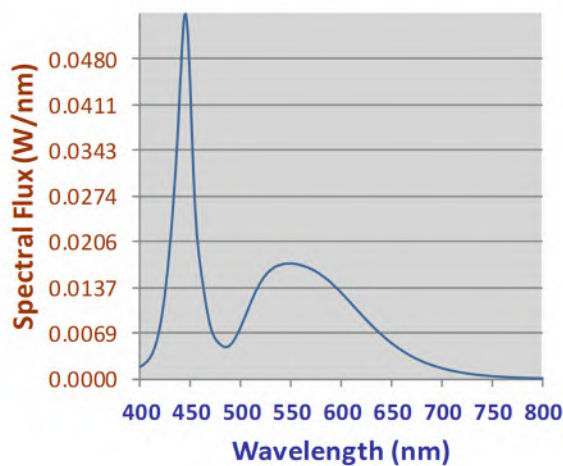
FL013 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL014		2/7/25	
Description	30 sec warmup	Test Time	12:00 PM
		Integration Time	597.2
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	81%
Notes	25.8C, 17% RH	Sphere Geometry	2pi
		Sphere Temp	25.13
Scan ID	Scan id 12474	Lumens	1039.6
Scan Name	FL014		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
10155		74.55		0.2854		0.2767		-0.0094		0.1985		0.4331	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80	74	65	79	81	65	77	75	14	34	83	48	77	80

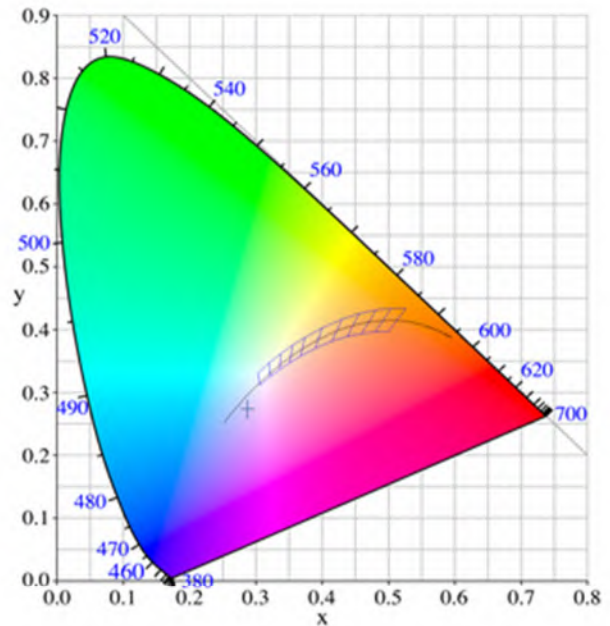
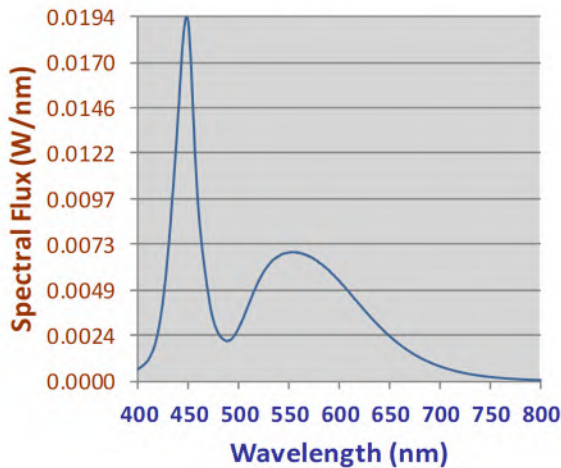
FL014 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL015		2/10/25	
Description	30 sec warmup	Test Time	12:06 PM
		Integration Time	1533.7
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	76%
Notes	25.4C, 17% RH	Sphere Geometry	2pi
		Sphere Temp	24.95
Scan ID	Scan id 13061	Lumens	415.0
Scan Name	FL015		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
10011		78.36		0.2879		0.2741		-0.0125		0.2016		0.4318	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
84	79	68	84	83	68	82	80	32	43	85	49	81	81

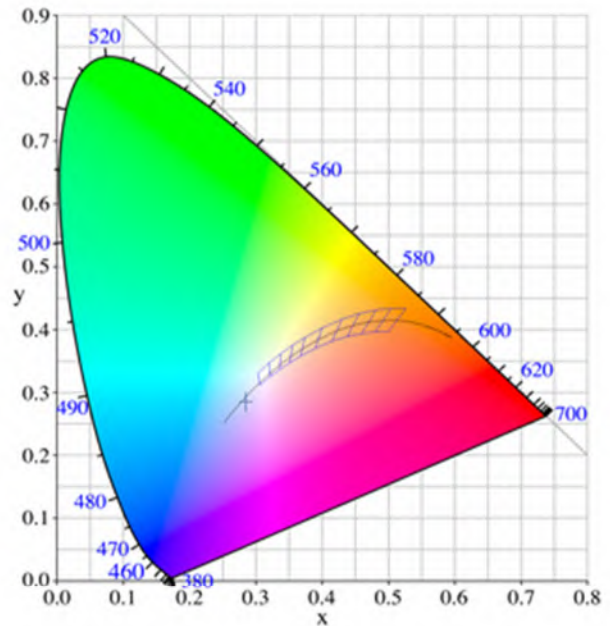
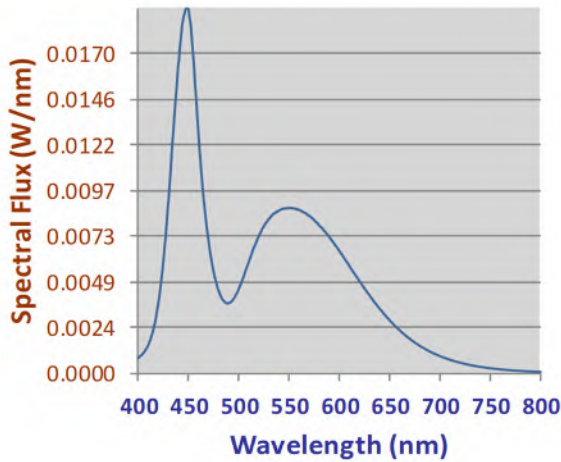
FL015 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL016		2/10/25	
Description	30 sec warmup	Test Time	9:46 AM
		Integration Time	1543.8
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	25.9C, 17% RH	Sphere Geometry	2pi
		Sphere Temp	25.35
Scan ID	Scan id 13053	Lumens	531.6
Scan Name	FL016		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9639		79.02		0.2855		0.2851		-0.0047		0.1952		0.4386	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81	81	76	83	81	72	85	75	13	49	81	54	80	86

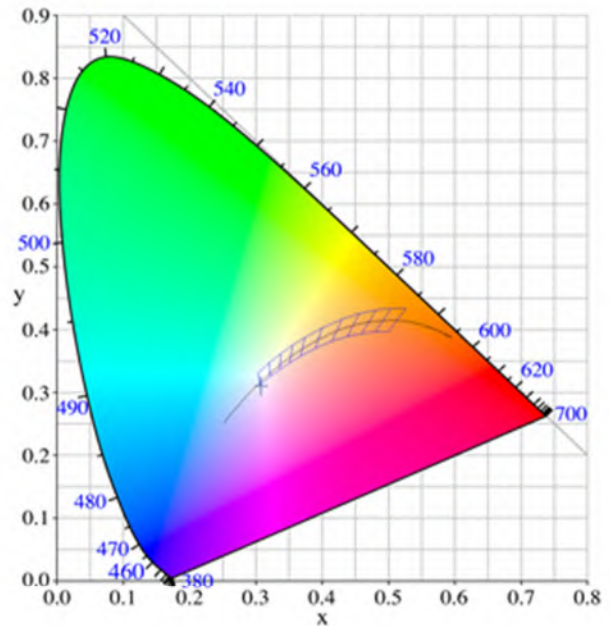
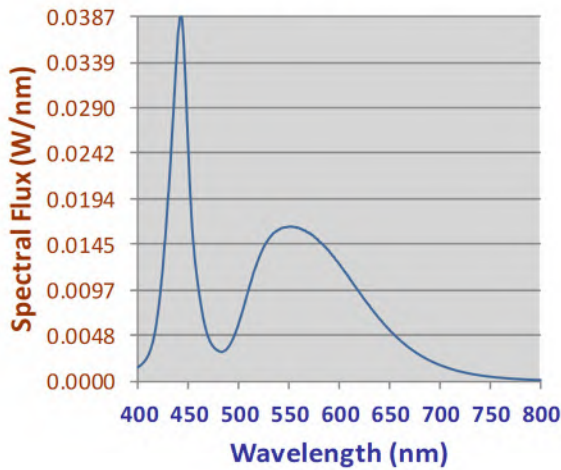
FL016 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL017		2/7/25	
Description	30 sec warmup	Test Time	10:23 AM
		Integration Time	812.3
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	76%
Notes	25.9C, 17% RH	Sphere Geometry	2pi
		Sphere Temp	25.76
Scan ID	Scan id 12468	Lumens	965.1
Scan Name	FL017		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
6968		70.60		0.3081		0.3106		-0.0041		0.2017		0.4574	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
74	72	67	73	75	63	75	66	-9	30	76	46	71	81

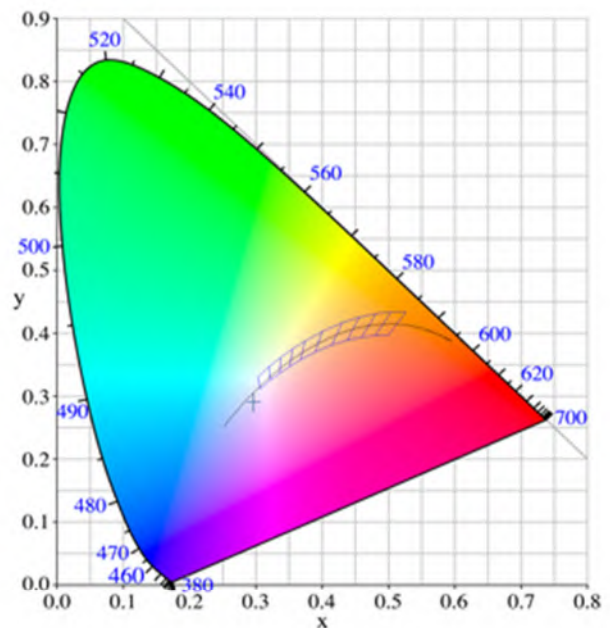
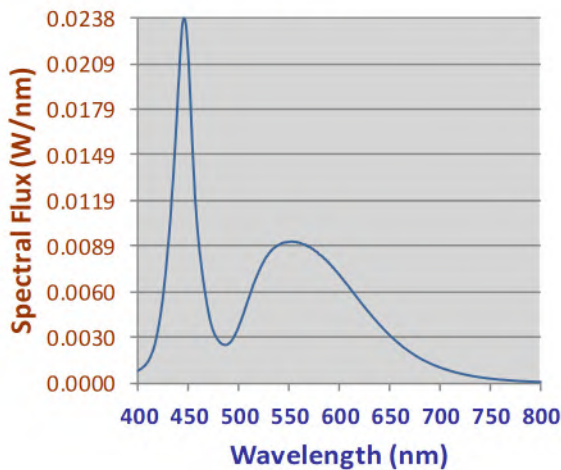
FL017 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL018		2/17/25	
Description	30 sec warmup	Test Time	10:43 AM
		Integration Time	1297.8
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	78%
Notes	24.9C, 17%RH	Sphere Geometry	2pi
		Sphere Temp	24.49
Scan ID	Scan id 13089	Lumens	551.4
Scan Name	FL018		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8322		75.48		0.2962		0.2906		-0.0083		0.2010		0.4437	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
79	76	69	80	80	67	79	74	13	39	81	48	77	82

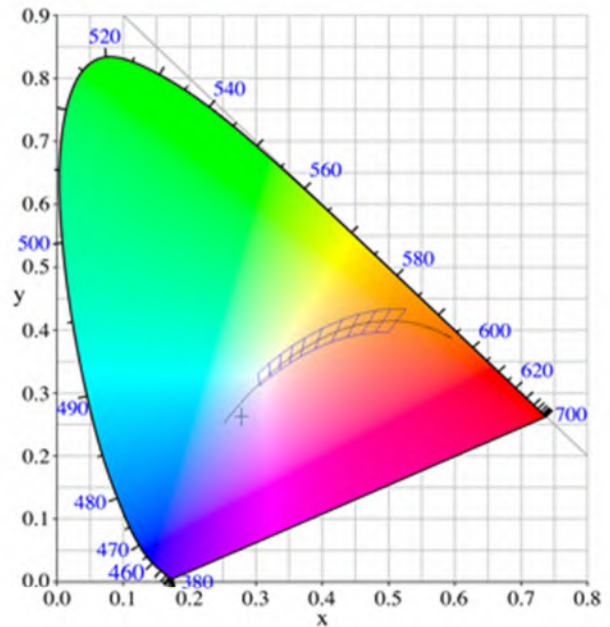
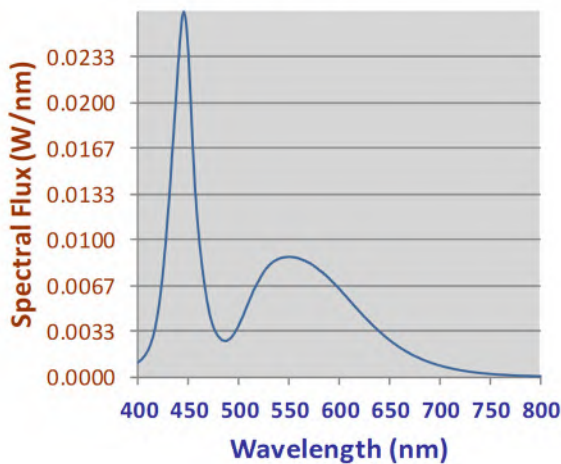
FL018 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL019		2/10/25	
Description	30 sec warmup	Test Time	11:47 AM
		Integration Time	1177.5
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	78%
Notes	25.6C, 17% RH	Sphere Geometry	2pi
		Sphere Temp	24.94
Scan ID	Scan id 13059	Lumens	520.4
Scan Name	FL019		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
12564		75.24		0.2784		0.2631		-0.0124		0.1988		0.4228	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82	74	62	81	82	64	78	78	25	33	85	48	78	78

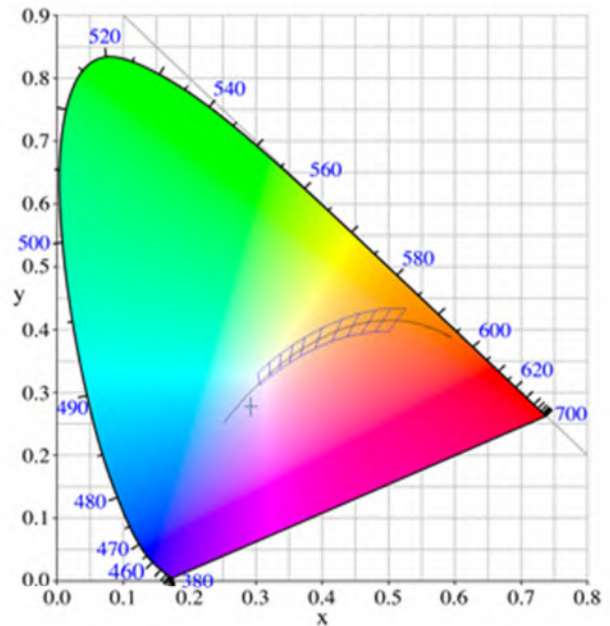
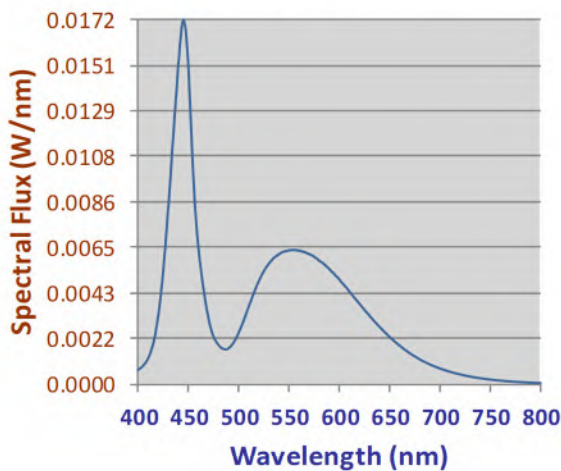
FL019 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL020		2/10/25	
Description	30 sec warmup	Test Time	11:40 AM
		Integration Time	1788.9
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	76%
Notes	25.6C, 17% RH	Sphere Geometry	2pi
		Sphere Temp	24.93
Scan ID	Scan id 13058	Lumens	378.7
Scan Name	FL020		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9214		75.60		0.2927		0.2776		-0.0136		0.2038		0.4348	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82	75	64	80	82	65	78	77	28	36	84	49	78	79

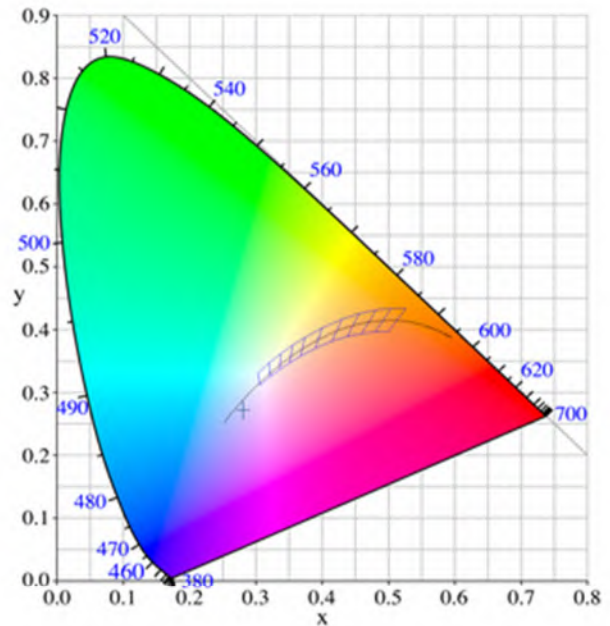
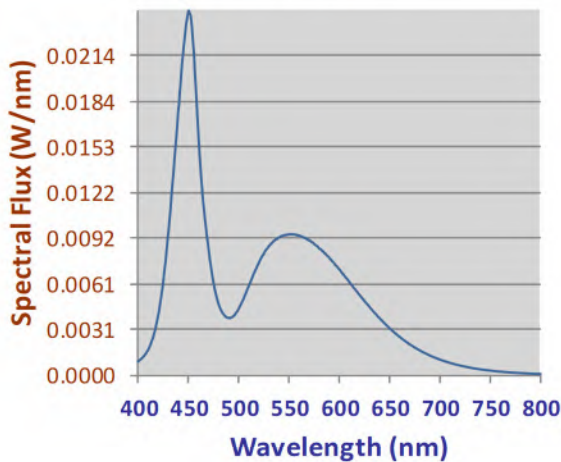
FL020 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL021		2/10/25	
Description	30 sec warmup	Test Time	11:31 AM
		Integration Time	1216.9
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	25.6C, 17% RH	Sphere Geometry	2pi
		Sphere Temp	24.93
Scan ID	Scan id 13057	Lumens	572.1
Scan Name	FL021		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
11063		80.40		0.2813		0.2723		-0.0092		0.1973		0.4295	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
84	82	73	86	83	71	86	80	29	50	83	52	82	84

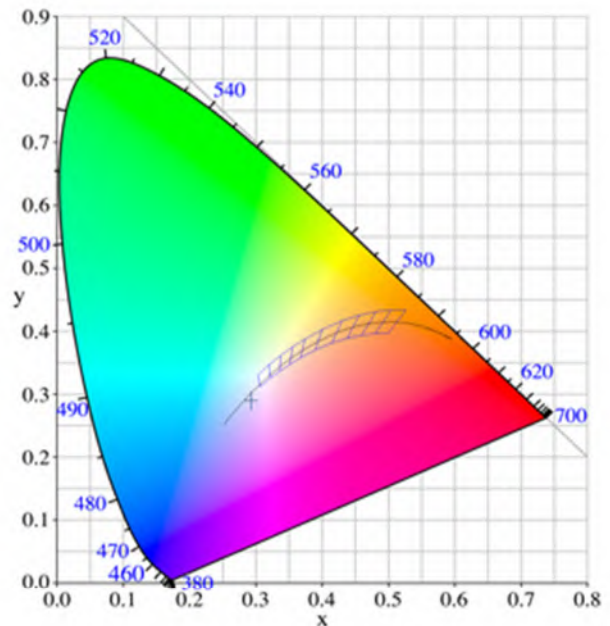
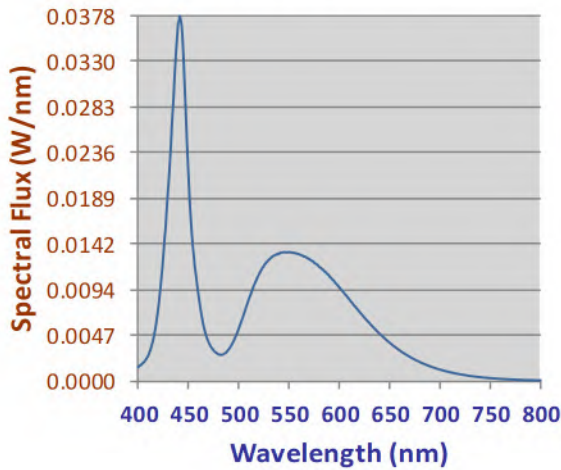
FL021 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL022		2/17/25	
Description	30 sec warmup	Test Time	10:52 AM
		Integration Time	837.2
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	75%
Notes	24.9C, 17%RH	Sphere Geometry	2pi
		Sphere Temp	24.5
Scan ID	Scan id 13091	Lumens	782.4
Scan Name	FL022		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8624		70.26		0.2932		0.2901		-0.0068		0.1989		0.4429	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
76	70	63	73	77	62	73	69	-3	26	79	47	71	78

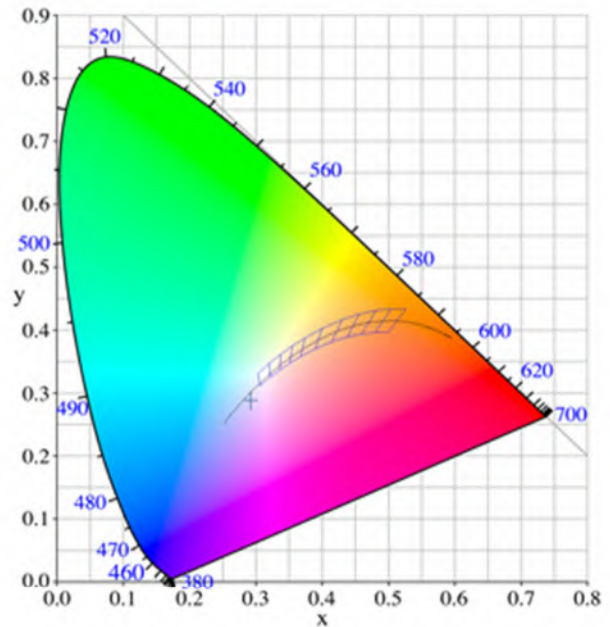
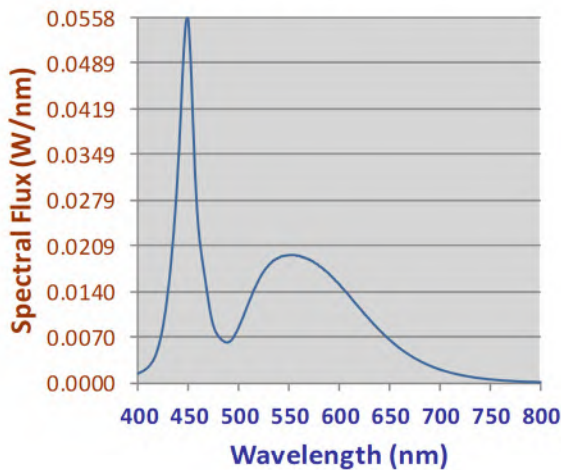
FL022 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL023		2/10/25	
Description	30 sec warmup	Test Time	3:23 PM
		Integration Time	553.6
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	25.3C, 18% RH	Sphere Geometry	2pi
		Sphere Temp	24.84
Scan ID	Scan id 13067	Lumens	1182.3
Scan Name	FL023		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8727		77.90		0.2927		0.2884		-0.0074		0.1993		0.4418	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81	79	73	82	80	69	83	76	16	46	81	48	79	84

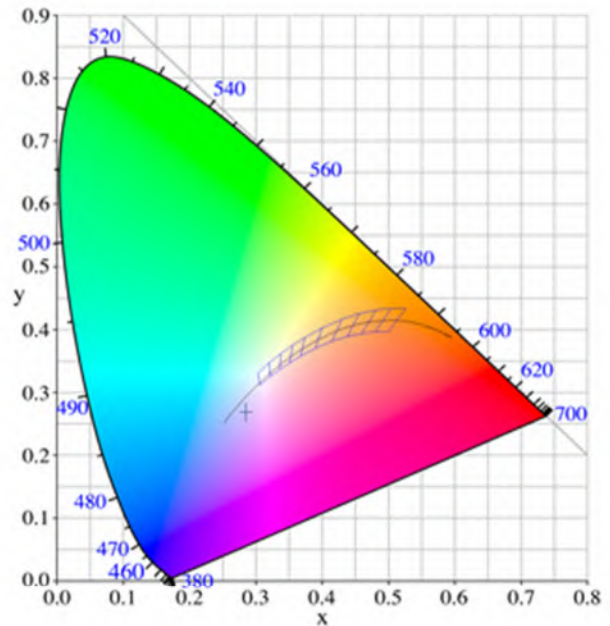
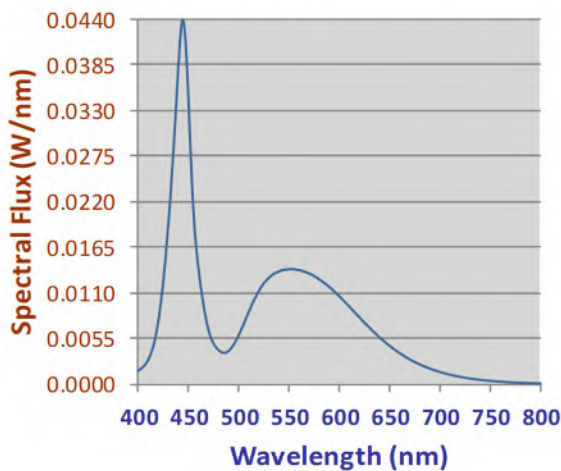
FL023 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL024		2/7/25	
Description	30 sec warmup	Test Time	12:15 PM
		Integration Time	722.1
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	78%
Notes	25.6C, 18% RH	Sphere Geometry	2pi
		Sphere Temp	25.1
Scan ID	Scan id 12476	Lumens	835.0
Scan Name	FL024		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
10777		75.04		0.2851		0.2691		-0.0135		0.2015		0.4280	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
83	74	62	80	83	65	77	78	29	33	85	49	78	78

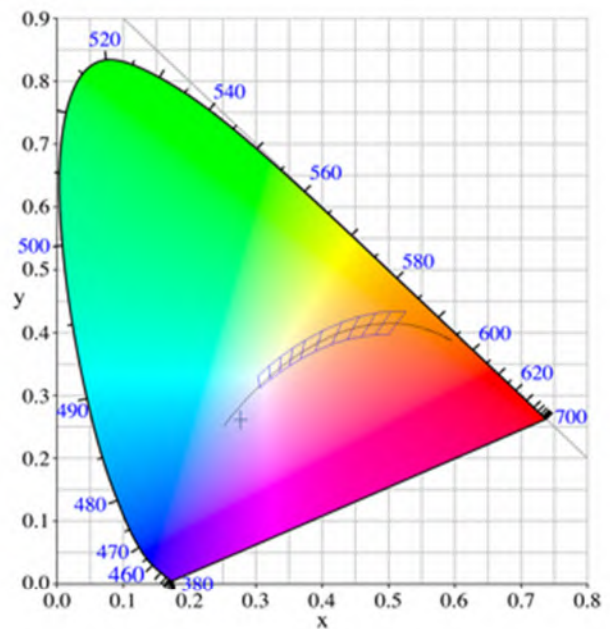
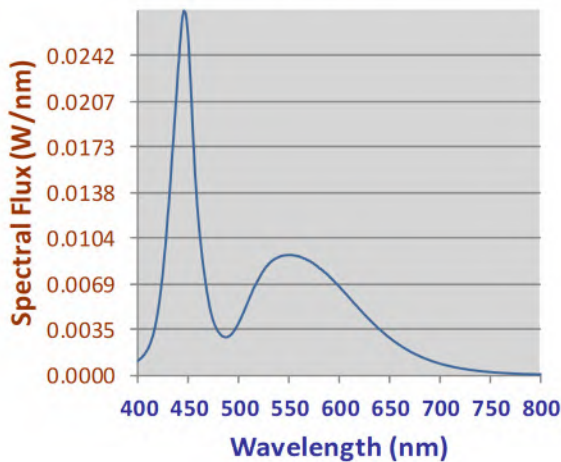
FL024 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL025		2/10/25	
Description	30 sec warmup	Test Time	10:19 AM
		Integration Time	1165.7
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	81%
Notes	25.7C, 17% RH	Sphere Geometry	2pi
		Sphere Temp	25.21
Scan ID	Scan id 13056	Lumens	543.5
Scan Name	FL025		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
13025		76.05		0.2773		0.2612		-0.0127		0.1988		0.4213	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
83	75	62	82	83	65	79	79	28	35	86	48	79	78

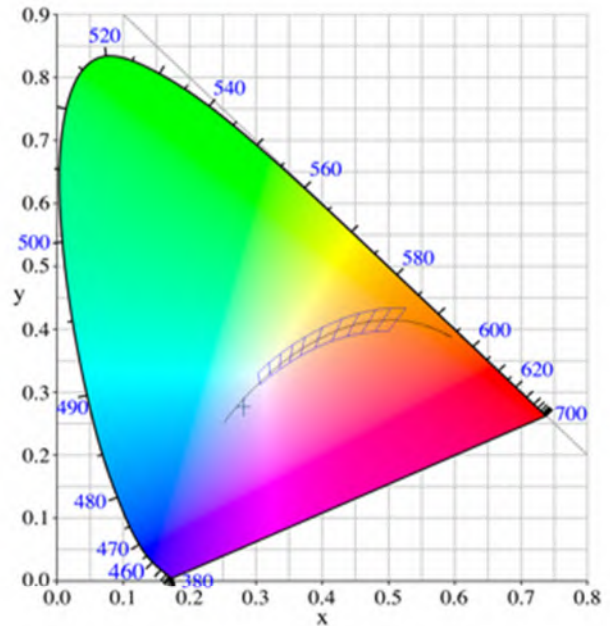
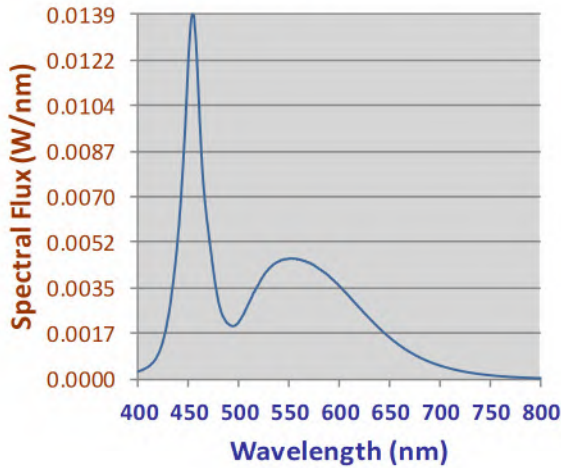
FL025 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL026		2/10/25	
Description	30 sec warmup	Test Time	3:13 PM
		Integration Time	1954.1
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	74%
Notes	25.3C, 18% RH	Sphere Geometry	2pi
		Sphere Temp	24.8
Scan ID	Scan id 13065	Lumens	283.7
Scan Name	FL026		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



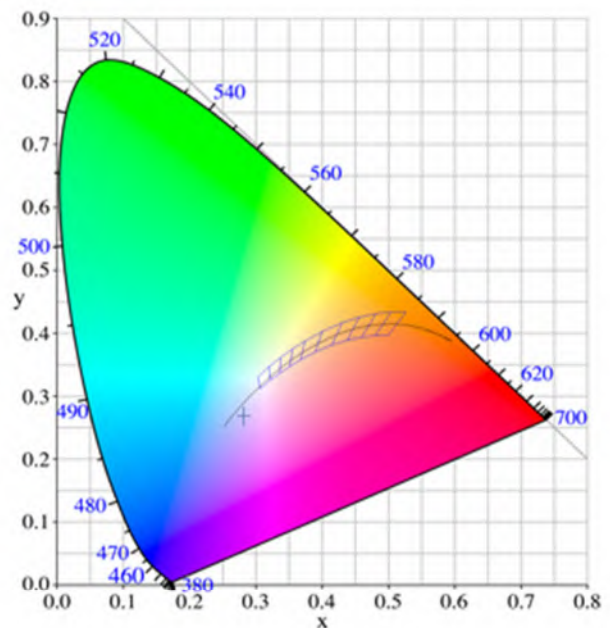
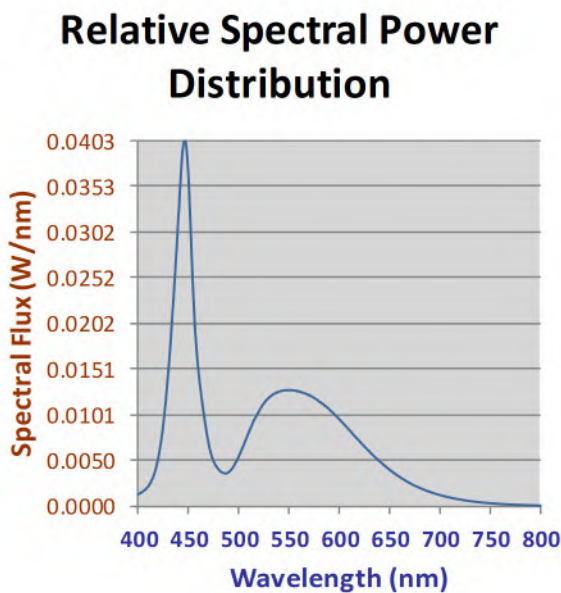
CCT		CRI		x		y		Duv		u'		v'	
10562		83.06		0.2821		0.2770		-0.0071		0.1960		0.4328	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
85	88	82	83	82	76	90	80	33	64	79	49	87	90

FL026 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL027		2/14/25	
Description	30 sec warmup	Test Time	1:49 PM
		Integration Time	782.5
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	24.6C, 17%RH	Sphere Geometry	2pi
		Sphere Temp	24.22
Scan ID	Scan id 13077	Lumens	768.1
Scan Name	FL027		
Power	Battery Powered DUT, Power Not Monitored		



CCT		CRI		x		y		Duv		u'		v'	
11242		75.70		0.2821		0.2690		-0.0115		0.1992		0.4275	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82	75	64	81	82	65	79	77	23	35	84	47	78	79

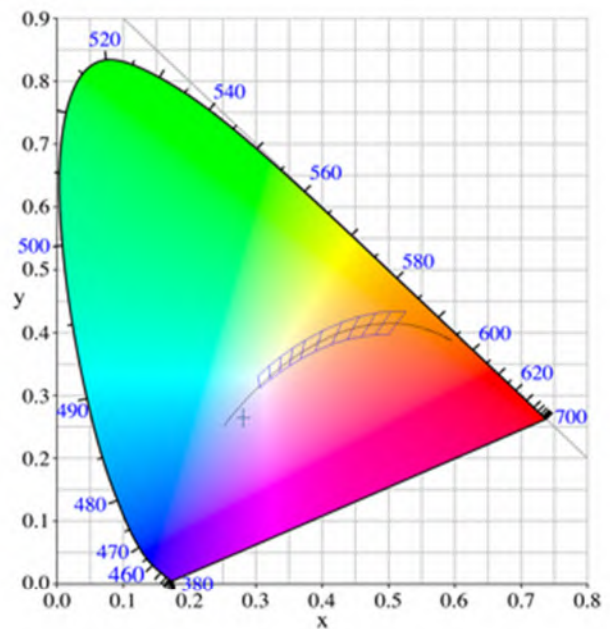
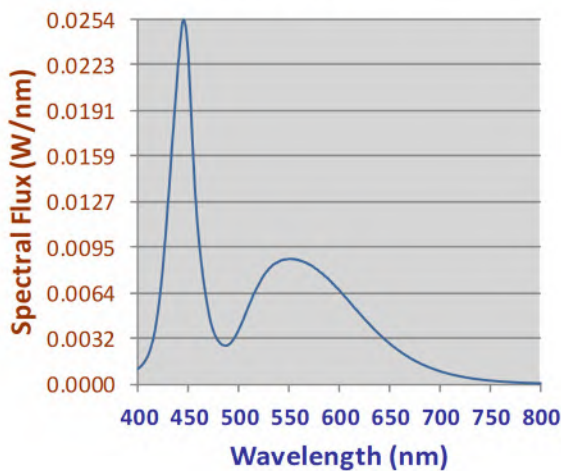
FL027 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL028		2/10/25	
Description	30 sec warmup	Test Time	9:08 AM
		Integration Time	1238.6
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	78%
Notes	26.0C, 17% RH	Sphere Geometry	2pi
		Sphere Temp	25.49
Scan ID	Scan id 13050	Lumens	523.3
Scan Name	FL028		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
11940		75.94		0.2808		0.2644		-0.0133		0.2002		0.4241	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
83	75	62	82	83	65	78	79	31	35	86	50	78	78

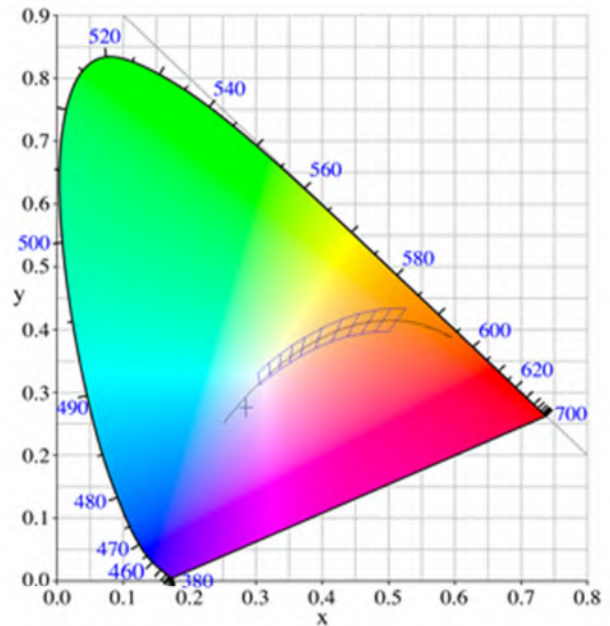
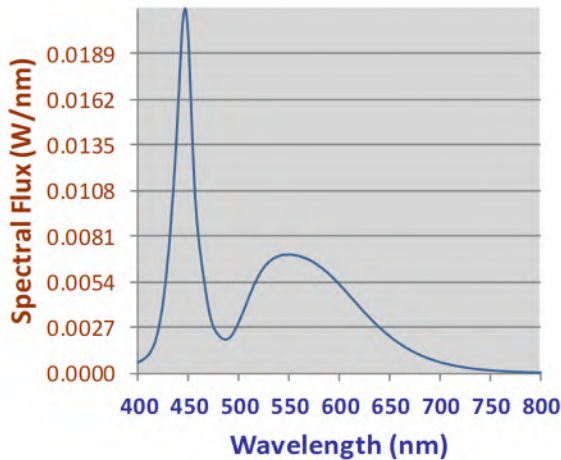
FL028 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL029		2/10/25	
Description	30 sec warmup	Test Time	9:59 AM
		Integration Time	1421
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	25.8C, 17% RH	Sphere Geometry	2pi
		Sphere Temp	25.3
Scan ID	Scan id 13055	Lumens	421.2
Scan Name	FL029		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
10253		75.86		0.2850		0.2760		-0.0095		0.1986		0.4326	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81	76	67	81	81	66	80	76	17	37	83	47	78	81

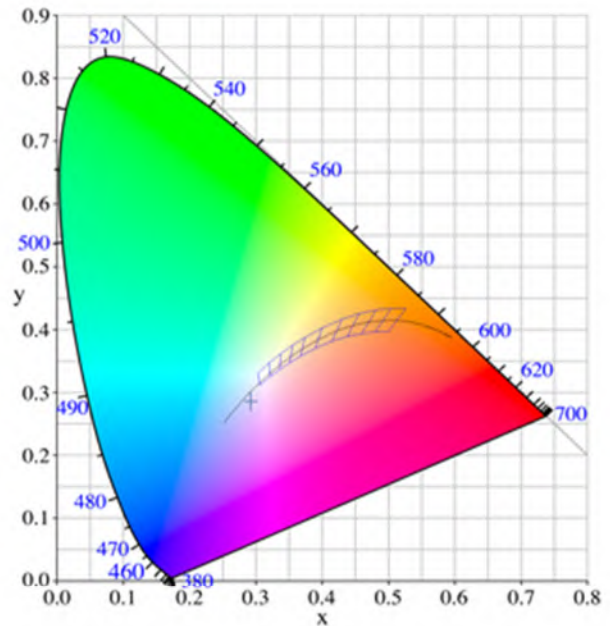
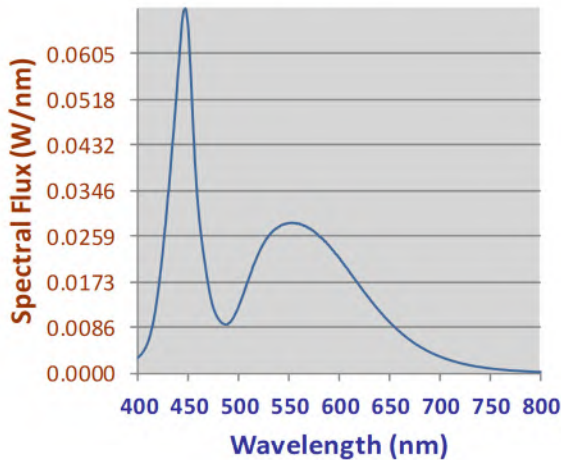
FL029 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL030		2/10/25	
Description	30 sec warmup	Test Time	9:16 AM
Orientation	Horizontal	Integration Time	457.4
Test by	DW	Scans Averaged	3
Notes	25.9C, 17% RH	Saturation	80%
Scan ID	Scan id 13051	Sphere Geometry	2pi
Scan Name	FL030	Sphere Temp	25.45
Power	Battery Powered DUT, Power Not Monitored	Lumens	1710.8

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv	u'		v'		
8858		76.78		0.2924		0.2859		-0.0086	0.2001		0.4402		
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81	77	70	81	81	68	80	75	17	41	82	52	78	82

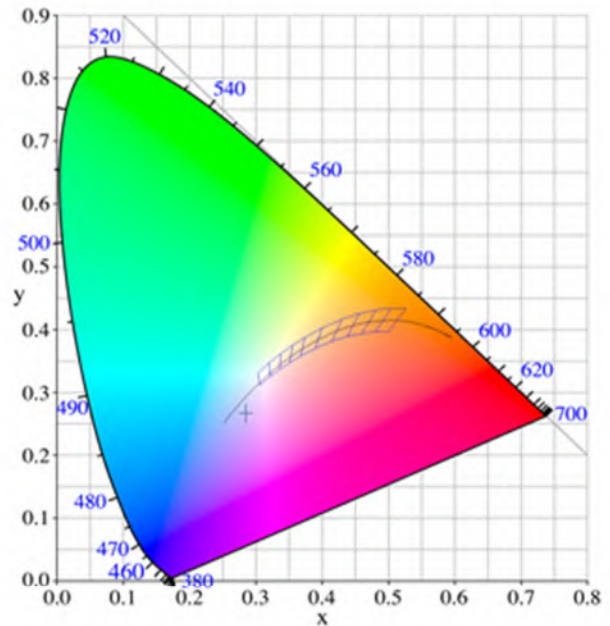
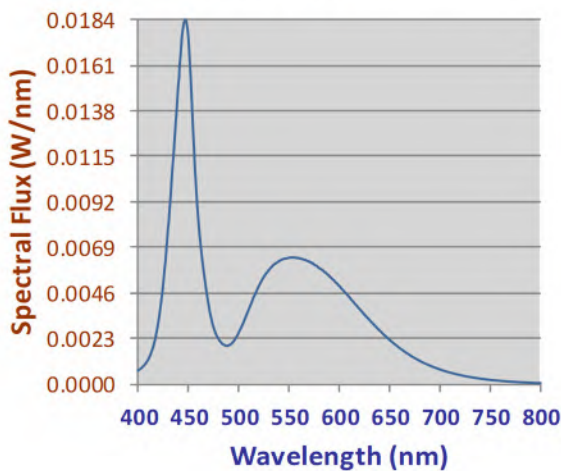
FL030 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL031		2/10/25	
Description	30 sec warmup	Test Time	9:53 AM
		Integration Time	1646.1
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	25.9C, 17% RH	Sphere Geometry	2pi
		Sphere Temp	25.33
Scan ID	Scan id 13054	Lumens	384.8
Scan Name	FL031		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
10941		77.58		0.2852		0.2672		-0.0147		0.2024		0.4267	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
84	77	64	84	84	66	80	81	37	39	86	49	80	79

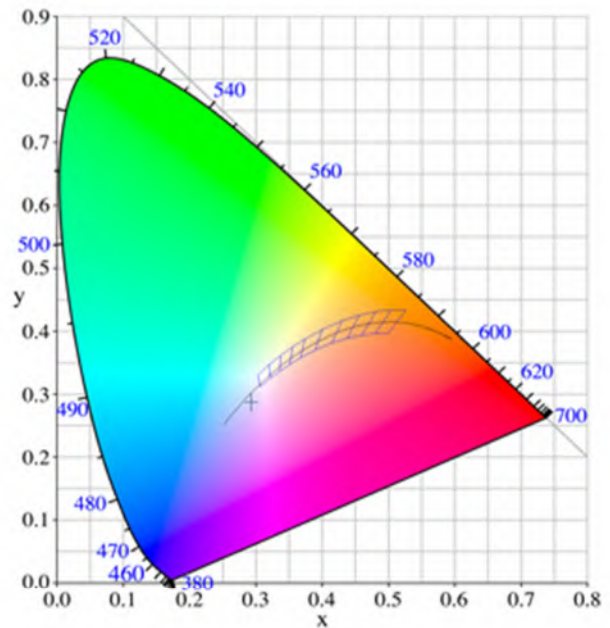
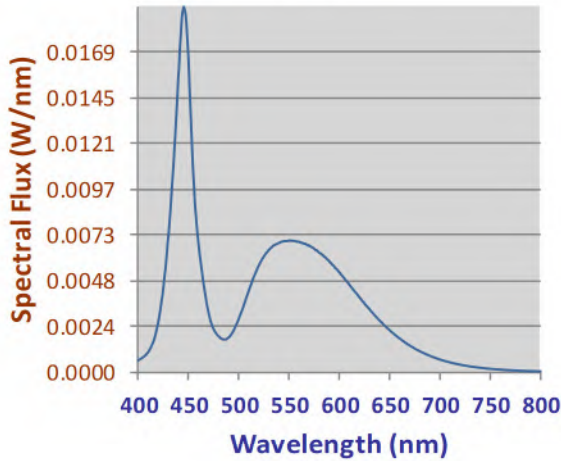
FL031 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL032		2/11/25	
Description	30 sec warmup	Test Time	11:27 AM
		Integration Time	1611.6
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	78%
Notes	24.2C, 17% RH	Sphere Geometry	2pi
		Sphere Temp	23.85
Scan ID	Scan id 13072	Lumens	414.7
Scan Name	FL032		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8727		74.42		0.2932		0.2874		-0.0083		0.2000		0.4412	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
79	75	67	79	79	65	78	73	9	36	81	47	76	81

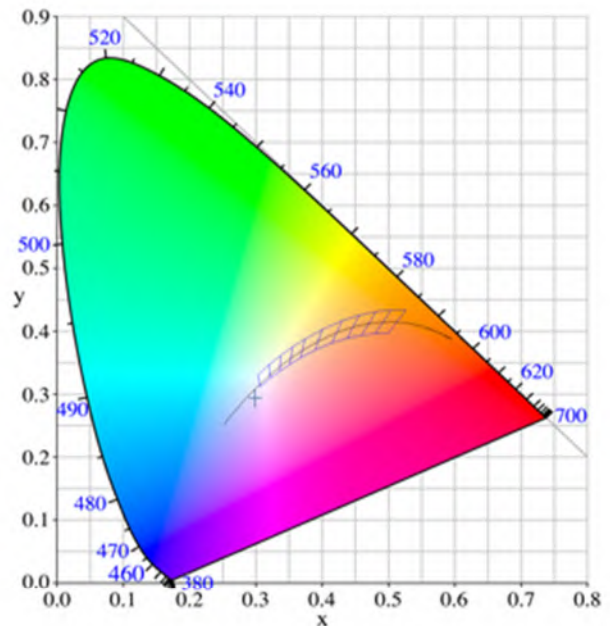
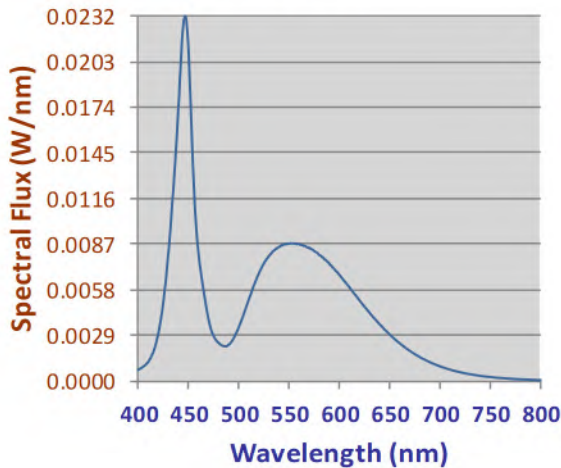
FL032 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL033		2/14/25	
Description	30 sec warmup	Test Time	12:22 PM
		Integration Time	1328.9
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	78%
Notes	24.9C, 17%RH	Sphere Geometry	2pi
		Sphere Temp	24.11
Scan ID	Scan id 13076	Lumens	521.2
Scan Name	FL033		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
7962		74.95		0.2991		0.2940		-0.0082		0.2018		0.4462	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
79	76	69	79	79	66	79	73	9	38	80	47	76	82

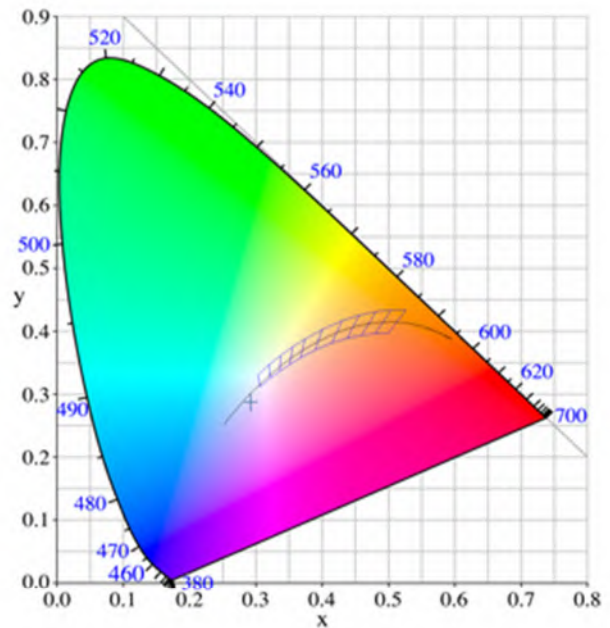
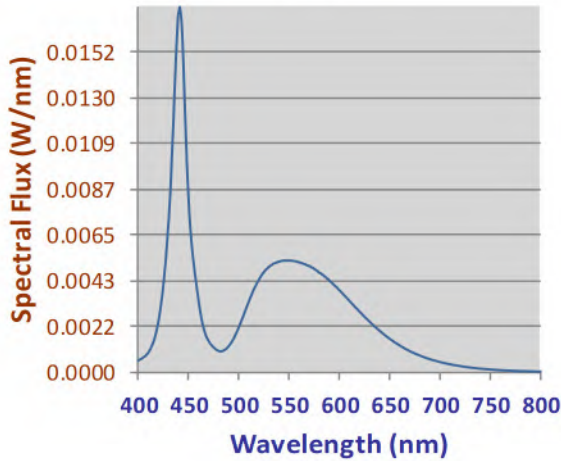
FL033 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL034		2/17/25	
Description	30 sec warmup	Test Time	10:34 AM
		Integration Time	1761.6
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	73%
Notes	25.0C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	24.51
Scan ID	Scan id 13088	Lumens	311.6
Scan Name	FL034		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8755		70.17		0.2928		0.2876		-0.0079		0.1996		0.4413	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
76	70	62	73	77	62	72	69	-1	25	79	46	72	78

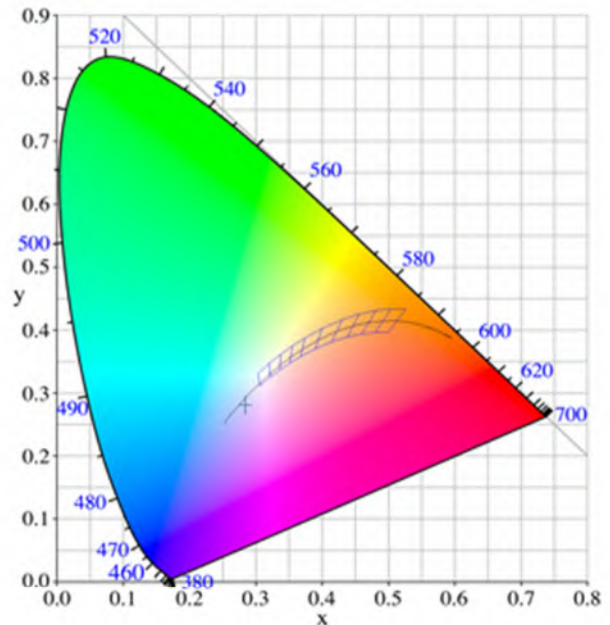
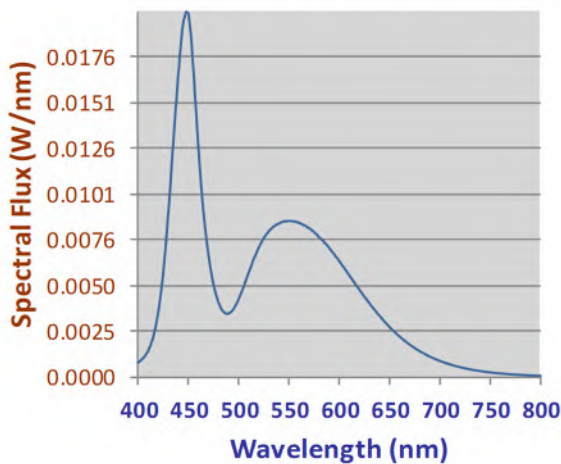
FL034 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL035		2/10/25	
Description	30 sec warmup	Test Time	12:12 PM
		Integration Time	1497.6
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	25.4C, 17% RH	Sphere Geometry	2pi
		Sphere Temp	24.96
Scan ID	Scan id 13062	Lumens	520.3
Scan Name	FL035		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
10011		78.92		0.2841		0.2813		-0.0060		0.1957		0.4360	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81	80	74	83	81	71	84	76	16	48	82	53	80	85

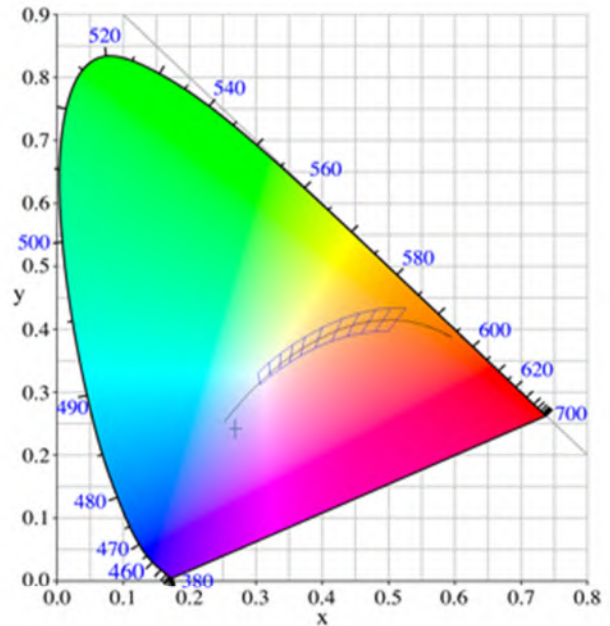
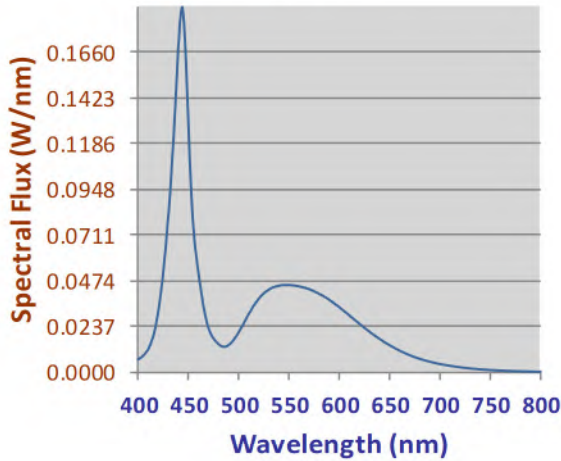
FL035 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL036		2/17/25	
Description	30 sec warmup	Test Time	10:07 AM
		Integration Time	164.6
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	76%
Notes	25.1C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	24.52
Scan ID	Scan id 13085	Lumens	2740.9
Scan Name	FL036		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
20000		73.62		0.2687		0.2419		-0.0177		0.2003		0.4058	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
85	72	54	79	85	62	74	79	41	26	88	48	78	73

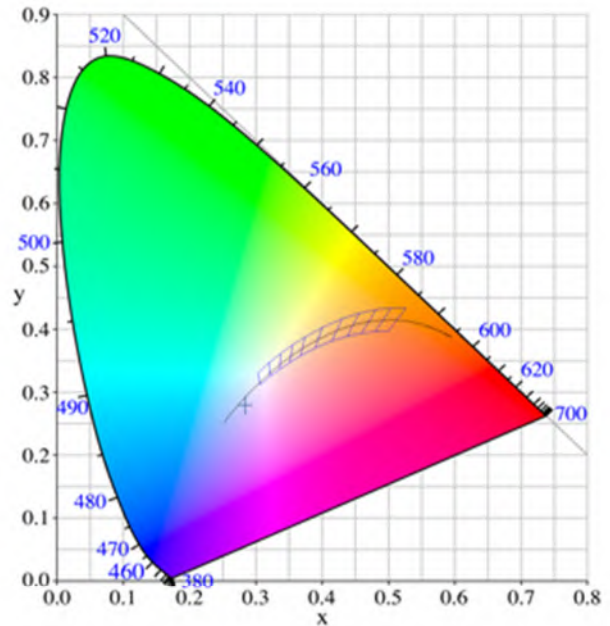
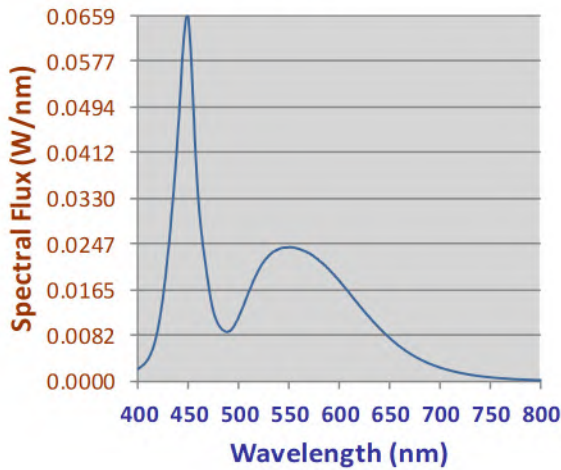
FL036 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL037		2/17/25	
Description	30 sec warmup	Test Time	9:29 AM
		Integration Time	454.1
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	25.2C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	24.62
Scan ID	Scan id 13082	Lumens	1462.1
Scan Name	FL037		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
10078		78.41		0.2845		0.2795		-0.0072		0.1967		0.4349	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81	79	72	83	81	70	83	77	18	46	83	50	80	84

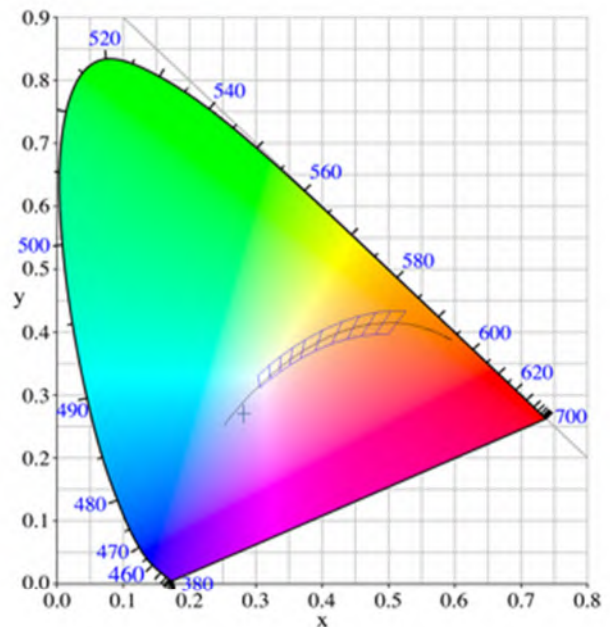
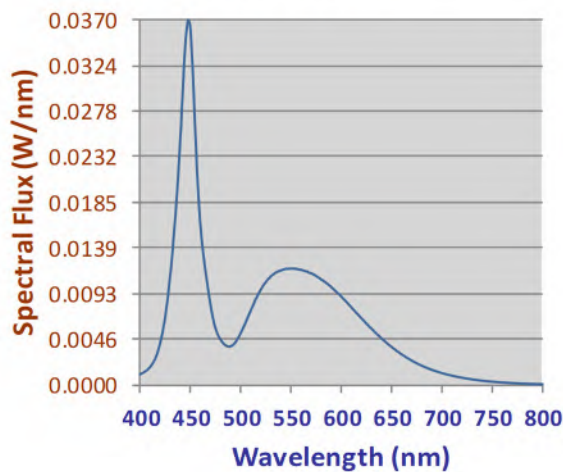
FL037 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL038		2/11/25	
Description	30 sec warmup	Test Time	11:17 AM
		Integration Time	830.7
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	24.1C, 17% RH	Sphere Geometry	2pi
		Sphere Temp	23.78
Scan ID	Scan id 13070	Lumens	716.0
Scan Name	FL038		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
11130		78.26		0.2820		0.2704		-0.0107		0.1986		0.4284	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
83	78	68	84	82	68	82	79	27	43	85	48	81	82

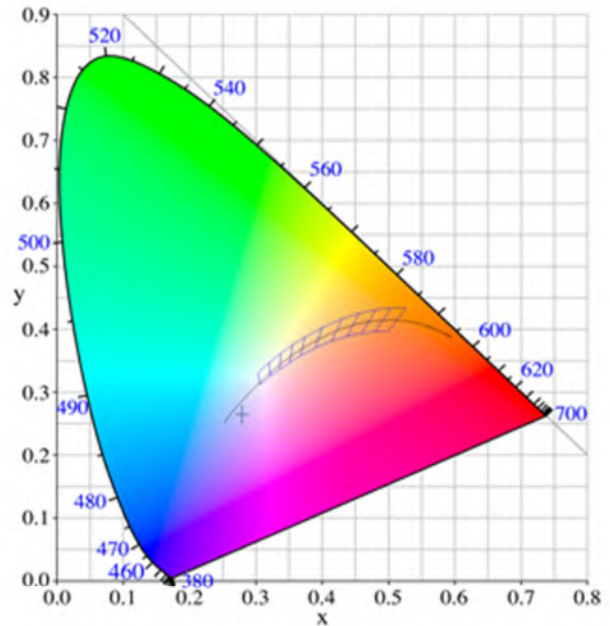
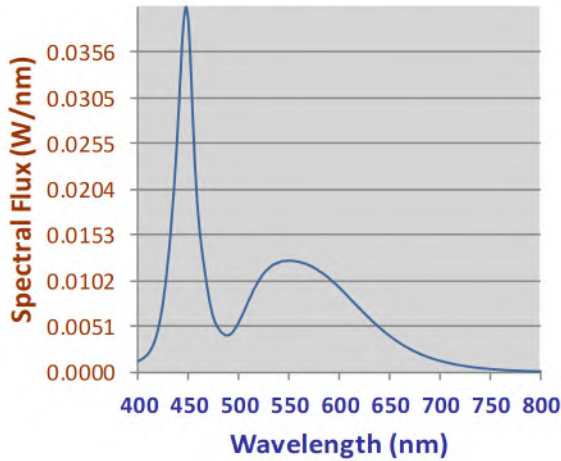
FL038 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL039		2/11/25	
Description	30 sec warmup	Test Time	11:08 AM
		Integration Time	765.3
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	24.1C, 17% RH	Sphere Geometry	2pi
		Sphere Temp	23.73
Scan ID	Scan id 13069	Lumens	753.3
Scan Name	FL039		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
12162		78.16		0.2793		0.2648		-0.0121		0.1989		0.4241	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
84	78	66	85	83	67	82	80	32	41	86	47	81	80

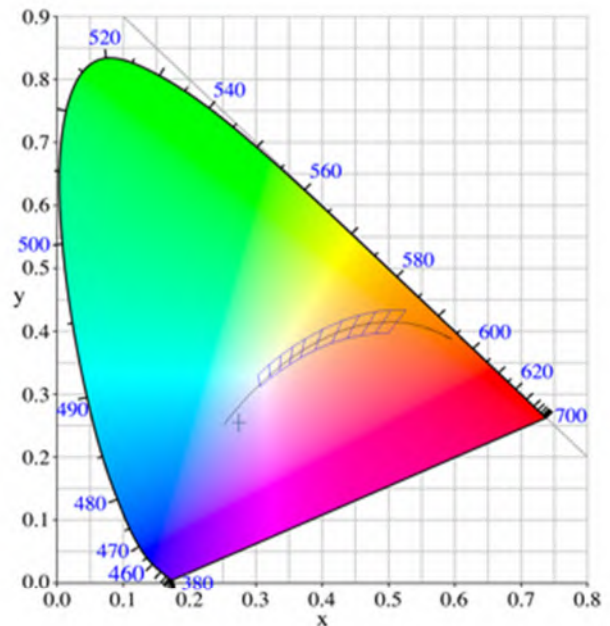
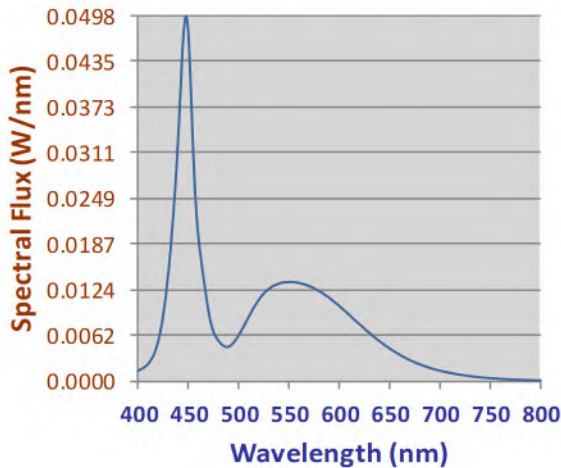
FL039 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL040		2/11/25	
Description	30 sec warmup	Test Time	11:47 AM
		Integration Time	627.6
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	24.3C, 17% RH	Sphere Geometry	2pi
		Sphere Temp	23.96
Scan ID	Scan id 13075	Lumens	823.0
Scan Name	FL040		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
14916		78.43		0.2743		0.2547		-0.0143		0.1992		0.4162	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
85	78	64	86	84	66	82	83	42	40	88	47	81	79

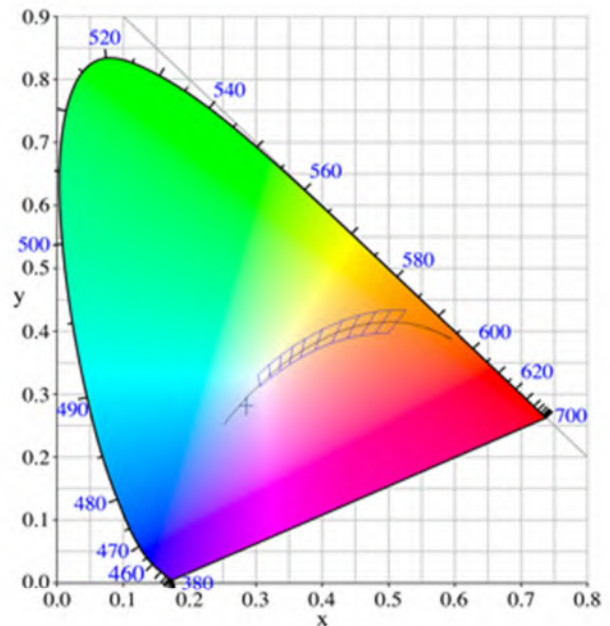
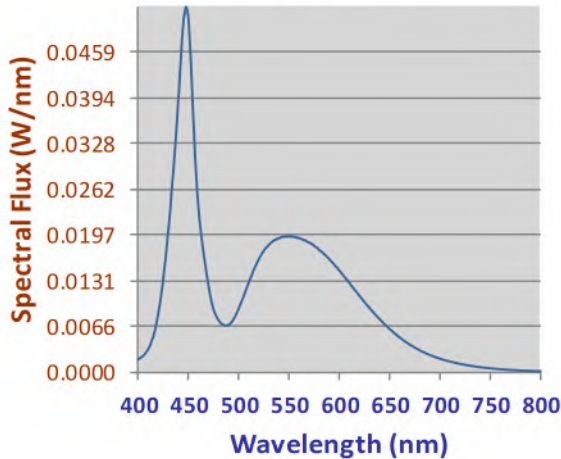
FL040 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL041		2/10/25	
Description	30 sec warmup	Test Time	3:29 PM
		Integration Time	553.6
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	74%
Notes	25.3C, 18% RH	Sphere Geometry	2pi
		Sphere Temp	24.85
Scan ID	Scan id 13068	Lumens	1174.8
Scan Name	FL041		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9739		77.22		0.2863		0.2816		-0.0072		0.1972		0.4365	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81	78	71	82	81	69	82	76	14	43	82	50	79	83

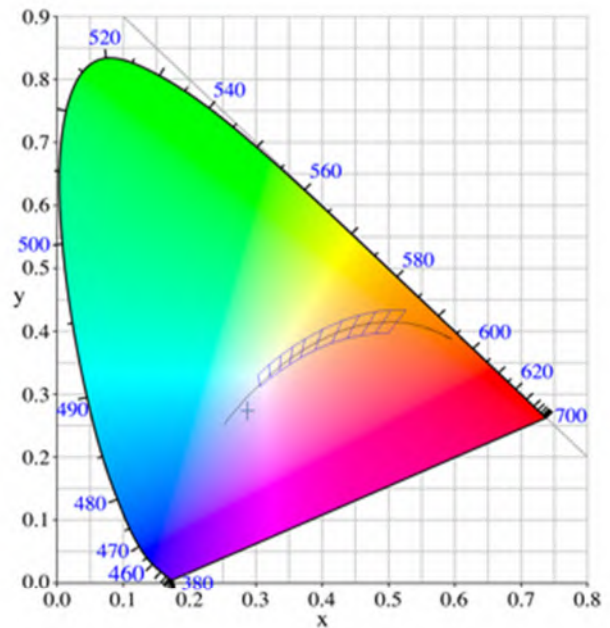
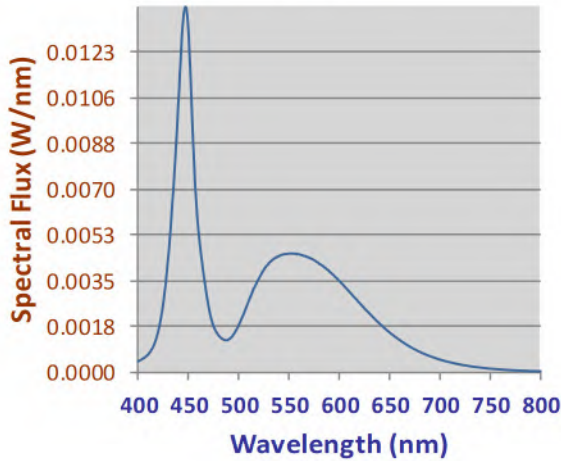
FL041 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL42		2/10/25	
Description	30 sec warmup	Test Time	2:58 PM
		Integration Time	2150.5
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	25.3C, 17% RH	Sphere Geometry	2pi
		Sphere Temp	24.74
Scan ID	Scan id 13063	Lumens	274.1
Scan Name	FL042		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
10061		76.60		0.2876		0.2740		-0.0123		0.2013		0.4317	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82	77	65	82	82	66	80	78	26	38	84	46	79	80

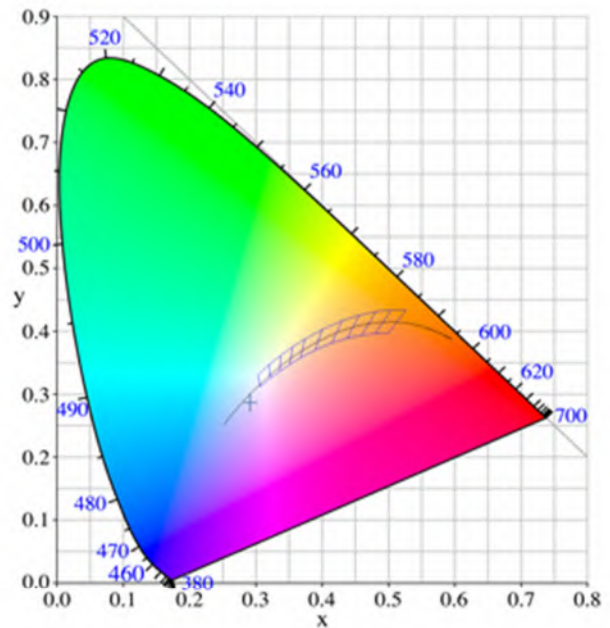
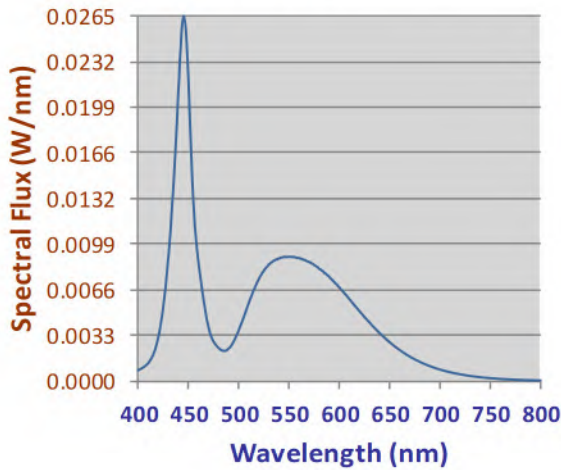
FL042 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL043		2/14/25	
Description	30 sec warmup	Test Time	1:59 PM
		Integration Time	1196
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	24.6C, 17%RH	Sphere Geometry	2pi
		Sphere Temp	24.24
Scan ID	Scan id 13078	Lumens	538.3
Scan Name	FL043		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8878		74.09		0.2920		0.2867		-0.0079		0.1994		0.4406	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
79	74	67	78	79	65	78	73	7	35	81	46	76	81

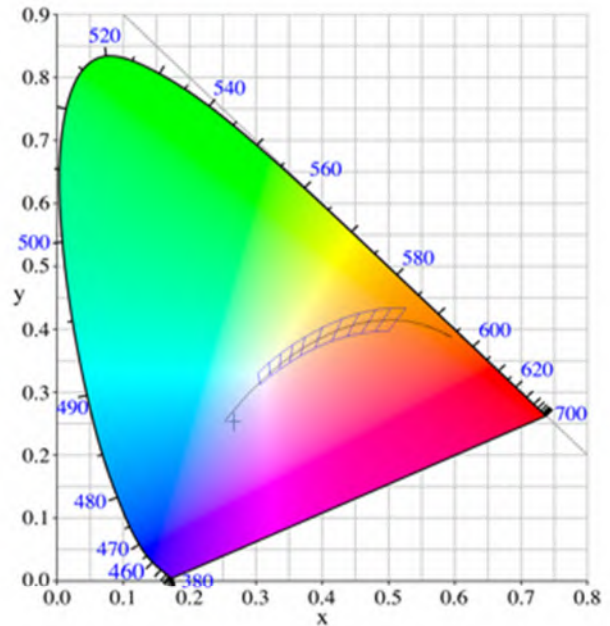
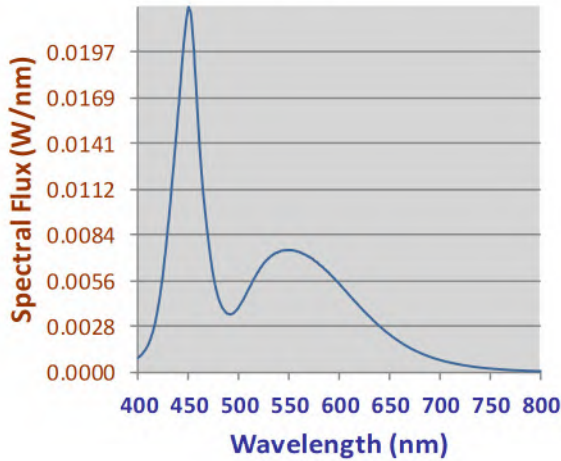
FL043 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL044		2/10/25	
Description	30 sec warmup	Test Time	9:34 AM
		Integration Time	1316.7
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	25.9C, 17% RH	Sphere Geometry	2pi
		Sphere Temp	25.37
Scan ID	Scan id 13052	Lumens	457.5
Scan Name	FL044		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
17699		81.09		0.2668		0.2530		-0.0100		0.1940		0.4138	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
85	82	72	88	83	71	86	82	35	49	86	52	83	84

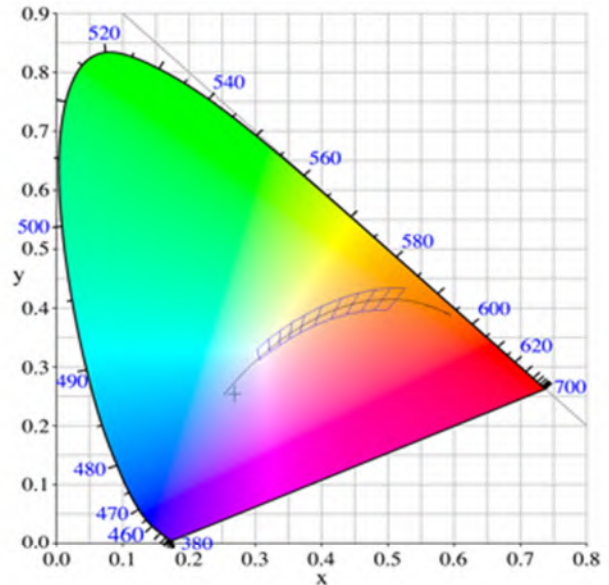
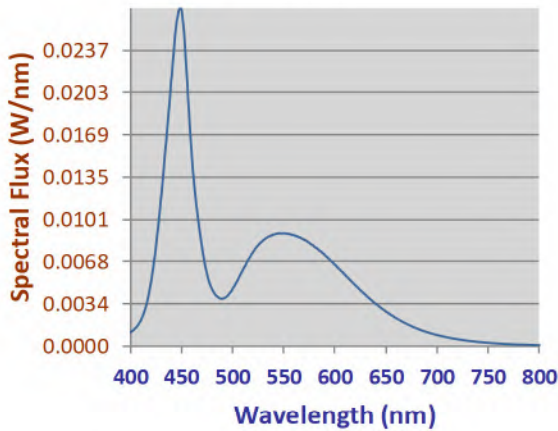
FL044 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL044-2				3/19/25	
Description	30 sec warmup			Test Time	11:08 AM
				Integration Time	1133.6
Orientation	Horizontal			Scans Averaged	3
Test by	DW			Saturation	79%
Notes	24.8C, 23%RH			Sphere Geometry	2pi
				Sphere Temp	24.59
Scan ID	Scan id 13509			Lumens	545.7
Scan Name	FL044-2				
Power	Battery Powered DUT, Power Not Monitored				

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
16464		79.17		0.2692		0.2545		-0.0108		0.1952		0.4153	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
84	79	68	86	83	69	83	81	32	43	87	51	81	81

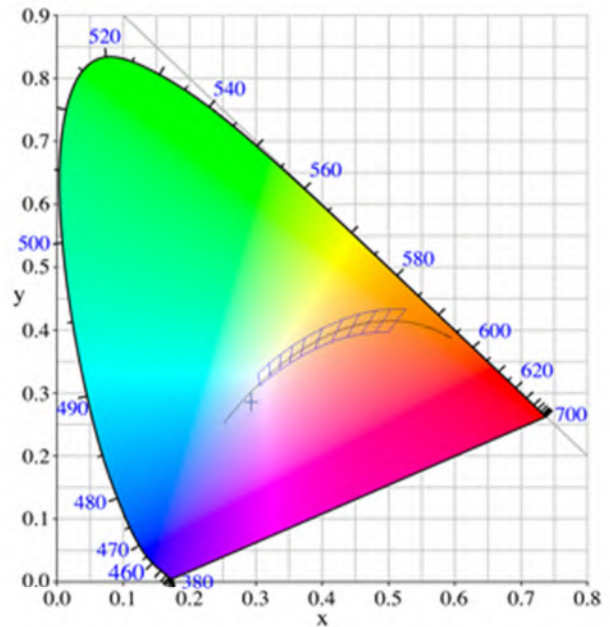
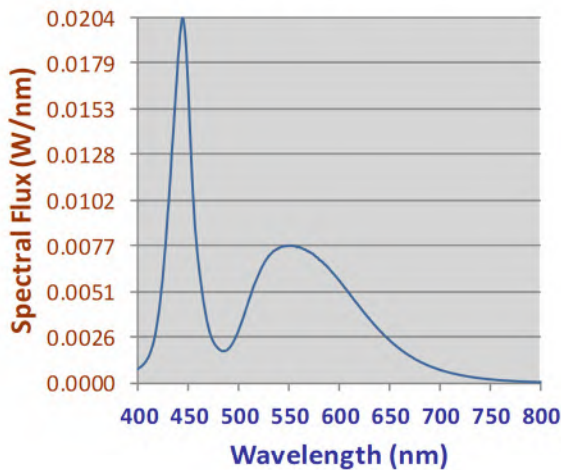
FL044-2 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL045		2/10/25	
Description	30 sec warmup	Test Time	3:06 PM
		Integration Time	1534.3
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	25.3C, 18% RH	Sphere Geometry	2pi
		Sphere Temp	24.77
Scan ID	Scan id 13064	Lumens	452.4
Scan Name	FL045		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8802		72.72		0.2929		0.2862		-0.0088		0.2003		0.4404	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
78	73	64	77	79	64	76	72	6	31	80	47	74	79

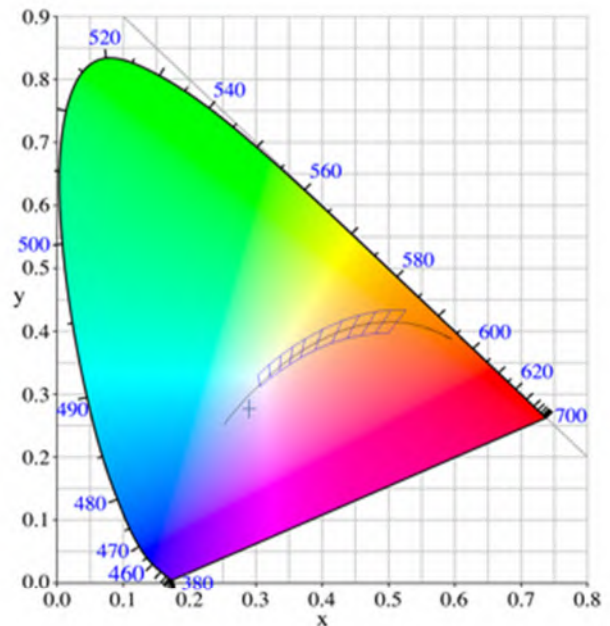
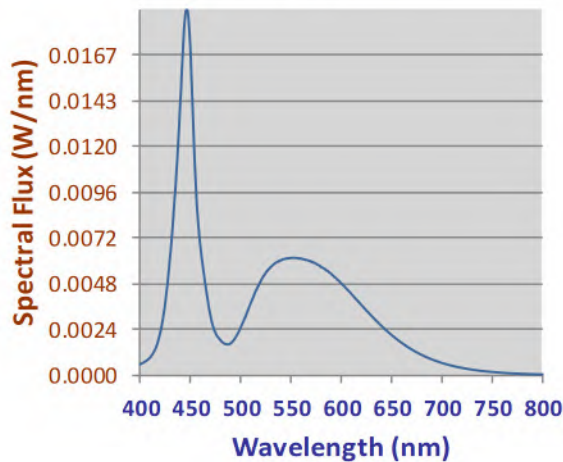
FL045 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL046		2/11/25	
Description	30 sec warmup	Test Time	11:22 AM
		Integration Time	1631.2
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	78%
Notes	24.1C, 17% RH	Sphere Geometry	2pi
		Sphere Temp	23.82
Scan ID	Scan id 13071	Lumens	370.1
Scan Name	FL046		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9574		76.42		0.2901		0.2768		-0.0123		0.2021		0.4339	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
83	76	65	82	82	66	79	78	26	38	84	47	79	80

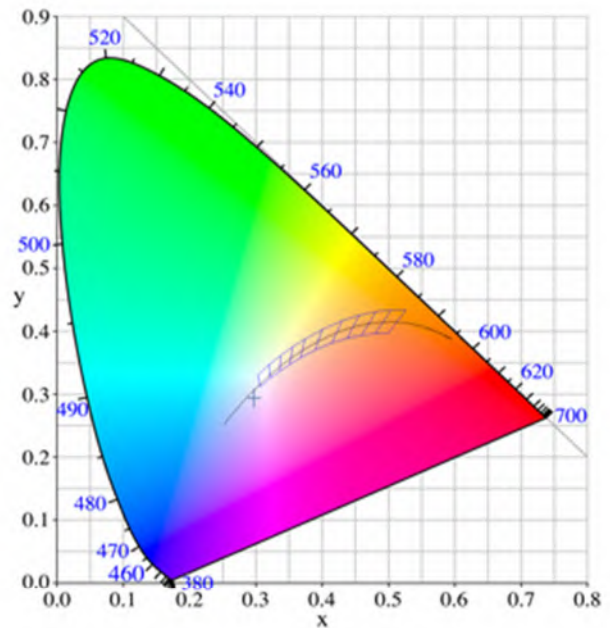
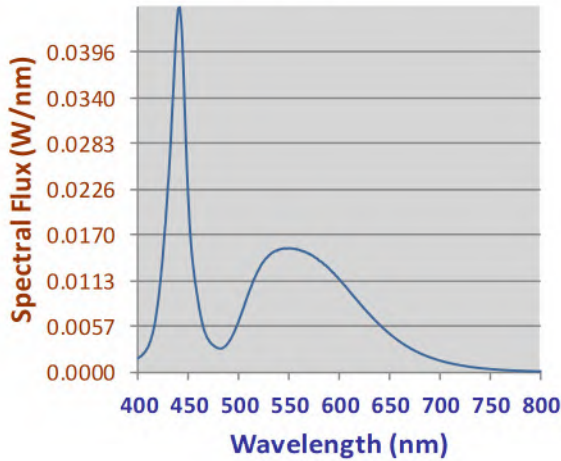
FL046 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL047		2/14/25	
Description	30 sec warmup	Test Time	3:03 PM
		Integration Time	756.2
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	81%
Notes	25.1C, 17%RH	Sphere Geometry	2pi
		Sphere Temp	24.61
Scan ID	Scan id 13081	Lumens	908.4
Scan Name	FL047		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8085		70.00		0.2975		0.2945		-0.0070		0.2004		0.4463	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
76	70	63	72	77	62	72	68	-3	26	79	48	71	79

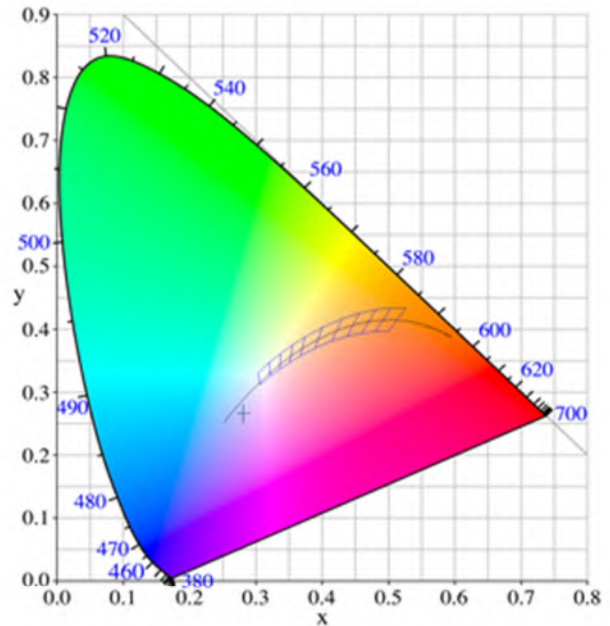
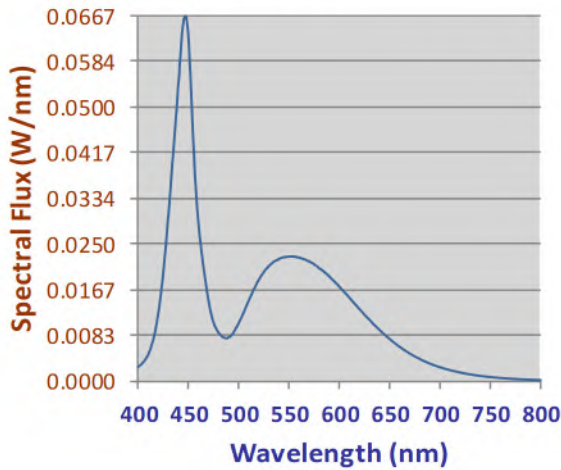
FL047 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL048		2/17/25	
Description	30 sec warmup	Test Time	10:28 AM
		Integration Time	464.4
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	78%
Notes	25.0C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	24.53
Scan ID	Scan id 13087	Lumens	1377.8
Scan Name	FL048		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
11628		77.79		0.2813		0.2665		-0.0125		0.1997		0.4256	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
84	77	66	84	84	67	80	80	34	40	87	51	80	80

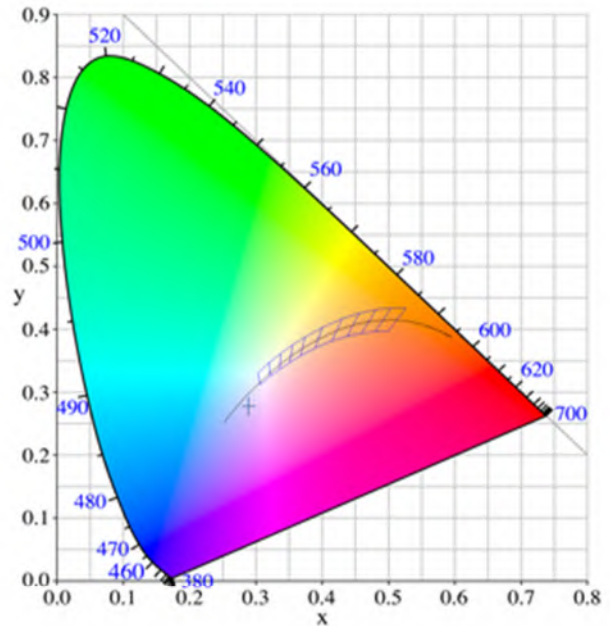
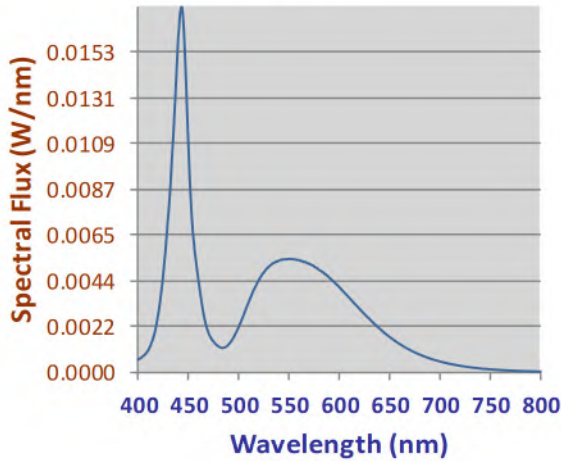
FL048 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL049		2/17/25	
Description	30 sec warmup	Test Time	9:58 AM
		Integration Time	1807.8
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	76%
Notes	25.0C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	24.5
Scan ID	Scan id 13083	Lumens	320.4
Scan Name	FL049		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9605		72.11		0.2892		0.2780		-0.0111		0.2010		0.4345	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
79	72	61	76	80	62	74	73	12	28	82	47	74	77

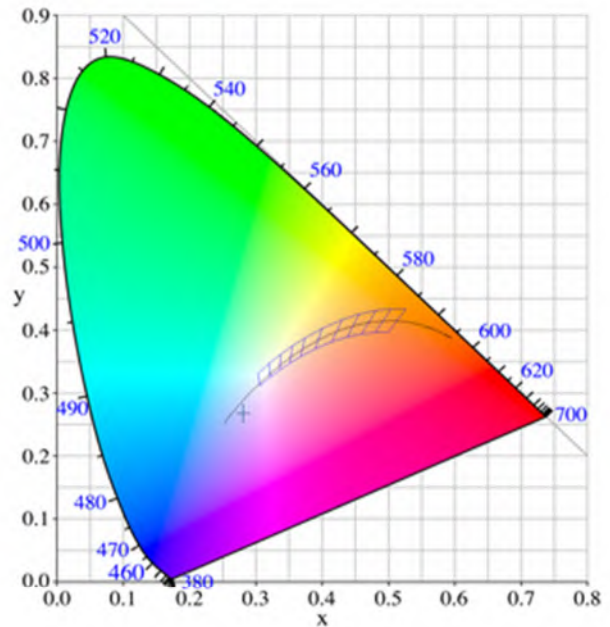
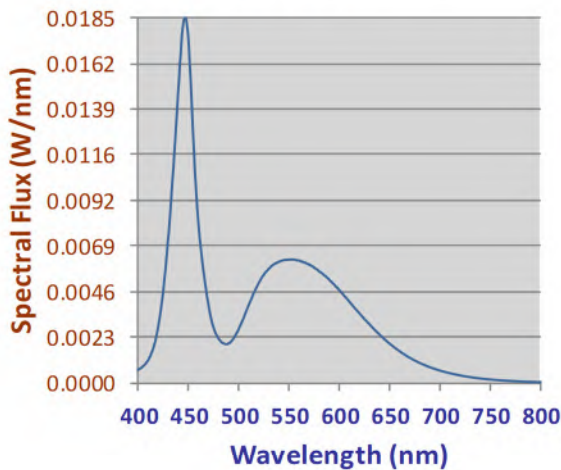
FL049 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL050		2/10/25	
Description	30 sec warmup	Test Time	3:20 PM
		Integration Time	1646.8
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	25.3C, 18% RH	Sphere Geometry	2pi
		Sphere Temp	24.83
Scan ID	Scan id 13066	Lumens	375.8
Scan Name	FL050		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
11456		76.85		0.2814		0.2680		-0.0116		0.1991		0.4267	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
83	77	65	83	82	66	80	78	26	38	85	48	79	80

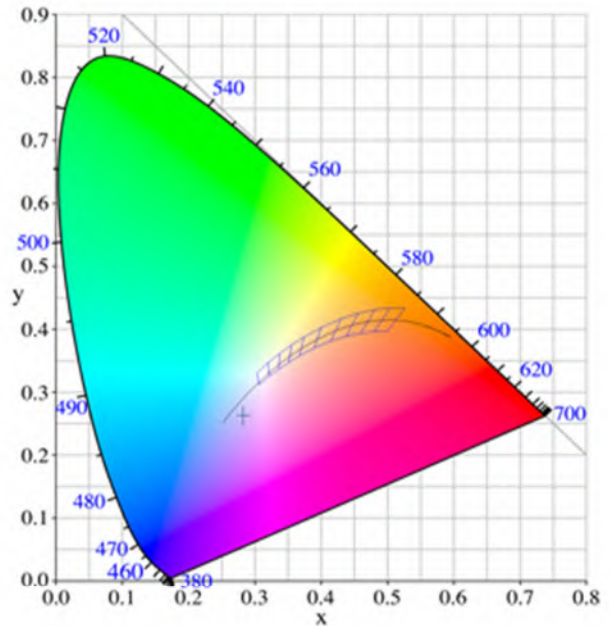
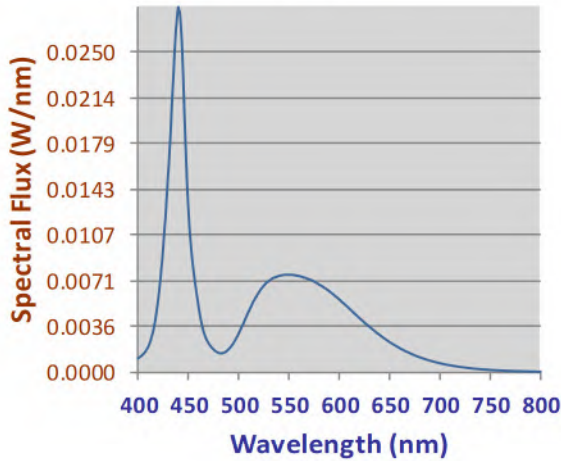
FL050 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL051		2/17/25	
Description	30 sec warmup	Test Time	11:30 AM
		Integration Time	1142.9
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	25.1C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	24.54
Scan ID	Scan id 13092	Lumens	451.4
Scan Name	FL051		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
11763		69.68		0.2827		0.2630		-0.0154		0.2023		0.4234	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82	68	52	72	82	59	69	73	24	19	83	47	74	72

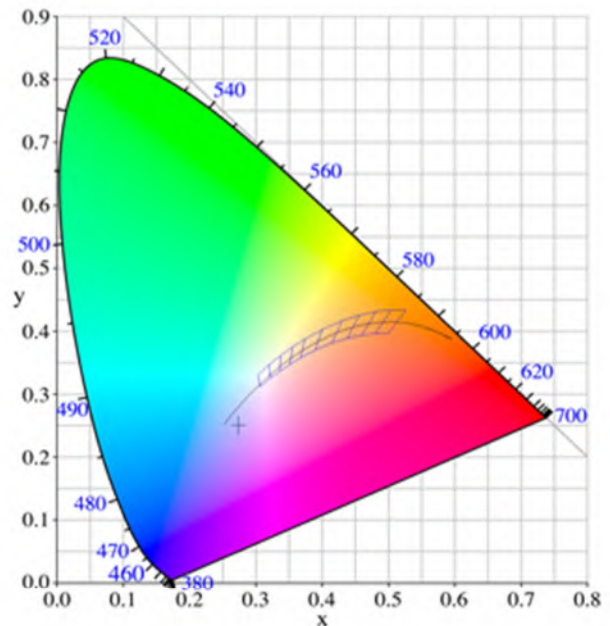
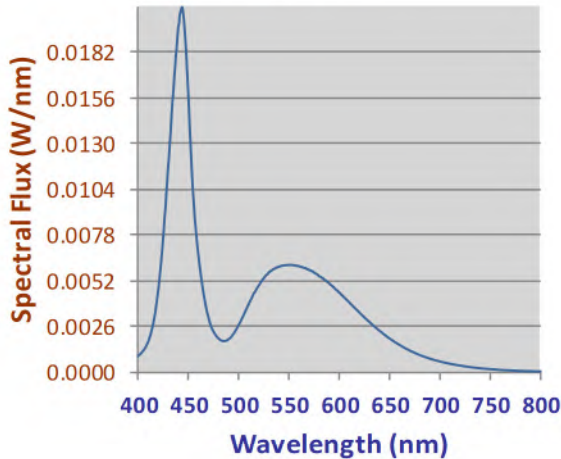
FL051 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL052		2/17/25	
Description	30 sec warmup	Test Time	11:38 AM
		Integration Time	1492.3
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	75%
Notes	25.1C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	24.56
Scan ID	Scan id 13094	Lumens	365.7
Scan Name	FL052		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
15960		73.50		0.2741		0.2507		-0.0165		0.2008		0.4132	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
84	72	55	79	84	62	74	78	38	26	87	49	77	74

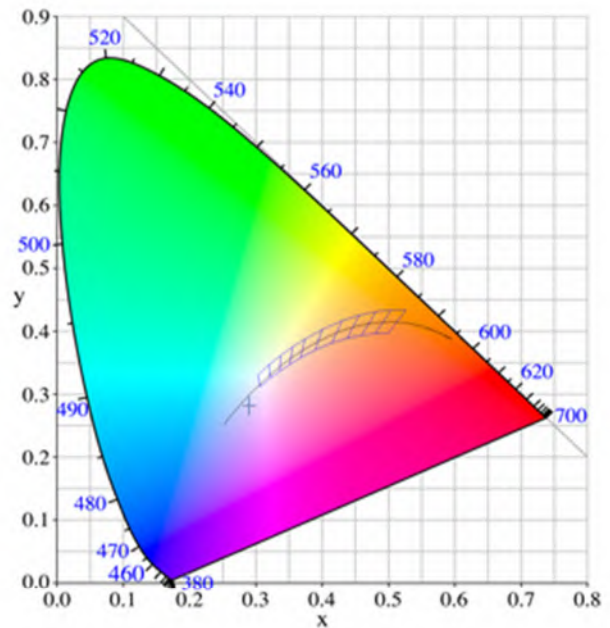
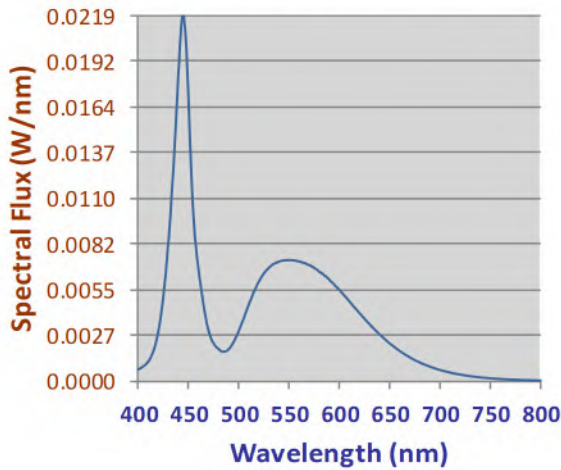
FL052 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL053		2/18/25	
Description	30 sec warmup	Test Time	9:25 AM
		Integration Time	1393.1
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	76%
Notes	25.4C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	24.91
Scan ID	Scan id 13111	Lumens	433.5
Scan Name	FL053		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9298		73.77		0.2900		0.2821		-0.0092		0.1998		0.4374	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
79	74	65	78	80	64	77	73	10	33	82	47	76	80

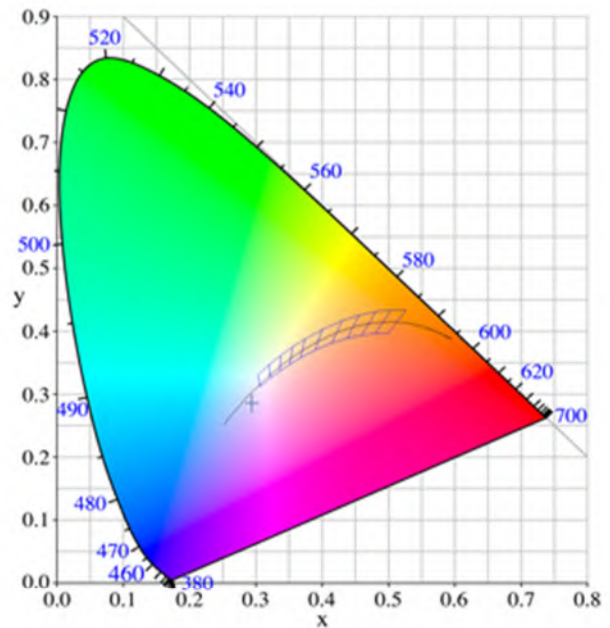
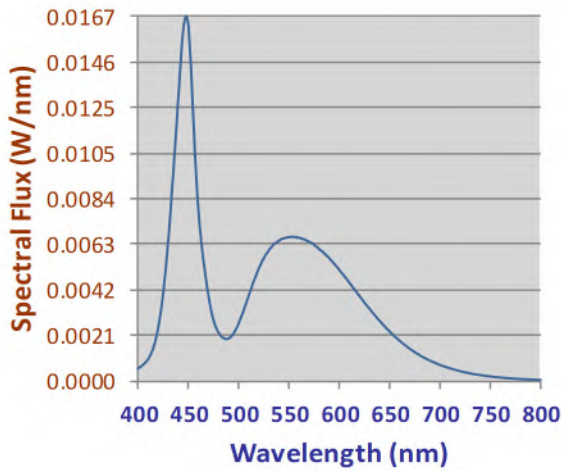
FL053 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL054		2/17/25	
Description	30 sec warmup	Test Time	1:51 PM
		Integration Time	1785.2
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	76%
Notes	25.1C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	24.52
Scan ID	Scan id 13099	Lumens	395.9
Scan Name	FL054		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8722		77.00		0.2939		0.2858		-0.0096		0.2012		0.4403	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81	78	70	82	81	68	81	76	19	42	82	49	79	82

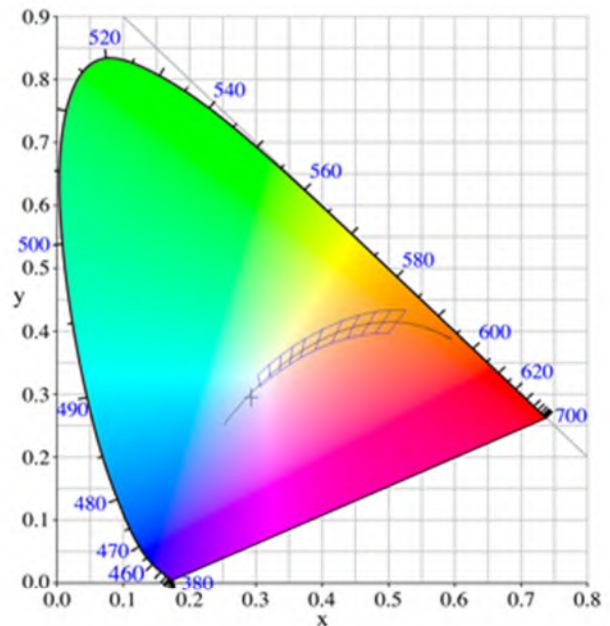
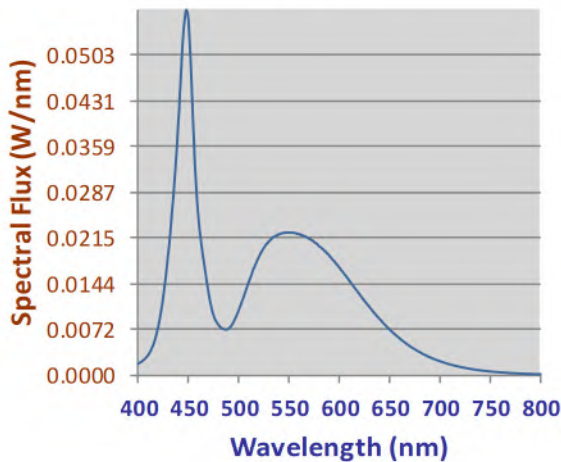
FL054 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL055		2/17/25	
Description	30 sec warmup	Test Time	2:47 PM
		Integration Time	542.4
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	25.0C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	24.56
Scan ID	Scan id 13103	Lumens	1348.2
Scan Name	FL055		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8425		76.39		0.2936		0.2947		-0.0045		0.1974		0.4458	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
78	78	73	80	79	69	82	72	5	43	80	49	77	85

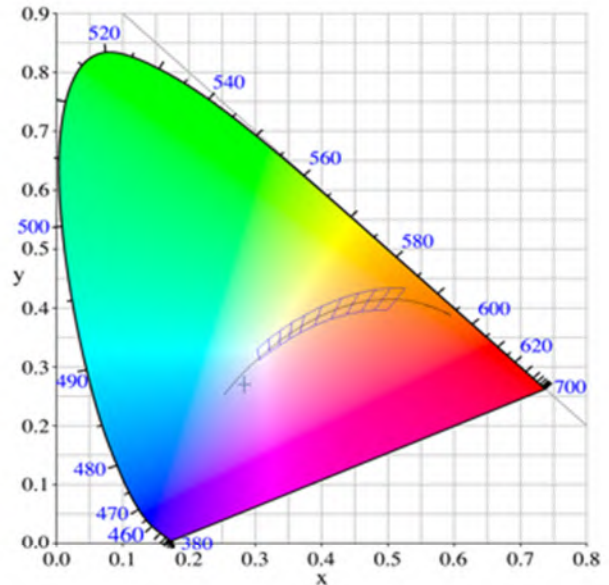
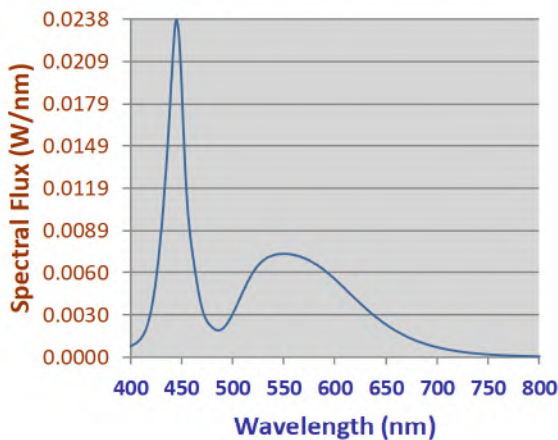
FL055 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL056				2/19/25	
Description	30 sec warmup			Test Time	2:58 PM
				Integration Time	1290.4
Orientation	Horizontal			Scans Averaged	3
Test by	DW			Saturation	76%
Notes	24.9C, 16%RH			Sphere Geometry	2pi
				Sphere Temp	24.33
Scan ID	Scan id 13133			Lumens	436.7
Scan Name	FL056				
Power	Battery Powered DUT, Power Not Monitored				

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
10849		74.72		0.2839		0.2704		-0.0120		0.2000		0.4286	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82	74	62	80	82	64	77	77	22	33	84	47	77	78

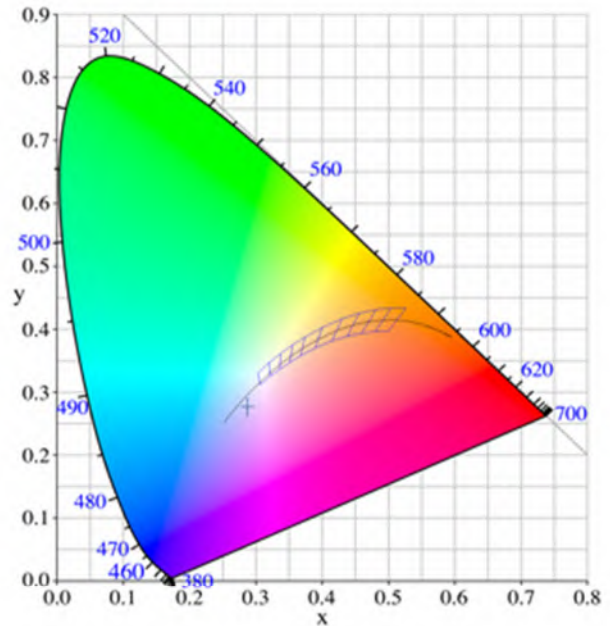
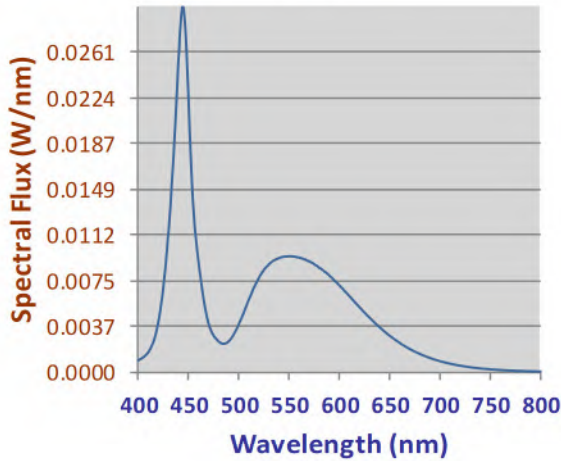
FL056 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL057		2/21/25	
Description	30 sec warmup	Test Time	11:59 AM
		Integration Time	1083.7
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	24.3C, 17%RH	Sphere Geometry	2pi
		Sphere Temp	23.55
Scan ID	Scan id 13136	Lumens	563.2
Scan Name	FL057		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9870		73.84		0.2876		0.2769		-0.0107		0.2002		0.4336	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80	74	63	78	81	64	76	75	16	32	83	47	76	79

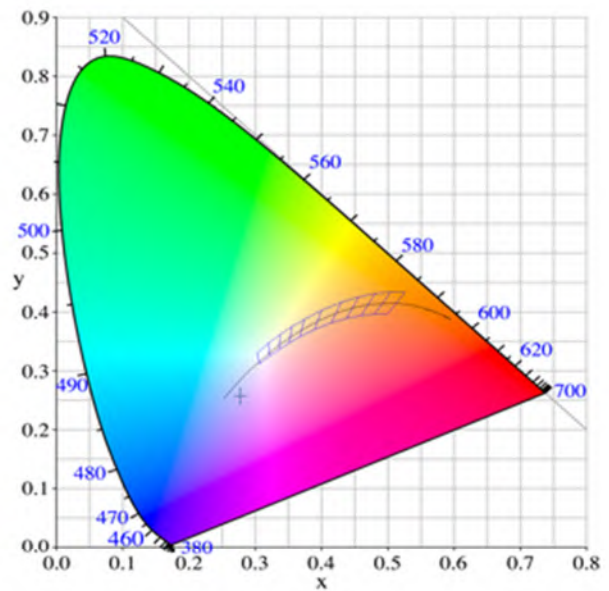
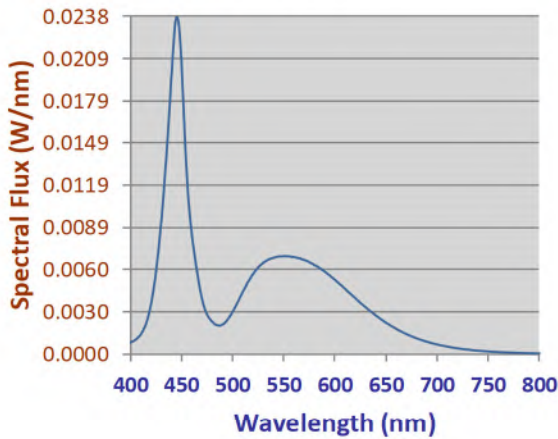
FL057 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL058		2/19/25	
Description	30 sec warmup	Test Time	3:02 PM
Orientation	Horizontal	Integration Time	1290.4
Test by	DW	Scans Averaged	3
Notes	24.9C, 16%RH	Saturation	77%
Scan ID	Scan id 13134	Sphere Geometry	2pi
Scan Name	FL058	Sphere Temp	24.37
Power	Battery Powered DUT, Power Not Monitored	Lumens	417.3

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
13553		75.84		0.2775		0.2578		-0.0148		0.2004		0.4189	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
84	75	60	82	84	64	78	80	35	33	87	47	79	77

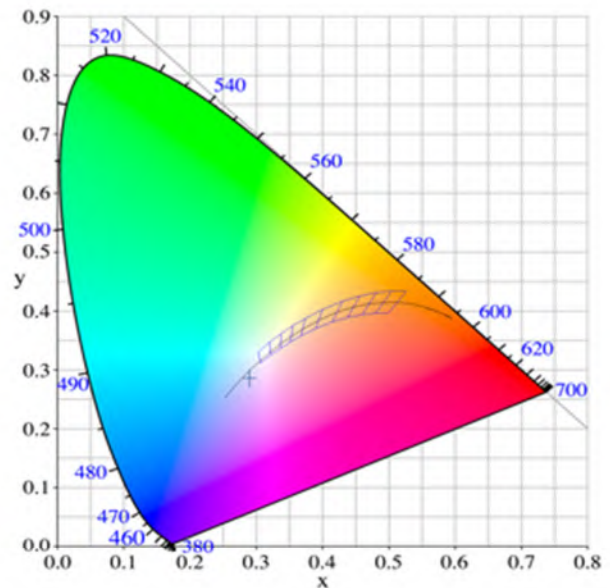
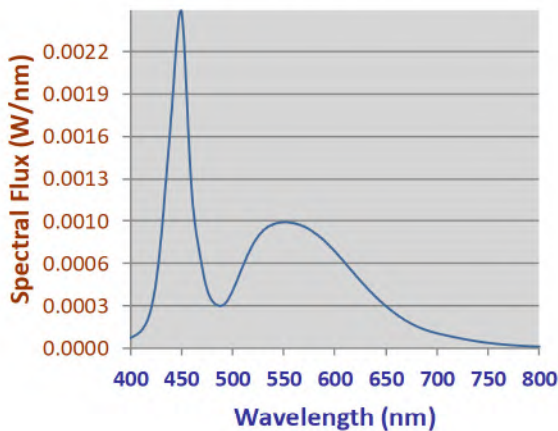
FL058 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL059				2/19/25	
Description	30 sec warmup			Test Time	3:30 PM
				Integration Time	11112.8
Orientation	Horizontal			Scans Averaged	3
Test by	DW			Saturation	73%
Notes	24.9C, 16%RH			Sphere Geometry	2pi
				Sphere Temp	24.36
Scan ID	Scan id 13135			Lumens	57.7
Scan Name	FL059				
Power	Battery Powered DUT, Power Not Monitored				

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9056		77.94		0.2903		0.2863		-0.0071		0.1984		0.4401	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81	79	73	82	81	70	83	76	15	45	82	49	79	84

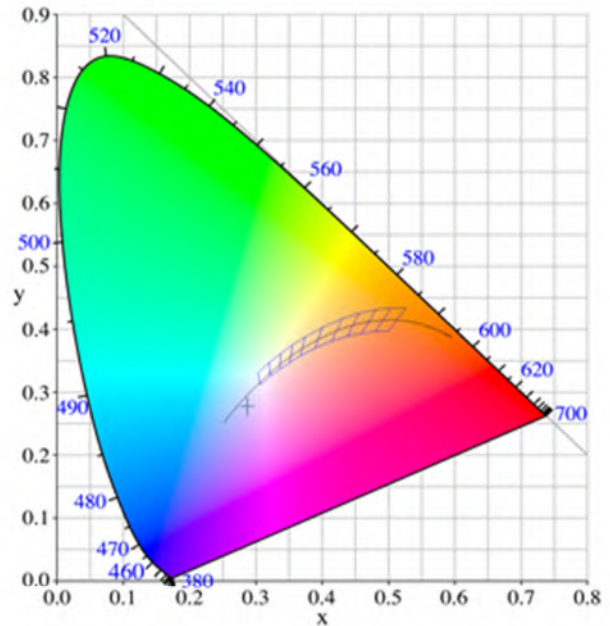
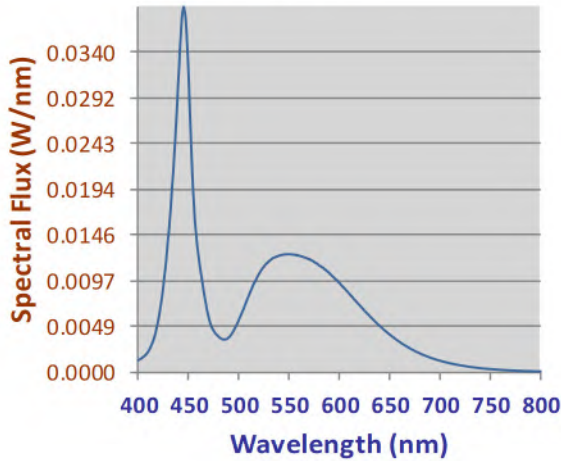
FL059 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL060		2/24/25	
Description	30 sec warmup	Test Time	10:41 AM
		Integration Time	784.4
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	76%
Notes	24.8C, 19%RH	Sphere Geometry	2pi
		Sphere Temp	24.17
Scan ID	Scan id 13148	Lumens	754.3
Scan Name	FL060		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9834		75.10		0.2873		0.2781		-0.0098		0.1994		0.4343	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81	75	65	80	81	66	78	75	17	36	83	48	77	80

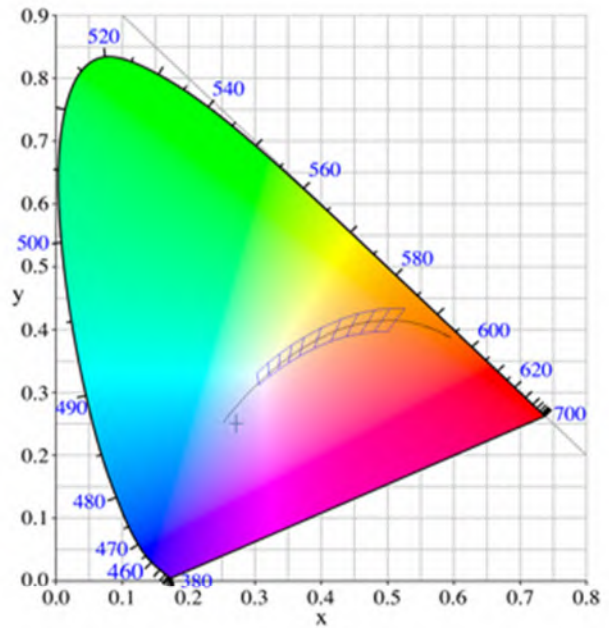
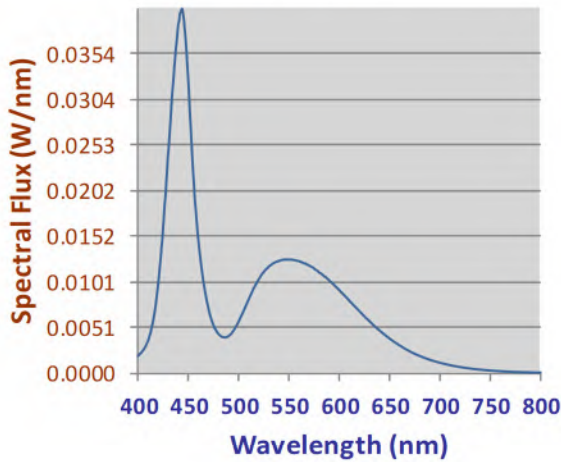
FL060 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL061		2/18/25	
Description	30 sec warmup	Test Time	8:53 AM
		Integration Time	789
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	25.6C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	24.92
Scan ID	Scan id 13108	Lumens	755.8
Scan Name	FL061		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
16361		74.10		0.2723		0.2513		-0.0148		0.1991		0.4134	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
84	72	57	80	84	63	75	78	34	28	87	50	77	75

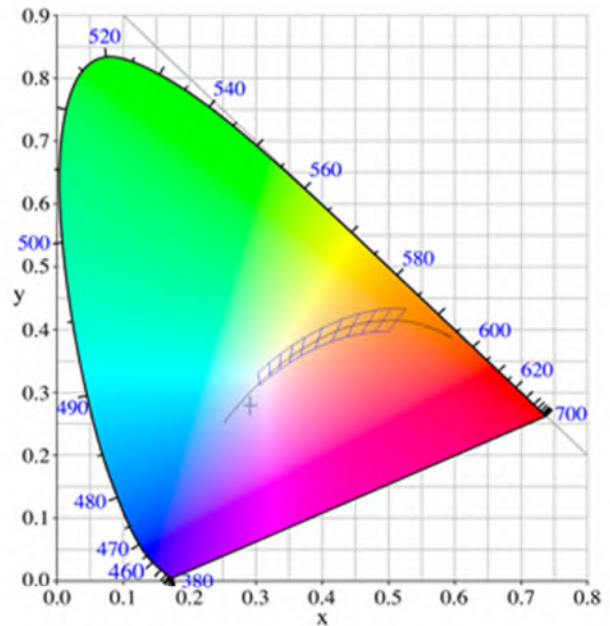
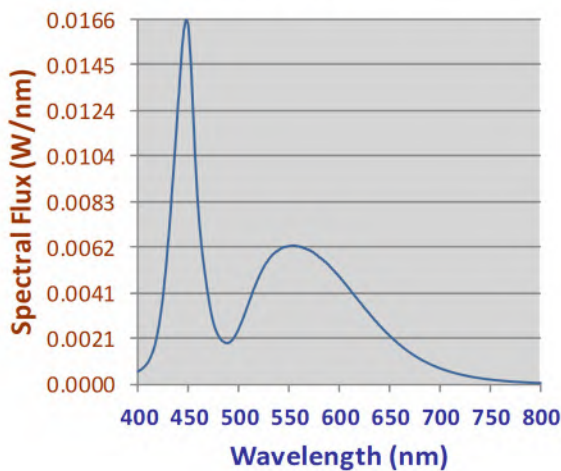
FL061 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL062		2/17/25	
Description	30 sec warmup	Test Time	2:31 PM
		Integration Time	1803.5
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	76%
Notes	25.0C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	24.54
Scan ID	Scan id 13101	Lumens	377.5
Scan Name	FL062		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9277		77.68		0.2913		0.2795		-0.0116		0.2019		0.4358	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
83	78	68	83	82	68	81	78	27	42	83	49	80	81

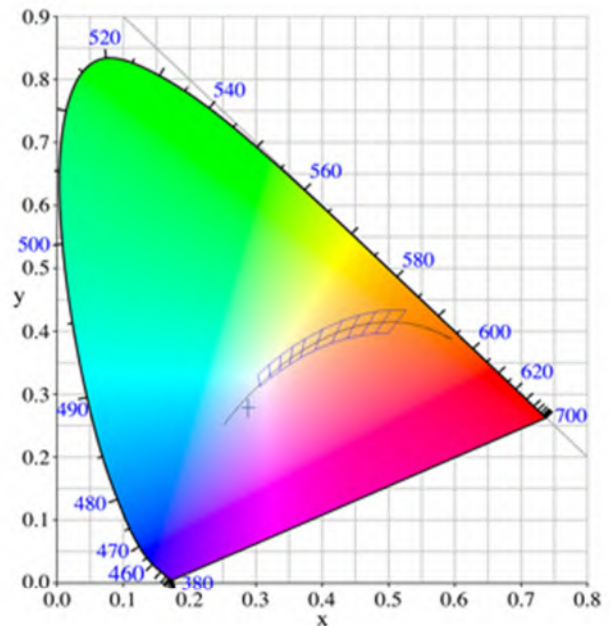
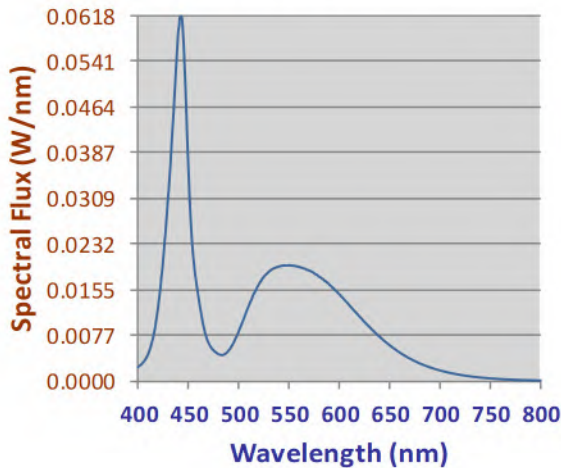
FL062 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL063		2/21/25	
Description	30 sec warmup	Test Time	1:40 PM
		Integration Time	541.2
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	81%
Notes	24.6C, 17%RH	Sphere Geometry	2pi
		Sphere Temp	24.05
Scan ID	Scan id 13139	Lumens	1170.2
Scan Name	FL063		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9662		71.72		0.2886		0.2783		-0.0105		0.2003		0.4347	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
79	71	60	75	80	63	73	72	11	27	82	49	74	77

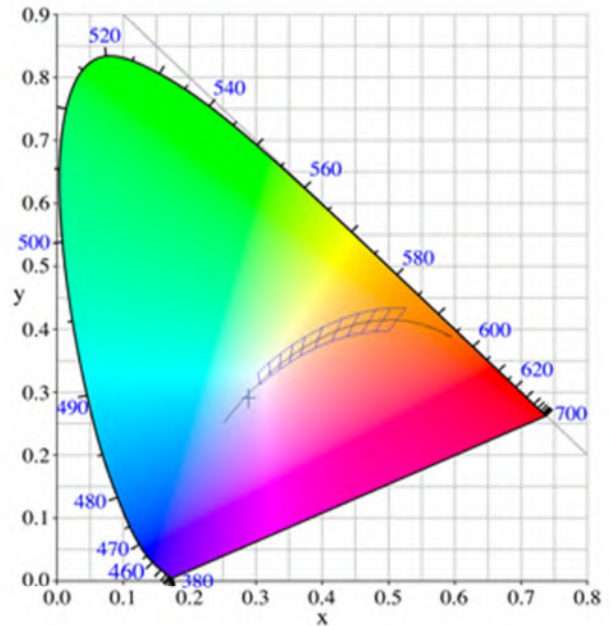
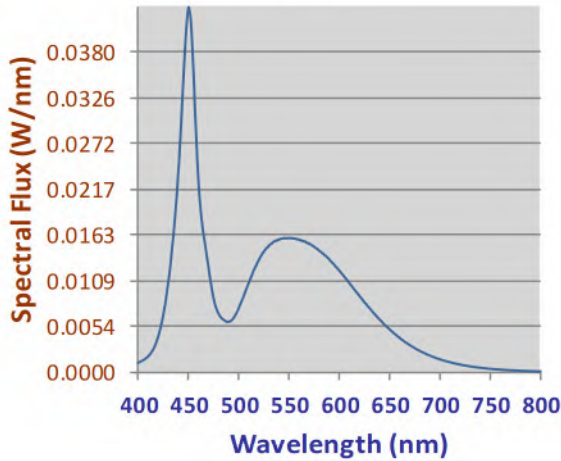
FL063 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL064		2/24/25	
Description	30 sec warmup	Test Time	11:19 AM
		Integration Time	702
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	24.8C, 19%RH	Sphere Geometry	2pi
		Sphere Temp	24.29
Scan ID	Scan id 13151	Lumens	969.0
Scan Name	FL064		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8948		78.77		0.2894		0.2911		-0.0039		0.1957		0.4430	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80	81	77	82	80	72	85	74	9	50	80	48	80	87

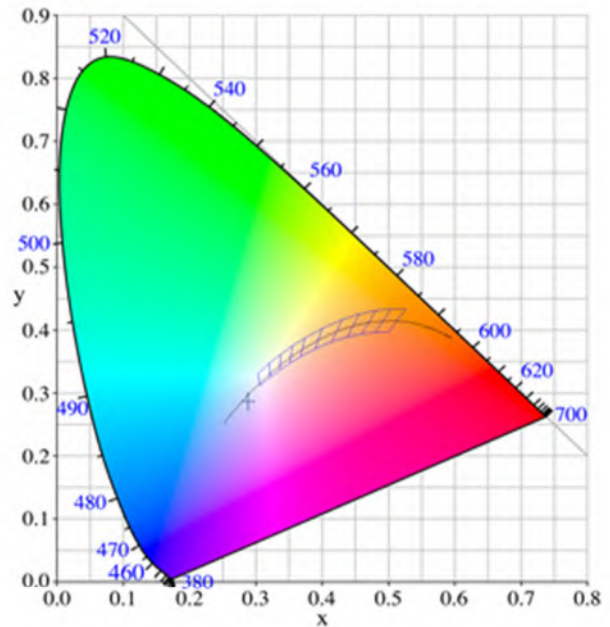
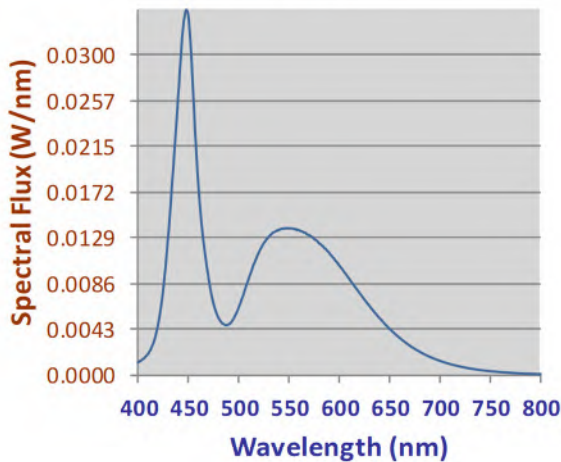
FL064 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL065		2/17/25	
Description	30 sec warmup	Test Time	11:34 AM
		Integration Time	914.4
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	80%
Notes	25.1C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	24.55
Scan ID	Scan id 13093	Lumens	829.3
Scan Name	FL065		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9287		77.20		0.2880		0.2865		-0.0056		0.1966		0.4399	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80	78	72	81	80	69	82	74	10	44	81	50	78	84

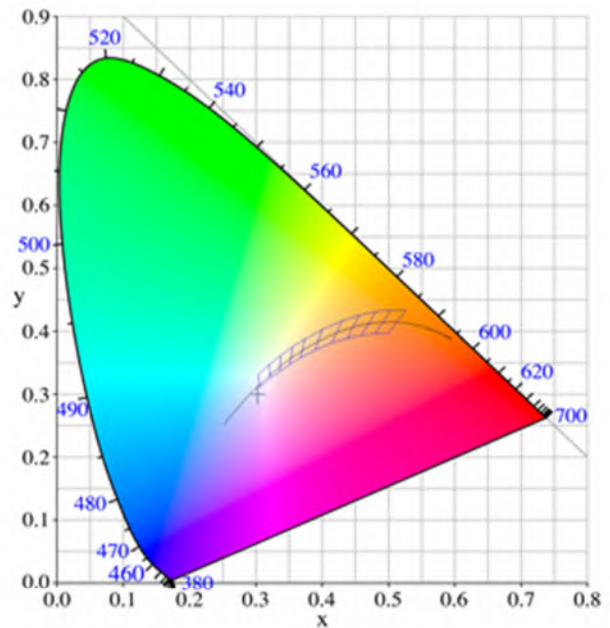
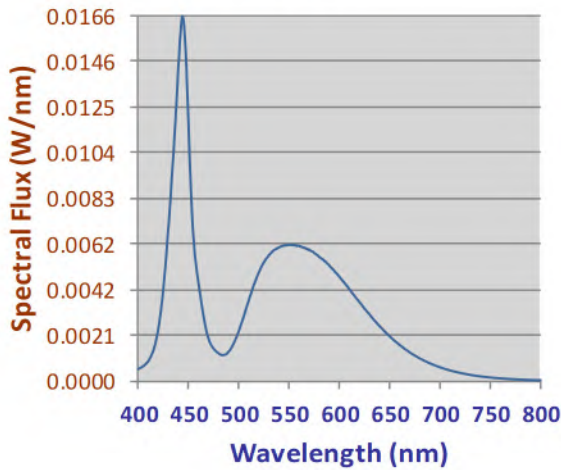
FL065 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL066		2/21/25	
Description	30 sec warmup	Test Time	12:06 PM
		Integration Time	1766.1
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	72%
Notes	24.4C, 17%RH	Sphere Geometry	2pi
		Sphere Temp	23.67
Scan ID	Scan id 13137	Lumens	367.6
Scan Name	FL066		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
7522		71.90		0.3028		0.2998		-0.0071		0.2022		0.4503	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
76	73	66	75	77	63	75	69	0	31	78	46	73	80

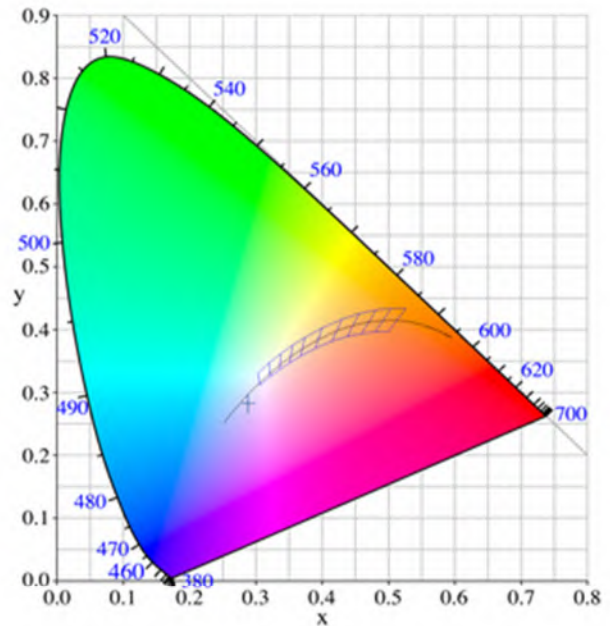
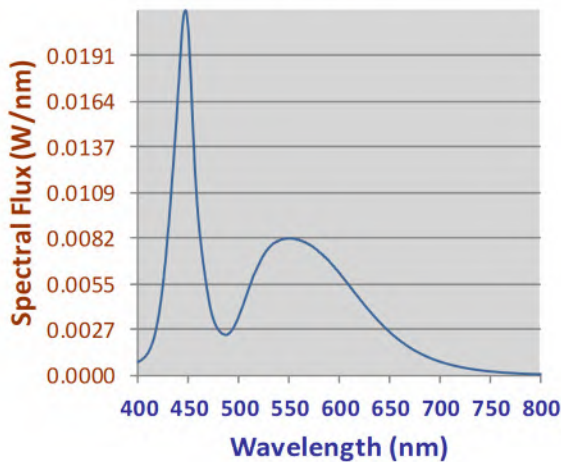
FL066 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL067		2/17/25	
Description	30 sec warmup	Test Time	11:43 AM
		Integration Time	1492.3
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	82%
Notes	25.1C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	24.55
Scan ID	Scan id 13095	Lumens	488.3
Scan Name	FL067		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9433		75.81		0.2885		0.2827		-0.0080		0.1984		0.4375	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80	76	68	80	80	67	80	75	12	39	81	48	77	82

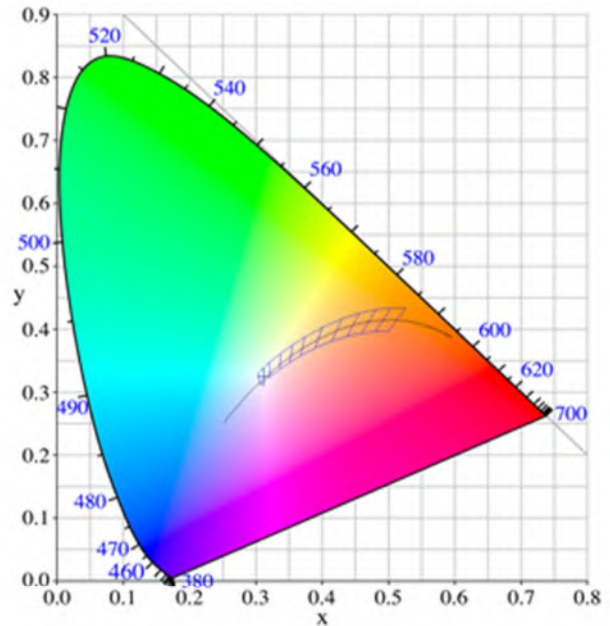
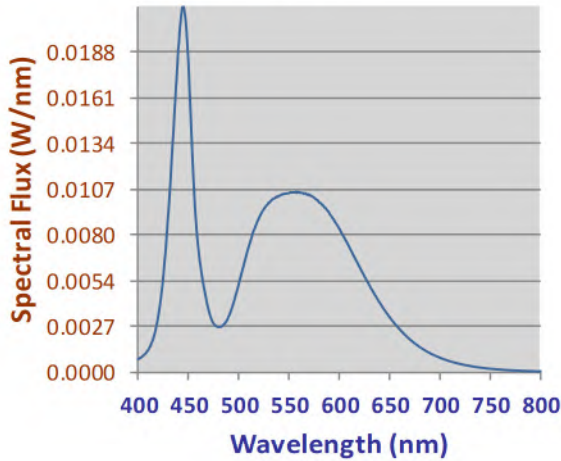
FL067 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL068		2/18/25	
Description	30 sec warmup	Test Time	9:17 AM
		Integration Time	1393.1
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	74%
Notes	25.5C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	24.95
Scan ID	Scan id 13110	Lumens	641.2
Scan Name	FL068		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
6581		72.51		0.3118		0.3253		0.0017		0.1986		0.4662	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
72	75	77	75	74	68	79	62	-25	40	75	50	71	87

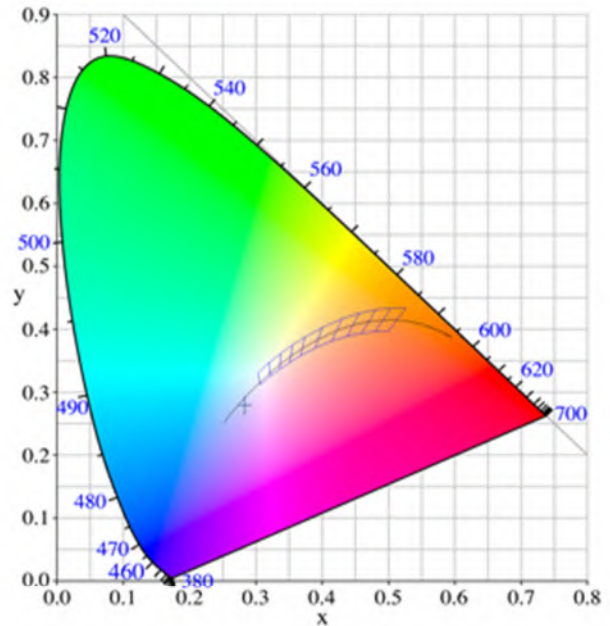
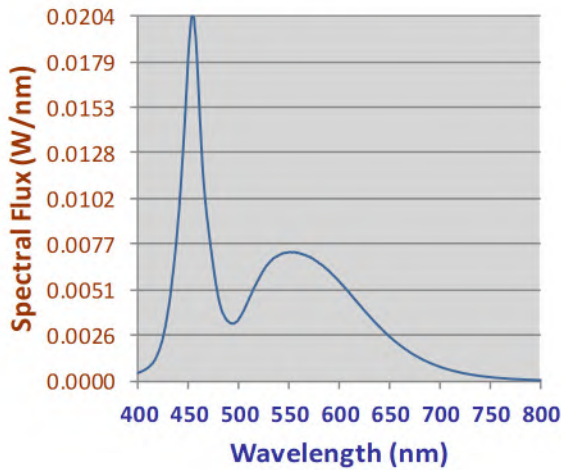
FL068 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL069		2/18/25	
Description	30 sec warmup	Test Time	10:55 AM
		Integration Time	1274.2
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	71%
Notes	25.4C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	24.62
Scan ID	Scan id 13112	Lumens	443.7
Scan Name	FL069		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
10174		82.92		0.2836		0.2798		-0.0065		0.1960		0.4349	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
84	87	82	83	82	76	90	79	30	63	79	50	86	90

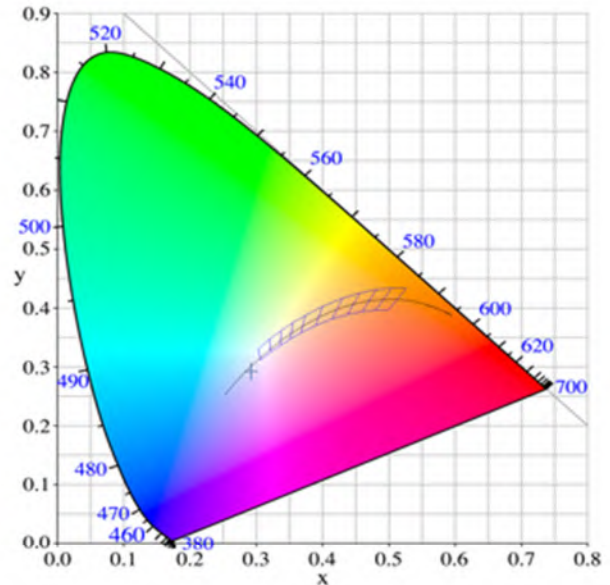
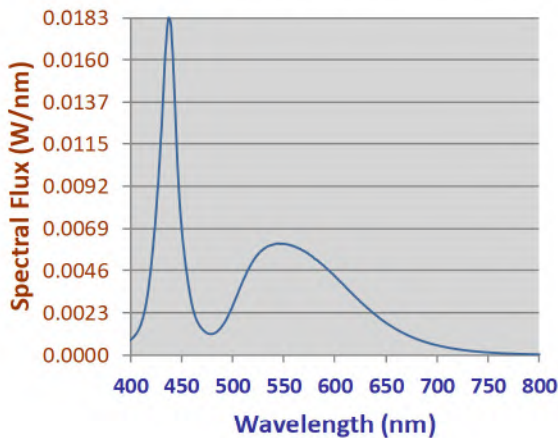
FL069 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL070		2/19/25	
Description	30 sec warmup	Test Time	9:45 AM
Orientation	Horizontal	Integration Time	1828.8
Test by	DW	Scans Averaged	3
Notes	25.6C, 16%RH	Saturation	77%
Scan ID	Scan id 13120	Sphere Geometry	2pi
Scan Name	FL070	Sphere Temp	25.02
Power	Battery Powered DUT, Power Not Monitored	Lumens	352.3

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8593		68.15		0.2927		0.2922		-0.0053		0.1977		0.4441	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
74	68	61	70	76	61	70	66	-9	22	78	48	69	78

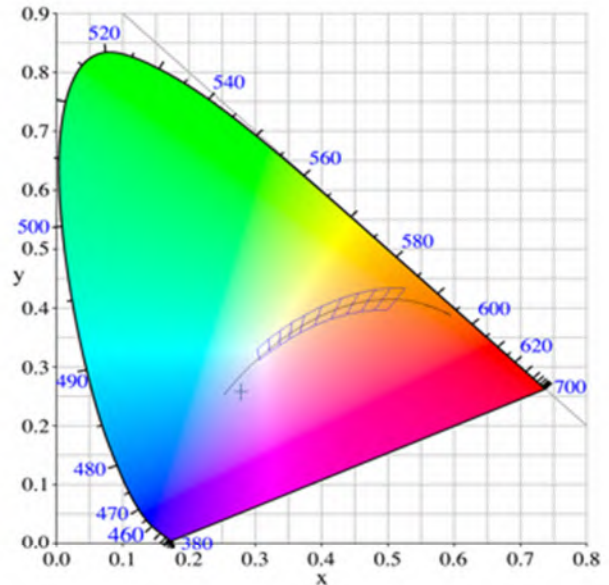
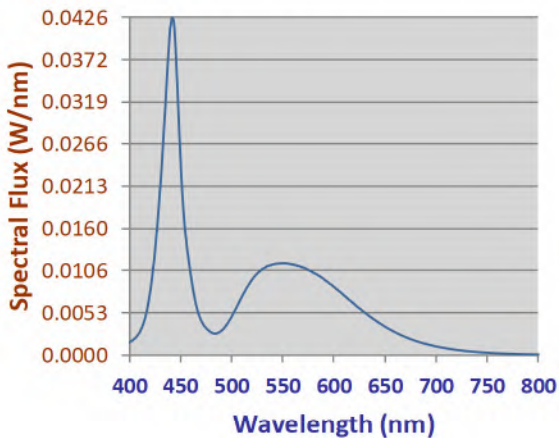
FL070 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL071		2/19/25	
Description	30 sec warmup	Test Time	2:48 PM
Orientation	Horizontal	Integration Time	789.4
Test by	DW	Scans Averaged	3
Notes	24.9C, 16%RH	Saturation	81%
Scan ID	Scan id 13132	Sphere Geometry	2pi
Scan Name	FL071	Sphere Temp	24.34
Power	Battery Powered DUT, Power Not Monitored	Lumens	689.4

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
13262		71.68		0.2786		0.2579		-0.0155		0.2012		0.4192	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
83	70	54	75	83	61	72	76	29	23	85	47	75	73

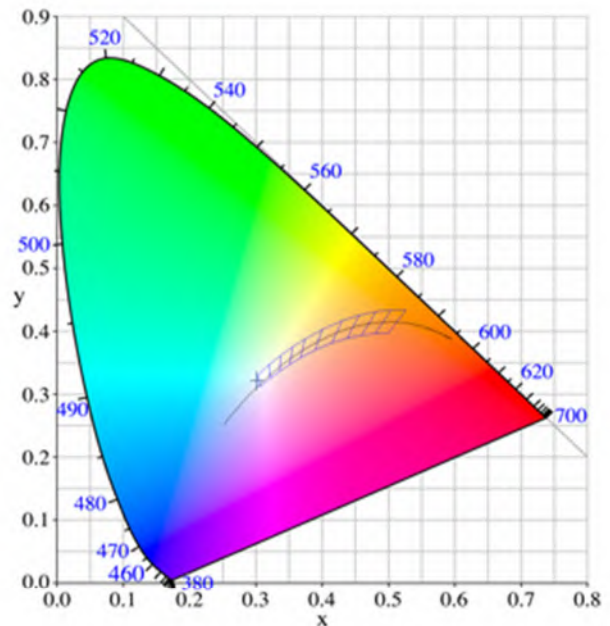
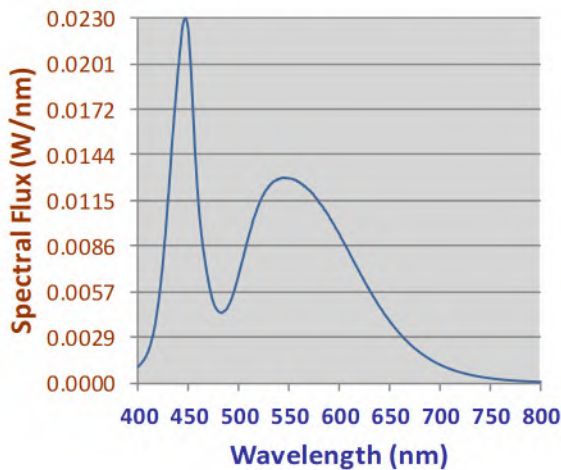
FL071 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL072		2/24/25	
Description	30 sec warmup	Test Time	1:56 PM
		Integration Time	1288.6
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	78%
Notes	25.2C, 19%RH	Sphere Geometry	2pi
		Sphere Temp	24.66
Scan ID	Scan id 13153	Lumens	770.9
Scan Name	FL072		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
7216		73.96		0.3018		0.3219		0.0052		0.1928		0.4628	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
72	76	79	76	74	70	81	64	-21	43	74	52	72	88

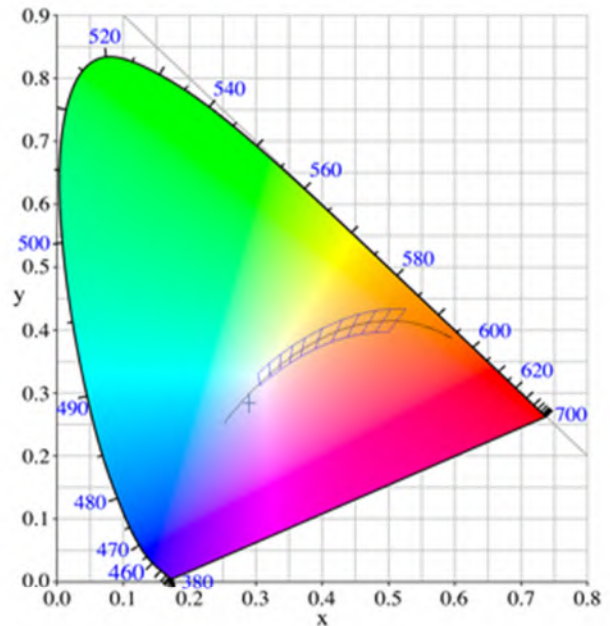
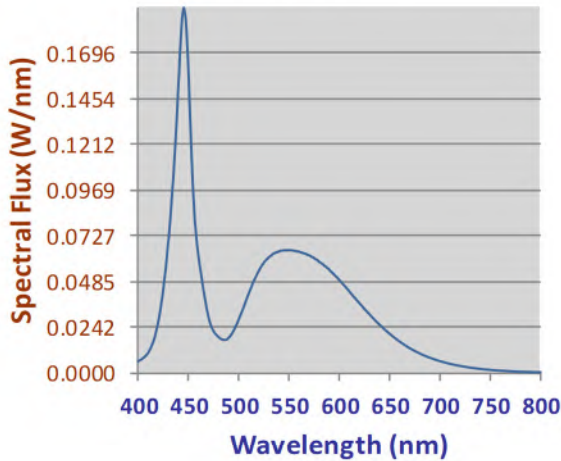
FL072 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL073		2/18/25	
Description	30 sec warmup	Test Time	3:49 PM
		Integration Time	159.1
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	24.6C, 17%RH	Sphere Geometry	2pi
		Sphere Temp	24.14
Scan ID	Scan id 13117	Lumens	3909.2
Scan Name	FL073		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9144		74.82		0.2904		0.2844		-0.0082		0.1992		0.4389	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80	75	67	79	80	66	78	74	11	36	82	48	76	81

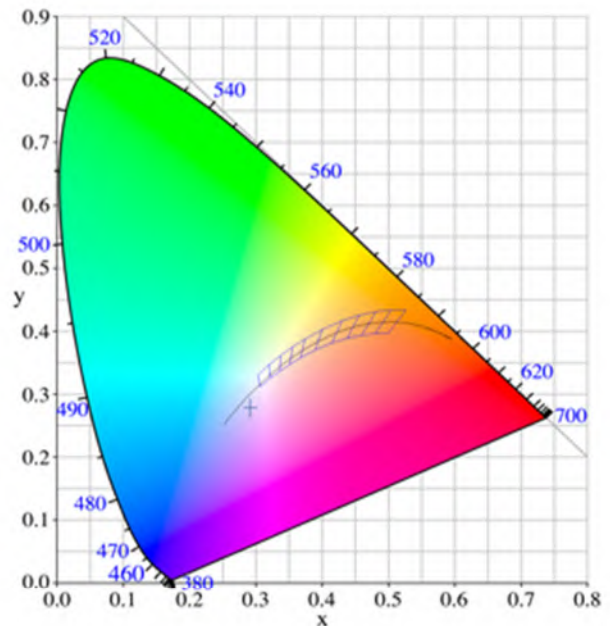
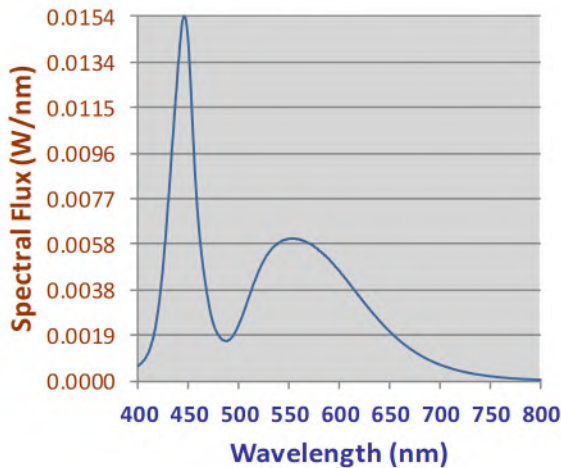
FL073 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL74		2/25/25	
Description	30 sec warmup	Test Time	9:49 AM
		Integration Time	1980.6
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	24.4C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	23.81
Scan ID	Scan id 13157	Lumens	358.9
Scan Name	FL074		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9273		76.34		0.2917		0.2787		-0.0123		0.2025		0.4354	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82	76	66	81	82	66	79	77	26	38	84	50	78	80

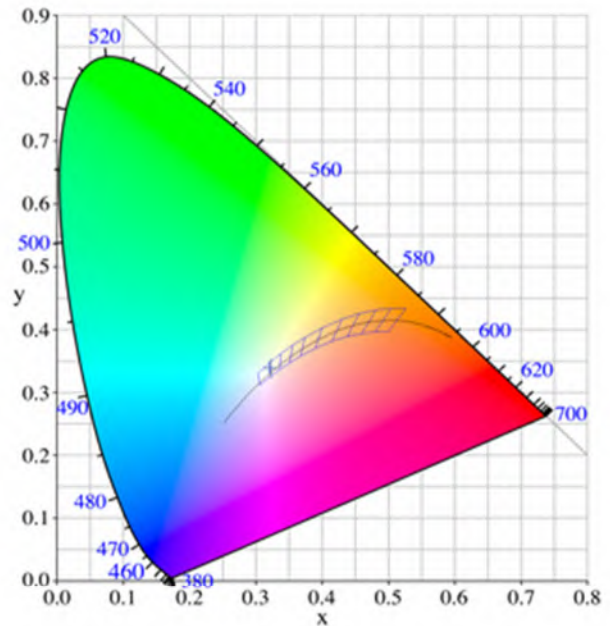
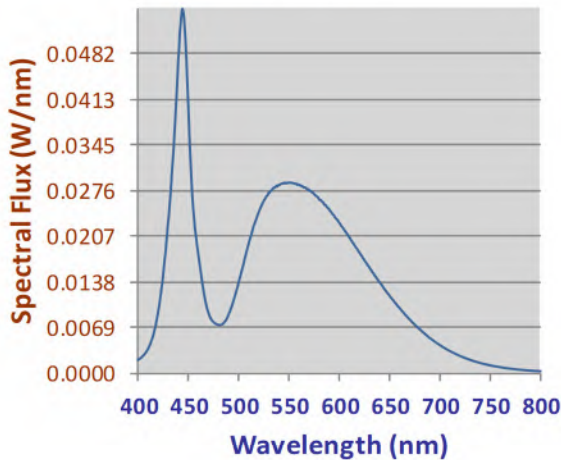
FL074 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL075		2/24/25	
Description	30 sec warmup	Test Time	1:35 PM
Orientation	Horizontal	Integration Time	571.9
Test by	DW	Scans Averaged	3
Notes	25.2C, 19%RH	Saturation	77%
Scan ID	Scan id 13152	Sphere Geometry	2pi
Scan Name	FL075	Sphere Temp	24.61
Power	Battery Powered DUT, Power Not Monitored	Lumens	1745.5

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
5950		74.28		0.3227		0.3387		0.0033		0.2011		0.4749	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
74	76	77	76	75	69	80	67	-5	43	76	52	73	87

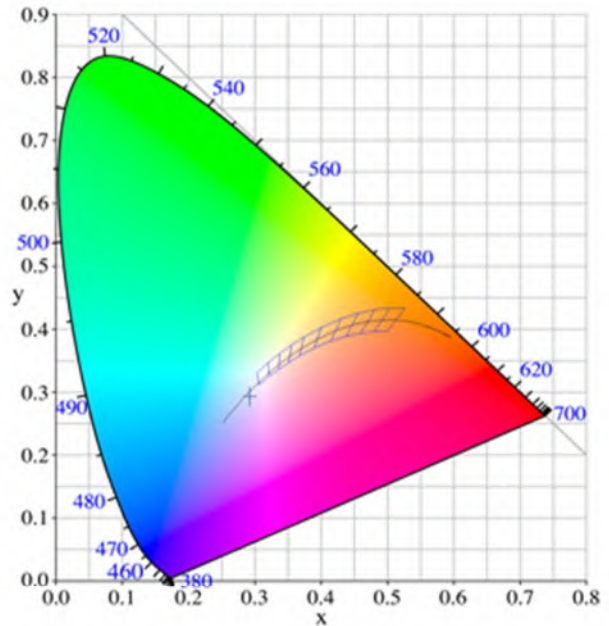
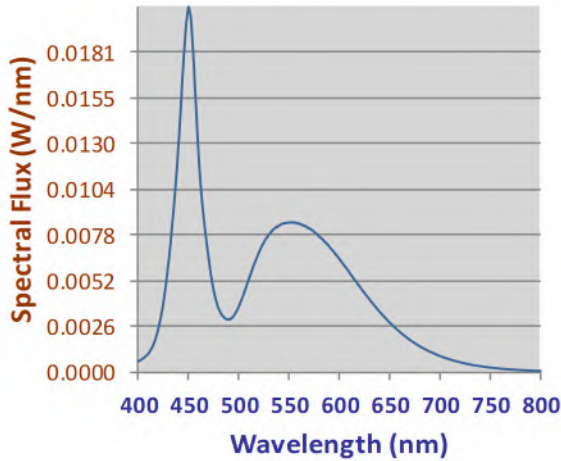
FL075 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL076		2/21/25	
Description	30 sec warmup	Test Time	2:06 PM
		Integration Time	1379.1
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	74%
Notes	24.6C, 17%RH	Sphere Geometry	2pi
		Sphere Temp	24.19
Scan ID	Scan id 13141	Lumens	510.4
Scan Name	FL076		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8556		78.51		0.2928		0.2930		-0.0049		0.1975		0.4446	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80	81	76	81	79	71	85	74	11	49	79	49	79	86

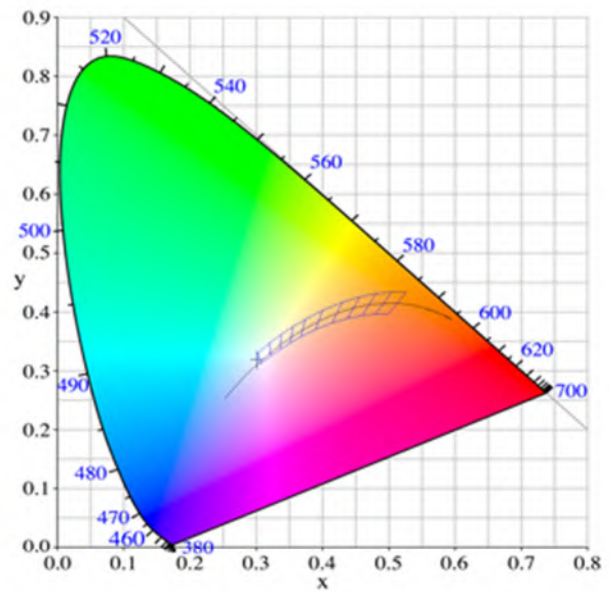
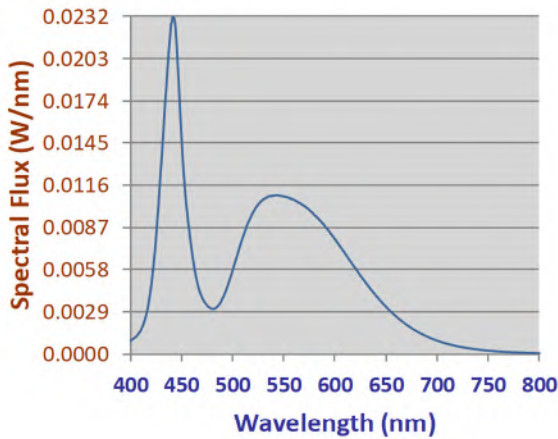
FL076 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL077		2/19/25	
Description	30 sec warmup	Test Time	2:25 PM
Orientation	Horizontal	Integration Time	1356.3
Test by	DW	Scans Averaged	3
Notes	24.9C, 16%RH	Saturation	75%
Scan ID	Scan id 13130	Sphere Geometry	2pi
Scan Name	FL077	Sphere Temp	24.28
Power	Battery Powered DUT, Power Not Monitored	Lumens	648.0

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
7285		72.02		0.3013		0.3191		0.0040		0.1936		0.4612	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
72	73	75	74	74	67	78	64	-22	37	75	52	70	86

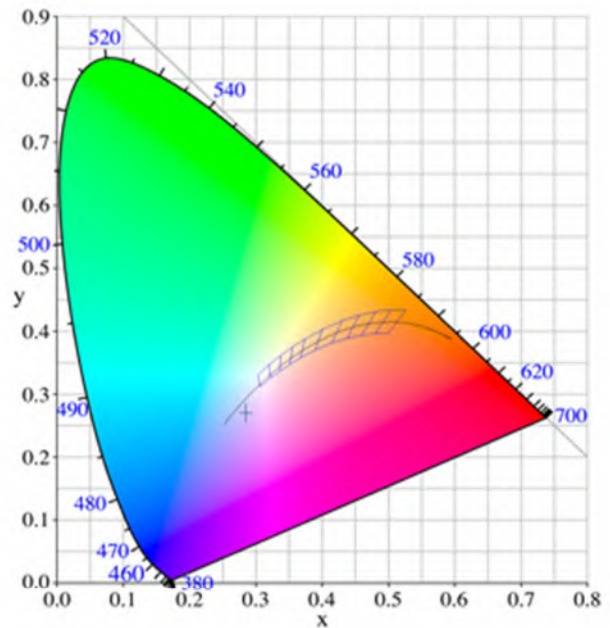
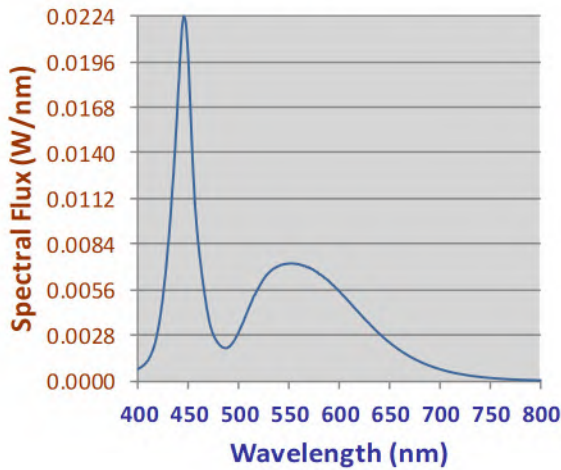
FL077 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL078		2/21/25	
Description	30 sec warmup	Test Time	1:58 PM
		Integration Time	1379.1
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	24.6C, 17%RH	Sphere Geometry	2pi
		Sphere Temp	24.15
Scan ID	Scan id 13140	Lumens	434.4
Scan Name	FL078		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
10684		76.08		0.2850		0.2704		-0.0126		0.2008		0.4289	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
83	76	64	82	82	65	79	78	27	36	85	48	79	79

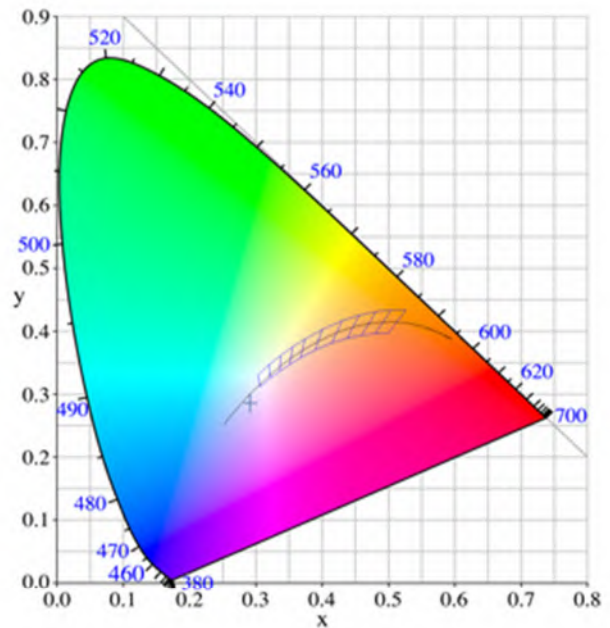
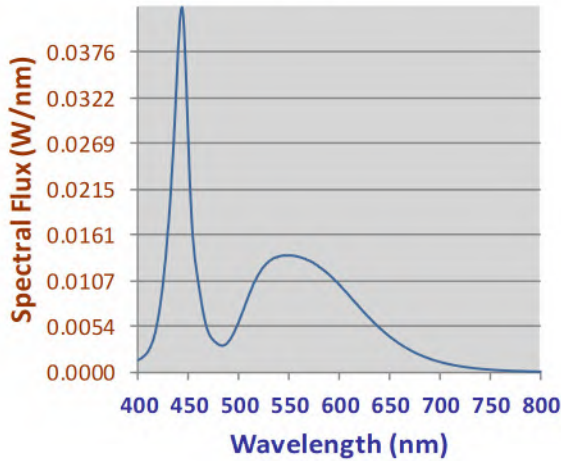
FL078 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL079		2/24/25	
Description	30 sec warmup	Test Time	10:53 AM
		Integration Time	784.4
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	81%
Notes	24.8C, 19%RH	Sphere Geometry	2pi
		Sphere Temp	24.23
Scan ID	Scan id 13149	Lumens	819.4
Scan Name	FL079		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8948		72.24		0.2914		0.2862		-0.0078		0.1992		0.4402	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
78	72	64	76	79	64	75	71	4	30	80	48	74	79

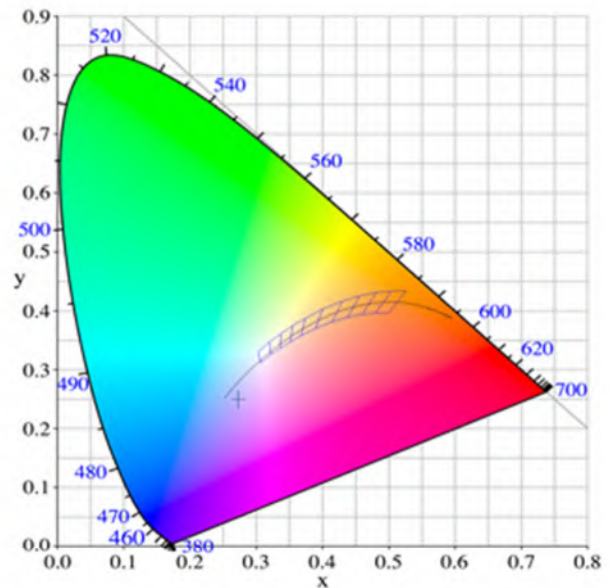
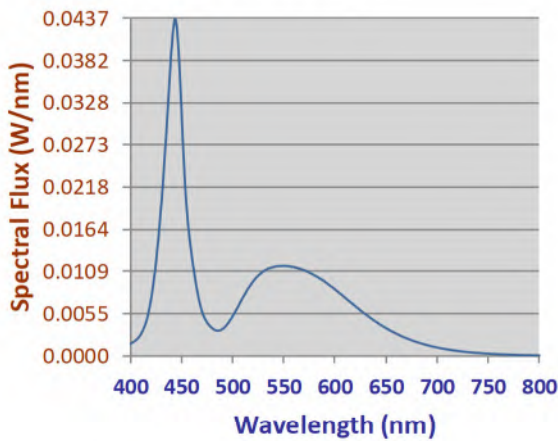
FL079 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL080		2/19/25	
Description	30 sec warmup	Test Time	12:21 PM
Orientation	Horizontal	Integration Time	740.5
Test by	DW	Scans Averaged	3
Notes	25.2C, 16%RH	Saturation	79%
Scan ID	Scan id 13129	Sphere Geometry	2pi
Scan Name	FL080	Sphere Temp	24.62
Power	Battery Powered DUT, Power Not Monitored	Lumens	698.1

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
16514		73.62		0.2728		0.2501		-0.0160		0.2000		0.4126	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
84	72	55	79	84	62	75	79	36	26	87	47	77	74

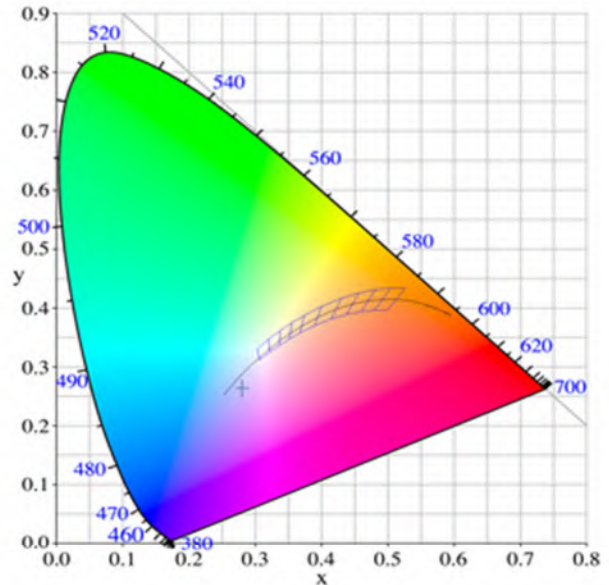
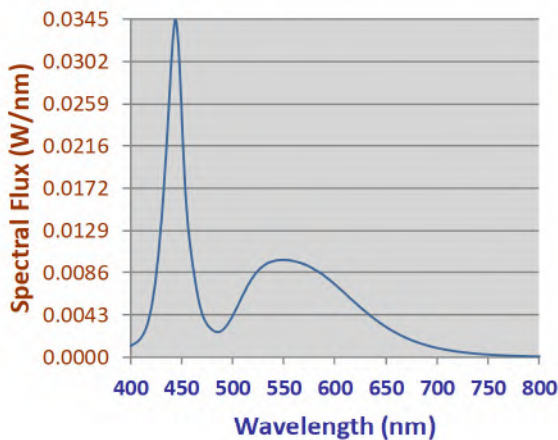
FL080 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL081		2/19/25	
Description	30 sec warmup	Test Time	12:06 PM
		Integration Time	901.9
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	76%
Notes	25.2C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	24.67
Scan ID	Scan id 13128	Lumens	594.0
Scan Name	FL081		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
12038		73.90		0.2805		0.2641		-0.0133		0.2001		0.4238	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82	73	59	79	82	63	76	77	25	30	85	47	77	76

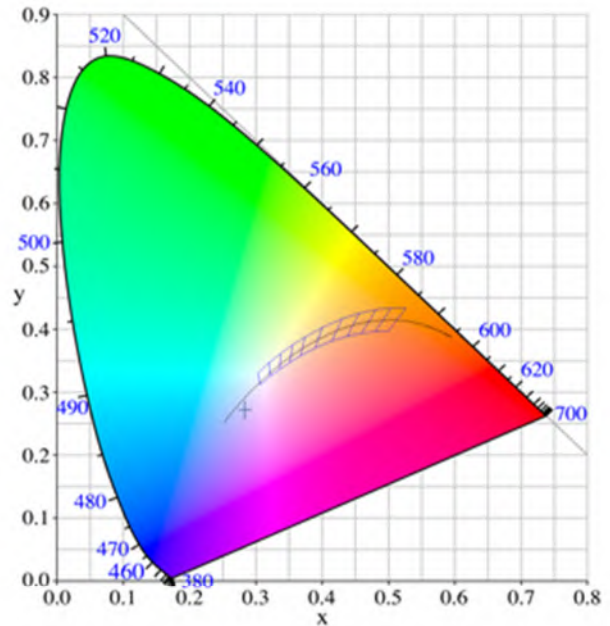
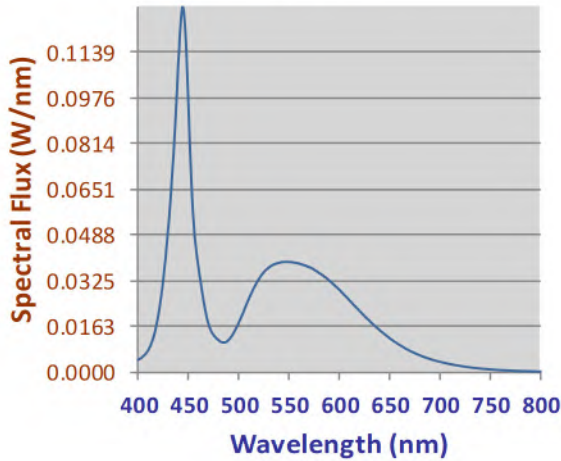
FL081 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL082		2/24/25	
Description	30 sec warmup	Test Time	10:27 AM
		Integration Time	241.9
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	24.7C, 17%RH	Sphere Geometry	2pi
		Sphere Temp	24.14
Scan ID	Scan id 13147	Lumens	2359.0
Scan Name	FL082		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
10750		74.06		0.2834		0.2723		-0.0106		0.1989		0.4299	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81	73	63	78	82	64	76	75	17	32	84	48	76	78

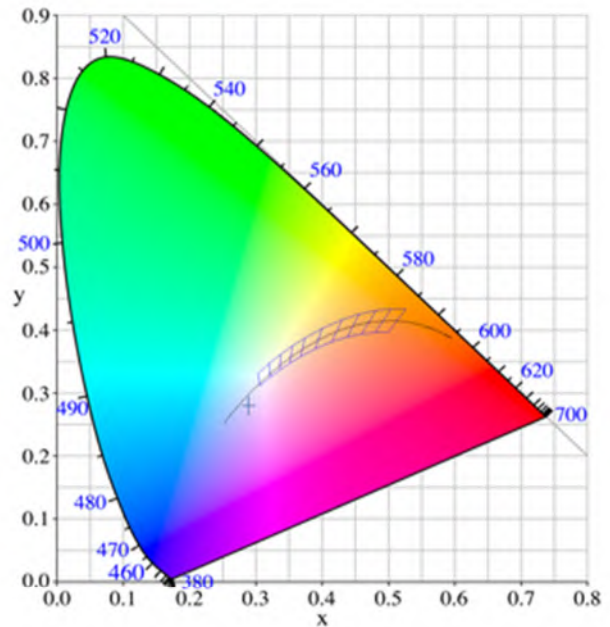
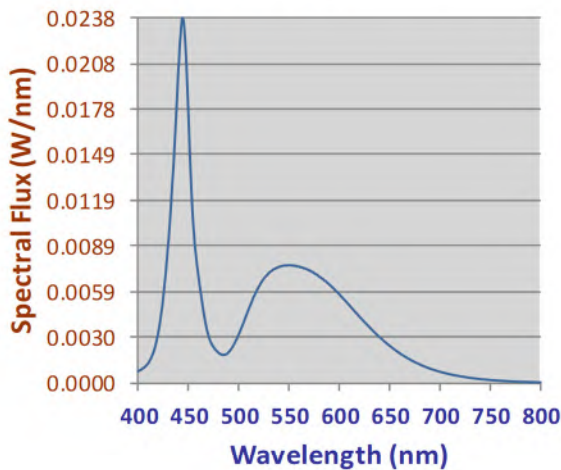
FL082 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL083		2/17/25	
Description	30 sec warmup	Test Time	11:47 AM
		Integration Time	1326.9
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	25.1C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	24.54
Scan ID	Scan id 13096	Lumens	457.1
Scan Name	FL083		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9431		73.59		0.2896		0.2803		-0.0100		0.2002		0.4361	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80	73	64	78	80	64	76	74	13	32	82	47	76	79

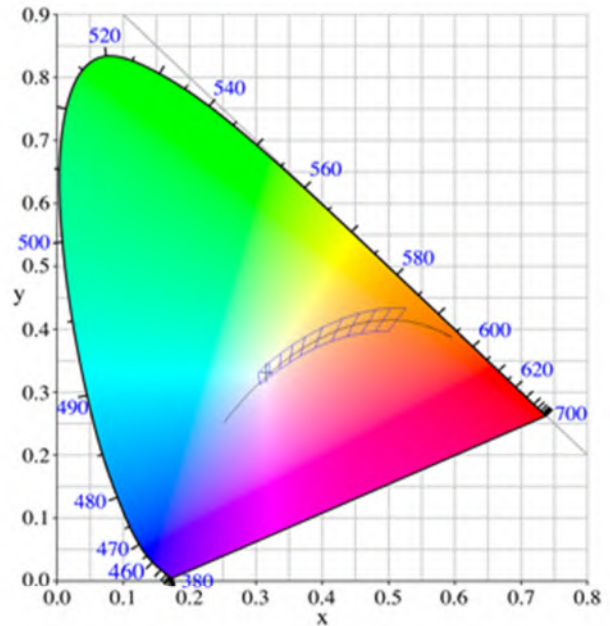
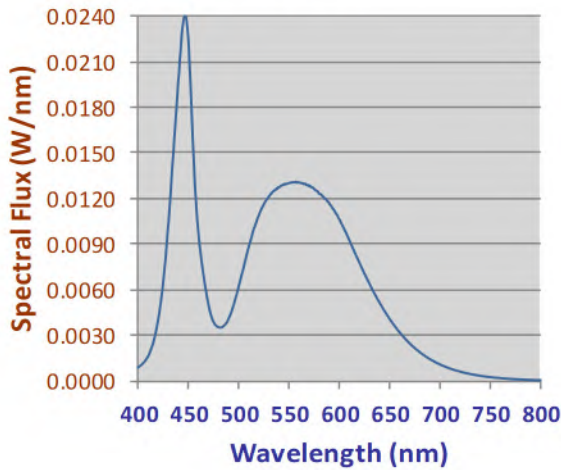
FL083 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL084		2/18/25	
Description	30 sec warmup	Test Time	8:24 AM
		Integration Time	1244.7
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	25.4C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	24.89
Scan ID	Scan id 13105	Lumens	794.5
Scan Name	FL084		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
6288		73.03		0.3165		0.3315		0.0026		0.1995		0.4702	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
72	76	79	75	73	69	80	61	-26	42	74	50	71	88

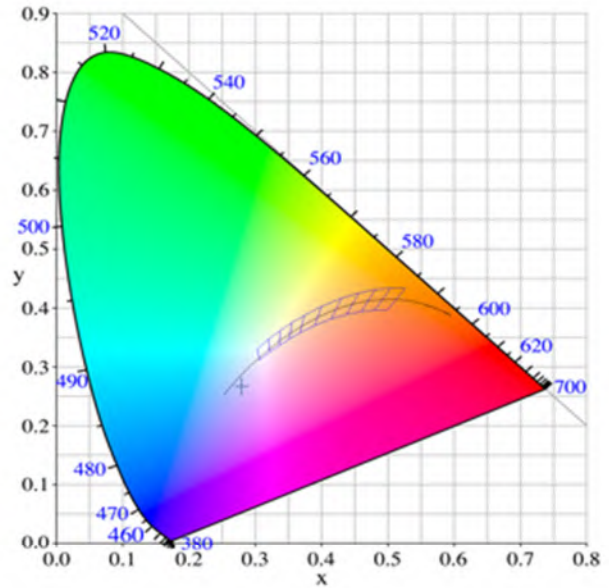
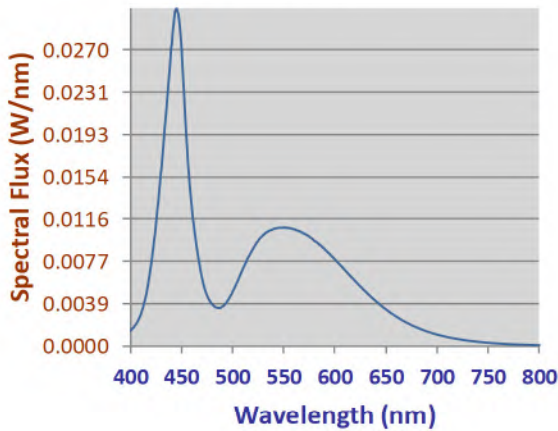
FL084 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL085		2/19/25	
Description	30 sec warmup	Test Time	2:31 PM
Orientation	Horizontal	Integration Time	986.7
Test by	DW	Scans Averaged	3
Notes	24.9C, 16%RH	Saturation	75%
Scan ID	Scan id 13131	Sphere Geometry	2pi
Scan Name	FL085	Sphere Temp	24.29
Power	Battery Powered DUT, Power Not Monitored	Lumens	645.0

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
11940		75.49		0.2792		0.2668		-0.0109		0.1979		0.4255	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82	75	64	81	82	66	78	77	22	34	85	50	78	79

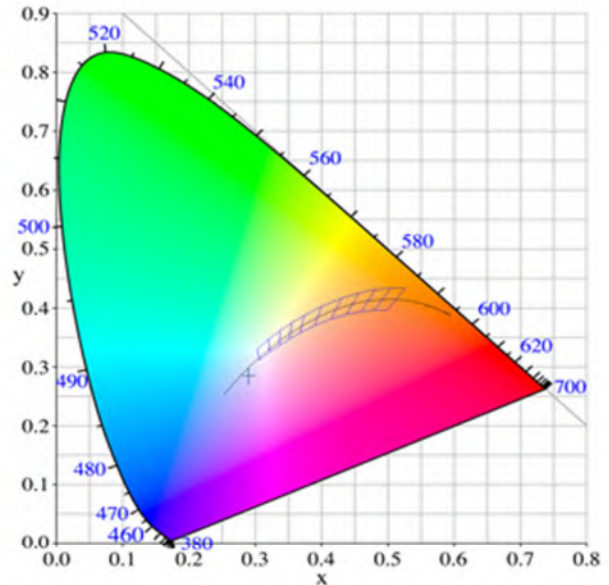
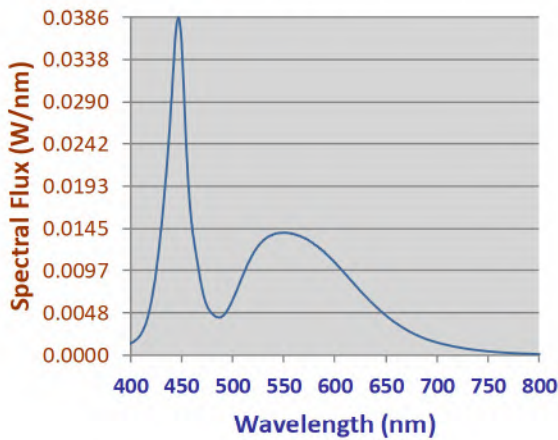
FL085 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL086				2/19/25	
Description	30 sec warmup			Test Time	9:23 AM
				Integration Time	791
Orientation	Horizontal			Scans Averaged	3
Test by	DW			Saturation	77%
Notes	25.6C, 16%RH			Sphere Geometry	2pi
				Sphere Temp	24.86
Scan ID	Scan id 13119			Lumens	841.8
Scan Name	FL086				
Power	Battery Powered DUT, Power Not Monitored				

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9175		76.25		0.2898		0.2851		-0.0075		0.1984		0.4392	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80	77	70	81	80	68	80	75	13	40	82	49	78	82

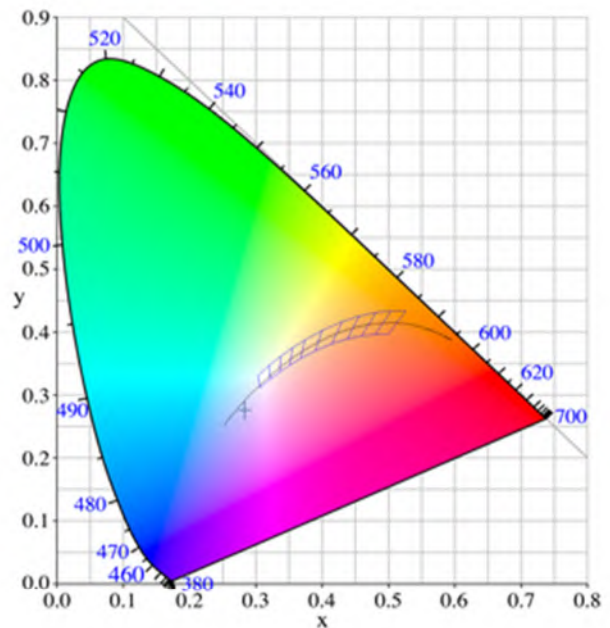
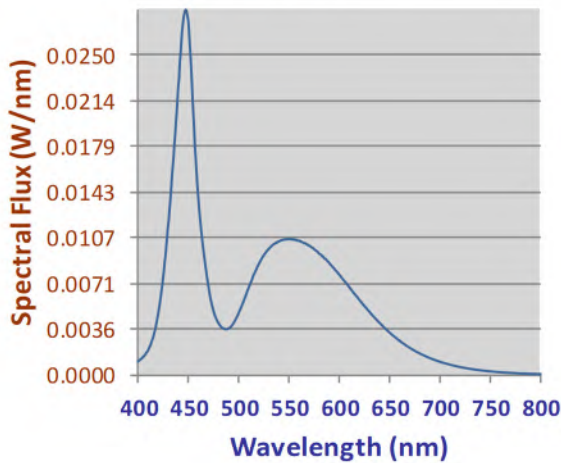
FL086 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL087		2/17/25	
Description	30 sec warmup	Test Time	2:39 PM
		Integration Time	1043.7
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	76%
Notes	25.0C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	24.54
Scan ID	Scan id 13102	Lumens	636.0
Scan Name	FL087		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
10444		76.92		0.2835		0.2762		-0.0084		0.1973		0.4325	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81	77	69	82	81	68	81	76	17	41	83	50	78	82

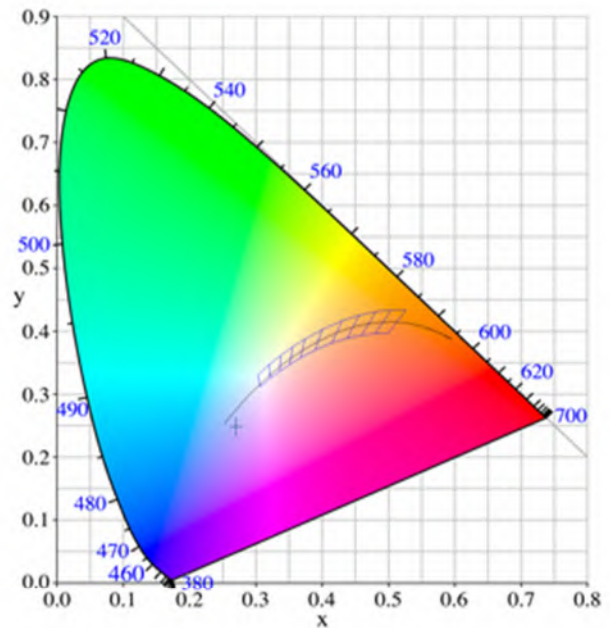
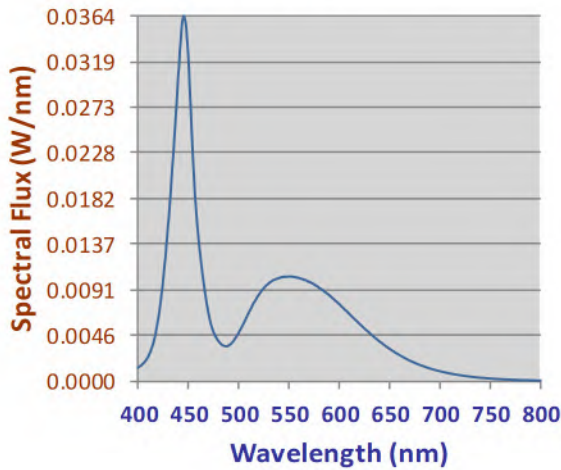
FL087 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL088		2/17/25	
Description	30 sec warmup	Test Time	11:52 AM
		Integration Time	849.2
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	25.1C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	24.55
Scan ID	Scan id 13097	Lumens	628.7
Scan Name	FL088		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
17818		76.05		0.2703		0.2489		-0.0148		0.1985		0.4113	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
84	74	59	83	84	64	78	81	38	32	88	48	79	76

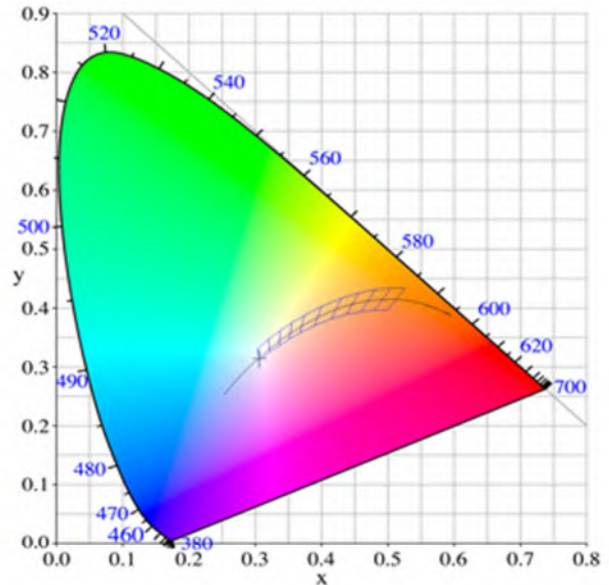
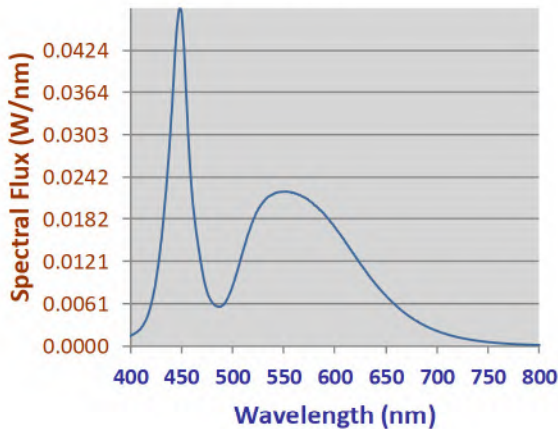
FL088 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL089				2/19/25	
Description	30 sec warmup			Test Time	10:00 AM
				Integration Time	645.8
Orientation	Horizontal			Scans Averaged	3
Test by	DW			Saturation	80%
Notes	25.6C, 16%RH			Sphere Geometry	2pi
				Sphere Temp	25
Scan ID	Scan id 13122			Lumens	1320.1
Scan Name	FL089				
Power	Battery Powered DUT, Power Not Monitored				

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
7021		74.29		0.3065		0.3144		-0.0012		0.1990		0.4593	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
74	77	75	77	75	68	81	67	-10	41	75	45	74	86

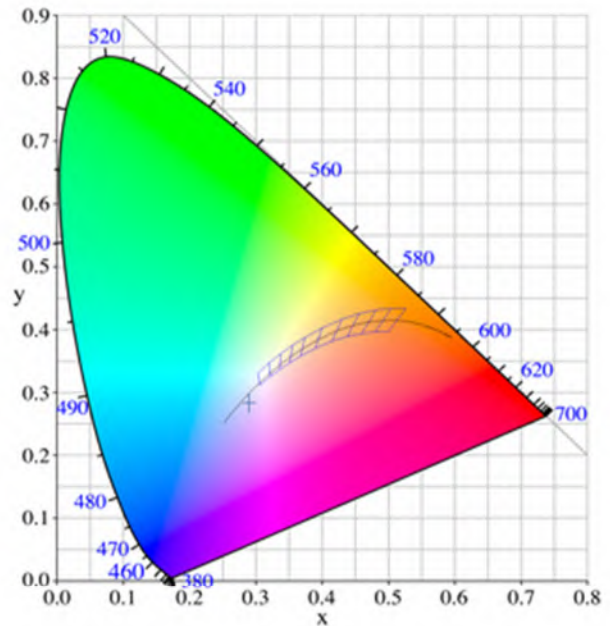
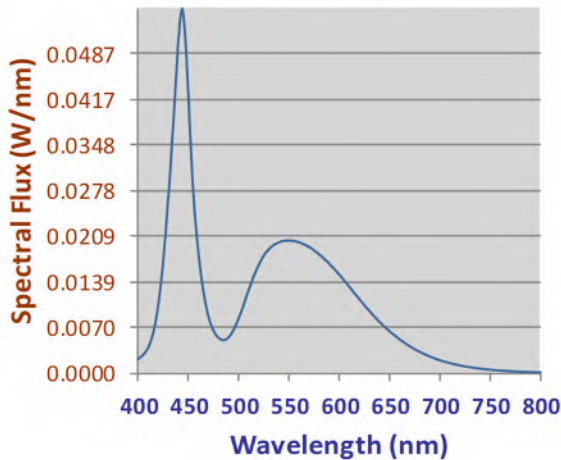
FL089 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL090		2/18/25	
Description	30 sec warmup	Test Time	8:34 AM
		Integration Time	566.6
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	76%
Notes	25.3C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	24.88
Scan ID	Scan id 13106	Lumens	1199.0
Scan Name	FL090		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9193		73.43		0.2903		0.2835		-0.0087		0.1995		0.4383	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
79	73	65	77	80	65	76	73	10	32	81	48	75	79

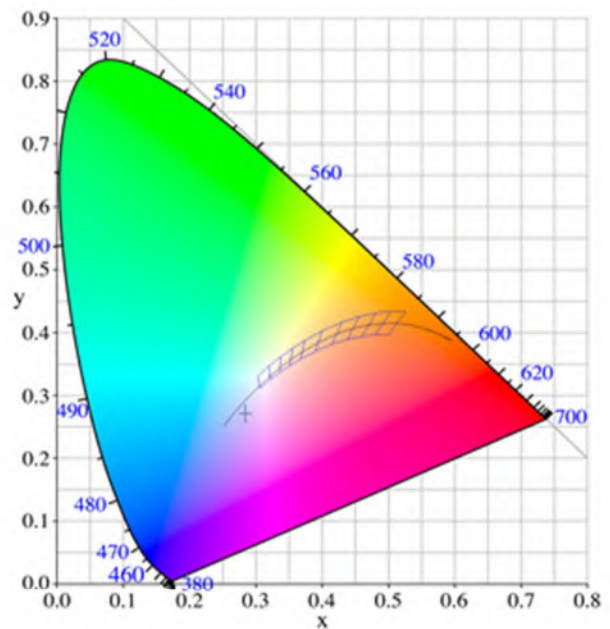
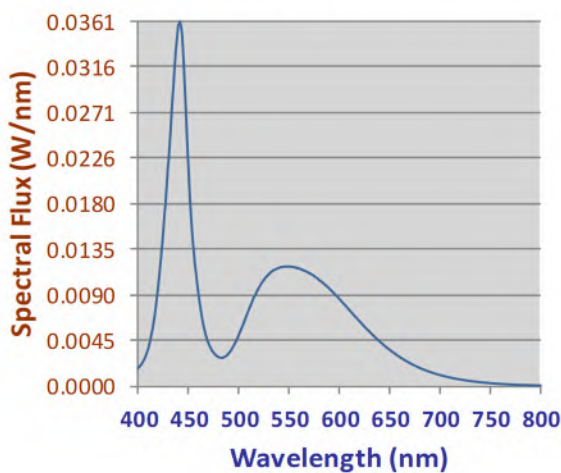
FL090 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL091		2/17/25	
Description	30 sec warmup	Test Time	11:56 AM
		Integration Time	920.5
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	25.1C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	24.55
Scan ID	Scan id 13098	Lumens	698.9
Scan Name	FL091		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
10700		71.26		0.2843		0.2715		-0.0116		0.1998		0.4295	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80	70	58	74	81	62	72	73	15	24	83	49	74	76

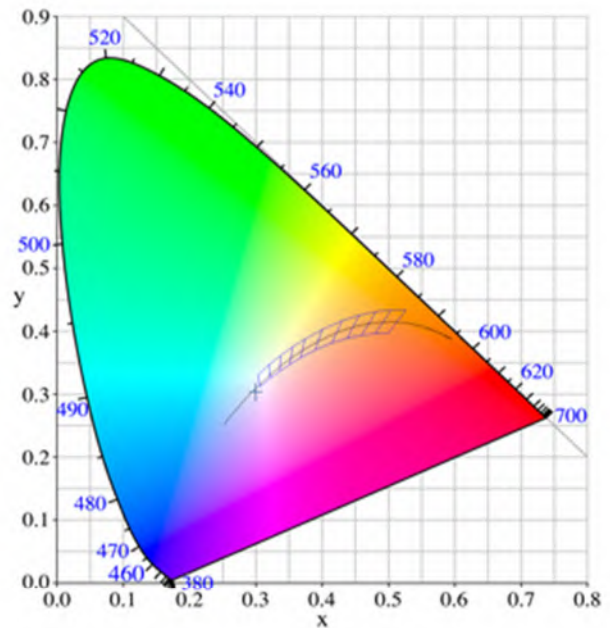
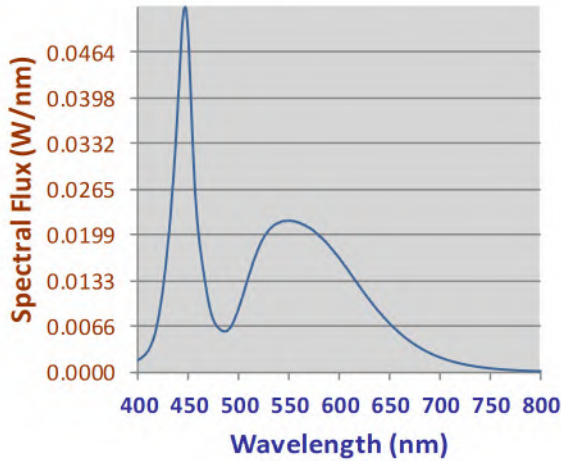
FL091 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL092		2/25/25	
Description	30 sec warmup	Test Time	9:43 AM
		Integration Time	577.1
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	24.3C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	23.8
Scan ID	Scan id 13156	Lumens	1309.0
Scan Name	FL092		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
7686		74.32		0.2996		0.3036		-0.0032		0.1983		0.4521	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
76	76	72	77	77	67	80	70	-3	39	78	48	74	84

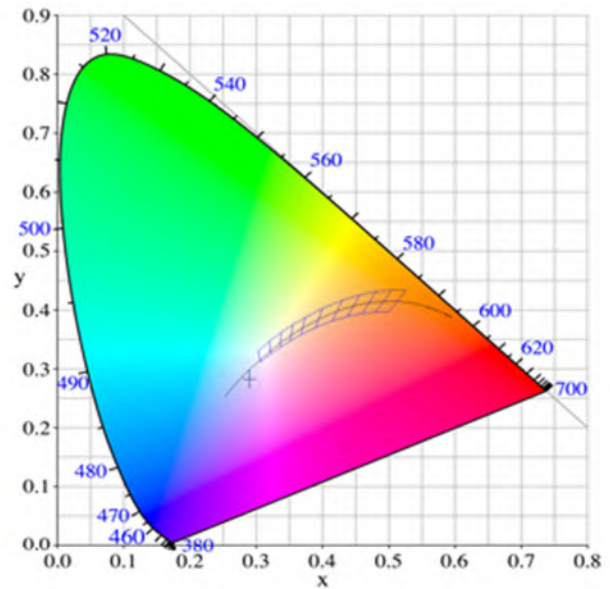
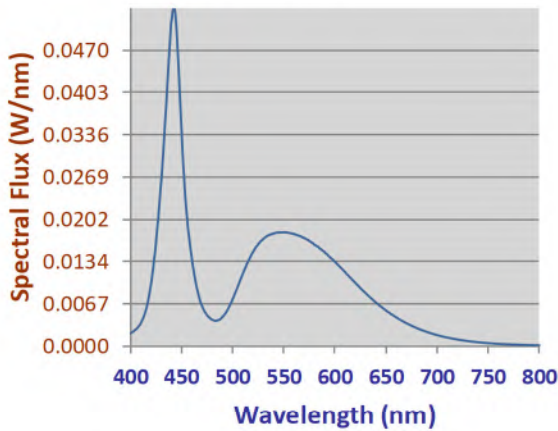
FL092 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL093				2/19/25	
Description	30 sec warmup			Test Time	10:05 AM
				Integration Time	584.4
Orientation	Horizontal			Scans Averaged	3
Test by	DW			Saturation	76%
Notes	25.6C, 16%RH			Sphere Geometry	2pi
				Sphere Temp	24.98
Scan ID	Scan id 13123			Lumens	1071.3
Scan Name	FL093				
Power	Battery Powered DUT, Power Not Monitored				

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9275		72.00		0.2901		0.2823		-0.0092		0.1998		0.4375	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
79	72	62	75	79	63	74	72	9	28	81	48	74	78

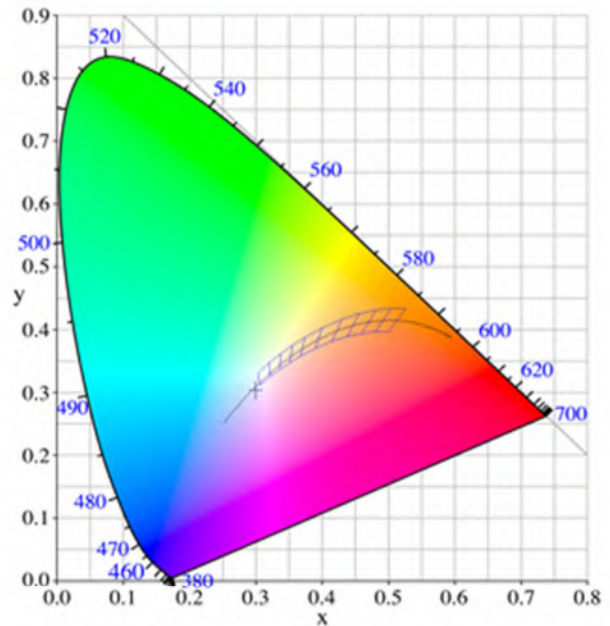
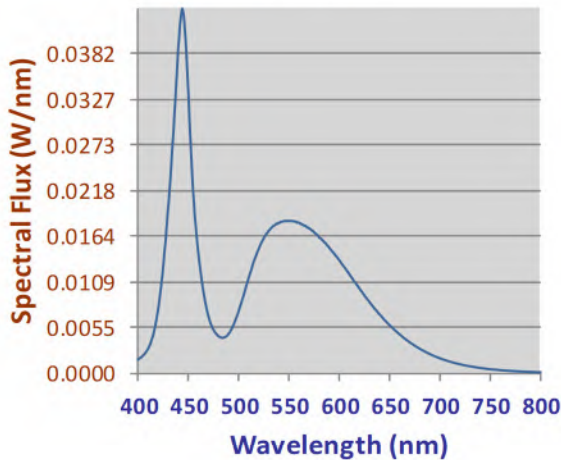
FL093 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL094		2/18/25	
Description	30 sec warmup	Test Time	11:09 AM
		Integration Time	701.3
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	74%
Notes	25.4C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	24.62
Scan ID	Scan id 13114	Lumens	1073.0
Scan Name	FL094		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
7647		72.22		0.3002		0.3036		-0.0035		0.1987		0.4522	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
75	73	69	75	76	65	77	68	-7	34	77	47	72	82

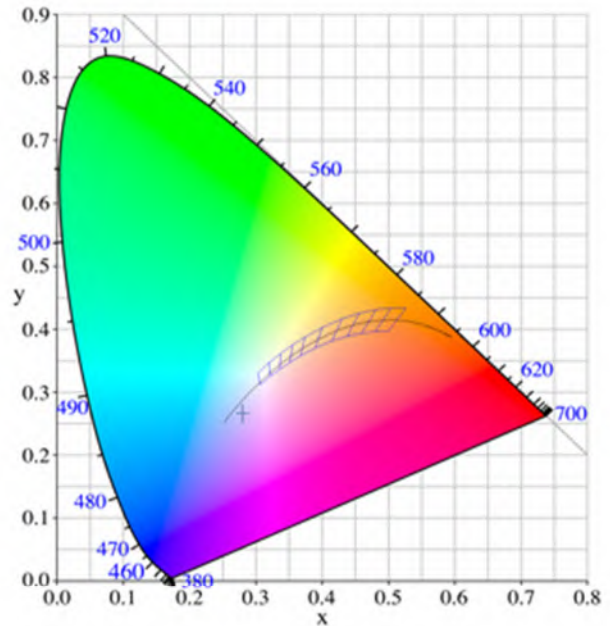
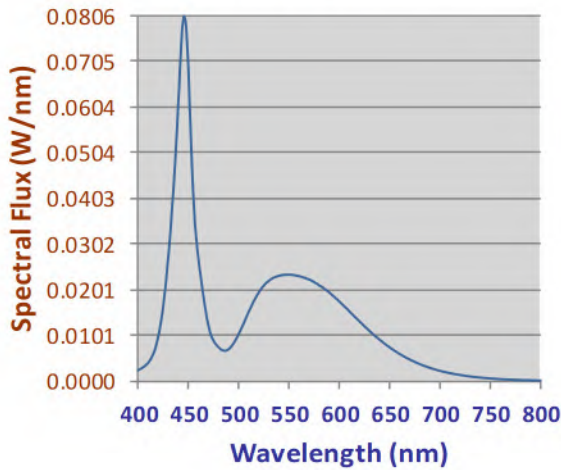
FL094 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL095		2/24/25	
Description	30 sec warmup	Test Time	8:49 AM
		Integration Time	375.6
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	76%
Notes	24.6C, 17%RH	Sphere Geometry	2pi
		Sphere Temp	24.1
Scan ID	Scan id 13144	Lumens	1416.5
Scan Name	FL095		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
11812		75.72		0.2804		0.2662		-0.0120		0.1990		0.4253	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
83	75	63	81	83	65	78	78	26	35	85	47	78	79

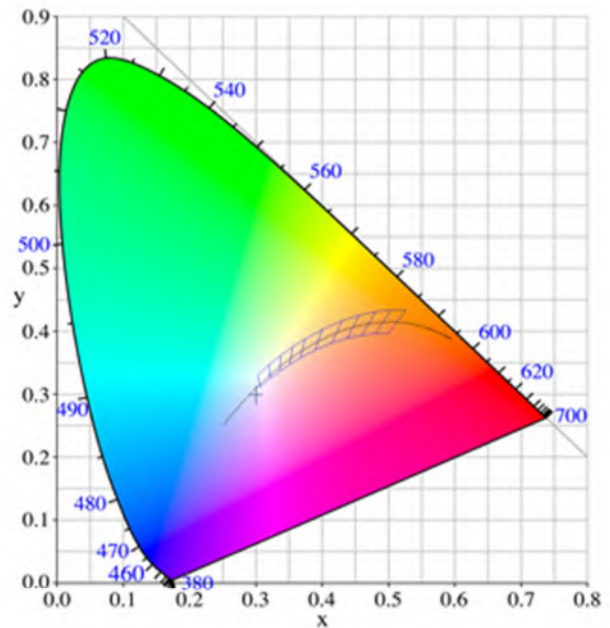
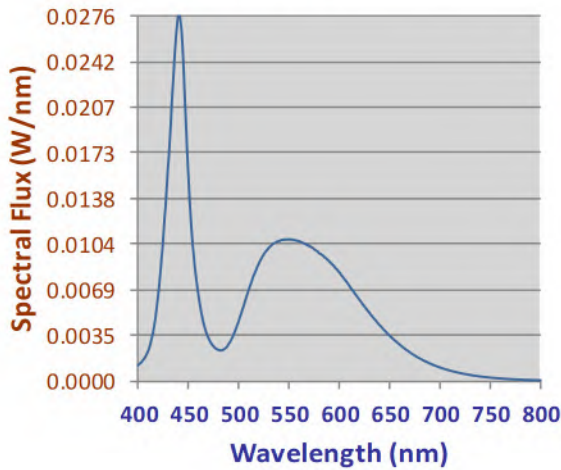
FL095 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL096		2/24/25	
Description	30 sec warmup	Test Time	9:31 AM
		Integration Time	1157
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	76%
Notes	24.6C, 17%RH	Sphere Geometry	2pi
		Sphere Temp	24.07
Scan ID	Scan id 13145	Lumens	636.0
Scan Name	FL096		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
7725		71.37		0.3005		0.2989		-0.0062		0.2008		0.4494	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
76	72	66	74	78	64	74	68	-2	30	79	50	72	80

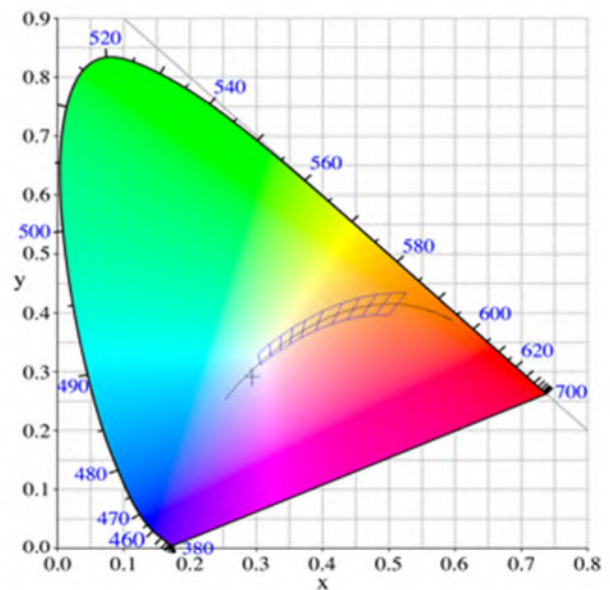
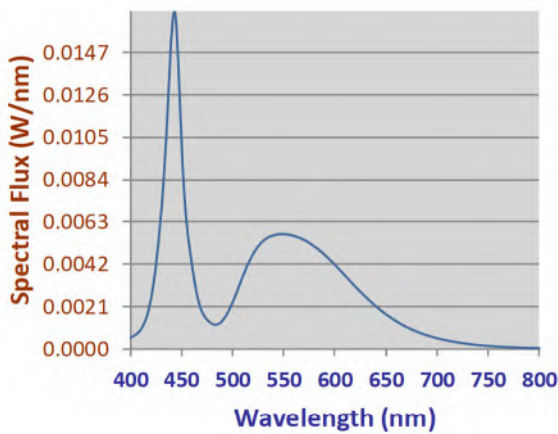
FL096 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL097		2/19/25	
Description	30 sec warmup	Test Time	9:52 AM
		Integration Time	1828.8
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	74%
Notes	25.6C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	25.01
Scan ID	Scan id 13121	Lumens	335.2
Scan Name	FL097		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8502		71.28		0.2938		0.2918		-0.0062		0.1987		0.4441	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
76	72	65	75	77	63	75	69	-3	29	78	46	72	80

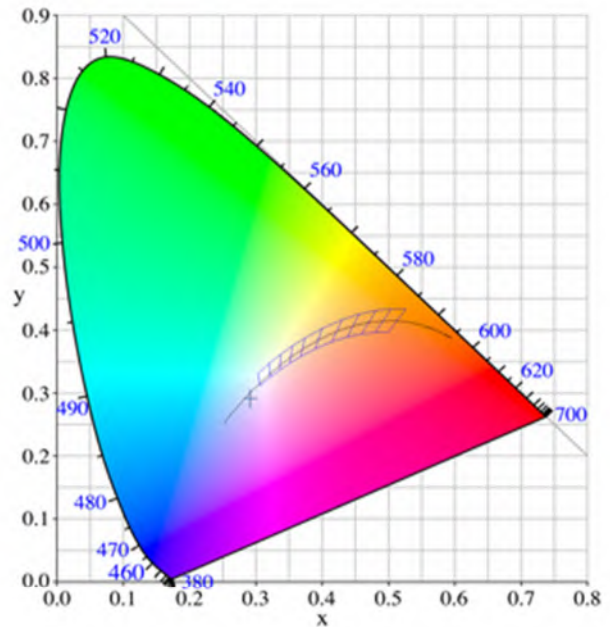
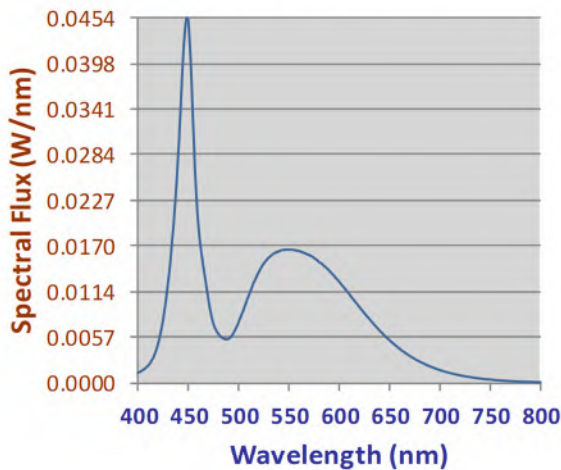
FL097 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL098		2/17/25	
Description	30 sec warmup	Test Time	3:20 PM
		Integration Time	662.5
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	25.0C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	24.46
Scan ID	Scan id 13104	Lumens	1002.9
Scan Name	FL098		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8711		77.12		0.2916		0.2916		-0.0050		0.1972		0.4436	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
79	79	74	81	79	69	83	73	8	45	80	48	78	85

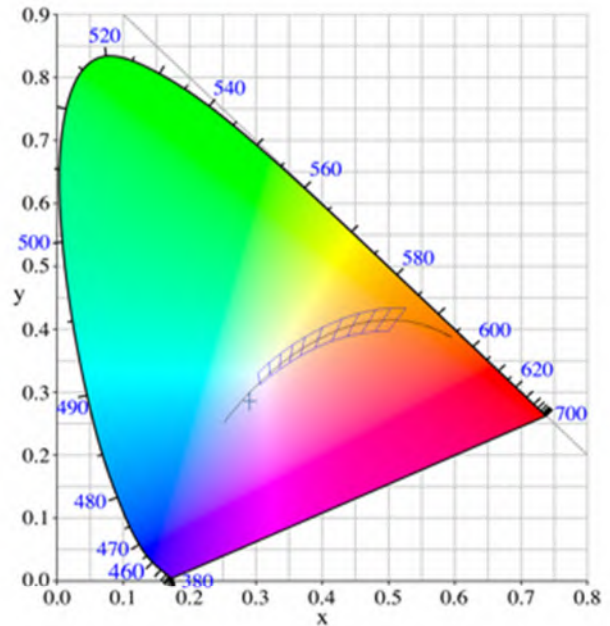
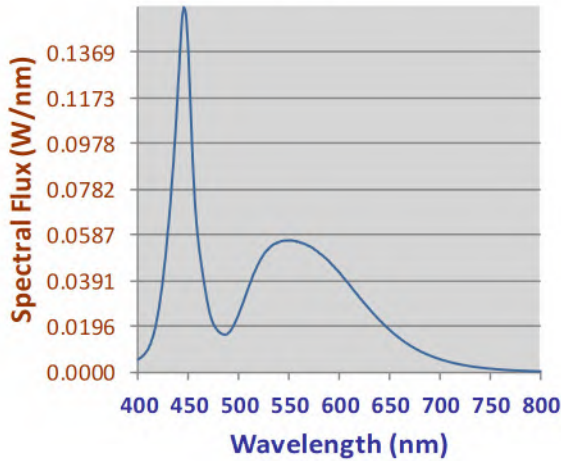
FL098 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL099		2/18/25	
Description	30 sec warmup	Test Time	9:02 AM
		Integration Time	202.8
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	25.6C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	25.05
Scan ID	Scan id 13109	Lumens	3387.3
Scan Name	FL099		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9031		75.24		0.2908		0.2858		-0.0077		0.1989		0.4399	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80	76	68	79	80	67	79	74	11	38	82	49	77	82

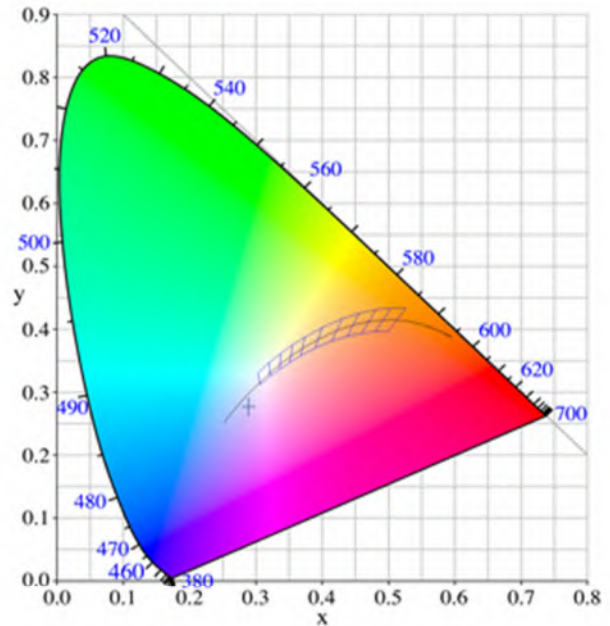
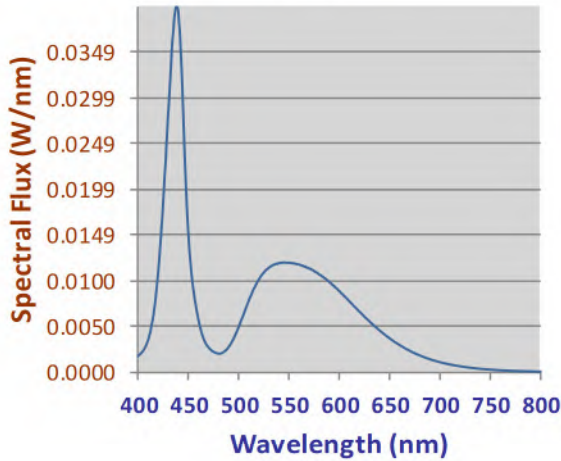
FL099 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL100		2/18/25	
Description	30 sec warmup	Test Time	10:59 AM
		Integration Time	834.8
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	25.4C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	24.64
Scan ID	Scan id 13113	Lumens	705.3
Scan Name	FL100		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9681		68.23		0.2891		0.2769		-0.0116		0.2013		0.4338	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
79	67	55	69	80	60	67	69	10	19	80	47	72	74

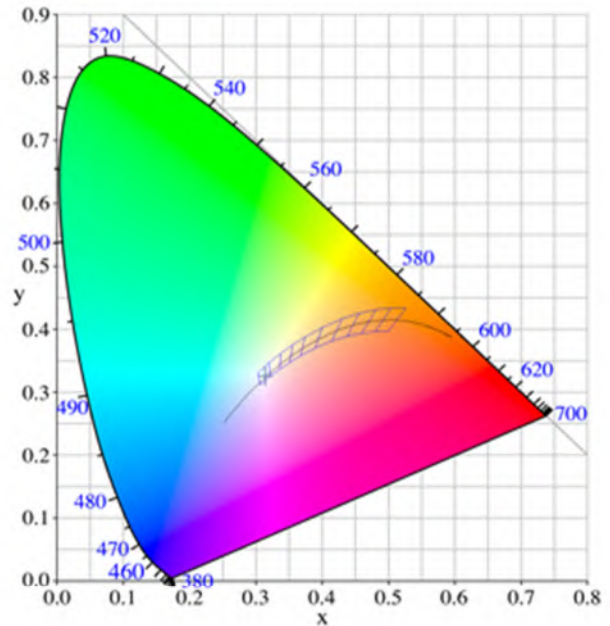
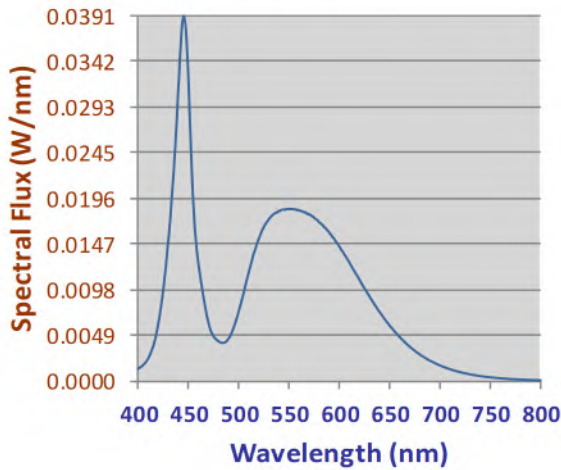
FL100 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL101		2/18/25	
Description	30 sec warmup	Test Time	11:22 AM
		Integration Time	806.8
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	78%
Notes	25.2C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	24.63
Scan ID	Scan id 13116	Lumens	1103.8
Scan Name	FL101		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
6444		71.85		0.3142		0.3259		0.0009		0.2000		0.4669	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
72	74	74	74	73	66	78	63	-20	37	74	46	71	85

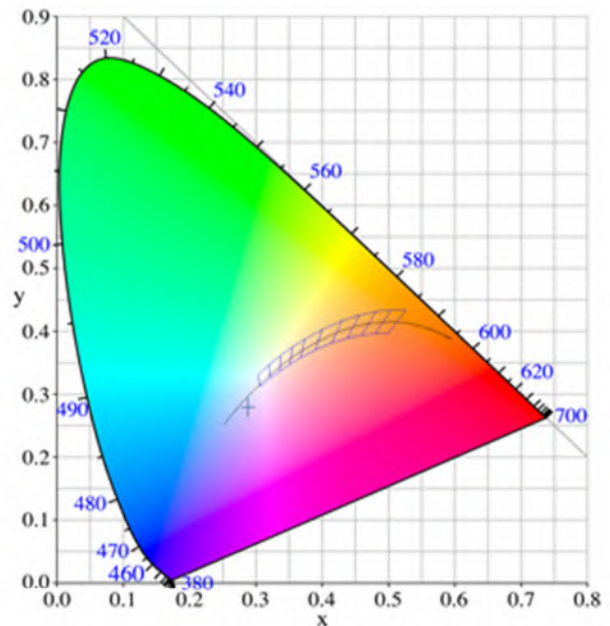
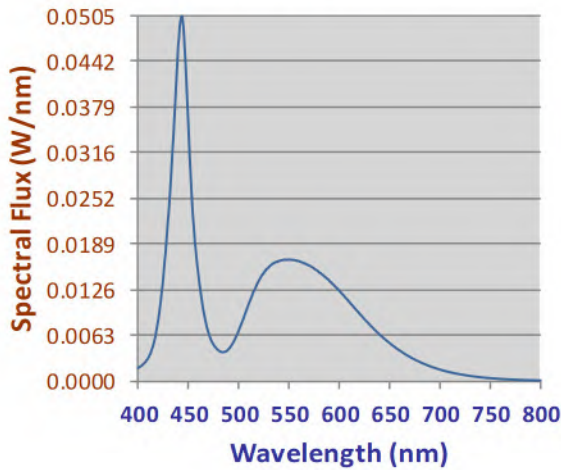
FL101 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL102		2/18/25	
Description	30 sec warmup	Test Time	11:16 AM
		Integration Time	618.8
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	76%
Notes	25.4C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	24.62
Scan ID	Scan id 13115	Lumens	998.7
Scan Name	FL102		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9623		72.97		0.2884		0.2794		-0.0097		0.1997		0.4354	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
79	73	63	77	80	64	75	73	12	30	82	48	75	78

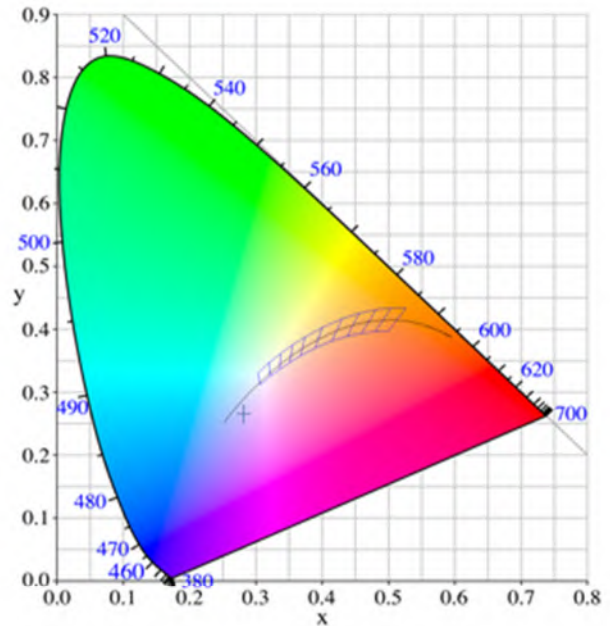
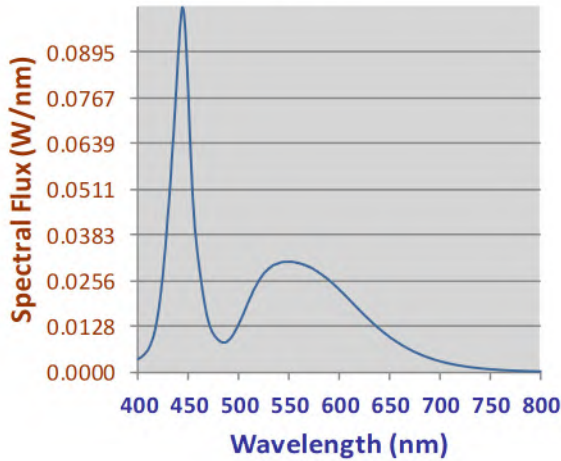
FL102 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL103		2/24/25	
Description	30 sec warmup	Test Time	8:31 AM
		Integration Time	295.1
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	74%
Notes	24.6C, 17%RH	Sphere Geometry	2pi
		Sphere Temp	24.08
Scan ID	Scan id 13143	Lumens	1854.4
Scan Name	FL103		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
11661		74.22		0.2815		0.2659		-0.0129		0.2000		0.4253	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82	73	60	79	83	64	76	77	26	31	85	48	77	77

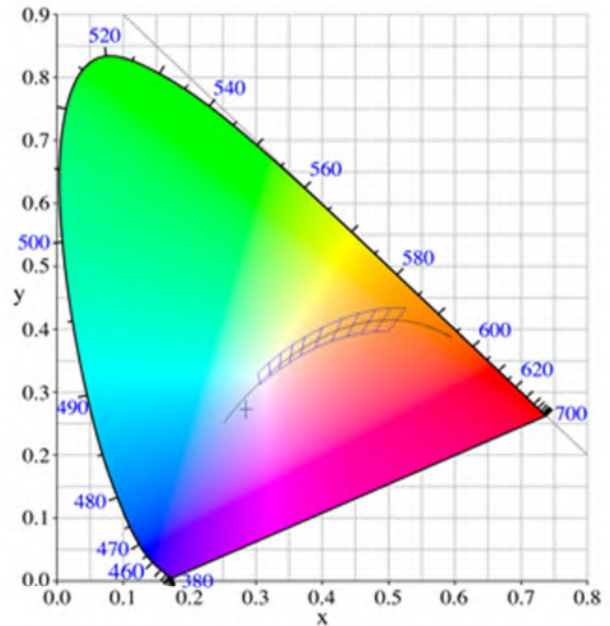
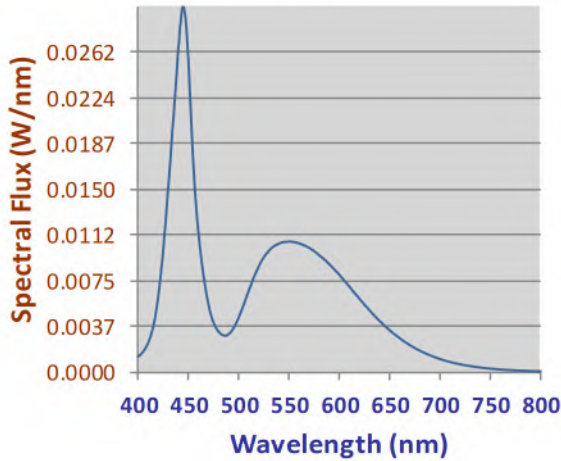
FL103 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL104		2/18/25	
Description	30 sec warmup	Test Time	8:44 AM
		Integration Time	1065.2
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	25.6C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	24.85
Scan ID	Scan id 13107	Lumens	636.7
Scan Name	FL104		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
10472		74.93		0.2850		0.2730		-0.0112		0.1998		0.4306	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82	74	63	80	82	65	77	76	22	34	84	49	77	79

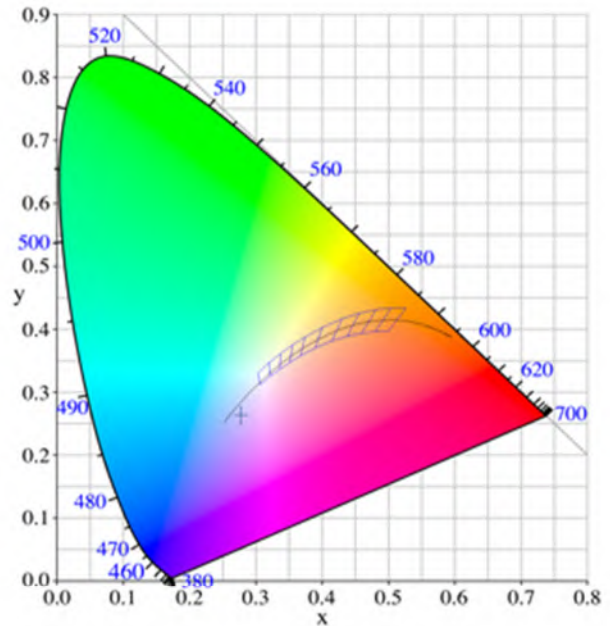
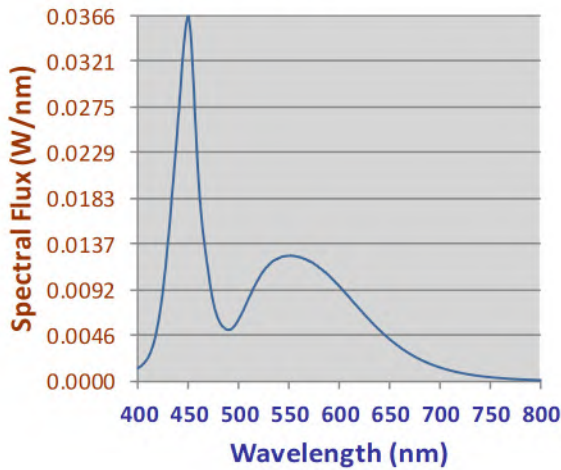
FL104 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL105		2/21/25	
Description	30 sec warmup	Test Time	12:31 PM
		Integration Time	845.6
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	80%
Notes	24.5C, 17%RH	Sphere Geometry	2pi
		Sphere Temp	23.9
Scan ID	Scan id 13138	Lumens	769.2
Scan Name	FL105		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
12576		80.36		0.2775		0.2643		-0.0111		0.1976		0.4235	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
85	81	70	87	84	70	84	82	36	48	86	52	83	83

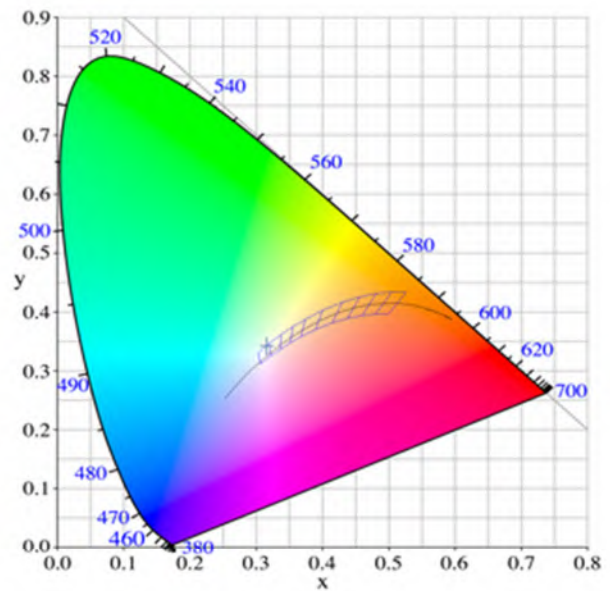
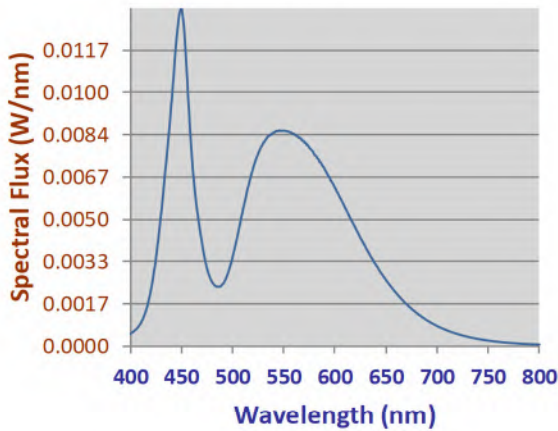
FL105 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL106		2/19/25	
Description	30 sec warmup	Test Time	11:32 AM
		Integration Time	1934.8
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	25.3C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	24.72
Scan ID	Scan id 13126	Lumens	500.4
Scan Name	FL106		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
6259		71.63		0.3159		0.3424		0.0084		0.1951		0.4758	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
68	75	80	72	70	67	82	59	-34	40	69	45	69	89

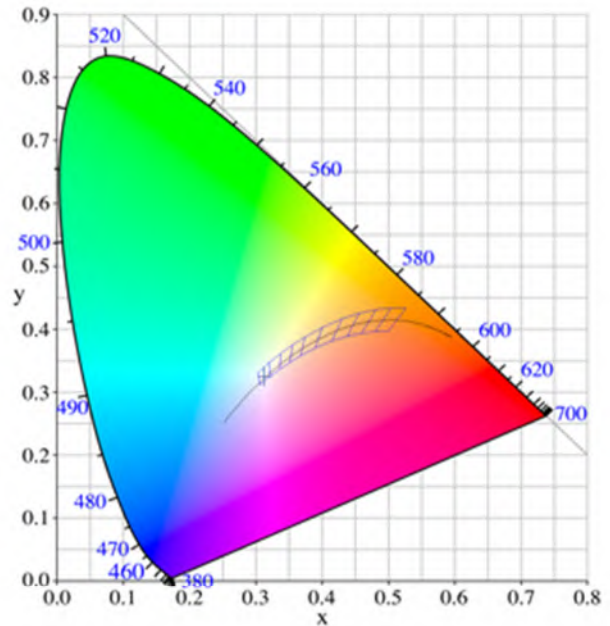
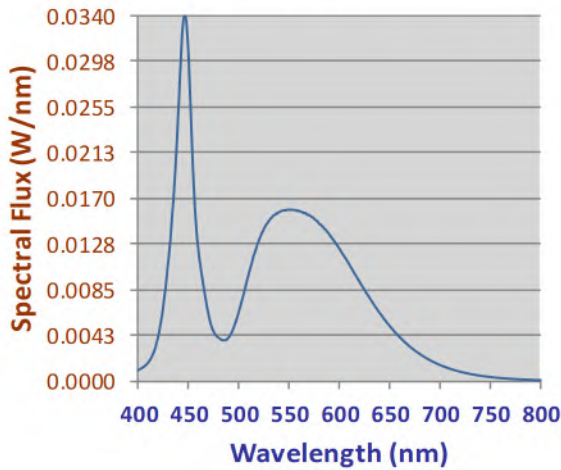
FL106 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL107		2/25/25	
Description	30 sec warmup	Test Time	9:56 AM
		Integration Time	925.1
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	24.4C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	23.84
Scan ID	Scan id 13158	Lumens	951.8
Scan Name	FL107		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
6536		72.43		0.3127		0.3250		0.0011		0.1993		0.4662	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
72	75	75	75	73	66	80	64	-19	39	74	45	71	86

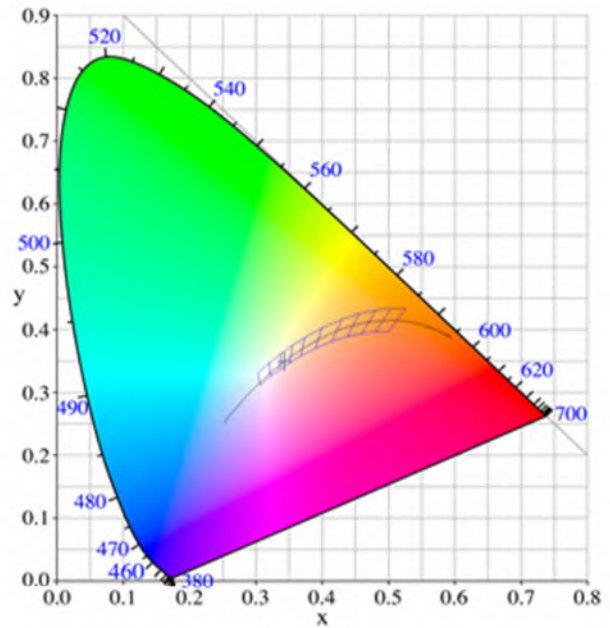
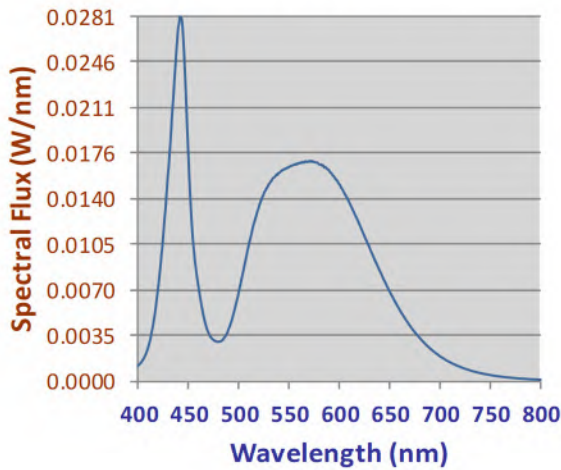
FL107 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL108		2/24/25	
Description	30 sec warmup	Test Time	2:19 PM
		Integration Time	970.1
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	80%
Notes	25.4C, 18%RH	Sphere Geometry	2pi
		Sphere Temp	24.75
Scan ID	Scan id 13155	Lumens	1036.8
Scan Name	FL108		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
5087		72.31		0.3427		0.3498		0.0001		0.2105		0.4834	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
72	75	77	74	73	68	77	61	-17	41	75	51	71	87

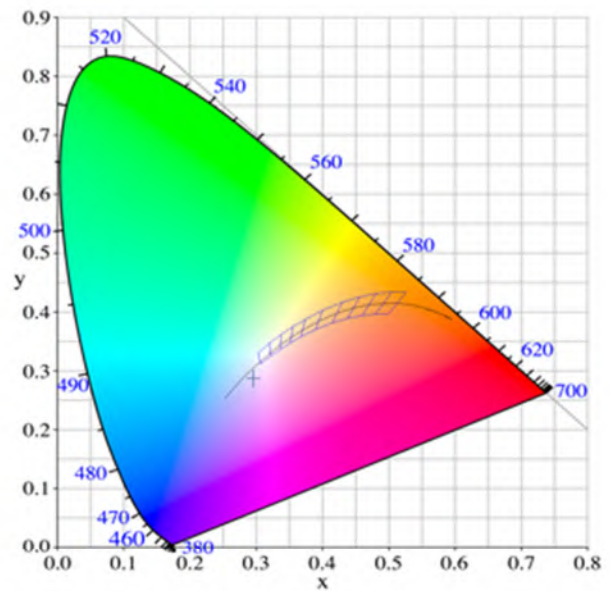
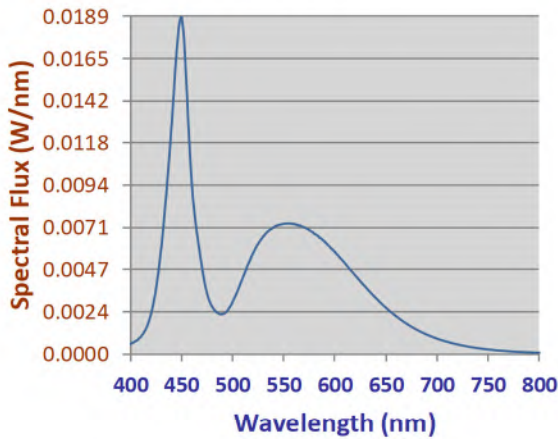
FL108 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL109				2/19/25	
Description	30 sec warmup			Test Time	11:36 AM
				Integration Time	1600.5
Orientation	Horizontal			Scans Averaged	3
Test by	DW			Saturation	78%
Notes	25.2C, 16%RH			Sphere Geometry	2pi
				Sphere Temp	24.73
Scan ID	Scan id 13127			Lumens	439.0
Scan Name	FL109				
Power	Battery Powered DUT, Power Not Monitored				

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8488		78.33		0.2954		0.2880		-0.0093		0.2015		0.4419	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82	80	72	83	81	69	83	77	21	46	81	48	80	84

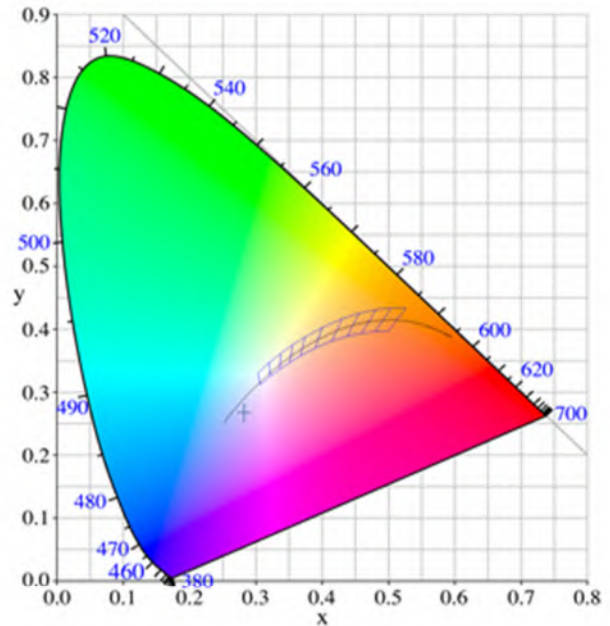
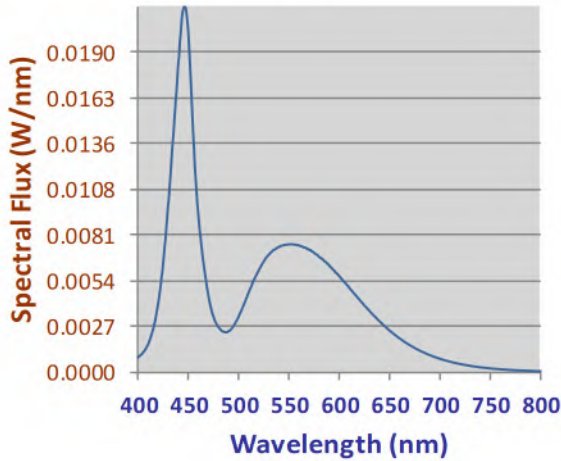
FL109 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL110		2/17/25	
Description	30 sec warmup	Test Time	1:56 PM
		Integration Time	1435.6
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	78%
Notes	25.0C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	24.62
Scan ID	Scan id 13100	Lumens	454.4
Scan Name	FL110		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
11251		76.45		0.2825		0.2683		-0.0122		0.1998		0.4270	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
83	76	64	82	83	66	79	78	28	37	85	50	79	79

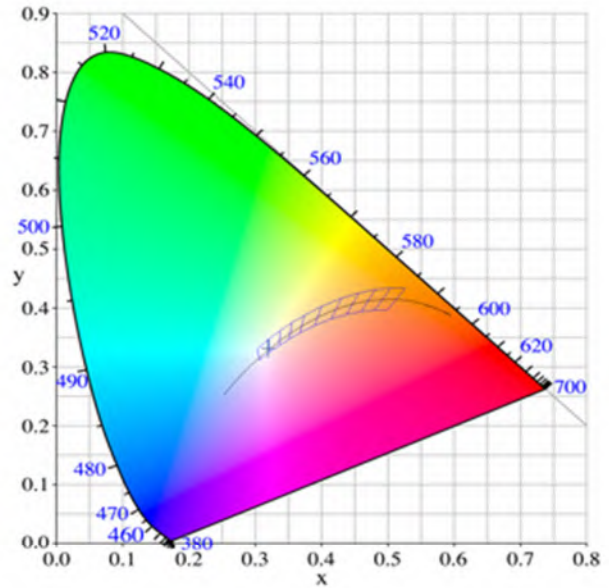
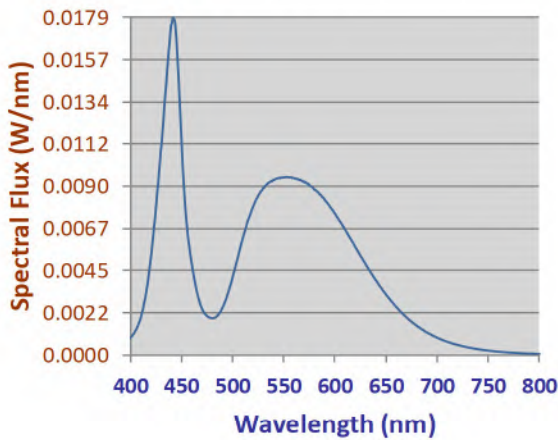
FL110 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL111				2/19/25	
Description	30 sec warmup			Test Time	9:15 AM
				Integration Time	1763.6
Orientation	Horizontal			Scans Averaged	3
Test by	DW			Saturation	79%
Notes	25.5C, 16%RH			Sphere Geometry	2pi
				Sphere Temp	24.84
Scan ID	Scan id 13118			Lumens	568.8
Scan Name	FL111				
Power	Battery Powered DUT, Power Not Monitored				

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
6129		70.95		0.3195		0.3319		0.0013		0.2015		0.4709	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
71	73	74	73	73	66	76	62	-21	35	75	50	70	85

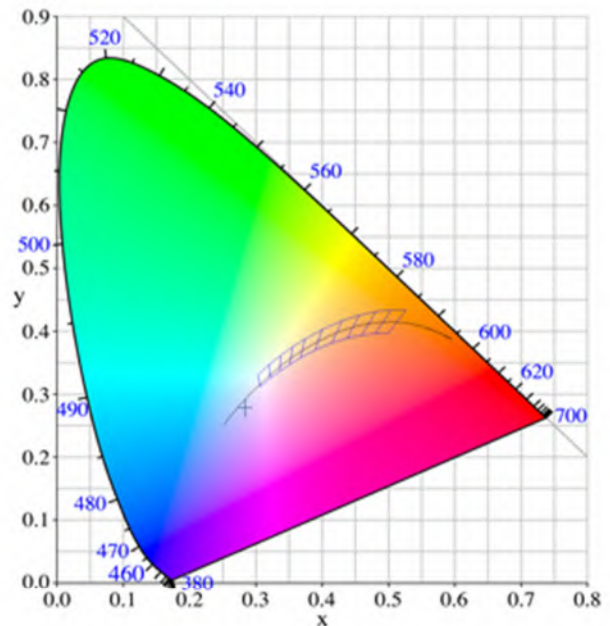
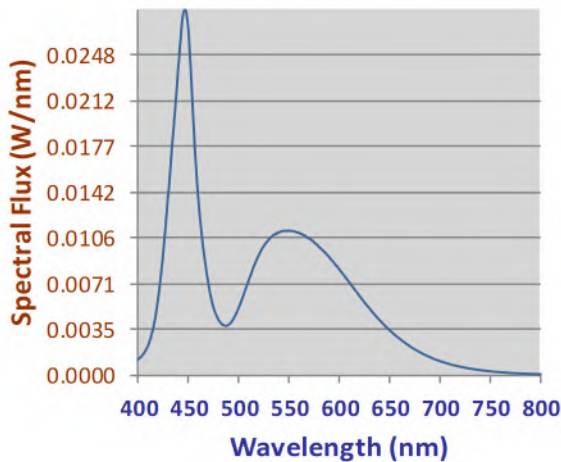
FL111 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL112		2/24/25	
Description	30 sec warmup	Test Time	11:11 AM
		Integration Time	1096.9
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	78%
Notes	24.8C, 19%RH	Sphere Geometry	2pi
		Sphere Temp	24.27
Scan ID	Scan id 13150	Lumens	669.1
Scan Name	FL112		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
10206		76.47		0.2839		0.2787		-0.0073		0.1966		0.4342	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80	77	69	81	81	68	81	75	14	40	82	51	78	82

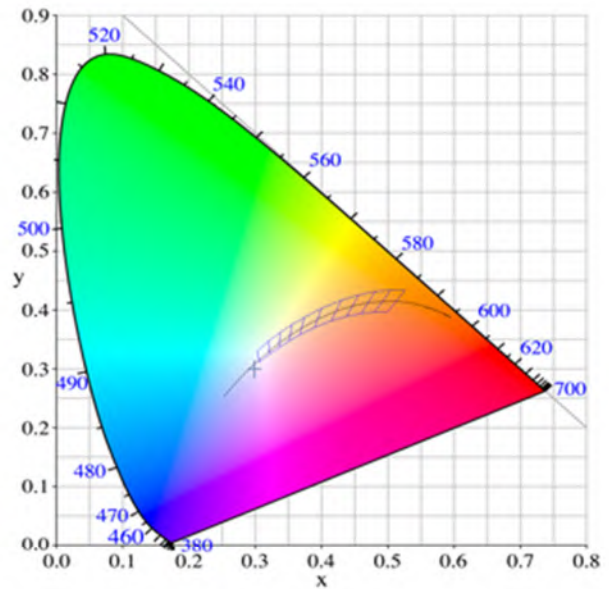
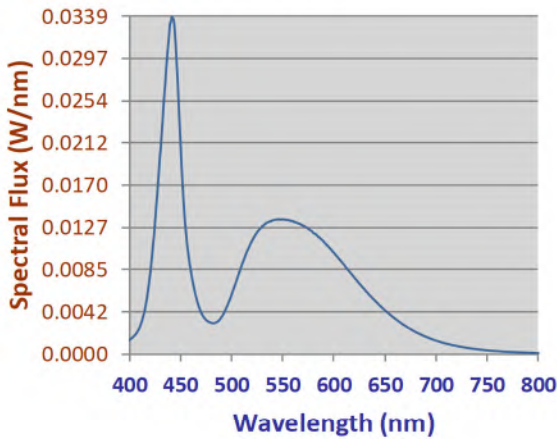
FL112 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL113		2/19/25	
Description	30 sec warmup	Test Time	11:28 AM
Orientation	Horizontal	Integration Time	940.8
Test by	DW	Scans Averaged	3
Notes	25.3C, 16%RH	Saturation	77%
Scan ID	Scan id 13125	Sphere Geometry	2pi
Scan Name	FL113	Sphere Temp	24.72
Power	Battery Powered DUT, Power Not Monitored	Lumens	806.1

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
7801		71.67		0.2993		0.2999		-0.0050		0.1995		0.4498	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
76	72	67	74	77	65	74	69	-2	31	79	50	72	81

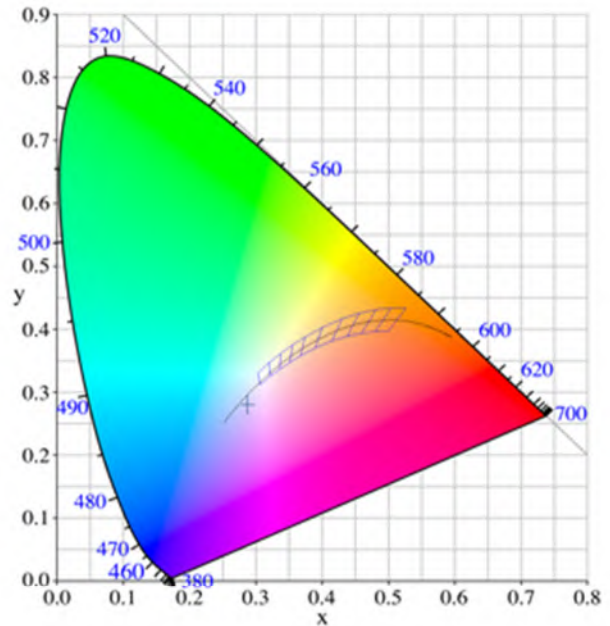
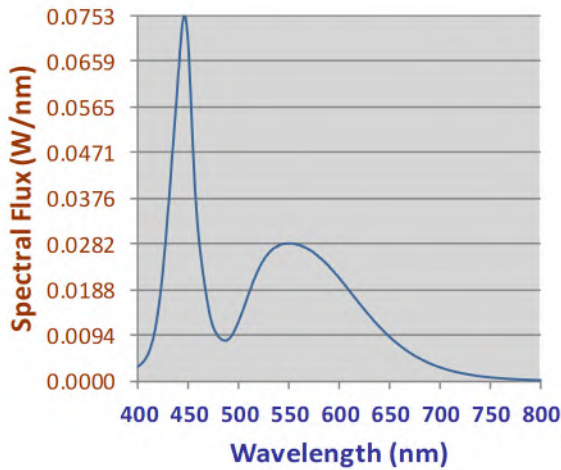
FL113 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL114				2/21/25	
Description	30 sec warmup			Test Time	2:14 PM
				Integration Time	409.4
Orientation	Horizontal			Scans Averaged	3
Test by	DW			Saturation	78%
Notes	24.6C, 17%RH			Sphere Geometry	2pi
				Sphere Temp	24.24
Scan ID	Scan id 13142			Lumens	1697.6
Scan Name	FL114				
Power	Battery Powered DUT, Power Not Monitored				

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9662		75.48		0.2878		0.2799		-0.0091		0.1990		0.4356	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80	76	67	80	81	66	79	75	16	37	83	50	77	81

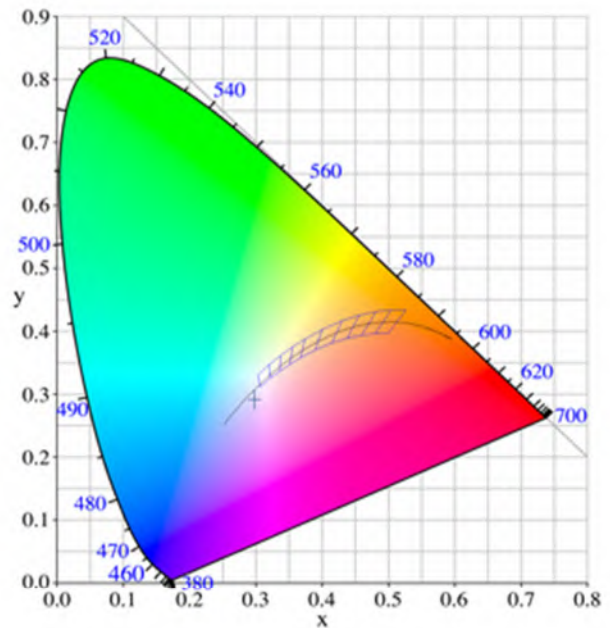
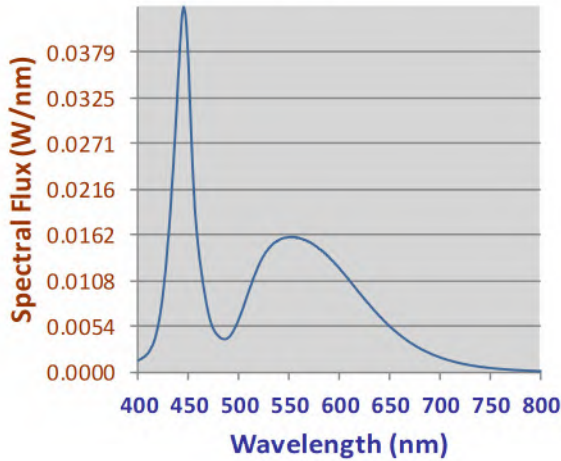
FL114 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL115		2/25/25	
Description	30 sec warmup	Test Time	10:08 AM
		Integration Time	740.1
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	24.4C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	23.88
Scan ID	Scan id 13159	Lumens	953.0
Scan Name	FL115		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8140		74.63		0.2978		0.2917		-0.0087		0.2017		0.4446	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
79	75	67	79	79	66	78	73	12	37	80	47	76	81

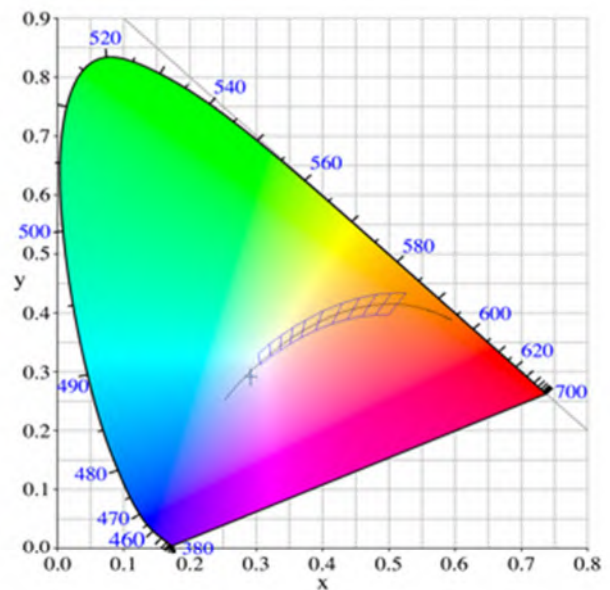
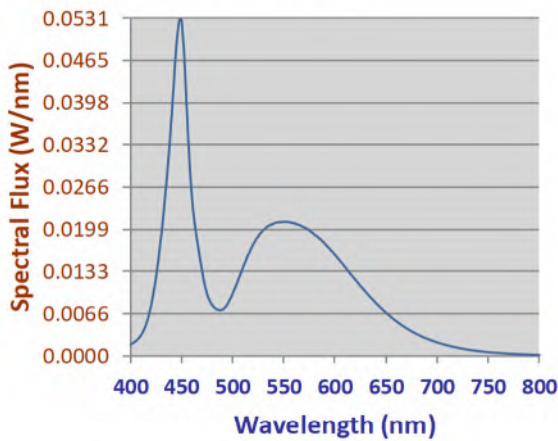
FL115 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL116		2/19/25	
Description	30 sec warmup	Test Time	11:21 AM
		Integration Time	584.4
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	80%
Notes	25.4C, 16%RH	Sphere Geometry	2pi
		Sphere Temp	24.67
Scan ID	Scan id 13124	Lumens	1272.2
Scan Name	FL116		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8737		77.20		0.2914		0.2914		-0.0050		0.1971		0.4435	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
79	79	74	81	80	70	83	73	8	45	80	50	78	85

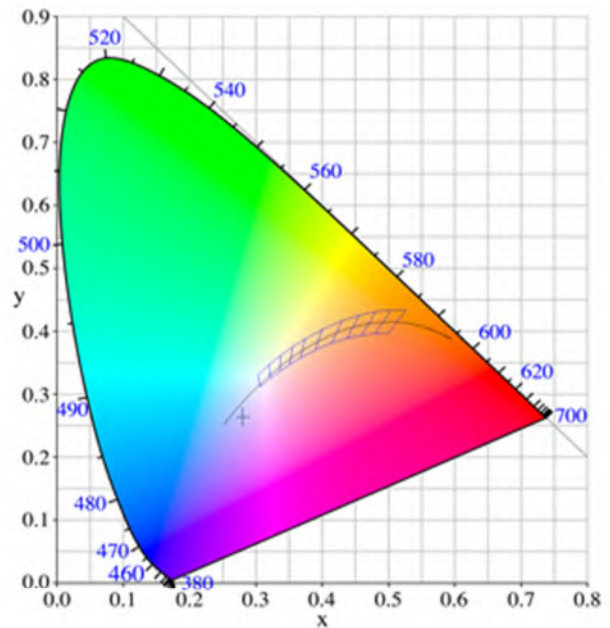
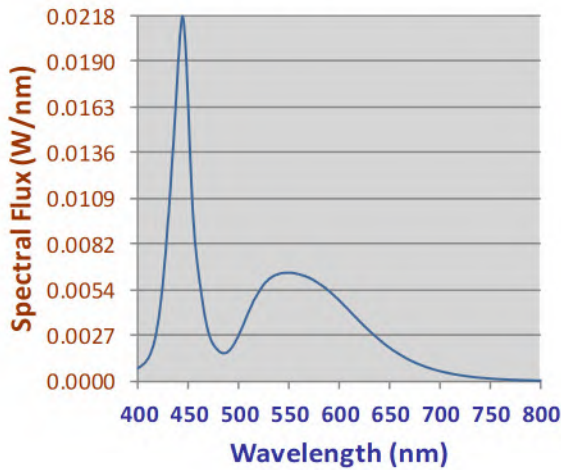
FL116 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL117		2/24/25	
Description	30 sec warmup	Test Time	2:10 PM
		Integration Time	1435.2
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	76%
Notes	25.2C, 19%RH	Sphere Geometry	2pi
		Sphere Temp	24.69
Scan ID	Scan id 13154	Lumens	386.3
Scan Name	FL117		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
12066		73.58		0.2803		0.2641		-0.0131		0.1999		0.4238	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82	72	59	78	82	63	75	76	24	29	85	47	77	76

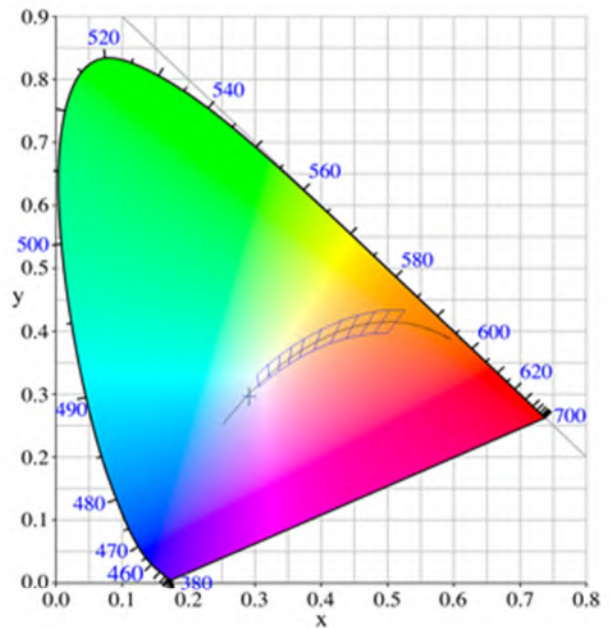
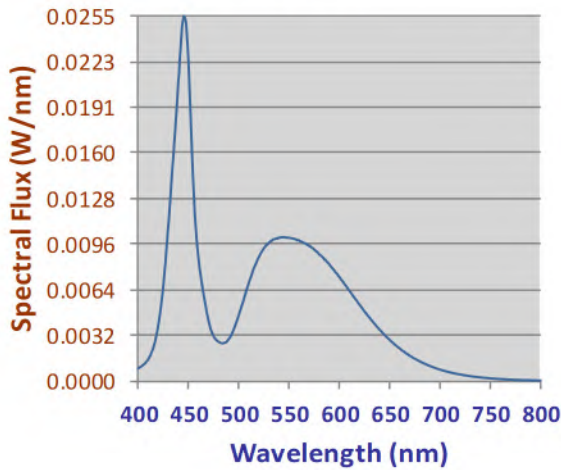
FL117 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL118		2/24/25	
Description	30 sec warmup	Test Time	10:06 AM
		Integration Time	1244.1
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	24.7C, 17%RH	Sphere Geometry	2pi
		Sphere Temp	24.07
Scan ID	Scan id 13146	Lumens	597.1
Scan Name	FL118		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8517		72.88		0.2918		0.2967		-0.0023		0.1953		0.4468	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
75	74	70	76	76	66	78	68	-9	35	78	48	73	83

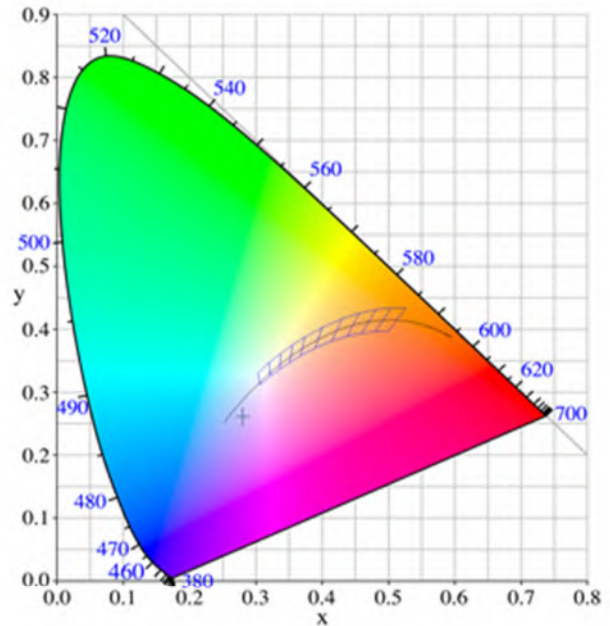
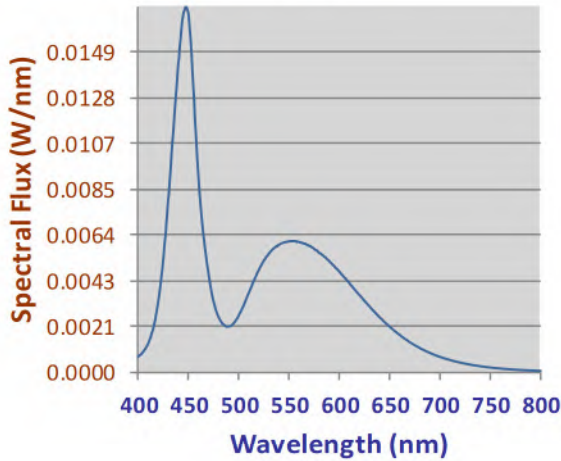
FL118 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL119		3/12/25	
Description	30 sec warmup	Test Time	8:19 AM
		Integration Time	1752.7
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	76%
Notes	24.6C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	23.77
Scan ID	Scan id 13234	Lumens	368.4
Scan Name	FL119		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
12332		78.81		0.2805		0.2617		-0.0146		0.2011		0.4222	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
85	78	65	86	84	67	82	82	42	42	87	51	81	80

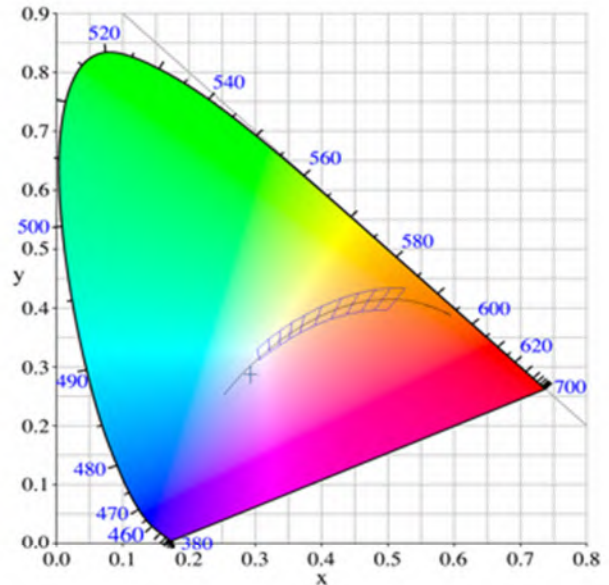
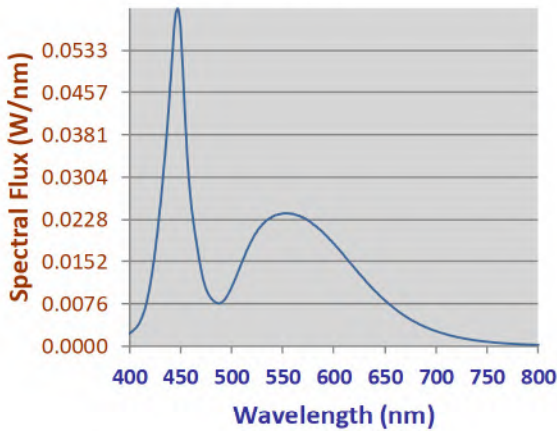
FL119 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL120		3/17/25	
Description	30 sec warmup	Test Time	8:58 AM
		Integration Time	492.3
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	76%
Notes	26.3C, 18%RH	Sphere Geometry	2pi
		Sphere Temp	25.39
Scan ID	Scan id 13277	Lumens	1440.2
Scan Name	FL120		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8677		77.19		0.2936		0.2877		-0.0084		0.2002		0.4414	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81	78	71	81	81	69	81	76	17	43	82	51	78	83

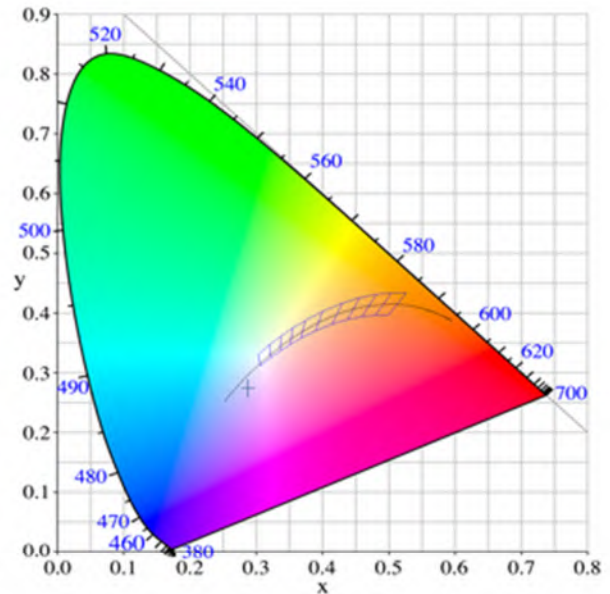
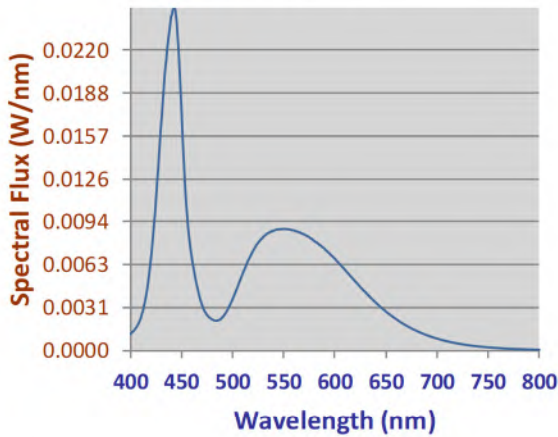
FL120 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE250113 FL121				3/14/25	
Description	30 sec warmup			Test Time	9:16 AM
				Integration Time	1262.9
Orientation	Horizontal			Scans Averaged	3
Test by	DW			Saturation	77%
Notes	26.0C, 20%RH			Sphere Geometry	2pi
				Sphere Temp	25.16
Scan ID	Scan id 13265			Lumens	529.4
Scan Name	FL121				
Power	Battery Powered DUT, Power Not Monitored				

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9991		72.42		0.2877		0.2747		-0.0120		0.2012		0.4322	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81	72	60	76	82	63	73	74	18	28	83	50	75	77

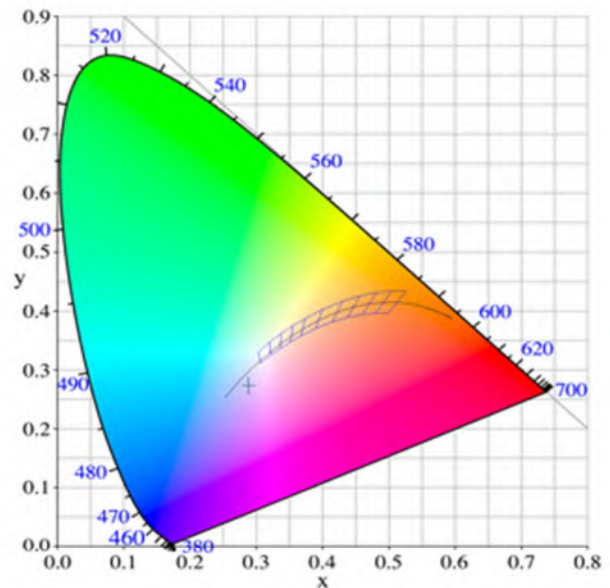
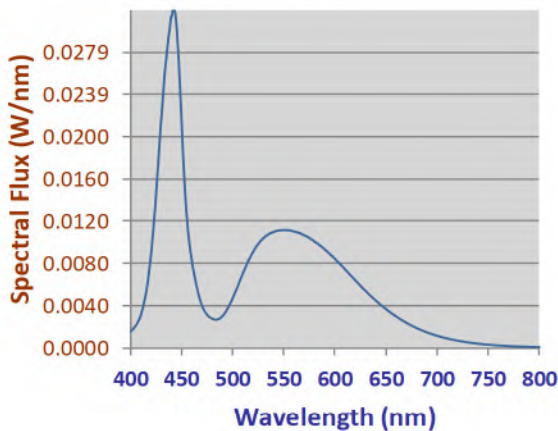
FL121 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL122				3/17/25	
Description	30 sec warmup			Test Time	11:15 AM
				Integration Time	982.7
Orientation	Horizontal			Scans Averaged	3
Test by	DW			Saturation	76%
Notes	25.7C, 18%RH			Sphere Geometry	2pi
				Sphere Temp	24.77
Scan ID	Scan id 13280			Lumens	663.3
Scan Name	FL122				
Power	Battery Powered DUT, Power Not Monitored				

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
10018		72.32		0.2881		0.2736		-0.0129		0.2019		0.4315	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81	71	59	75	82	63	73	74	22	27	83	50	75	76

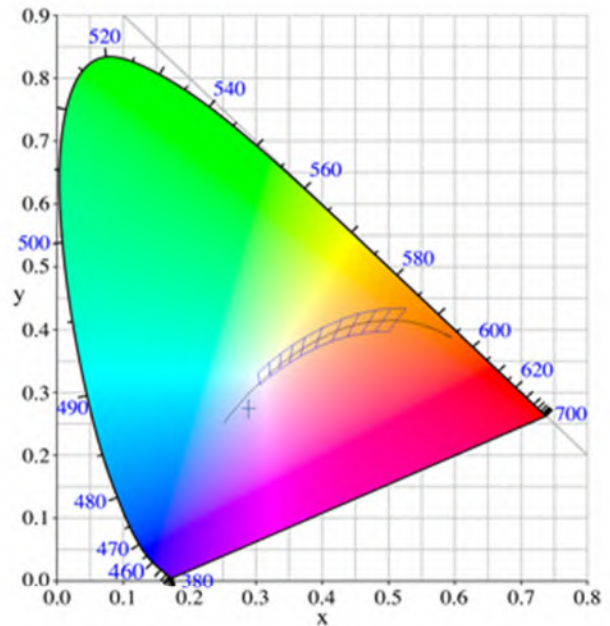
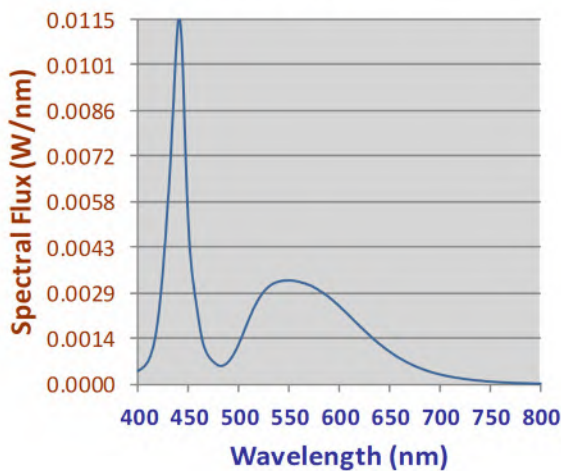
FL122 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL123		3/11/25	
Description	30 sec warmup	Test Time	2:22 PM
		Integration Time	2731.3
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	75%
Notes	25.8C 19%RH	Sphere Geometry	2pi
		Sphere Temp	25.26
Scan ID	Scan id 13231	Lumens	193.6
Scan Name	FL123		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9878		69.89		0.2889		0.2742		-0.0131		0.2023		0.4320	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80	69	56	72	81	60	70	72	15	22	82	46	73	74

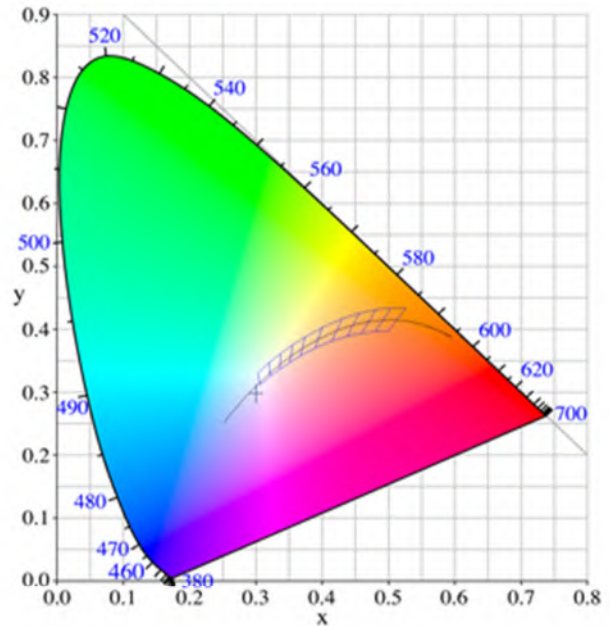
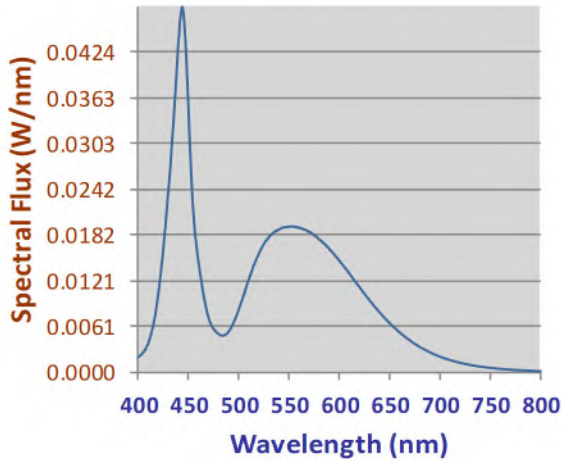
FL123 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL124		3/12/25	
Description	30 sec warmup	Test Time	8:51 AM
		Integration Time	671.6
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	24.7C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	23.99
Scan ID	Scan id 13238	Lumens	1150.6
Scan Name	FL124		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
7737		73.48		0.3005		0.2986		-0.0064		0.2009		0.4492	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
77	74	68	77	78	66	77	71	4	35	80	50	74	82

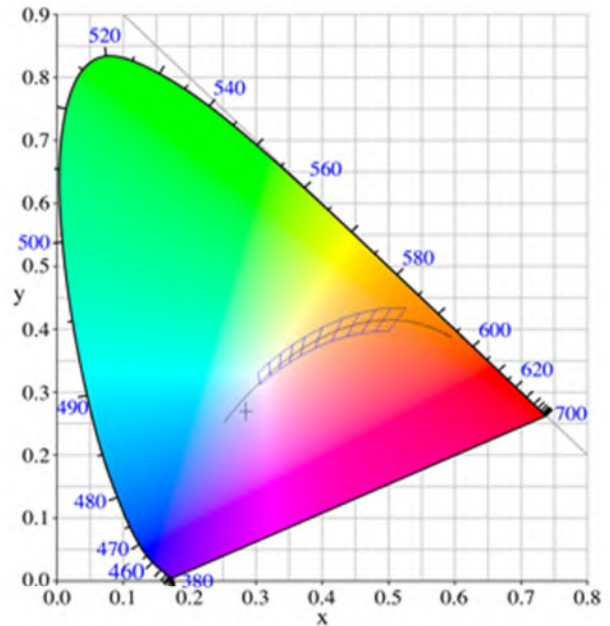
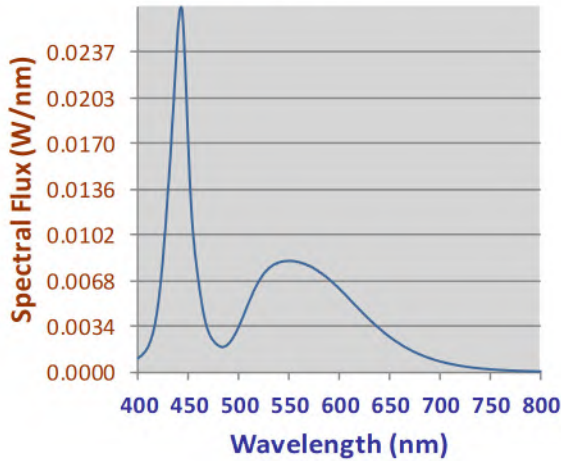
FL124 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL125		3/13/25	
Description	30 sec warmup	Test Time	1:40 PM
		Integration Time	1160.3
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	76%
Notes	26.0C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	25.45
Scan ID	Scan id 13260	Lumens	491.1
Scan Name	FL125		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
10652		72.12		0.2854		0.2700		-0.0132		0.2014		0.4286	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81	71	58	76	82	62	73	74	21	26	84	48	75	76

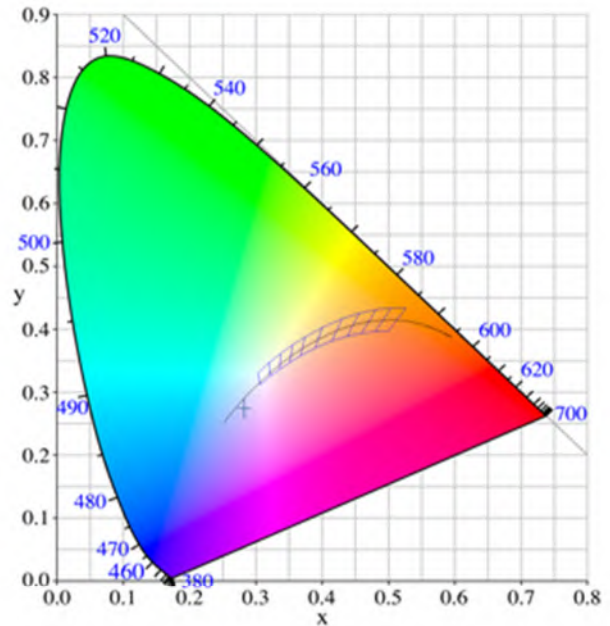
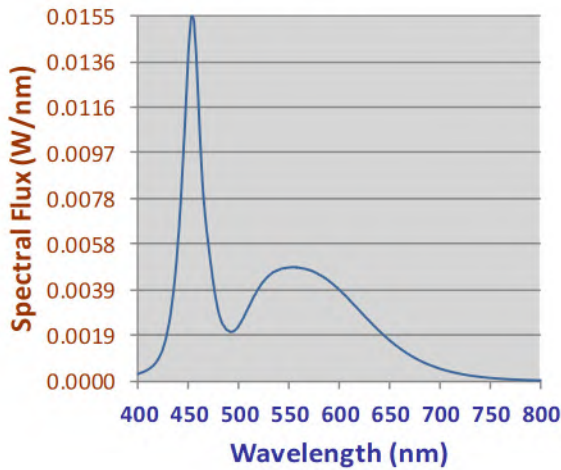
FL125 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL126				3/13/25	
Description	30 sec warmup		Test Time	8:23 AM	
			Integration Time	1919.8	
Orientation	Horizontal		Scans Averaged	3	
Test by	DW		Saturation	80%	
Notes	24.8C, 20%RH		Sphere Geometry	2pi	
			Sphere Temp	23.86	
Scan ID	Scan id 13249		Lumens	303.6	
Scan Name	FL126				
Power	Battery Powered DUT, Power Not Monitored				

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
10707		83.90		0.2826		0.2743		-0.0089		0.1974		0.4311	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
86	88	81	85	83	76	90	82	39	65	82	48	88	89

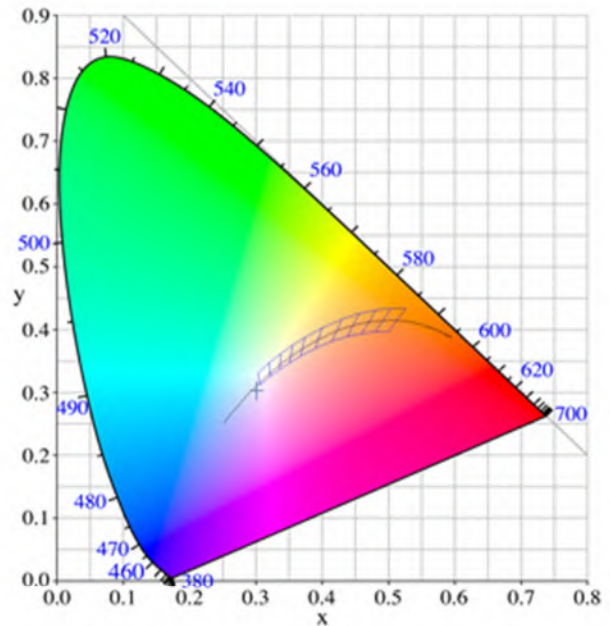
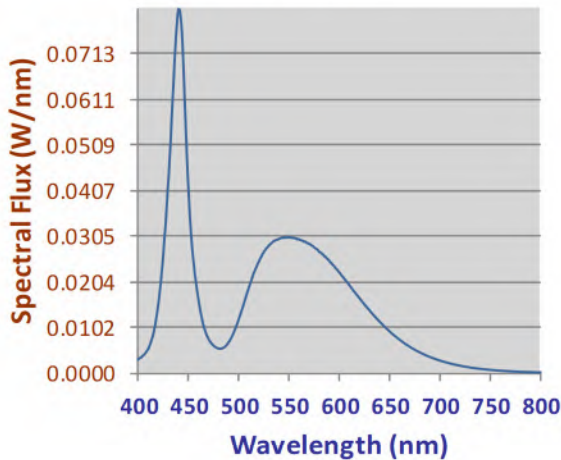
FL126 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL127		3/7/25	
Description	30 sec warmup	Test Time	2:49 PM
		Integration Time	403
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	78%
Notes	24.6C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	23.99
Scan ID	Scan id 13216	Lumens	1782.5
Scan Name	FL127		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
7552		69.45		0.3016		0.3031		-0.0046		0.1999		0.4521	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
74	70	65	72	75	62	72	66	-11	27	77	46	70	80

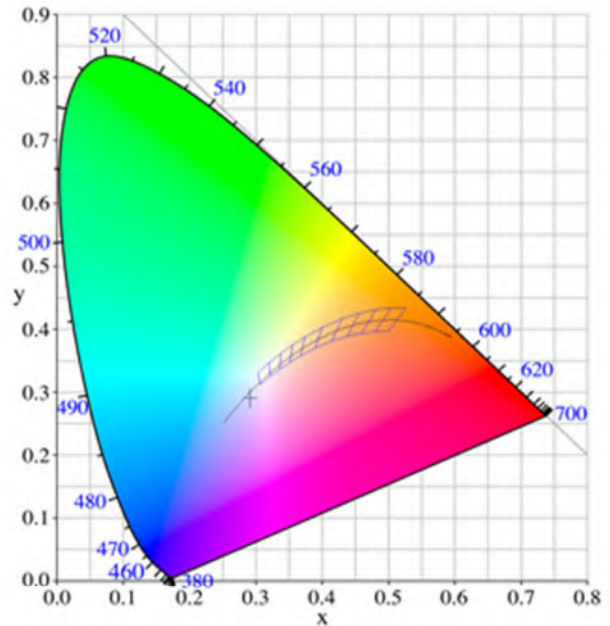
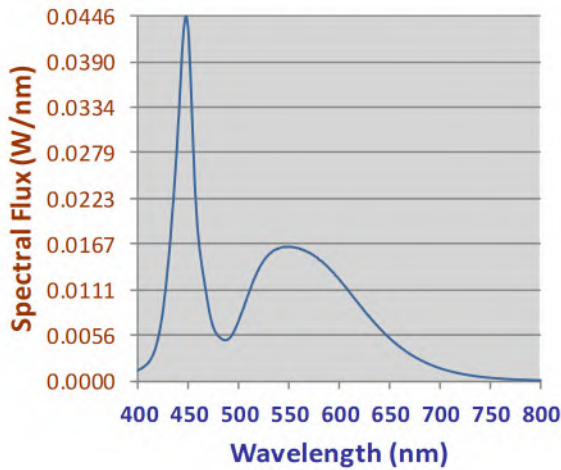
FL127 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL128		3/11/25	
Description	30 sec warmup	Test Time	9:15 AM
		Integration Time	700.6
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	25.3C 19%RH	Sphere Geometry	2pi
		Sphere Temp	24.57
Scan ID	Scan id 13221	Lumens	987.5
Scan Name	FL128		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8725		76.20		0.2919		0.2906		-0.0057		0.1978		0.4430	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
79	77	71	80	79	68	81	73	8	42	81	48	77	84

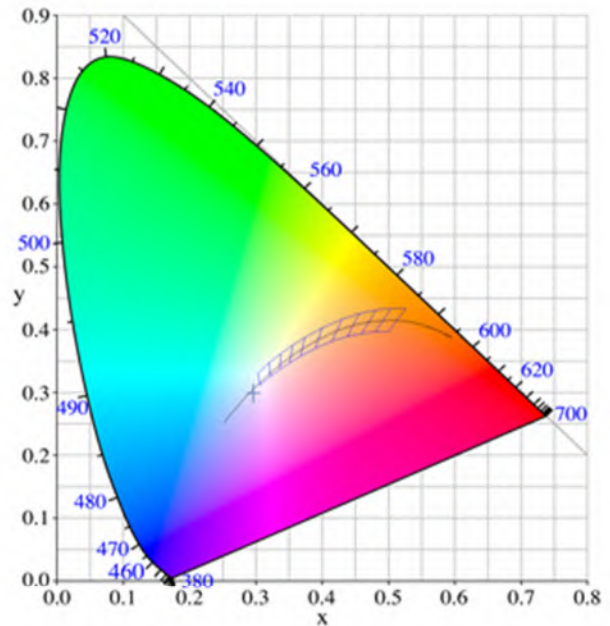
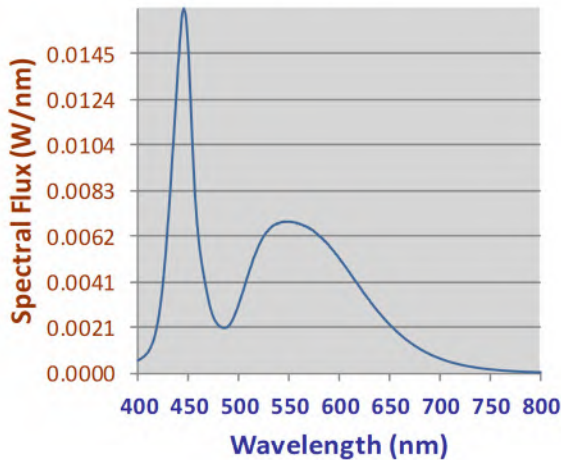
FL128 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL129		3/6/25	
Description	30 sec warmup	Test Time	11:49 AM
		Integration Time	1923.6
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	23.5C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	22.78
Scan ID	Scan id 13205	Lumens	413.4
Scan Name	FL129		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8016		74.86		0.2968		0.2993		-0.0039		0.1979		0.4491	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
77	76	72	78	78	68	79	71	0	40	79	50	75	84

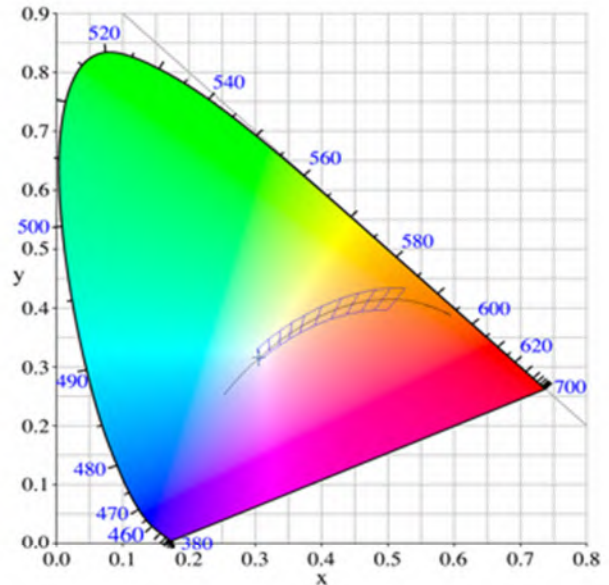
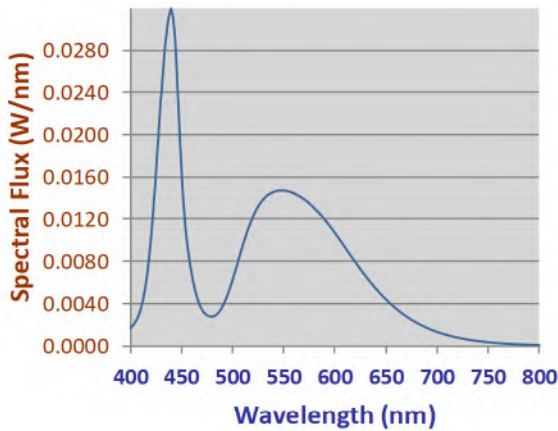
FL129 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL130		3/17/25	
Description	30 sec warmup	Test Time	1:44 PM
Orientation	Horizontal	Integration Time	1042.3
Test by	DW	Scans Averaged	3
Notes	25.6C, 18%RH	Saturation	78%
Scan ID	Scan id 13283	Sphere Geometry	2pi
Scan Name	FL130	Sphere Temp	24.85
Power	Battery Powered DUT, Power Not Monitored	Lumens	860.0

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
7035		68.40		0.3059		0.3162		0.0001		0.1979		0.4603	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
70	69	68	70	72	62	72	62	-23	27	74	47	68	82

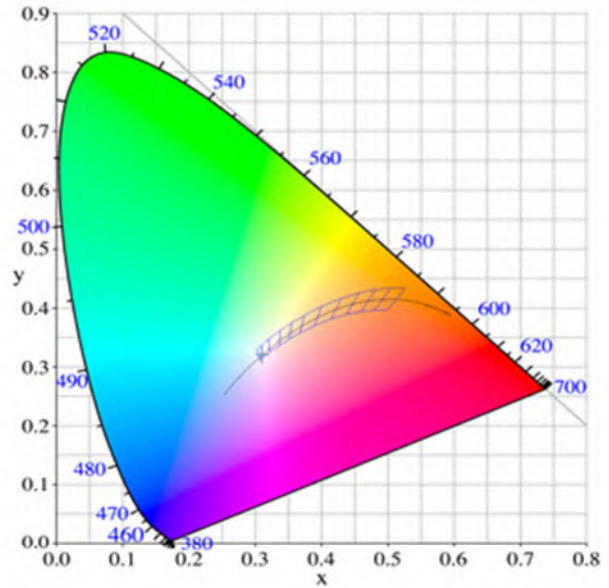
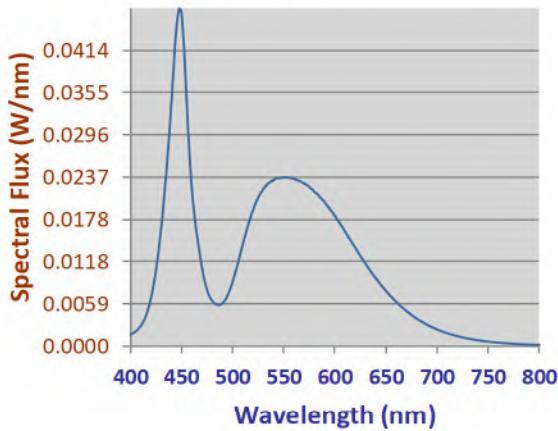
FL130 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL131		3/17/25	
Description	30 sec warmup	Test Time	10:58 AM
Orientation	Horizontal	Integration Time	644.8
Test by	DW	Scans Averaged	3
Notes	25.7C, 18%RH	Saturation	78%
Scan ID	Scan id 13279	Sphere Geometry	2pi
Scan Name	FL131	Sphere Temp	24.71
Power	Battery Powered DUT, Power Not Monitored	Lumens	1406.3

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
6693		73.44		0.3106		0.3209		0.0001		0.1994		0.4636	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
73	76	75	76	74	67	81	65	-14	40	74	45	73	86

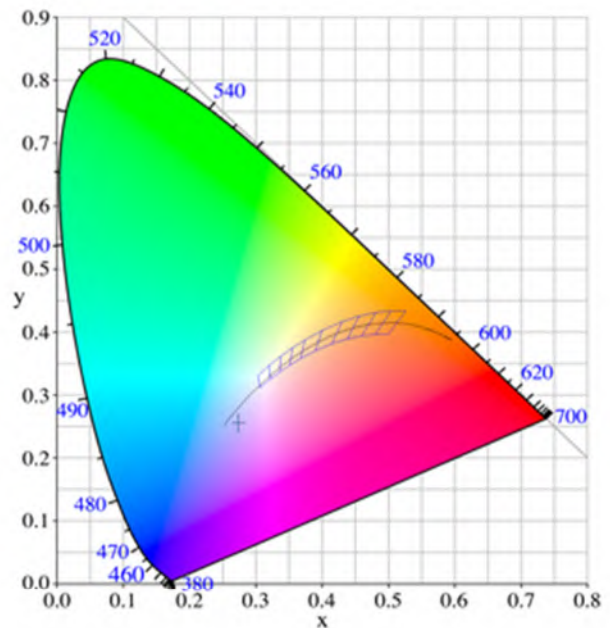
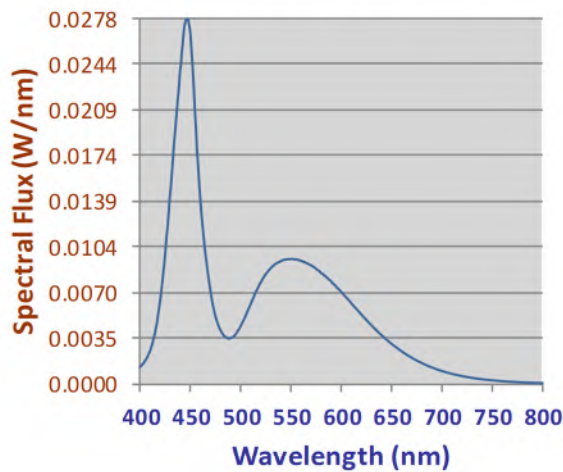
FL131 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL132		2/26/25	
Description	30 sec warmup	Test Time	3:43 PM
		Integration Time	1107
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	78%
Notes	25.1C, 22%RH	Sphere Geometry	2pi
		Sphere Temp	24.82
Scan ID	Scan id 13182	Lumens	573.1
Scan Name	FL132		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
14993		77.61		0.2735		0.2554		-0.0133		0.1982		0.4166	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
85	77	63	85	84	67	80	81	37	38	88	51	80	79

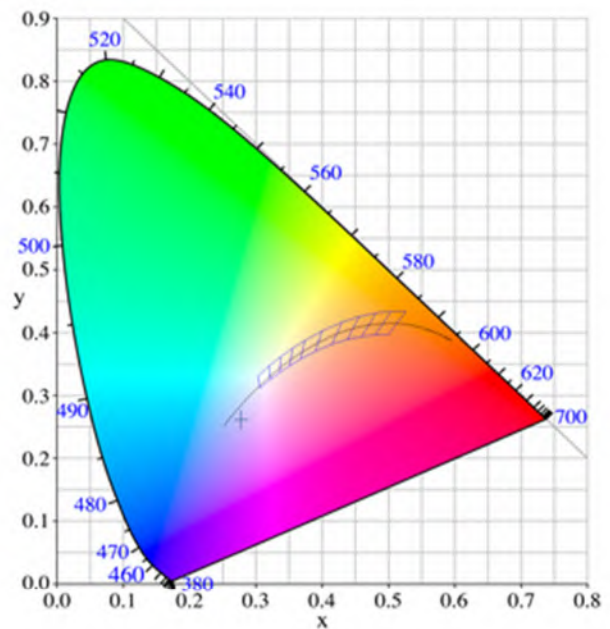
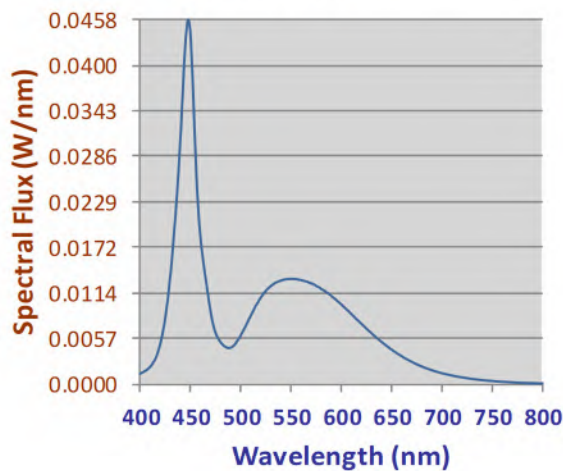
FL132 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL133		2/27/25	
Description	30 sec warmup	Test Time	10:39 AM
		Integration Time	643.3
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	75%
Notes	24.8C, 24%RH	Sphere Geometry	2pi
		Sphere Temp	24.17
Scan ID	Scan id 13189	Lumens	803.7
Scan Name	FL133		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
12978		78.48		0.2774		0.2615		-0.0126		0.1987		0.4215	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
84	78	66	85	83	67	82	81	36	41	87	47	81	80

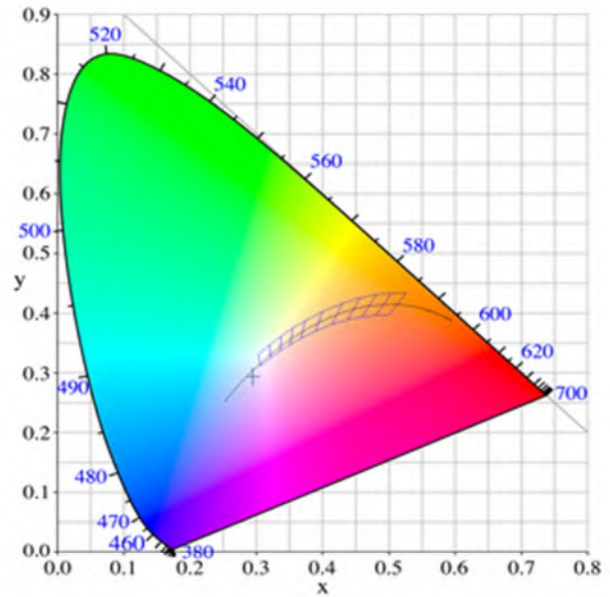
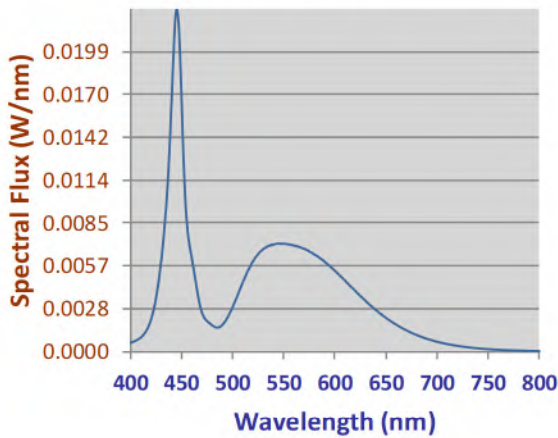
FL133 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE250113 FL134				3/14/25	
Description	30 sec warmup			Test Time	12:57 PM
				Integration Time	1311.8
Orientation	Horizontal			Scans Averaged	3
Test by	DW			Saturation	74%
Notes	26.0C, 20%RH			Sphere Geometry	2pi
				Sphere Temp	26.2
Scan ID	Scan id 13268			Lumens	425.8
Scan Name	FL134				
Power	Battery Powered DUT, Power Not Monitored				

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8308		73.31		0.2951		0.2942		-0.0056		0.1987		0.4457	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
77	74	68	77	78	65	78	71	1	35	79	45	74	81

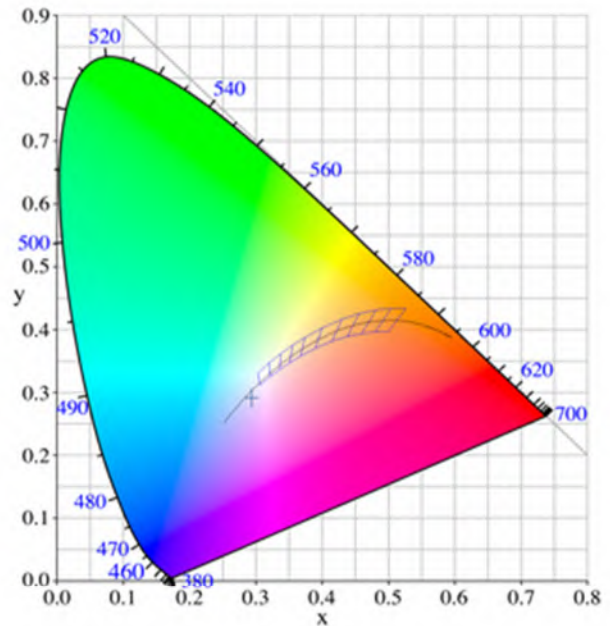
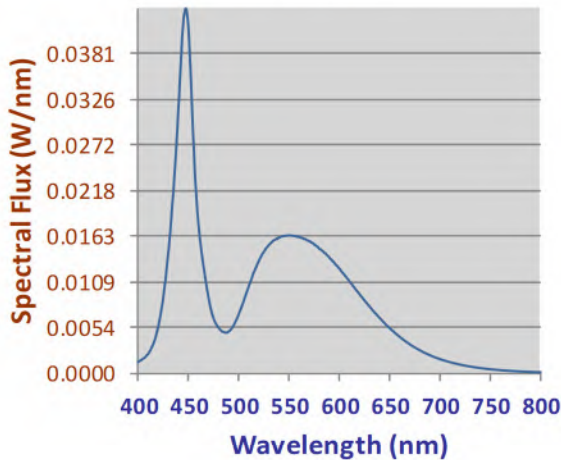
FL134 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL135		3/12/25	
Description	30 sec warmup	Test Time	8:25 AM
Orientation	Horizontal	Integration Time	717.9
Test by	DW	Scans Averaged	3
Notes	24.6C, 20%RH	Saturation	79%
Scan ID	Scan id 13235	Sphere Geometry	2pi
Scan Name	FL135	Sphere Temp	23.84
Power	Battery Powered DUT, Power Not Monitored	Lumens	984.8

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8519		76.17		0.2938		0.2913		-0.0065		0.1989		0.4438	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
79	77	71	80	79	68	81	74	9	41	80	48	77	83

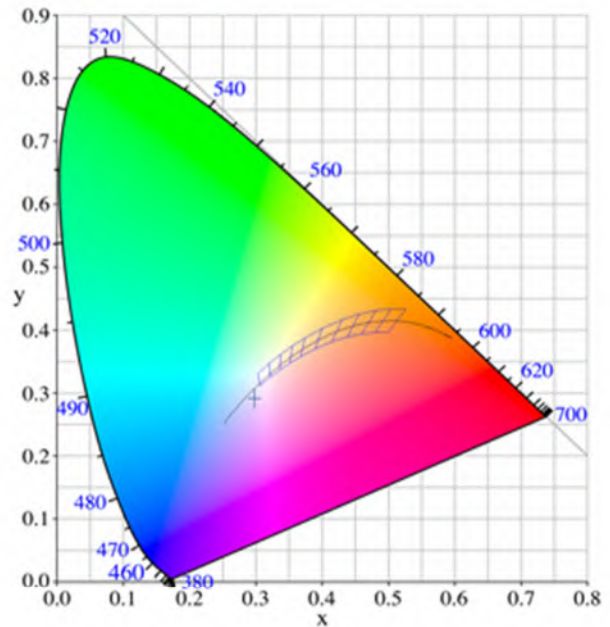
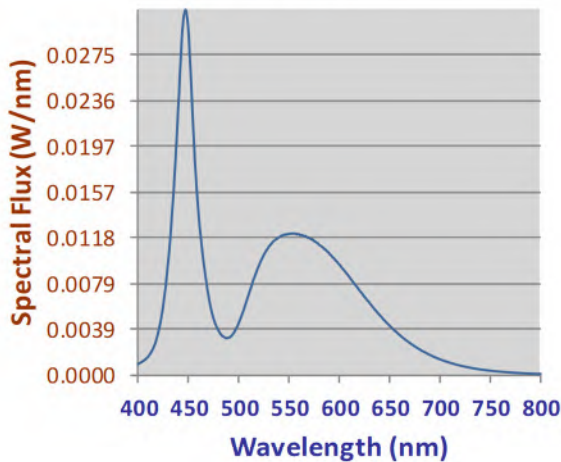
FL135 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL136		2/26/25	
Description	30 sec warmup	Test Time	11:25 AM
		Integration Time	978.6
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	78%
Notes	24.8C, 22%RH	Sphere Geometry	2pi
		Sphere Temp	24.25
Scan ID	Scan id 13174	Lumens	726.2
Scan Name	FL136		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8099		76.52		0.2984		0.2914		-0.0092		0.2023		0.4445	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80	78	70	81	80	67	81	75	16	42	80	47	78	82

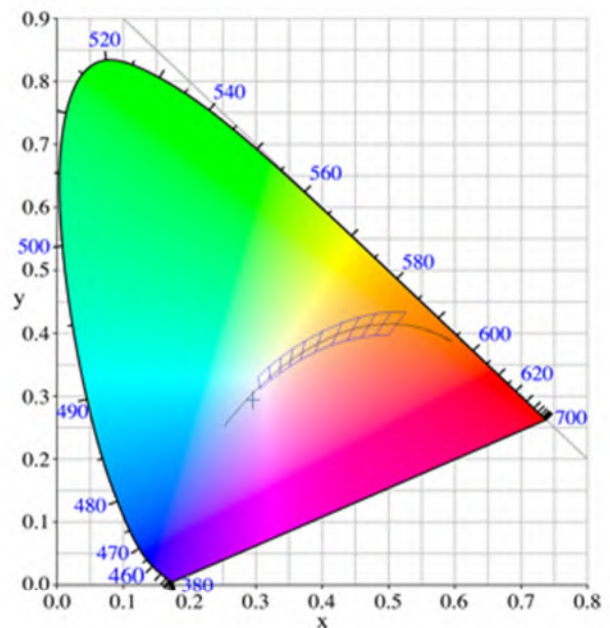
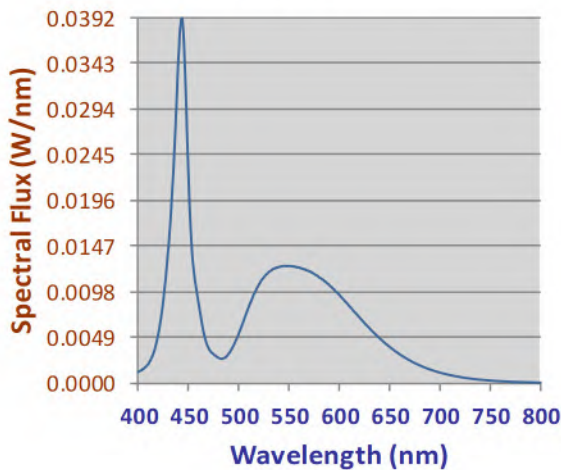
FL136 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL137		3/6/25	
Description	30 sec warmup	Test Time	2:09 PM
		Integration Time	831.7
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	24.1C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	23.65
Scan ID	Scan id 13209	Lumens	749.4
Scan Name	FL137		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8241		71.66		0.2960		0.2938		-0.0064		0.1995		0.4456	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
76	72	65	75	78	64	75	69	-1	30	79	47	73	80

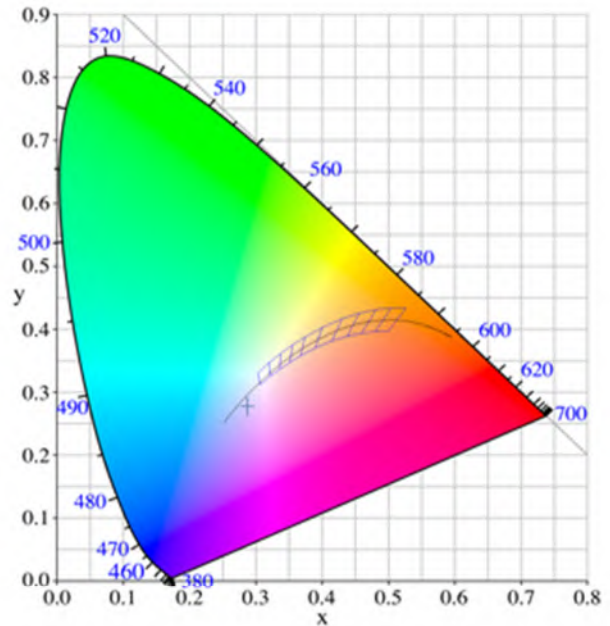
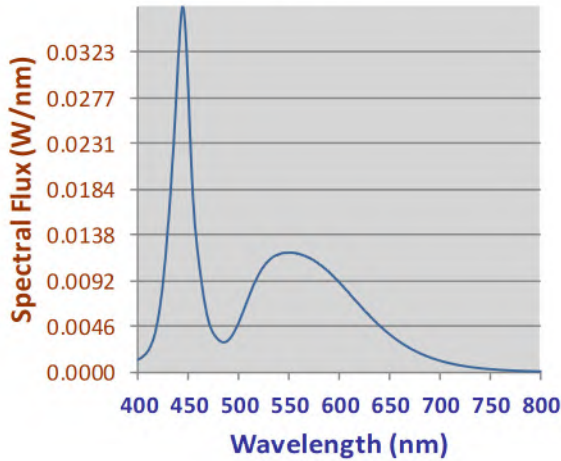
FL137 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL138		3/13/25	
Description	30 sec warmup	Test Time	1:04 PM
		Integration Time	866.4
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	78%
Notes	26.0C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	25.17
Scan ID	Scan id 13258	Lumens	719.9
Scan Name	FL138		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9783		73.92		0.2879		0.2777		-0.0104		0.2000		0.4341	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80	74	63	78	81	64	76	75	15	32	83	47	76	79

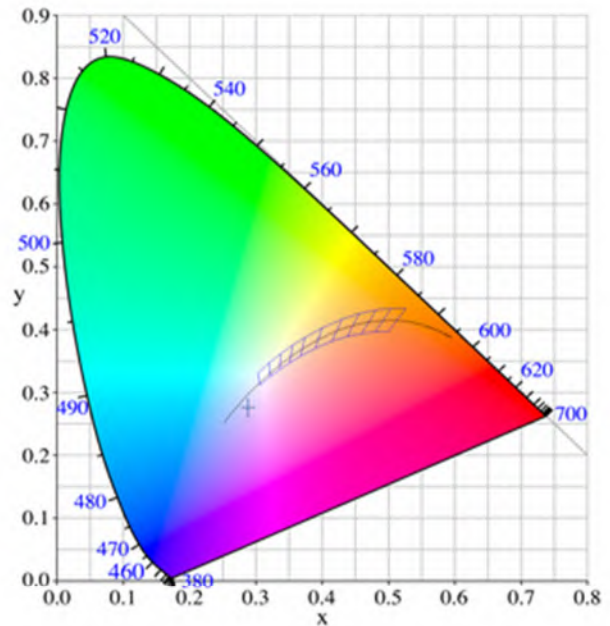
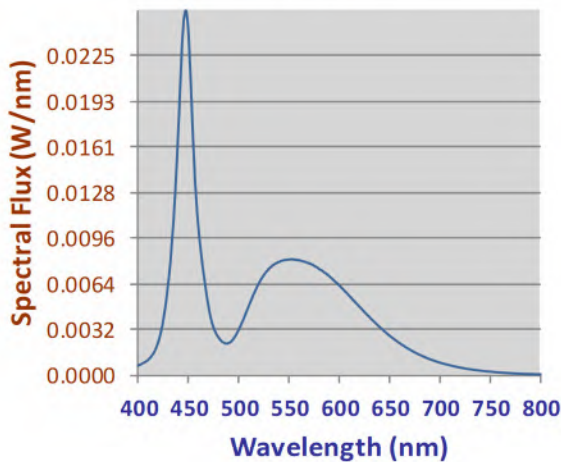
FL138 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL139		3/7/25	
Description	30 sec warmup	Test Time	2:57 PM
		Integration Time	1176.2
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	24.6C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	24.02
Scan ID	Scan id 13217	Lumens	490.7
Scan Name	FL139		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9764		77.46		0.2887		0.2762		-0.0118		0.2013		0.4333	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
83	78	67	83	82	67	81	79	27	41	84	45	80	81

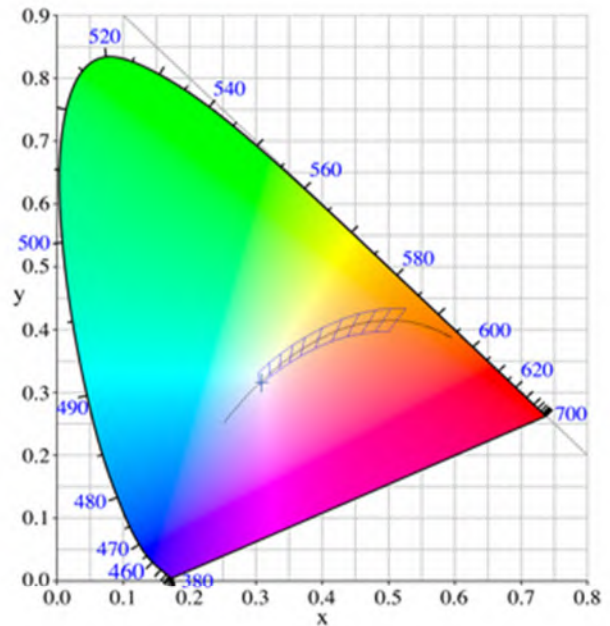
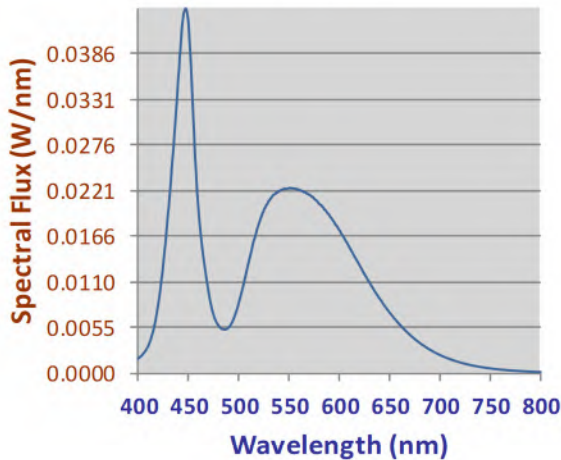
FL139 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL140		2/26/25	
Description	30 sec warmup	Test Time	8:18 AM
		Integration Time	691.7
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	78%
Notes	24.4C, 21%RH	Sphere Geometry	2pi
		Sphere Temp	24.02
Scan ID	Scan id 13172	Lumens	1331.8
Scan Name	FL140		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
6831		73.21		0.3091		0.3162		-0.0017		0.2002		0.4608	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
74	75	73	76	75	67	80	66	-11	38	75	47	73	85

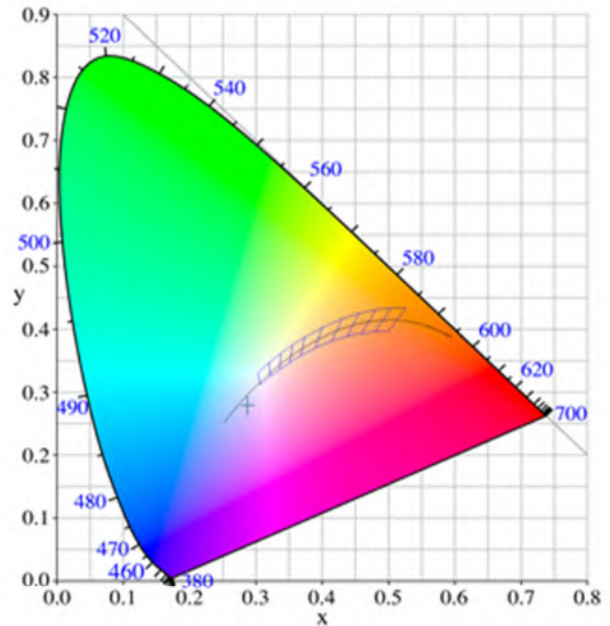
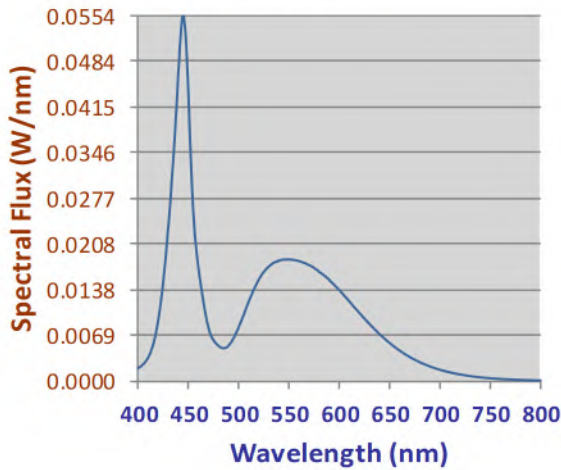
FL140 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL141		3/11/25	
Description	30 sec warmup	Test Time	12:45 PM
		Integration Time	582.1
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	25.6C 19%RH	Sphere Geometry	2pi
		Sphere Temp	24.94
Scan ID	Scan id 13226	Lumens	1104.1
Scan Name	FL141		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9747		74.21		0.2873		0.2794		-0.0091		0.1989		0.4352	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80	74	65	78	81	65	77	74	13	34	82	49	76	80

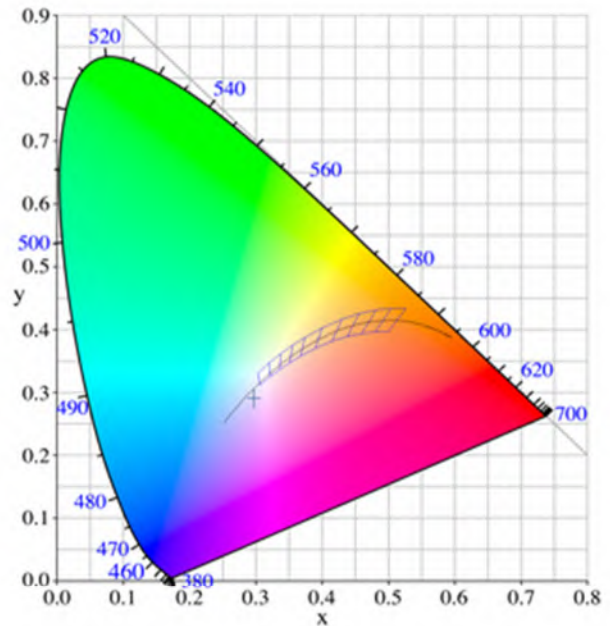
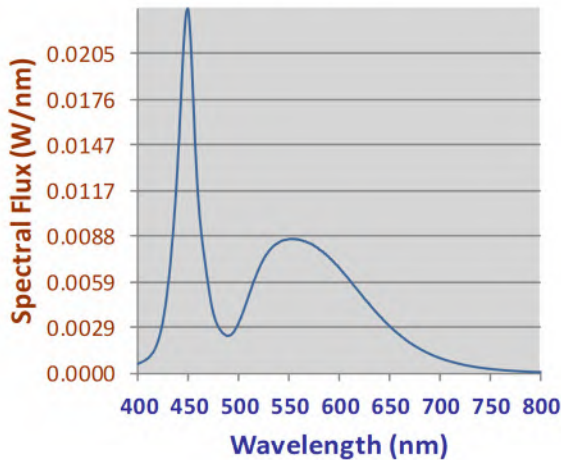
FL141 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL142		2/27/25	
Description	30 sec warmup	Test Time	10:01 AM
		Integration Time	1287.7
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	24.6C, 24%RH	Sphere Geometry	2pi
		Sphere Temp	24.01
Scan ID	Scan id 13185	Lumens	517.9
Scan Name	FL142		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8230		77.81		0.2971		0.2908		-0.0087		0.2016		0.4440	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81	79	72	82	80	69	83	76	18	45	80	46	79	84

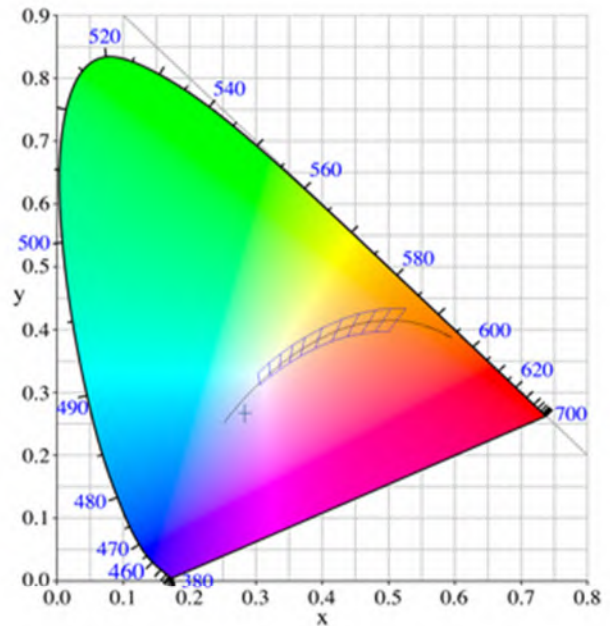
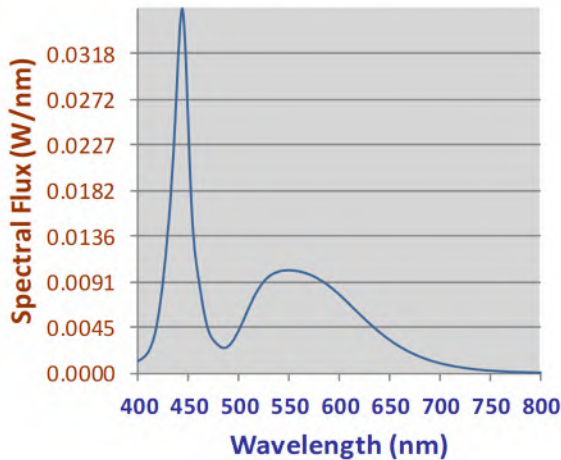
FL142 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL143		2/26/25	
Description	30 sec warmup	Test Time	11:11 AM
		Integration Time	876.3
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	24.8C, 22%RH	Sphere Geometry	2pi
		Sphere Temp	24.22
Scan ID	Scan id 13173	Lumens	616.3
Scan Name	FL143		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
11179		73.68		0.2838		0.2668		-0.0140		0.2015		0.4262	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
83	73	59	78	83	63	75	77	27	29	85	48	77	76

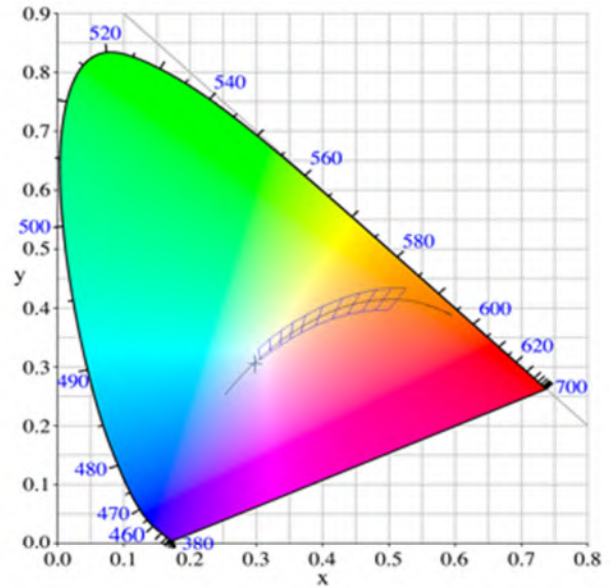
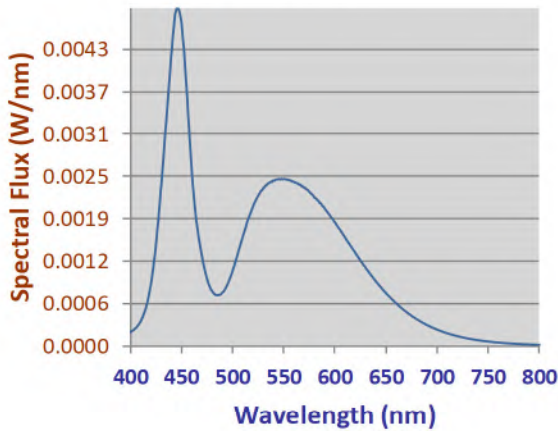
FL143 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL144		3/17/25	
Description	30 sec warmup	Test Time	2:08 PM
Orientation	Horizontal	Integration Time	5121.5
Test by	DW	Scans Averaged	3
Notes	25.8C, 18%RH	Saturation	64%
Scan ID	Scan id 13285	Sphere Geometry	2pi
Scan Name	FL144	Sphere Temp	24.9
Power	Battery Powered DUT, Power Not Monitored	Lumens	145.5

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
7761		74.90		0.2980		0.3057		-0.0011		0.1963		0.4531	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
75	77	74	78	77	68	81	69	-6	41	77	50	75	85

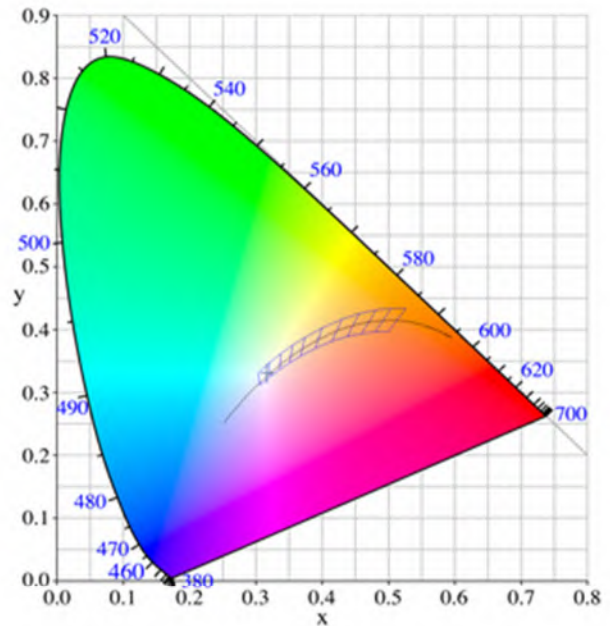
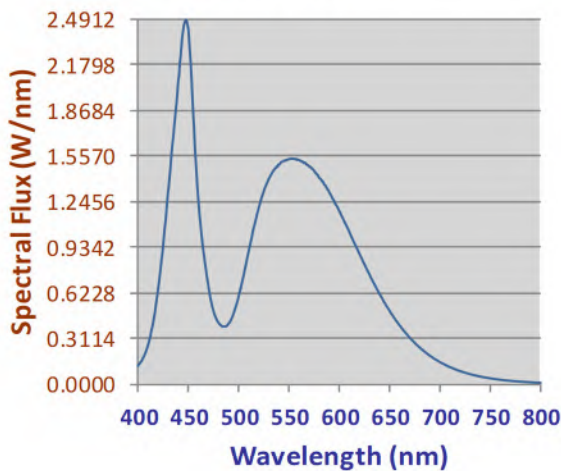
FL144 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL145		2/27/25	
Description	30 sec warmup	Test Time	12:19 PM
		Integration Time	11
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	80%
Notes	24.8C, 24%RH	Sphere Geometry	2pi
		Sphere Temp	25.45
Scan ID	Scan id 13191	Lumens	90901.4
Scan Name	FL145		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
6283		72.13		0.3167		0.3306		0.0021		0.2000		0.4698	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
71	75	76	74	72	67	80	62	-22	39	72	48	70	86

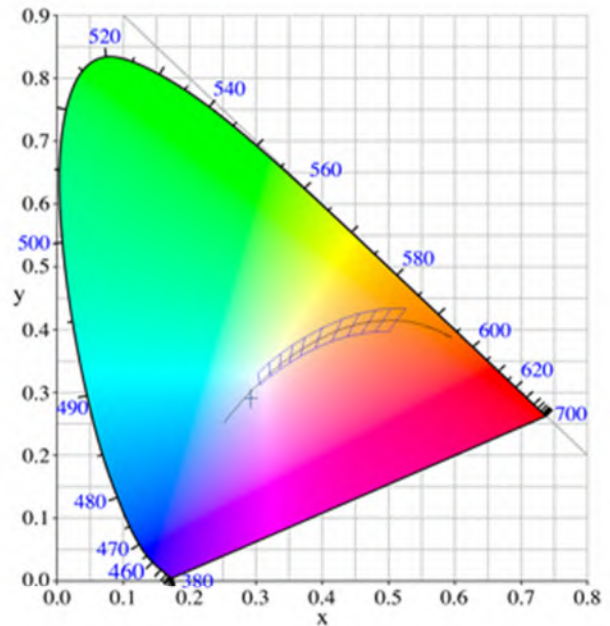
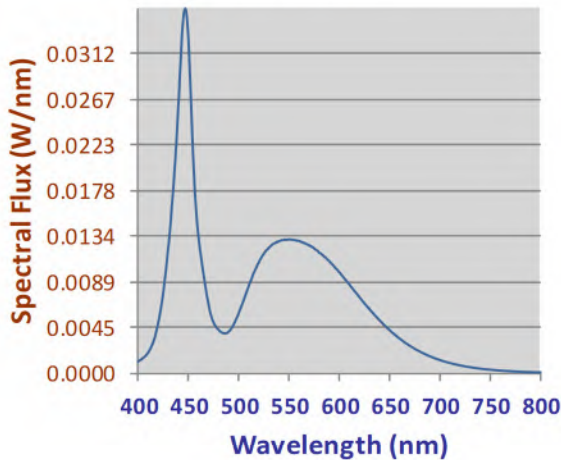
FL145 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL146		2/26/25	
Description	30 sec warmup	Test Time	12:08 PM
		Integration Time	893.9
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	80%
Notes	24.8C, 22%RH	Sphere Geometry	2pi
		Sphere Temp	24.36
Scan ID	Scan id 13178	Lumens	783.2
Scan Name	FL146		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8679		75.78		0.2924		0.2905		-0.0061		0.1982		0.4431	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
79	77	70	80	79	68	80	73	8	40	81	49	77	83

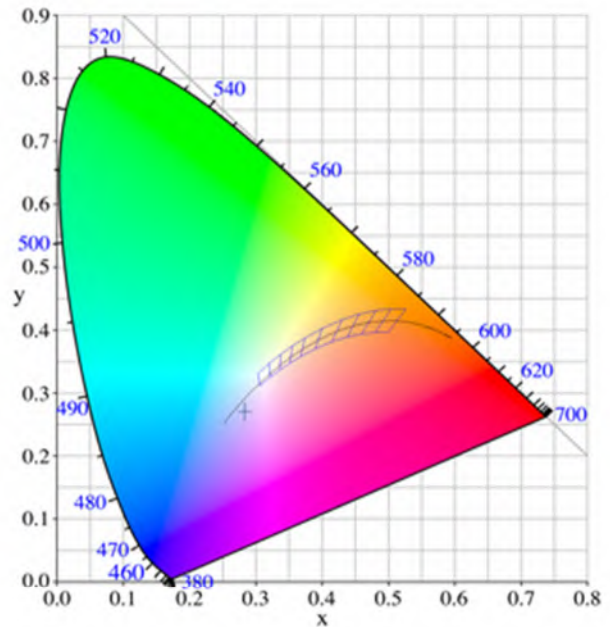
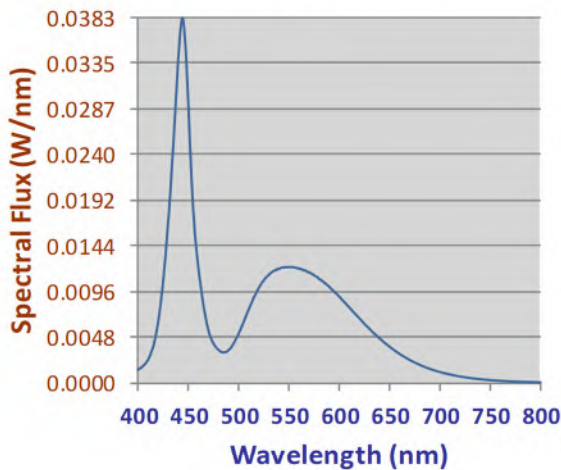
FL146 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL147		2/25/25	
Description	30 sec warmup	Test Time	10:29 AM
		Integration Time	825.6
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	24.6C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	23.98
Scan ID	Scan id 13161	Lumens	725.9
Scan Name	FL147		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
10926		73.94		0.2834		0.2702		-0.0118		0.1998		0.4285	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81	73	61	79	82	64	76	76	20	31	84	48	76	78

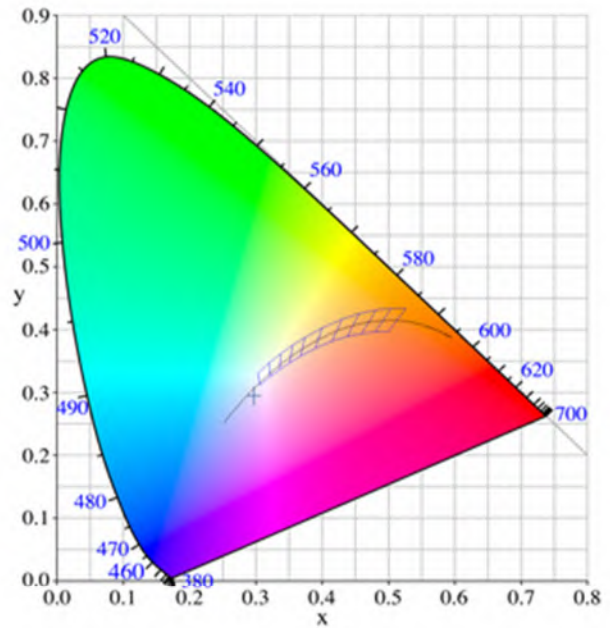
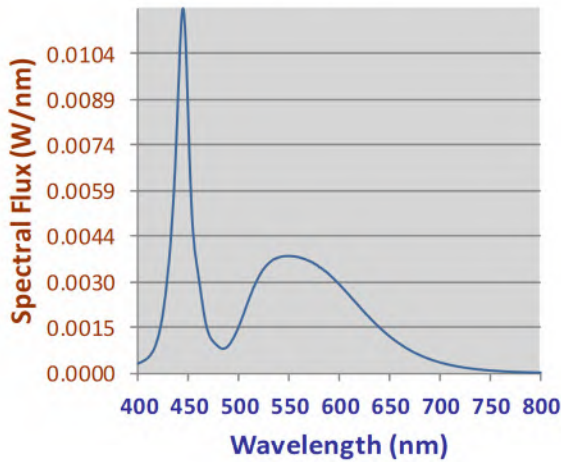
FL147 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL148		2/28/25	
Description	30 sec warmup	Test Time	8:45 AM
		Integration Time	2709.9
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	24.9C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	24.25
Scan ID	Scan id 13198	Lumens	226.3
Scan Name	FL148		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8129		72.77		0.2970		0.2945		-0.0066		0.2000		0.4462	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
77	73	67	76	78	64	77	71	1	33	79	45	74	81

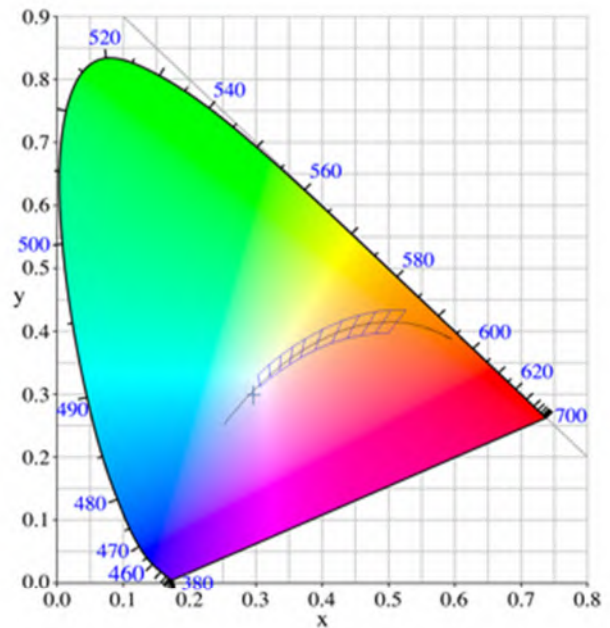
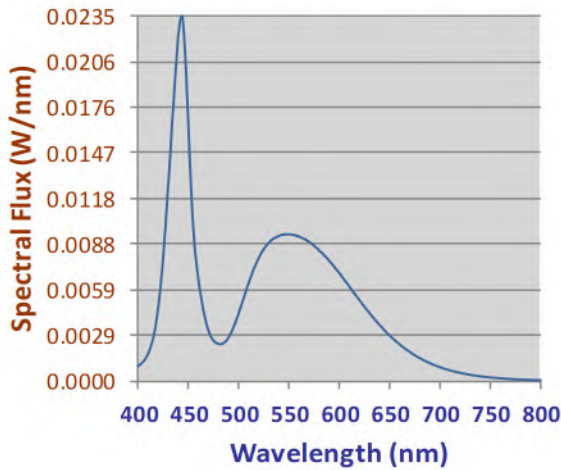
FL148 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL149		3/7/25	
Description	30 sec warmup	Test Time	11:00 AM
		Integration Time	1337.7
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	76%
Notes	24.4C, 19%RH	Sphere Geometry	2pi
		Sphere Temp	23.85
Scan ID	Scan id 13211	Lumens	561.1
Scan Name	FL149		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8054		72.17		0.2964		0.2990		-0.0038		0.1978		0.4489	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
75	73	68	75	77	65	76	69	-5	33	78	50	73	82

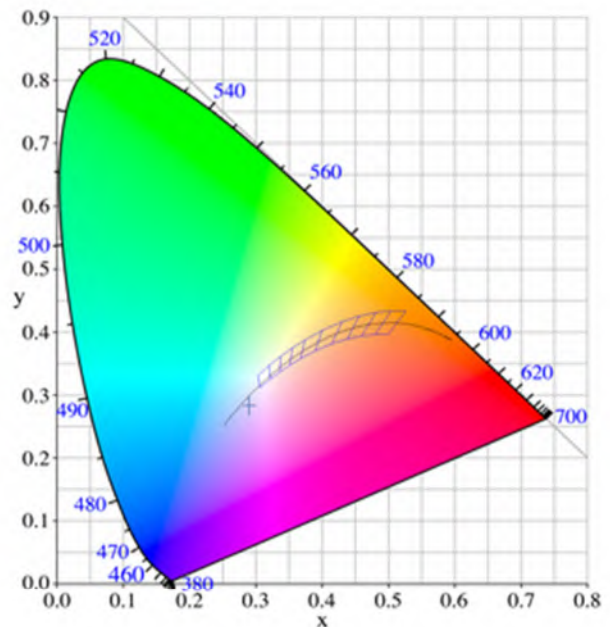
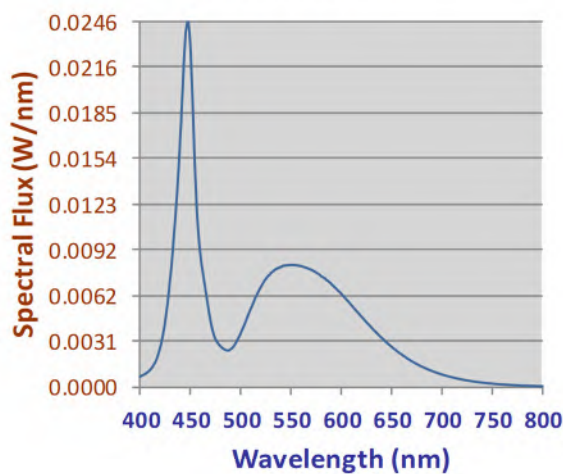
FL149 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL150		2/25/25	
Description	30 sec warmup	Test Time	10:45 AM
		Integration Time	1205.9
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	76%
Notes	24.7C, 21%RH	Sphere Geometry	2pi
		Sphere Temp	24.03
Scan ID	Scan id 13162	Lumens	496.7
Scan Name	FL150		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9197		76.62		0.2901		0.2838		-0.0084		0.1992		0.4385	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81	77	69	81	81	68	81	76	16	41	82	48	78	82

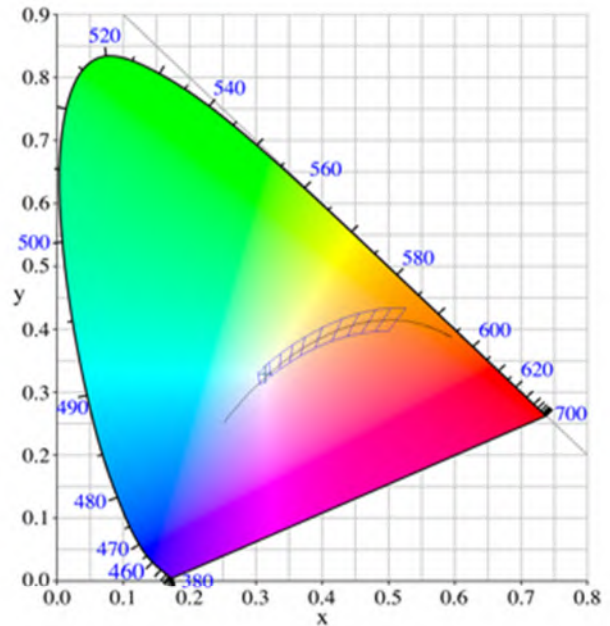
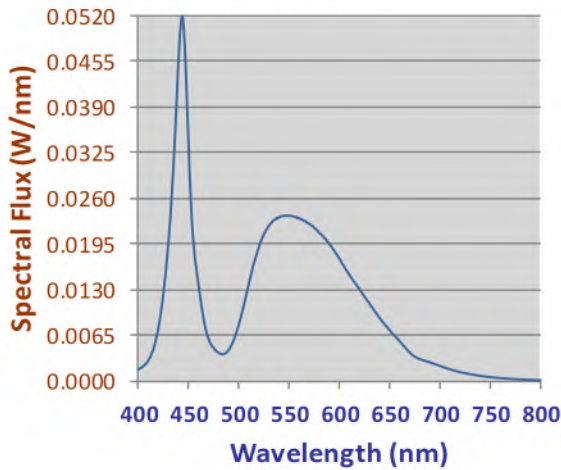
FL150 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL151		3/13/25	
Description	30 sec warmup	Test Time	1:23 PM
		Integration Time	607
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	26.0C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	25.35
Scan ID	Scan id 13259	Lumens	1370.7
Scan Name	FL151		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
6388		68.56		0.3149		0.3290		0.0021		0.1994		0.4686	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
69	71	71	71	70	62	75	61	-29	29	71	41	67	83

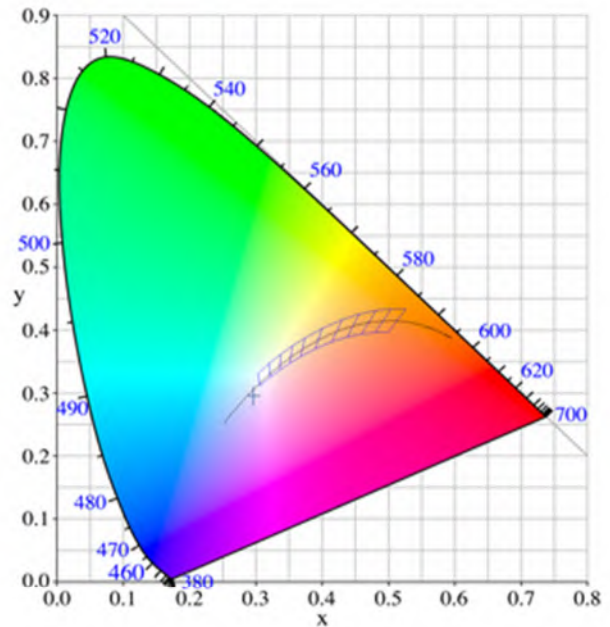
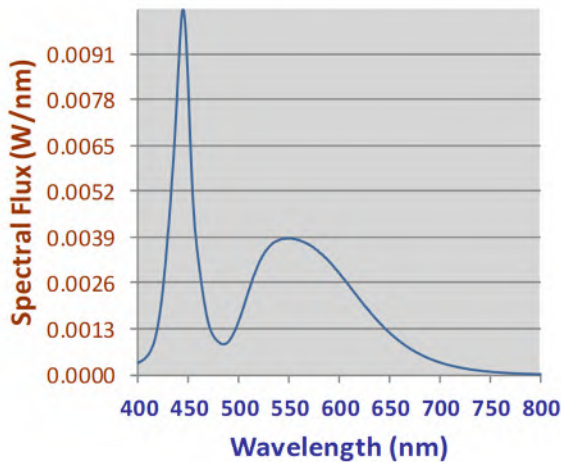
FL151 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL152		2/27/25	
Description	30 sec warmup	Test Time	10:08 AM
		Integration Time	3113.2
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	80%
Notes	24.6C, 24%RH	Sphere Geometry	2pi
		Sphere Temp	24.03
Scan ID	Scan id 13186	Lumens	228.9
Scan Name	FL152		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8104		72.50		0.2968		0.2961		-0.0056		0.1992		0.4471	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
76	73	67	76	77	64	77	70	-3	33	78	46	73	81

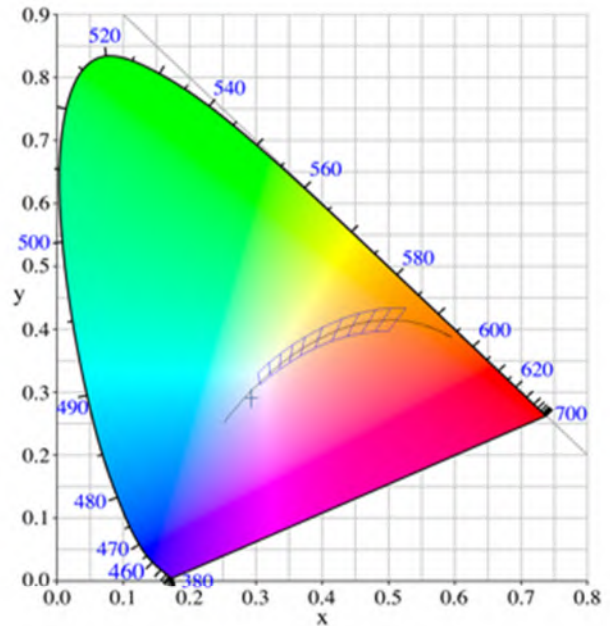
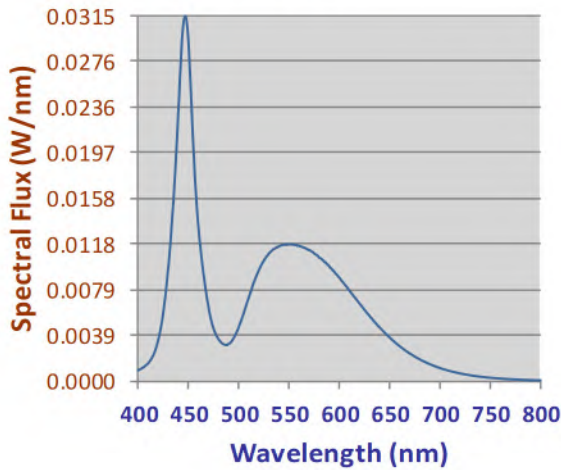
FL152 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL153		2/28/25	
Description	30 sec warmup	Test Time	8:55 AM
		Integration Time	997.6
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	24.9C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	24.29
Scan ID	Scan id 13199	Lumens	704.1
Scan Name	FL153		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8573		75.46		0.2935		0.2905		-0.0068		0.1991		0.4432	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
79	76	70	80	79	67	81	73	7	39	80	46	77	83

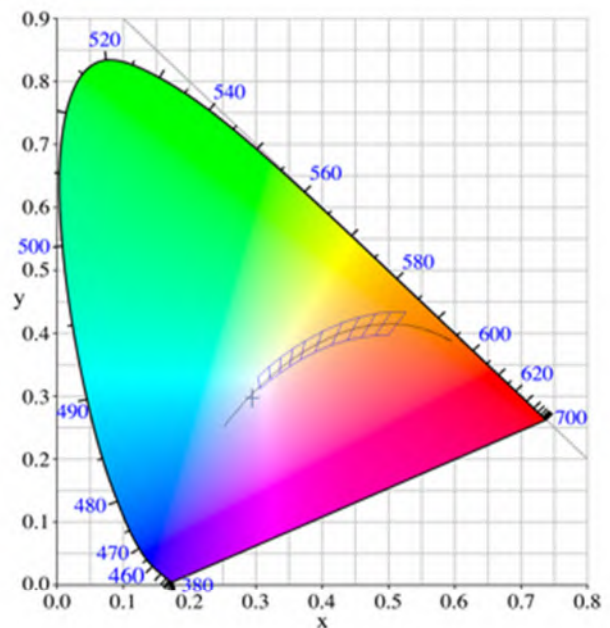
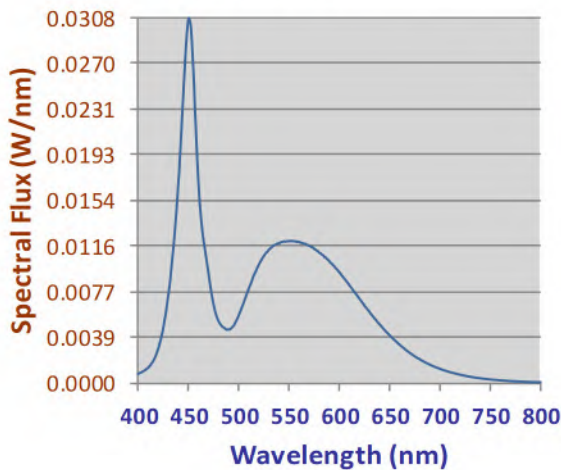
FL153 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL154		3/7/25	
Description	30 sec warmup	Test Time	2:23 PM
		Integration Time	964.1
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	24.6C, 19%RH	Sphere Geometry	2pi
		Sphere Temp	23.89
Scan ID	Scan id 13214	Lumens	734.3
Scan Name	FL154		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8229		79.35		0.2948		0.2975		-0.0036		0.1972		0.4477	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80	82	79	82	80	73	86	74	10	53	80	50	80	88

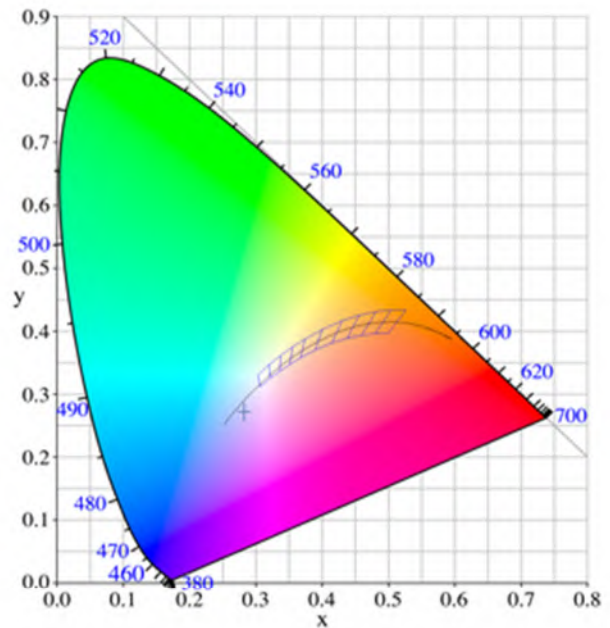
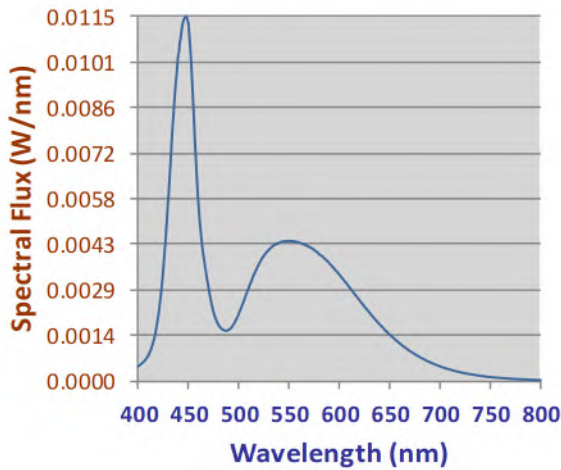
FL154 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL155		3/7/25	
Description	30 sec warmup	Test Time	10:52 AM
		Integration Time	2367
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	70%
Notes	24.4C, 19%RH	Sphere Geometry	2pi
		Sphere Temp	23.86
Scan ID	Scan id 13210	Lumens	269.4
Scan Name	FL155		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
10818		78.02		0.2830		0.2723		-0.0103		0.1985		0.4298	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
83	78	68	83	83	69	81	79	27	42	85	53	80	82

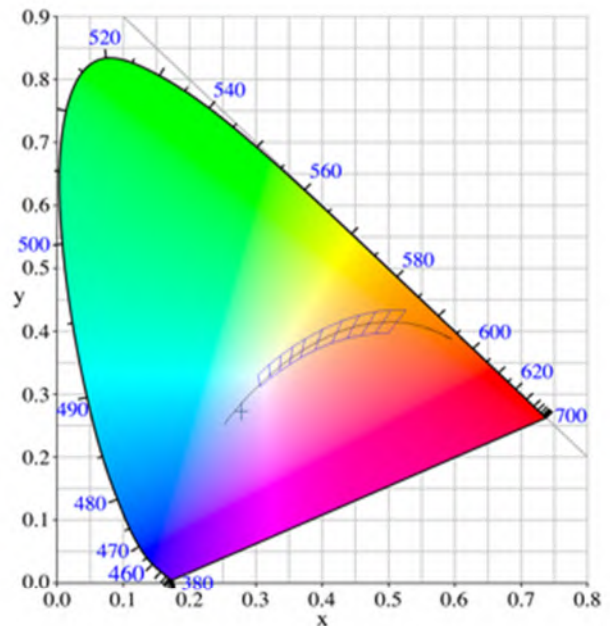
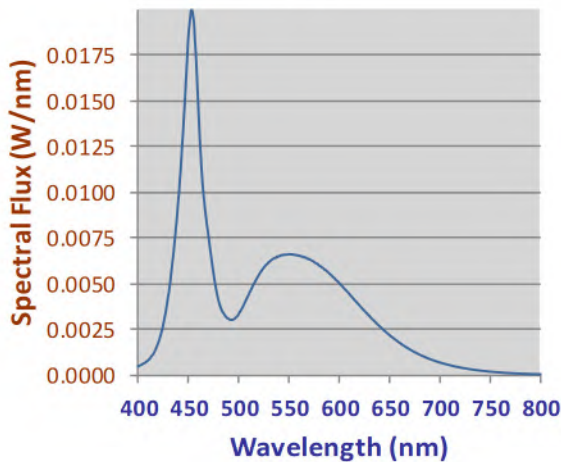
FL155 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL156		2/25/25	
Description	30 sec warmup	Test Time	3:00 PM
		Integration Time	1395.6
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	75%
Notes	25.3C, 21%RH	Sphere Geometry	2pi
		Sphere Temp	24.93
Scan ID	Scan id 13168	Lumens	408.0
Scan Name	FL156		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
11457		82.66		0.2783		0.2729		-0.0068		0.1947		0.4295	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
84	86	80	85	82	75	89	80	30	60	81	50	85	88

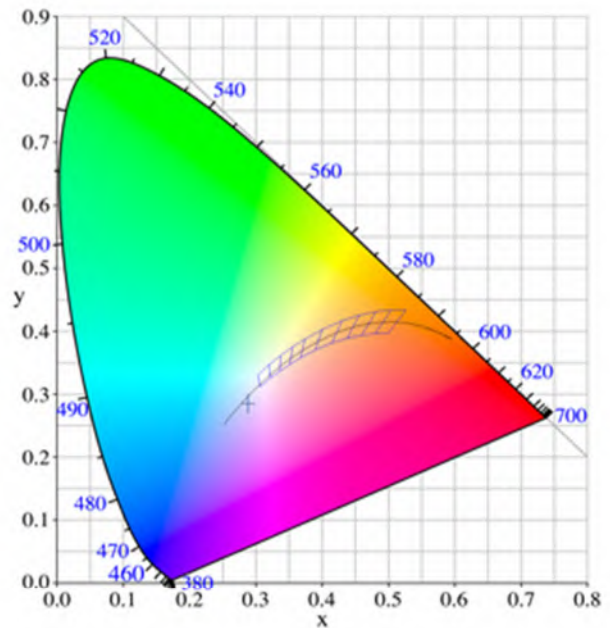
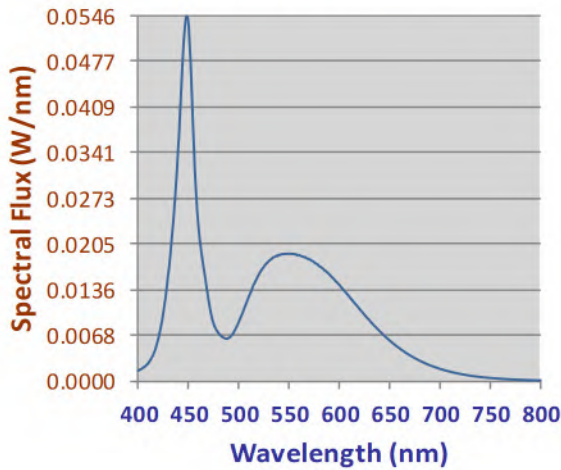
FL156 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL157		2/27/25	
Description	30 sec warmup	Test Time	9:54 AM
		Integration Time	557.9
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	78%
Notes	24.6C, 24%RH	Sphere Geometry	2pi
		Sphere Temp	24
Scan ID	Scan id 13184	Lumens	1151.6
Scan Name	FL157		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9343		77.48		0.2881		0.2852		-0.0063		0.1971		0.4391	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80	79	72	82	80	69	83	75	13	44	81	48	79	84

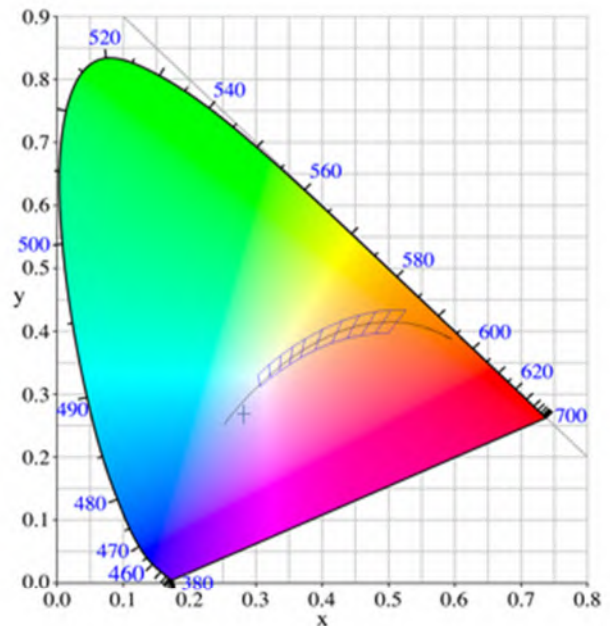
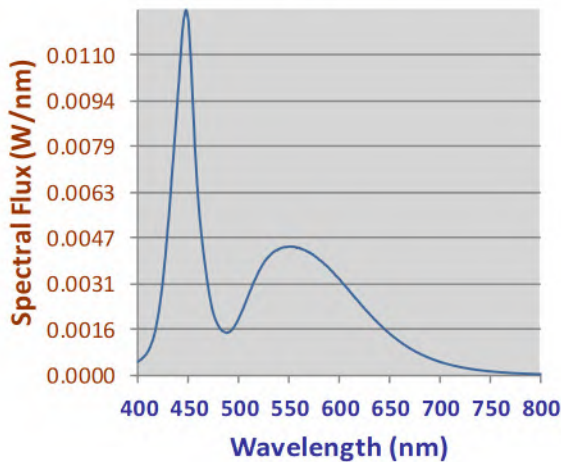
FL157 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL158		3/7/25	
Description	30 sec warmup	Test Time	2:33 PM
		Integration Time	2402
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	24.6C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	23.93
Scan ID	Scan id 13215	Lumens	264.6
Scan Name	FL158		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
11328		77.44		0.2815		0.2691		-0.0111		0.1987		0.4274	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
83	77	67	83	82	67	81	79	27	40	85	49	80	81

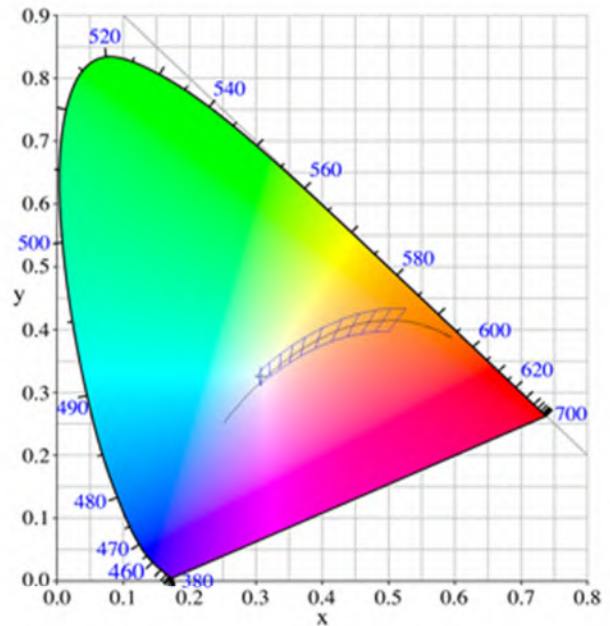
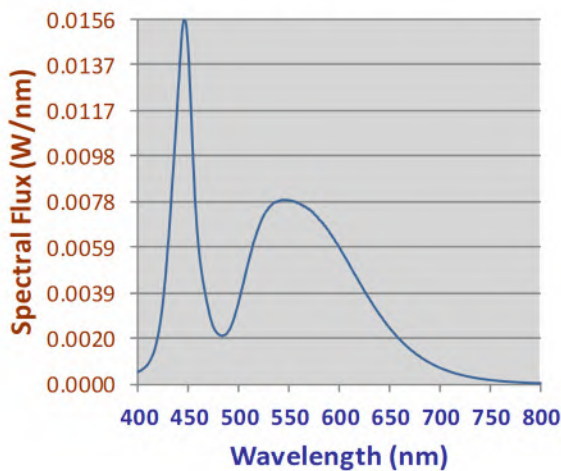
FL158 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL159		2/27/25	
Description	30 sec warmup	Test Time	2:55 PM
		Integration Time	1946.9
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	25.3C, 24%RH	Sphere Geometry	2pi
		Sphere Temp	24.79
Scan ID	Scan id 13195	Lumens	468.4
Scan Name	FL159		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
6796		72.18		0.3079		0.3260		0.0041		0.1956		0.4660	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
71	74	76	74	73	67	80	63	-24	38	73	47	70	86

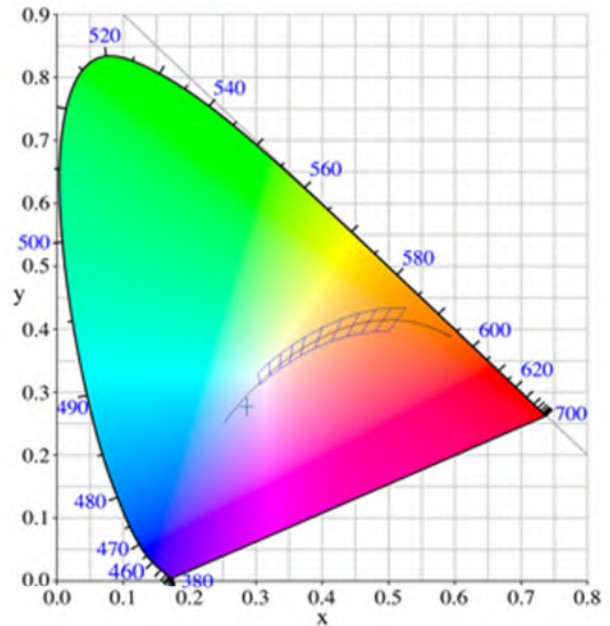
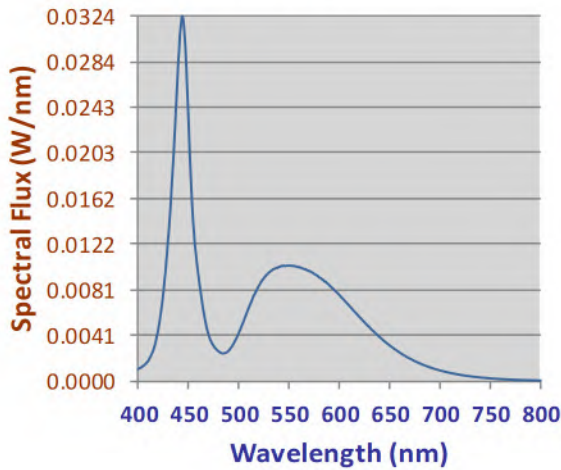
FL159 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL160		3/6/25	
Description	30 sec warmup	Test Time	2:04 PM
		Integration Time	1011.4
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	80%
Notes	24.1C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	23.61
Scan ID	Scan id 13208	Lumens	610.5
Scan Name	FL160		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9893		73.29		0.2872		0.2773		-0.0102		0.1996		0.4338	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80	73	63	77	80	64	76	74	13	31	82	47	75	78

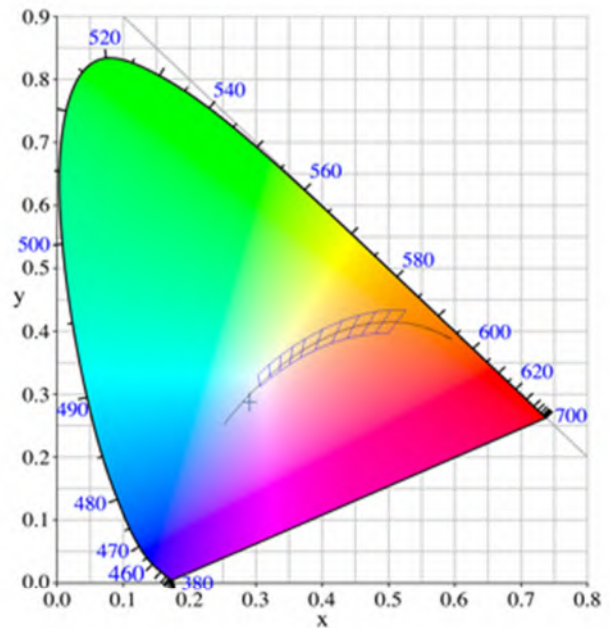
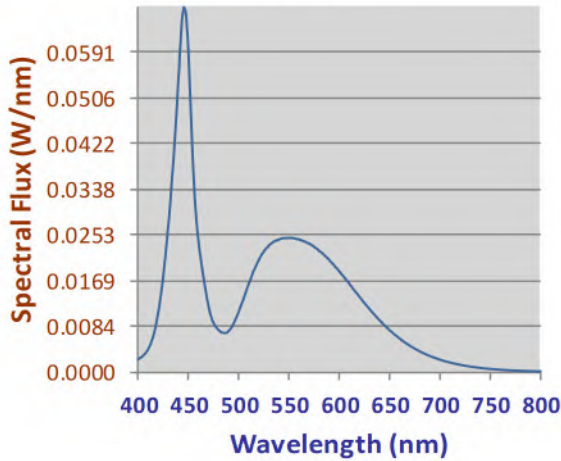
FL160 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL162		3/6/25	
Description	30 sec warmup	Test Time	1:52 PM
		Integration Time	464.9
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	24.0C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	23.54
Scan ID	Scan id 13207	Lumens	1490.3
Scan Name	FL162		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8967		74.99		0.2907		0.2876		-0.0066		0.1981		0.4410	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
79	75	69	79	79	67	79	73	7	38	81	49	76	82

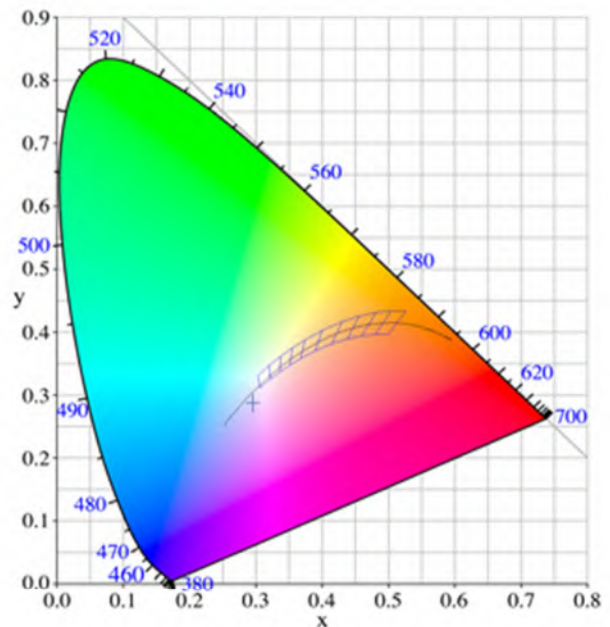
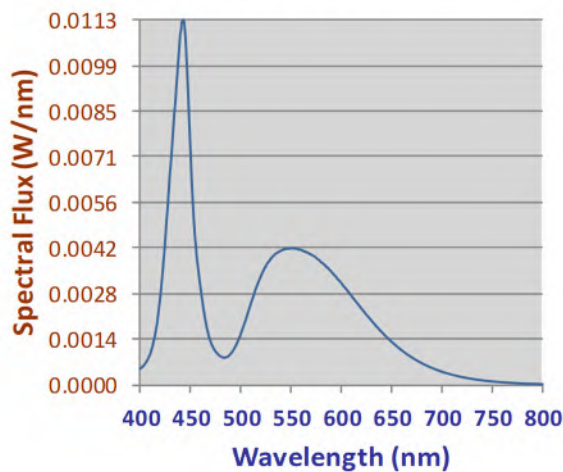
FL162 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL163		2/25/25	
Description	30 sec warmup	Test Time	3:04 PM
		Integration Time	2810.2
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	25.7C, 21%RH	Sphere Geometry	2pi
		Sphere Temp	24.95
Scan ID	Scan id 13169	Lumens	248.1
Scan Name	FL163		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8484		70.96		0.2954		0.2880		-0.0093		0.2015		0.4419	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
77	71	62	74	78	62	73	70	5	27	80	47	73	78

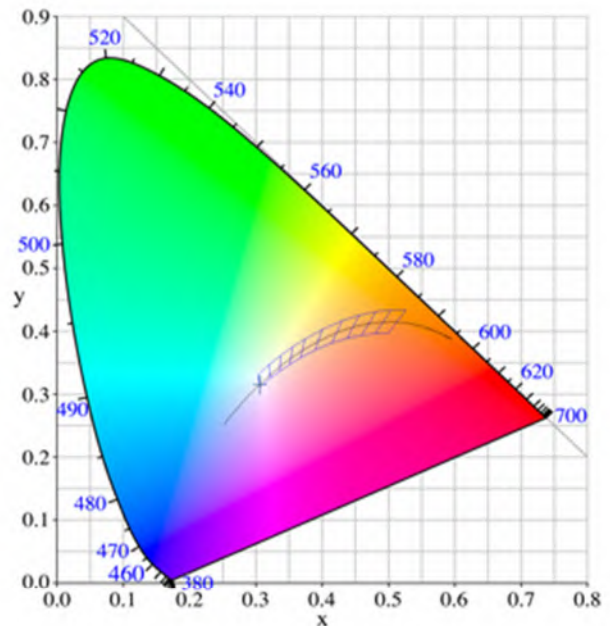
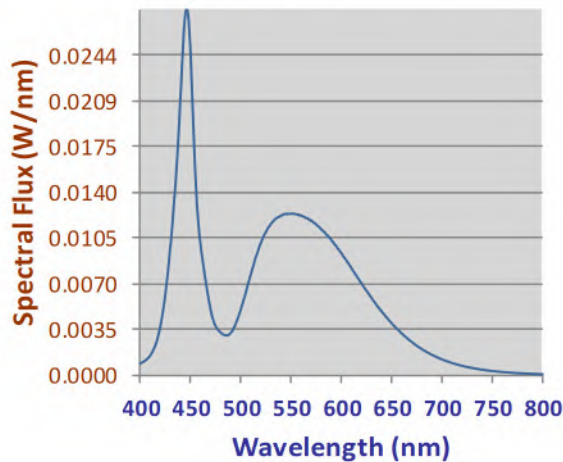
FL163 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL164		2/25/25	
Description	30 sec warmup	Test Time	2:14 PM
		Integration Time	839.9
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	60%
Notes	25.3C, 21%RH	Sphere Geometry	2pi
		Sphere Temp	24.68
Scan ID	Scan id 13166	Lumens	731.5
Scan Name	FL164		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



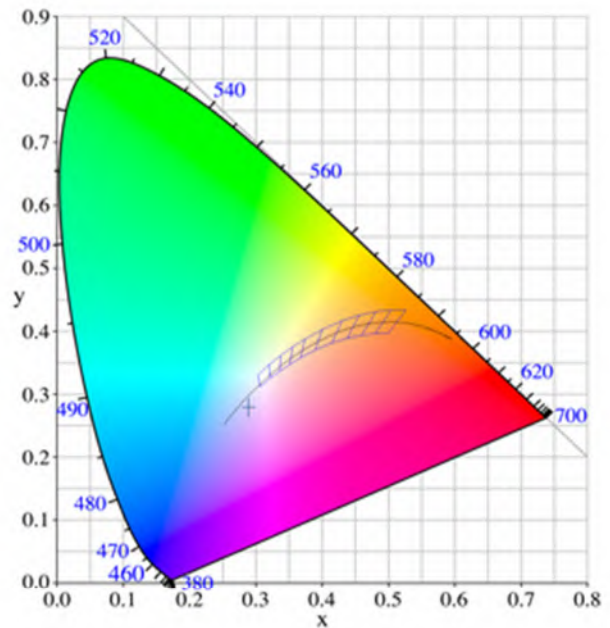
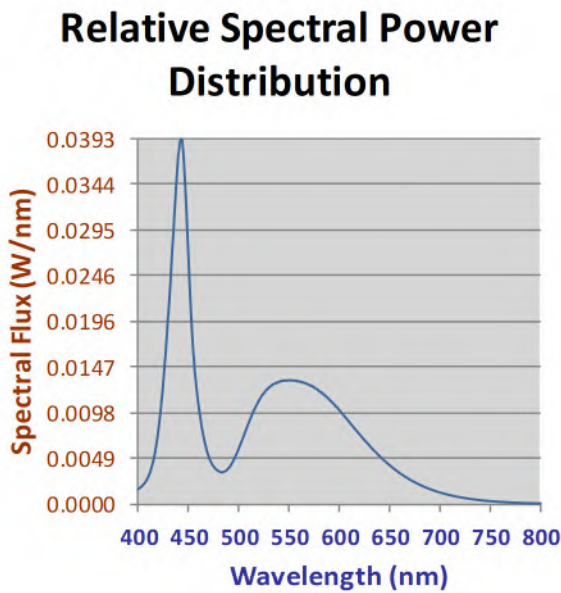
CCT		CRI		x		y		Duv		u'		v'	
7013		72.96		0.3064		0.3153		-0.0007		0.1986		0.4599	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
73	75	73	76	75	66	79	66	-12	38	75	46	72	85

FL164 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL165		3/11/25	
Description	30 sec warmup	Test Time	8:56 AM
		Integration Time	817.9
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	78%
Notes	25.1C 19%RH	Sphere Geometry	2pi
		Sphere Temp	24.51
Scan ID	Scan id 13219	Lumens	799.8
Scan Name	FL165		
Power	Battery Powered DUT, Power Not Monitored		



CCT		CRI		x		y		Duv		u'		v'	
9574		73.08		0.2888		0.2793		-0.0101		0.2001		0.4354	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80	73	63	77	81	64	75	73	12	31	83	50	75	79

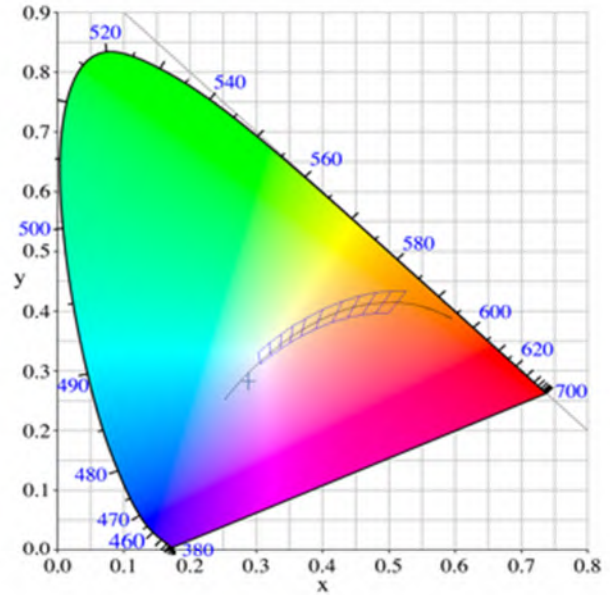
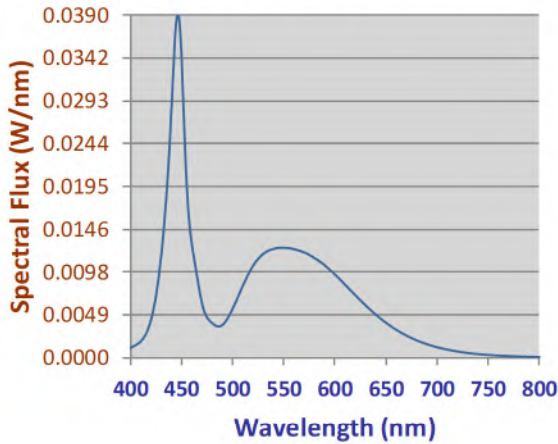
FL165 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE250113 FL166				3/14/25	
Description	30 sec warmup			Test Time	8:51 AM
				Integration Time	813.2
Orientation	Horizontal			Scans Averaged	3
Test by	DW			Saturation	80%
Notes	26.0C, 20%RH			Sphere Geometry	2pi
				Sphere Temp	25.07
Scan ID	Scan id 13263			Lumens	754.1
Scan Name	FL166				
Power	Battery Powered DUT, Power Not Monitored				

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9445		75.72		0.2885		0.2824		-0.0081		0.1985		0.4373	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80	76	68	80	80	67	80	75	13	38	82	47	77	82

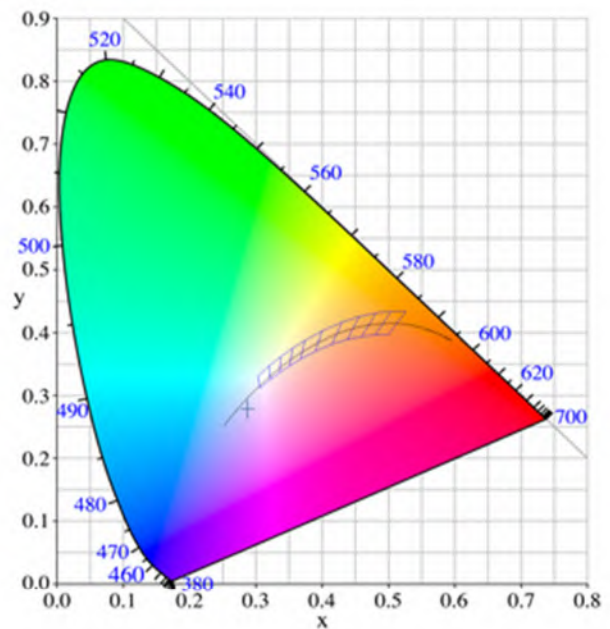
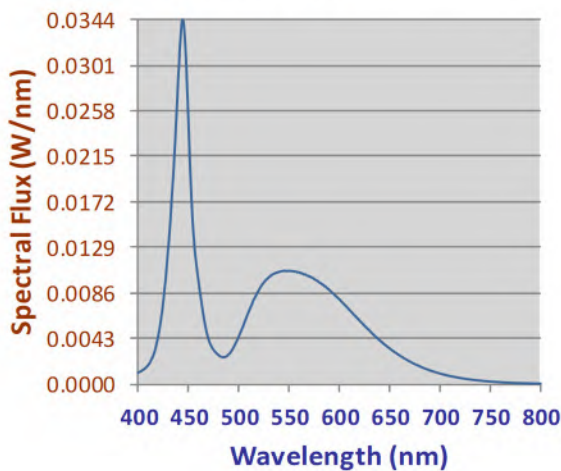
FL166 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL167		3/12/25	
Description	30 sec warmup	Test Time	8:34 AM
		Integration Time	721.7
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	61%
Notes	24.6C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	23.88
Scan ID	Scan id 13236	Lumens	639.2
Scan Name	FL167		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9753		73.60		0.2878		0.2783		-0.0100		0.1997		0.4346	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80	73	63	78	81	64	76	74	15	32	82	47	76	79

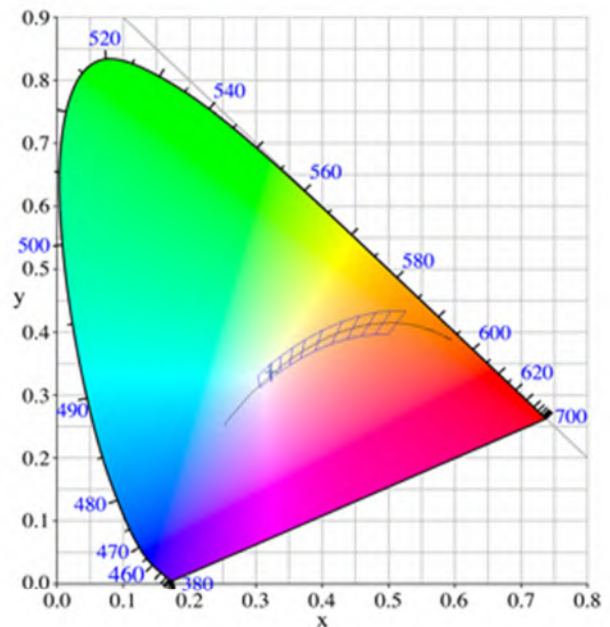
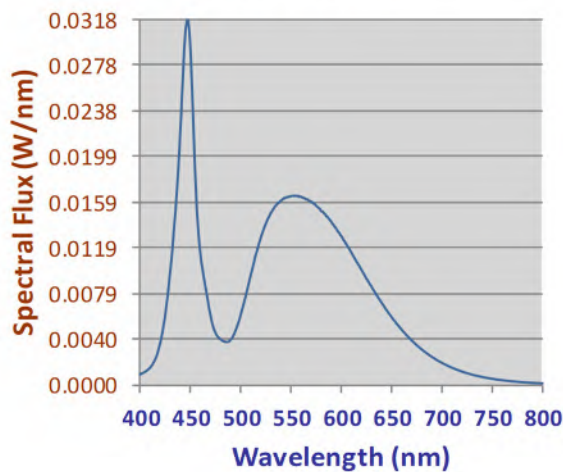
FL167 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL168		2/25/25	
Description	30 sec warmup	Test Time	3:24 PM
		Integration Time	987
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	25.7C, 21%RH	Sphere Geometry	2pi
		Sphere Temp	25.04
Scan ID	Scan id 13170	Lumens	975.0
Scan Name	FL168		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
5916		72.39		0.3235		0.3368		0.0019		0.2023		0.4740	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
71	75	76	74	72	66	80	63	-17	40	72	44	71	86

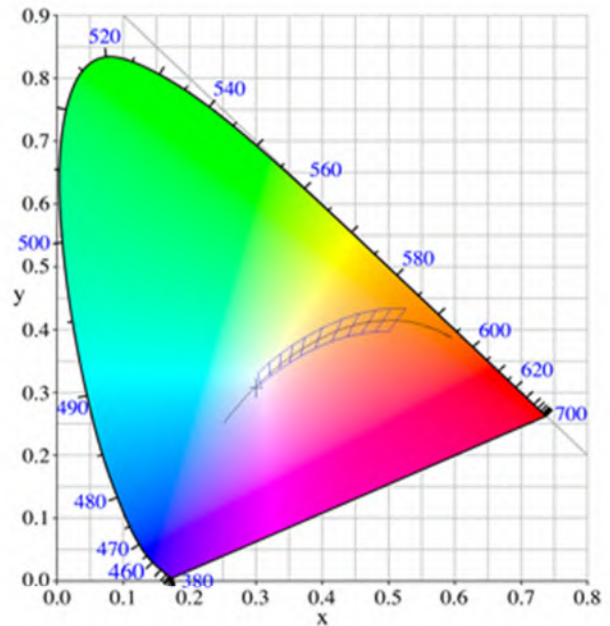
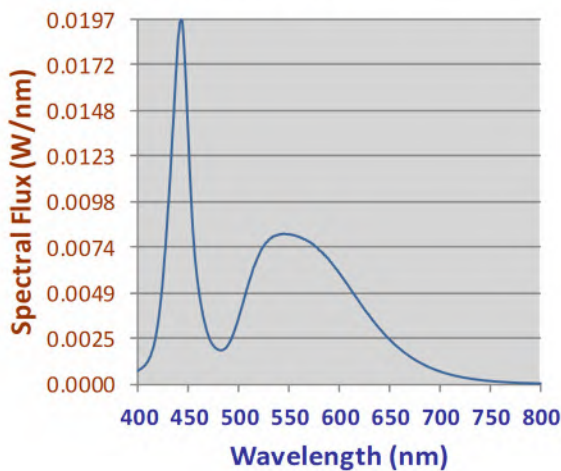
FL168 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL169		2/28/25	
Description	30 sec warmup	Test Time	9:01 AM
		Integration Time	1636.4
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	78%
Notes	24.9C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	24.29
Scan ID	Scan id 13200	Lumens	480.8
Scan Name	FL169		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
7554		71.02		0.3002		0.3080		-0.0012		0.1970		0.4547	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
73	72	69	74	75	64	75	65	-16	32	76	48	71	83

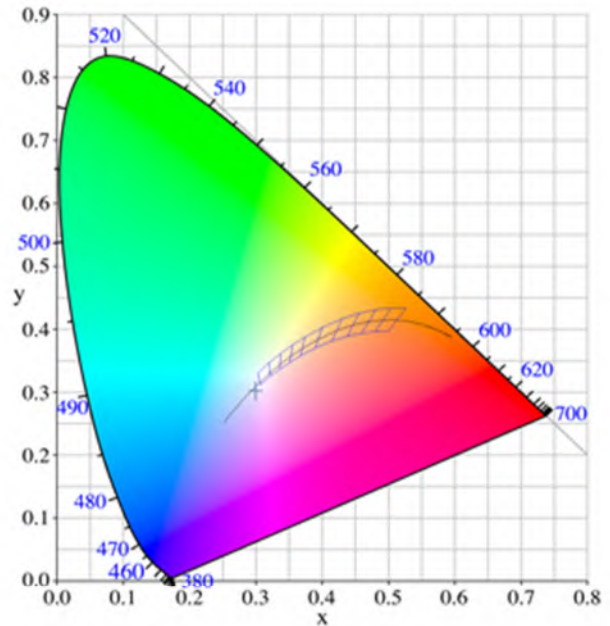
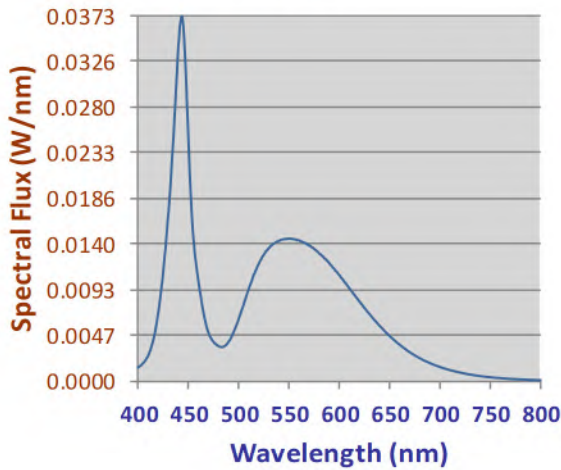
FL169 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL170		3/6/25	
Description	30 sec warmup	Test Time	12:09 PM
		Integration Time	875.7
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	23.5C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	23.05
Scan ID	Scan id 13206	Lumens	861.8
Scan Name	FL170		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
7706		72.11		0.2997		0.3023		-0.0039		0.1989		0.4514	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
75	73	68	75	77	65	76	68	-5	33	78	49	72	82

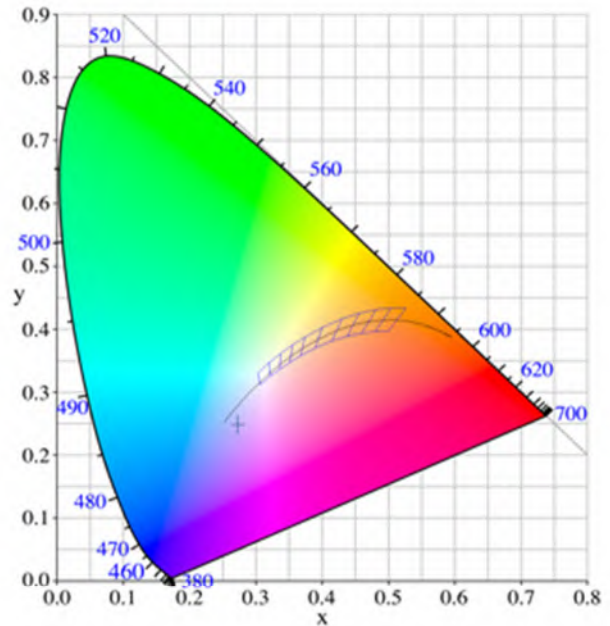
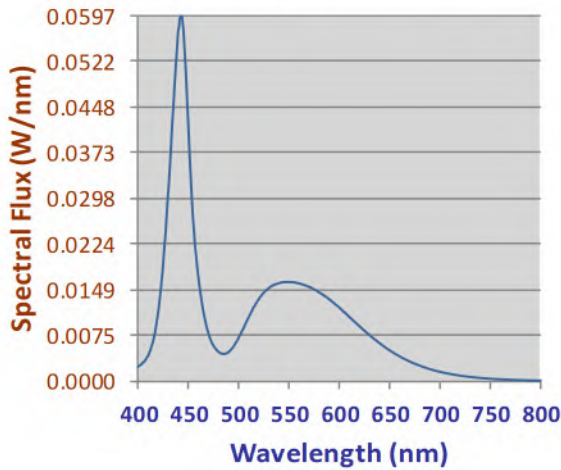
FL170 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL171		3/13/25	
Description	30 sec warmup	Test Time	8:46 AM
		Integration Time	516.6
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	74%
Notes	24.9C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	24
Scan ID	Scan id 13251	Lumens	971.7
Scan Name	FL171		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
17268		72.78		0.2725		0.2481		-0.0169		0.2007		0.4110	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
84	71	53	78	85	61	73	78	39	24	87	48	77	73

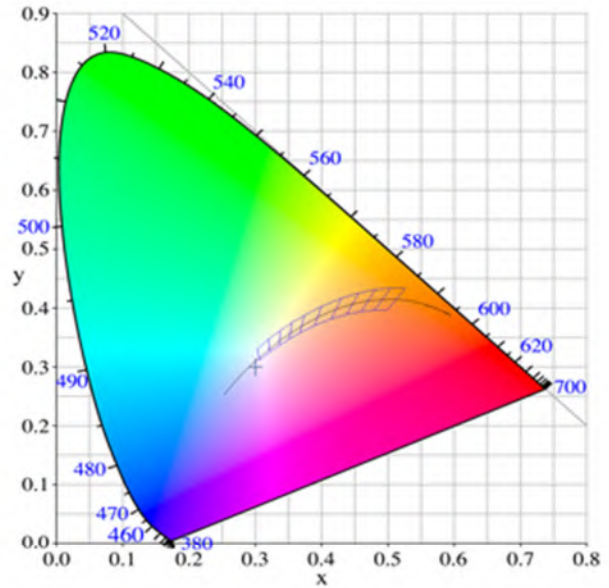
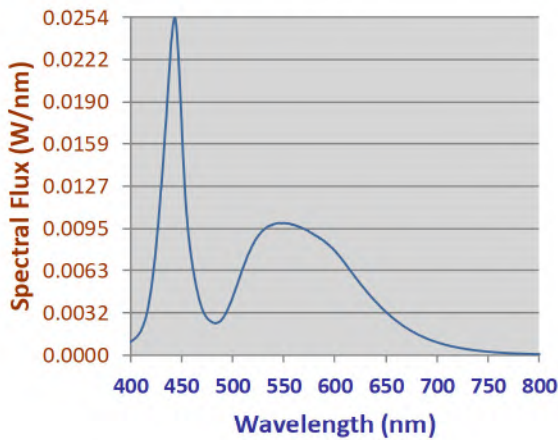
FL171 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL172		3/17/25	
Description	30 sec warmup	Test Time	9:07 AM
Orientation	Horizontal	Integration Time	1251.9
Test by	DW	Scans Averaged	3
Notes	26.2C, 18%RH	Saturation	77%
Scan ID	Scan id 13278	Sphere Geometry	2pi
Scan Name	FL172	Sphere Temp	25.34
Power	Battery Powered DUT, Power Not Monitored	Lumens	597.0

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
7698		73.36		0.3007		0.2994		-0.0061		0.2007		0.4498	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
78	74	68	76	79	66	76	70	1	35	80	51	75	82

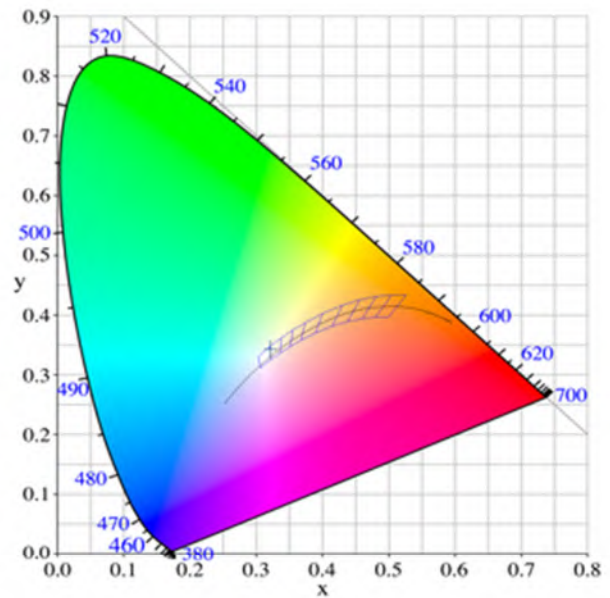
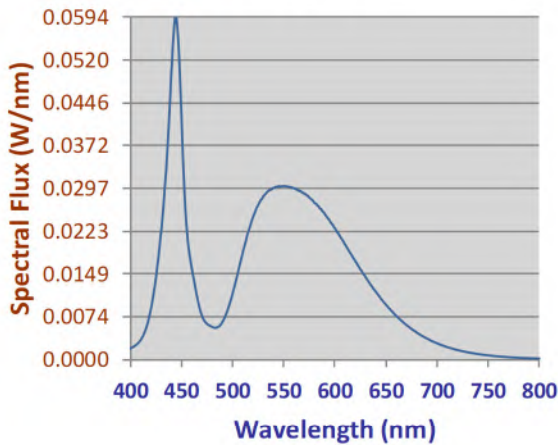
FL172 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE250113 FL173				3/14/25	
Description	30 sec warmup			Test Time	9:27 AM
				Integration Time	551.4
Orientation	Horizontal			Scans Averaged	3
Test by	DW			Saturation	80%
Notes	26.0C, 20%RH			Sphere Geometry	2pi
				Sphere Temp	25.25
Scan ID	Scan id 13266			Lumens	1768.5
Scan Name	FL173				
Power	Battery Powered DUT, Power Not Monitored				

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
5978		68.93		0.3218		0.3428		0.0058		0.1990		0.4768	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
67	71	74	71	69	63	77	59	-34	32	70	43	67	85

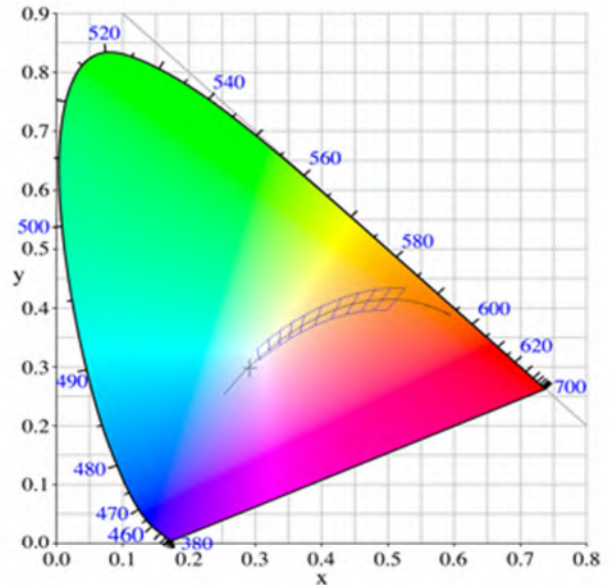
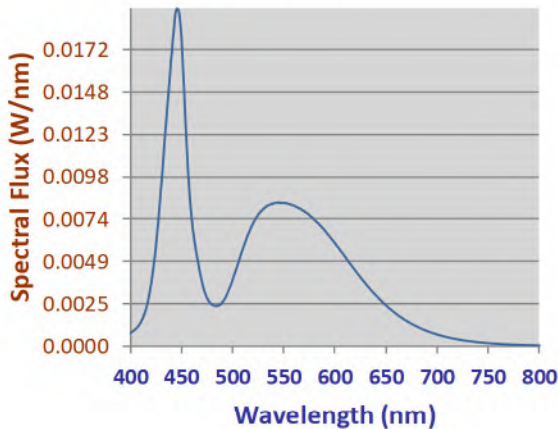
FL173 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL174		3/17/25	
Description	30 sec warmup	Test Time	8:08 AM
Orientation	Horizontal	Integration Time	1526.4
Test by	DW	Scans Averaged	3
Notes	26.5C, 20%RH	Saturation	76%
Scan ID	Scan id 13272	Sphere Geometry	2pi
Scan Name	FL174	Sphere Temp	25.68
Power	Battery Powered DUT, Power Not Monitored	Lumens	493.4

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8500		72.90		0.2916		0.2978		-0.0016		0.1947		0.4474	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
74	74	71	76	76	66	78	68	-12	35	77	48	73	83

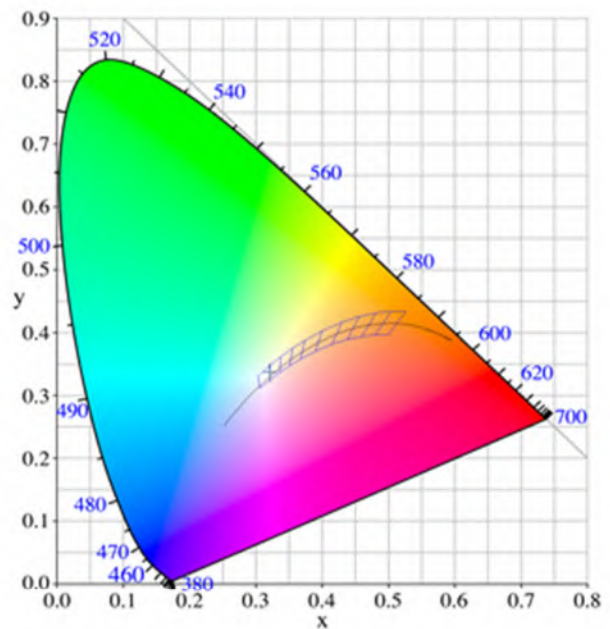
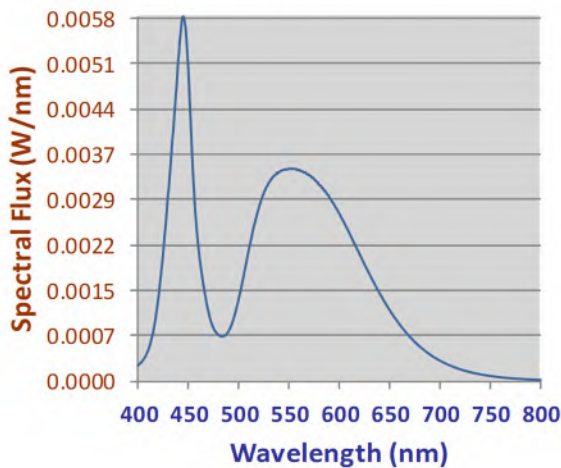
FL174 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL175		3/11/25	
Description	30 sec warmup	Test Time	9:32 AM
		Integration Time	4887.8
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	25.3C 19%RH	Sphere Geometry	2pi
		Sphere Temp	24.62
Scan ID	Scan id 13222	Lumens	203.9
Scan Name	FL175		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
5993		71.00		0.3219		0.3371		0.0029		0.2011		0.4739	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
70	73	75	73	72	65	78	61	-25	36	72	47	69	86

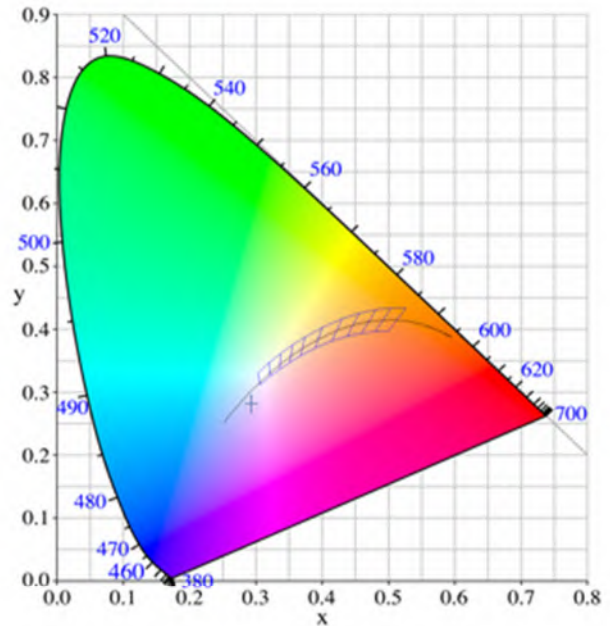
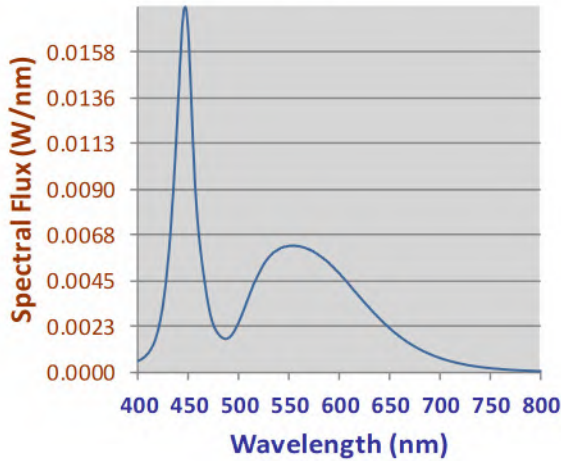
FL175 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL176		3/11/25	
Description	30 sec warmup	Test Time	2:46 PM
		Integration Time	1467.7
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	67%
Notes	26.1C 19%RH	Sphere Geometry	2pi
		Sphere Temp	25.36
Scan ID	Scan id 13232	Lumens	375.0
Scan Name	FL176		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8943		76.63		0.2933		0.2820		-0.0114		0.2023		0.4378	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82	77	67	82	81	67	80	77	23	40	83	47	79	81

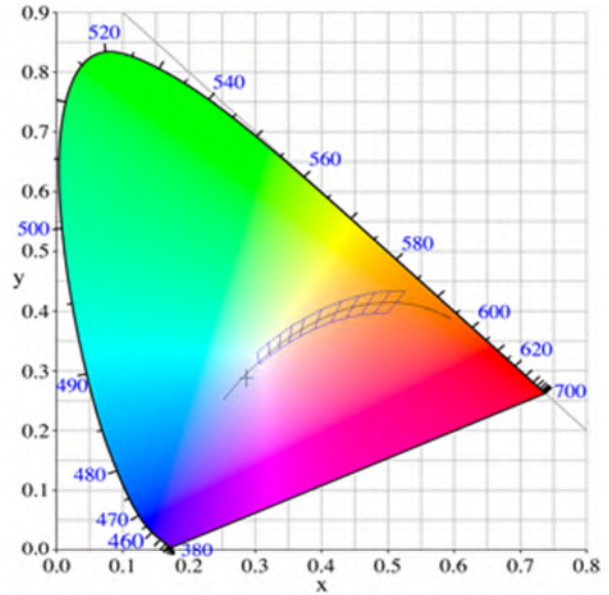
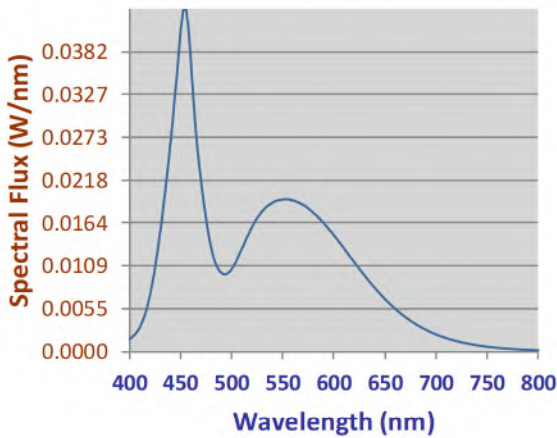
FL176 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE250113 FL177		3/14/25	
Description	30 sec warmup	Test Time	10:58 AM
		Integration Time	641.3
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	76%
Notes	26.0C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	25.69
Scan ID	Scan id 13267	Lumens	1193.0
Scan Name	FL177		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9359		82.72		0.2864		0.2885		-0.0035		0.1945		0.4409	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
83	87	84	83	82	78	89	77	21	63	79	57	84	91

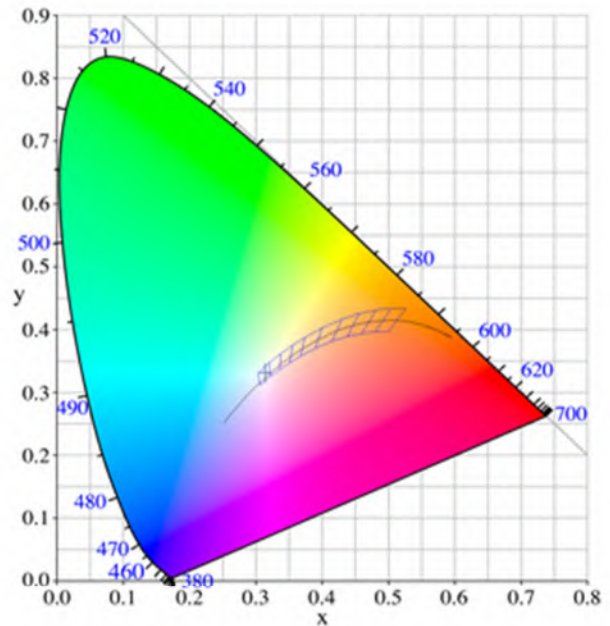
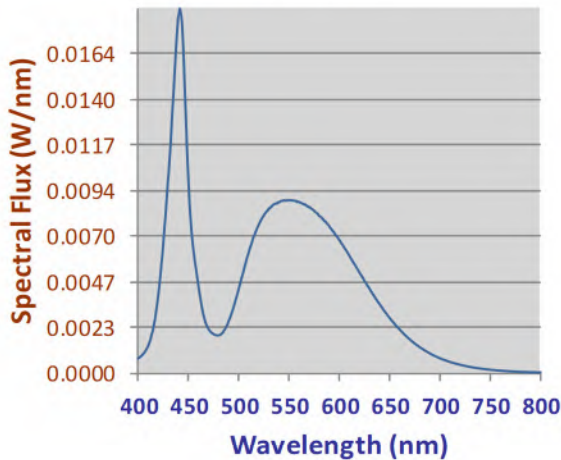
FL177 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL178		3/11/25	
Description	30 sec warmup	Test Time	8:46 AM
		Integration Time	1769.4
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	25.0C 19%RH	Sphere Geometry	2pi
		Sphere Temp	24.47
Scan ID	Scan id 13218	Lumens	532.5
Scan Name	FL178		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
6378		70.79		0.3147		0.3316		0.0035		0.1983		0.4700	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
71	72	74	73	73	66	76	62	-24	35	75	50	69	85

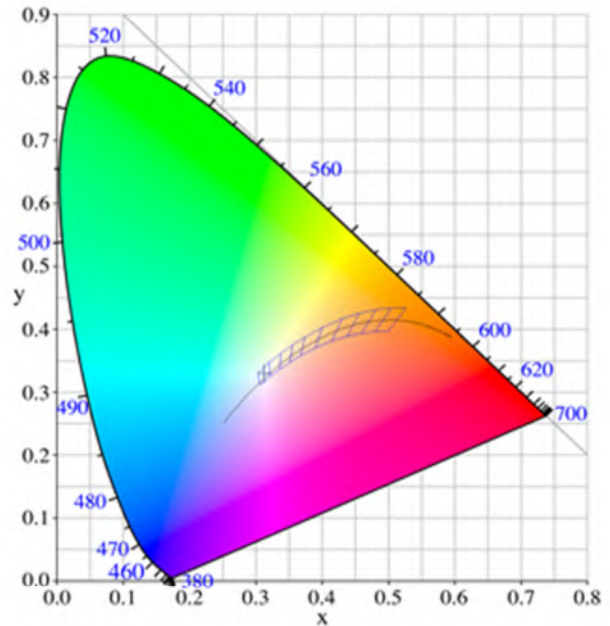
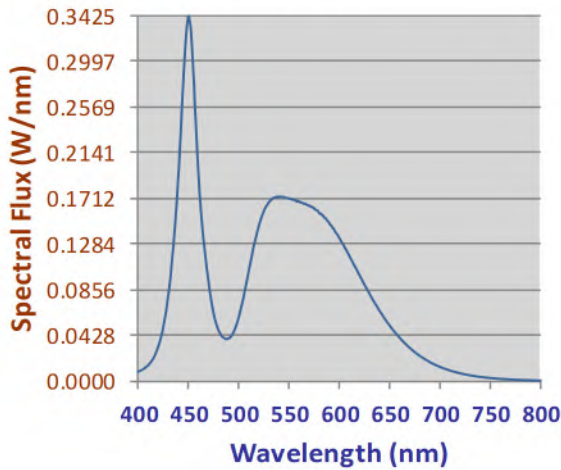
FL178 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL179		3/12/25	
Description	30 sec warmup	Test Time	8:57 AM
		Integration Time	90.6
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	80%
Notes	24.7C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	24.09
Scan ID	Scan id 13239	Lumens	10297.6
Scan Name	FL179		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
6500		73.20		0.3127		0.3299		0.0037		0.1975		0.4688	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
71	77	78	74	72	68	83	62	-25	42	71	42	72	88

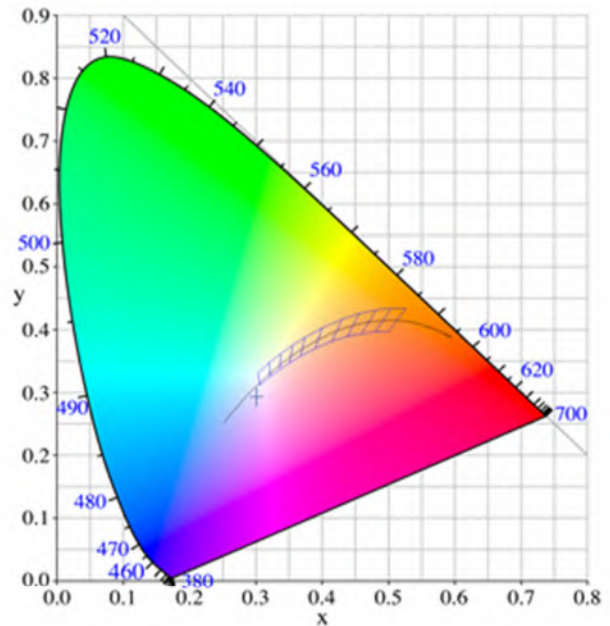
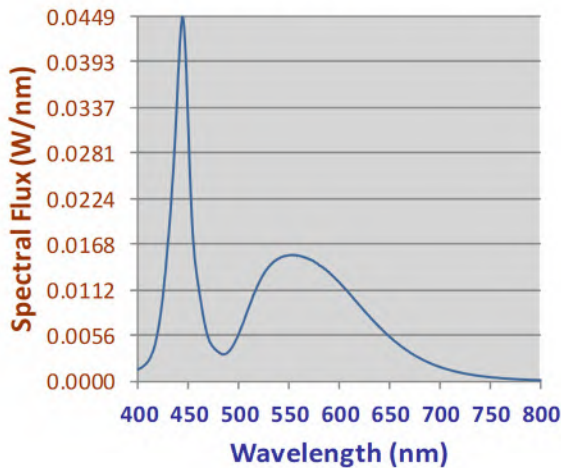
FL179 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL180		3/13/25	
Description	30 sec warmup	Test Time	8:40 AM
		Integration Time	718.5
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	24.9C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	23.95
Scan ID	Scan id 13250	Lumens	924.9
Scan Name	FL180		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
7769		73.46		0.3017		0.2930		-0.0103		0.2041		0.4460	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
79	74	65	77	79	64	76	73	13	34	81	47	75	80

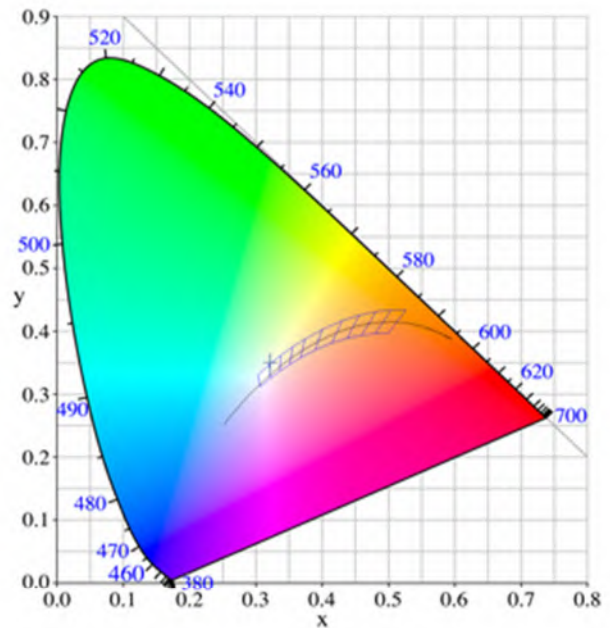
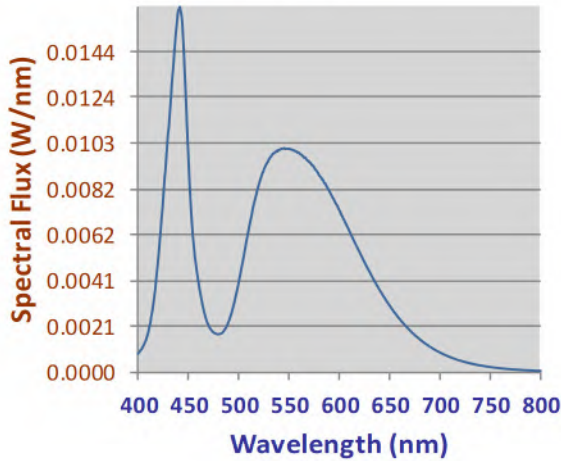
FL180 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL181		3/13/25	
Description	30 sec warmup	Test Time	7:50 AM
		Integration Time	1656.1
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	78%
Notes	24.4C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	23.71
Scan ID	Scan id 13247	Lumens	583.1
Scan Name	FL181		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
5944		66.62		0.3221		0.3506		0.0095		0.1963		0.4808	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
64	69	74	68	67	61	74	55	-45	28	68	43	63	85

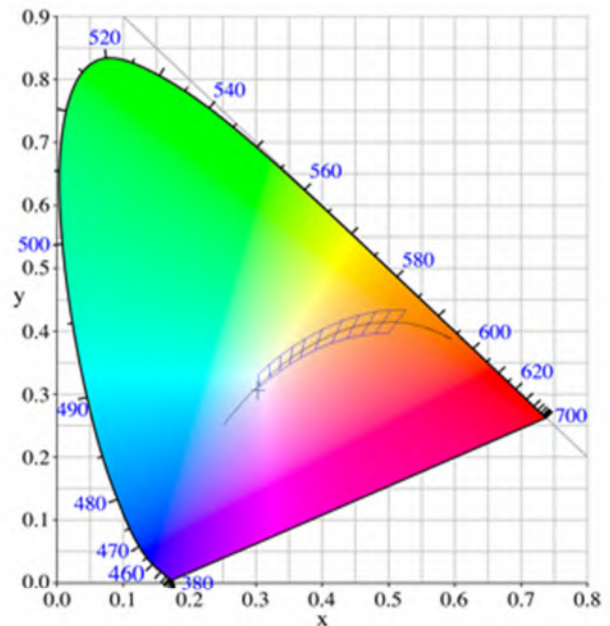
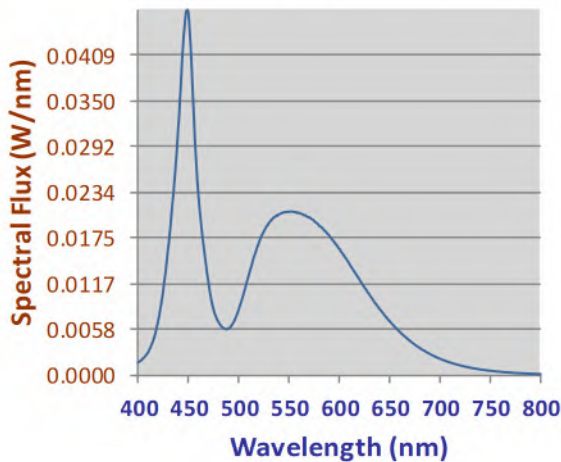
FL181 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL182		3/13/25	
Description	30 sec warmup	Test Time	10:45 AM
		Integration Time	647.4
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	78%
Notes	25.3C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	24.44
Scan ID	Scan id 13255	Lumens	1252.7
Scan Name	FL182		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
7401		75.61		0.3027		0.3067		-0.0032		0.1993		0.4544	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
77	78	75	78	77	69	82	70	-2	43	77	48	76	85

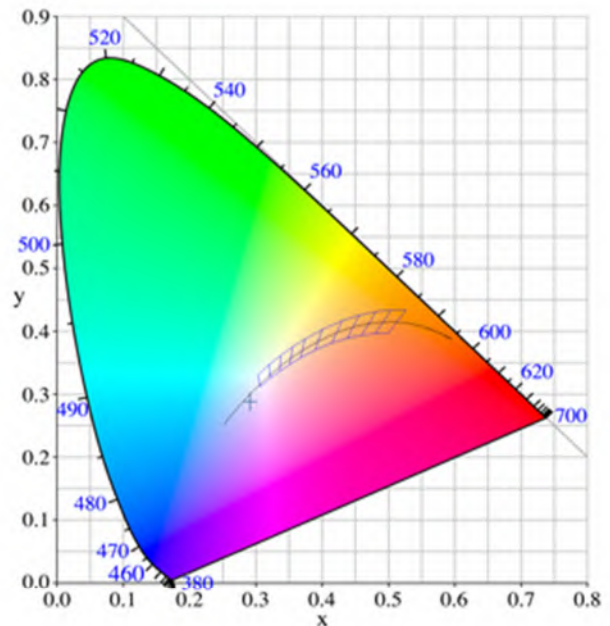
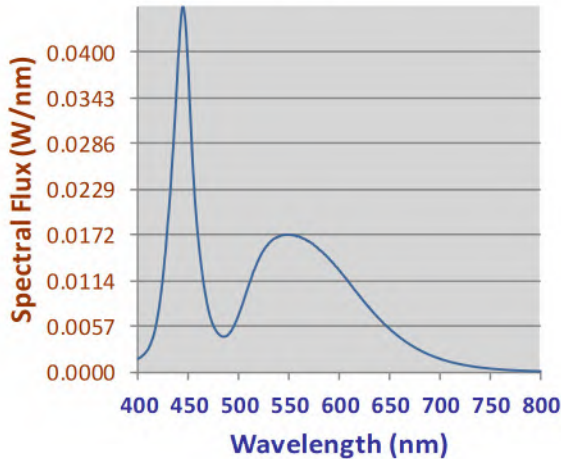
FL182 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL183		3/13/25	
Description	30 sec warmup	Test Time	11:11 AM
		Integration Time	698.4
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	25.3C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	24.62
Scan ID	Scan id 13256	Lumens	1020.4
Scan Name	FL183		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8822		73.94		0.2918		0.2884		-0.0069		0.1986		0.4416	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
78	74	67	78	79	65	78	72	6	35	80	48	75	81

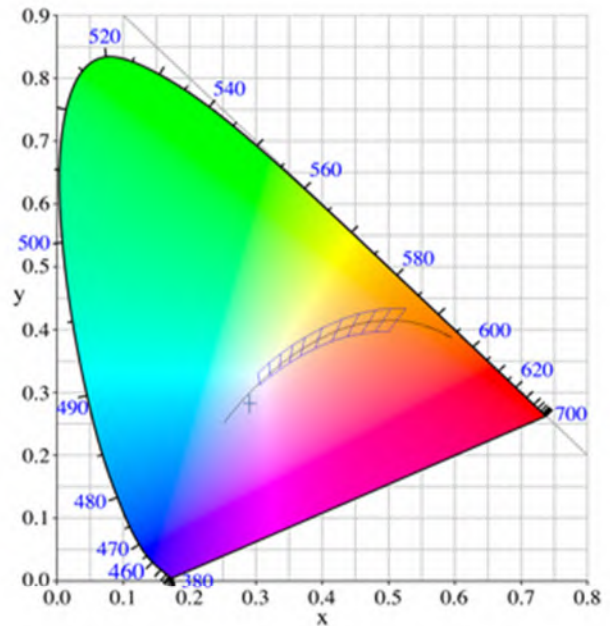
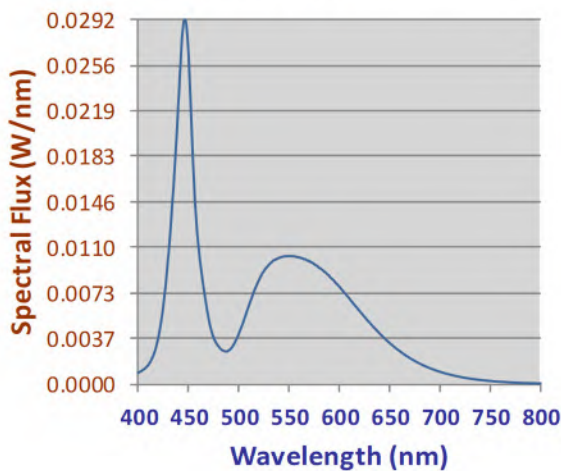
FL183 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL184		3/12/25	
Description	30 sec warmup	Test Time	1:14 PM
Orientation	Horizontal	Integration Time	1088.5
Test by	DW	Scans Averaged	3
Notes	25.8C, 19%RH	Saturation	80%
Scan ID	Scan id 13245	Sphere Geometry	2pi
Scan Name	FL184	Sphere Temp	24.98
Power	Battery Powered DUT, Power Not Monitored	Lumens	614.4

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9186		75.31		0.2907		0.2827		-0.0094		0.2001		0.4378	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80	76	67	80	80	66	79	75	14	37	82	46	77	81

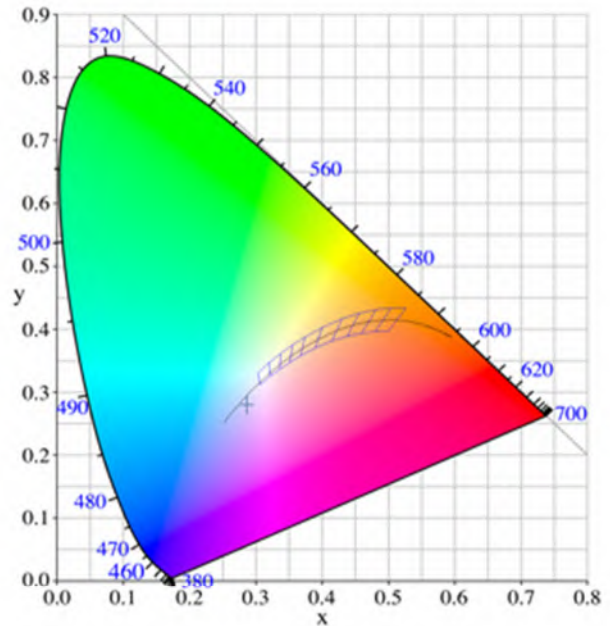
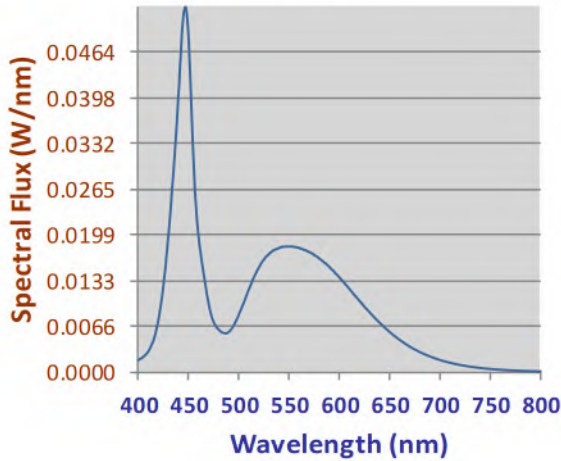
FL184 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL185		3/11/25	
Description	30 sec warmup	Test Time	2:17 PM
		Integration Time	590.3
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	25.8C 19%RH	Sphere Geometry	2pi
		Sphere Temp	25.25
Scan ID	Scan id 13230	Lumens	1098.8
Scan Name	FL185		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9774		76.30		0.2869		0.2799		-0.0086		0.1984		0.4354	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81	77	68	81	81	67	80	76	16	39	83	49	78	82

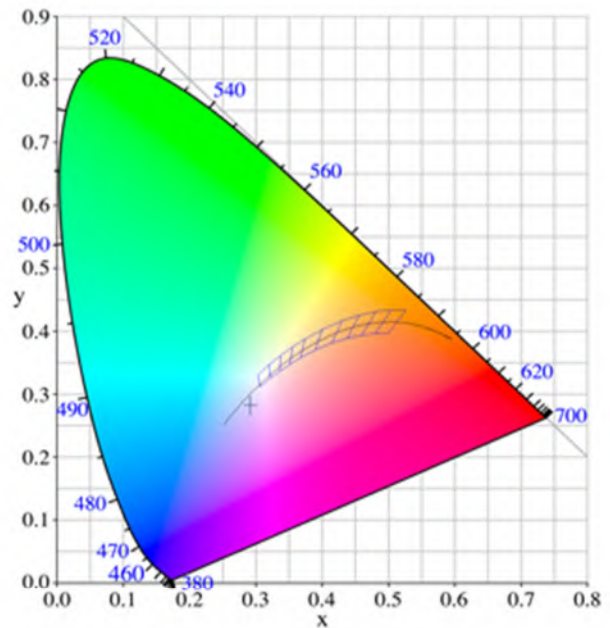
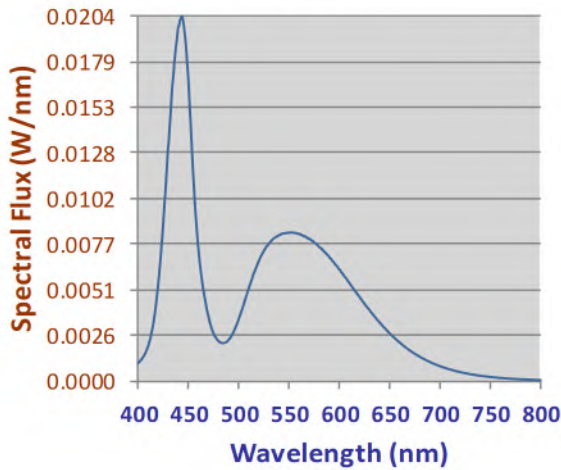
FL185 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL186		3/13/25	
Description	30 sec warmup	Test Time	10:33 AM
		Integration Time	1506.5
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	75%
Notes	25.3C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	24.37
Scan ID	Scan id 13254	Lumens	494.3
Scan Name	FL186		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9129		73.50		0.2913		0.2826		-0.0098		0.2005		0.4379	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80	73	64	77	80	65	76	73	12	32	82	50	75	79

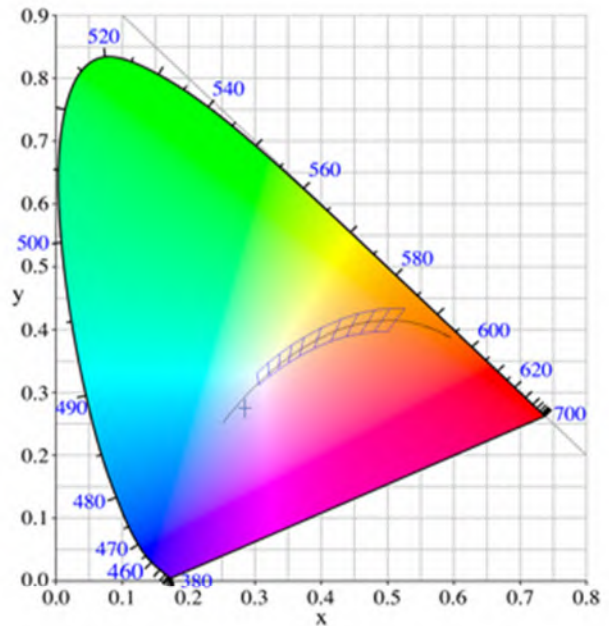
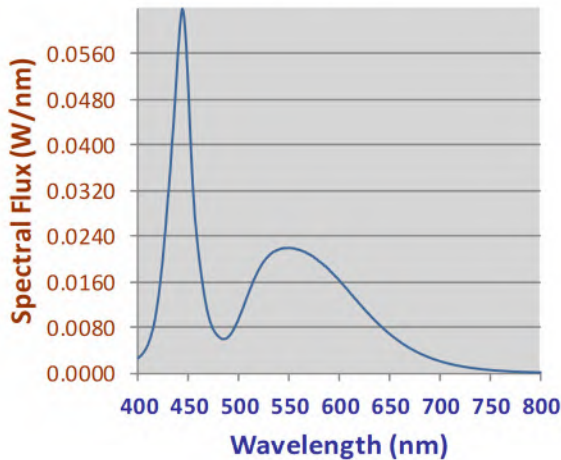
FL186 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL187		3/11/25	
Description	30 sec warmup	Test Time	11:08 AM
		Integration Time	526.2
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	82%
Notes	25.5C 19%RH	Sphere Geometry	2pi
		Sphere Temp	24.92
Scan ID	Scan id 13224	Lumens	1309.9
Scan Name	FL187		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
10232		74.02		0.2854		0.2755		-0.0100		0.1991		0.4324	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80	74	63	78	81	65	76	75	16	32	83	49	76	79

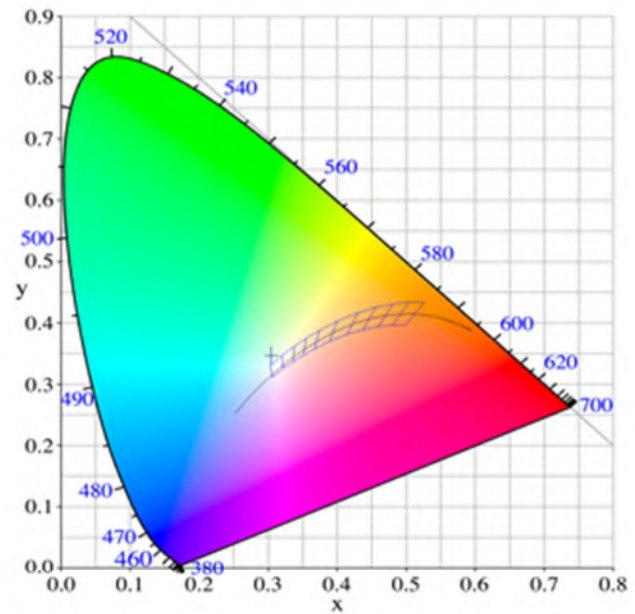
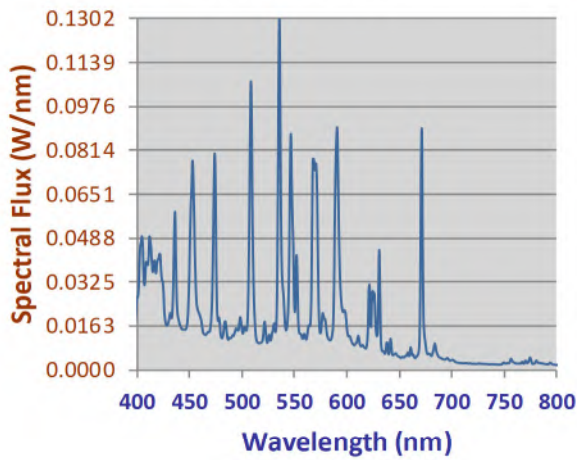
FL187 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL188		3/13/25	
Description	30 sec warmup	Test Time	9:05 AM
		Integration Time	140.7
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	80%
Notes	24.9C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	24.1
Scan ID	Scan id 13252	Lumens	1957.1
Scan Name	FL188		
Power	Externally Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
6785		70.81		0.3044		0.3474		0.0164		0.1856		0.4766	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
62	76	86	67	67	72	83	53	-57	46	62	60	65	92

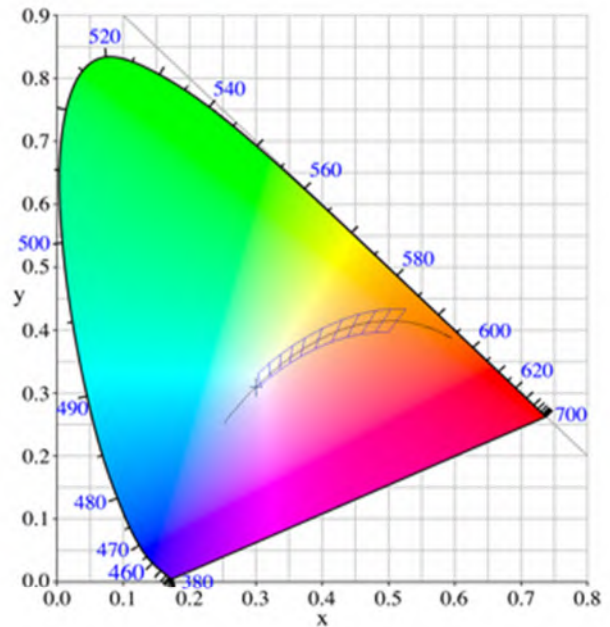
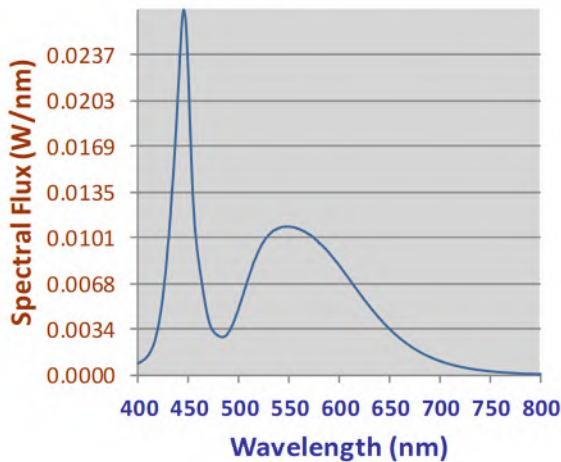
FL188 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL189		2/26/25	
Description	30 sec warmup	Test Time	11:42 AM
		Integration Time	1137.4
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	76%
Notes	24.8C, 22%RH	Sphere Geometry	2pi
		Sphere Temp	24.27
Scan ID	Scan id 13176	Lumens	649.7
Scan Name	FL189		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
7492		72.75		0.3007		0.3093		-0.0007		0.1969		0.4556	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
74	74	72	75	75	66	78	67	-12	37	76	47	72	84

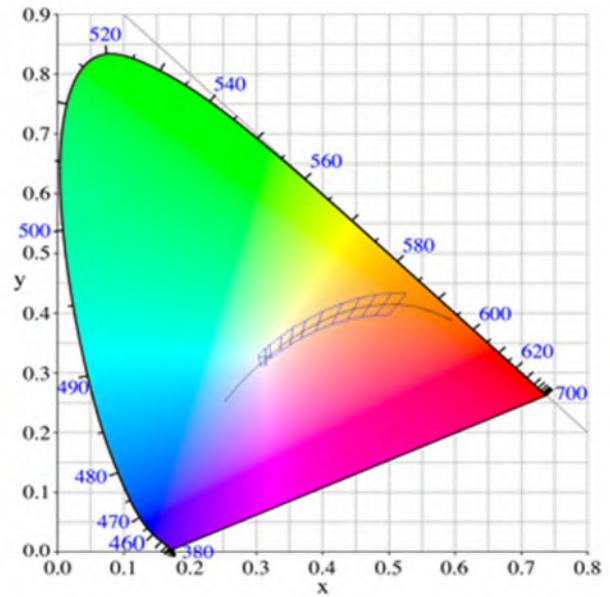
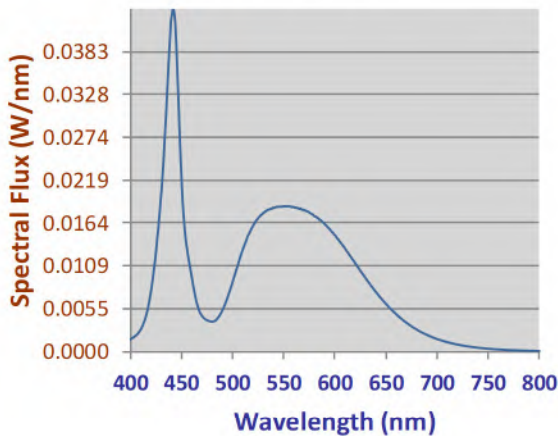
FL189 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE250113 FL190				3/14/25	
Description	30 sec warmup			Test Time	2:02 PM
				Integration Time	776
Orientation	Horizontal			Scans Averaged	3
Test by	DW			Saturation	81%
Notes	27.0C, 20%RH			Sphere Geometry	2pi
				Sphere Temp	26.81
Scan ID	Scan id 13271			Lumens	1125.7
Scan Name	FL190				
Power	Battery Powered DUT, Power Not Monitored				

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
6406		71.46		0.3148		0.3264		0.0008		0.2003		0.4672	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
72	73	73	74	74	66	76	63	-19	36	76	51	71	85

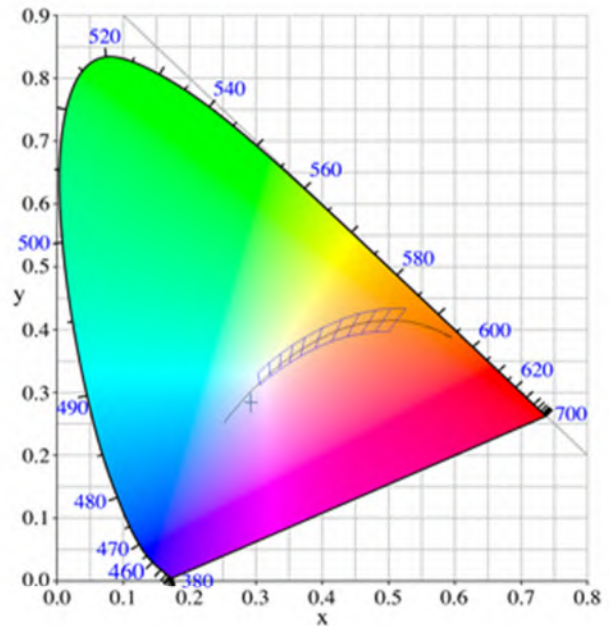
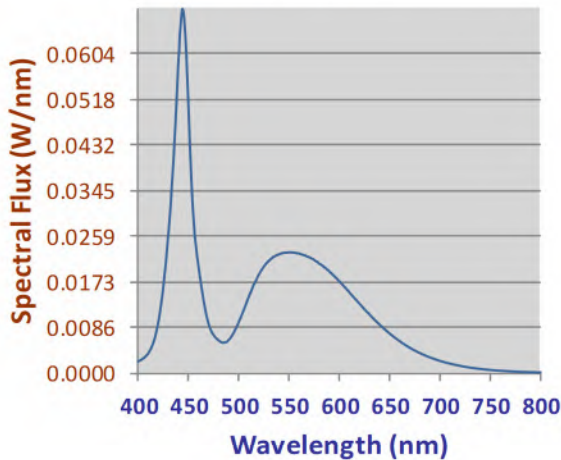
FL189 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL191		2/26/25	
Description	30 sec warmup	Test Time	4:05 PM
Orientation	Horizontal	Integration Time	461.9
Test by	DW	Scans Averaged	3
Notes	25.1C, 22%RH	Saturation	78%
Scan ID	Scan id 13183	Sphere Geometry	2pi
Scan Name	FL191	Sphere Temp	24.88
Power	Battery Powered DUT, Power Not Monitored	Lumens	1369.9

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8943		74.22		0.2923		0.2843		-0.0095		0.2006		0.4391	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80	74	65	78	80	65	77	74	14	34	82	48	76	80

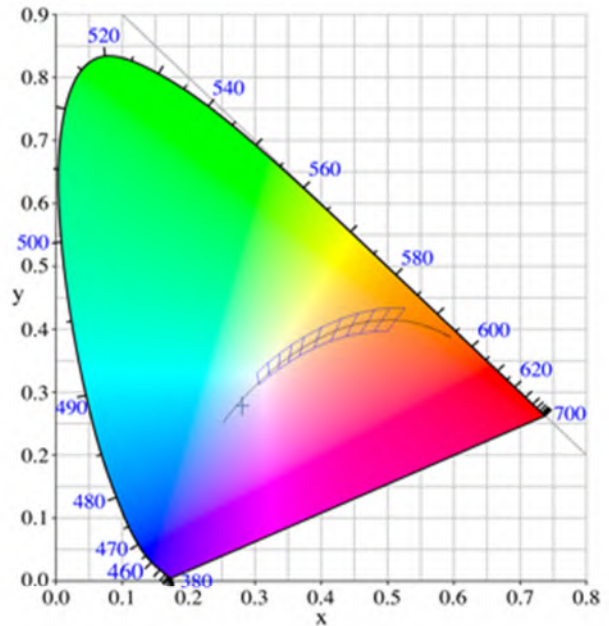
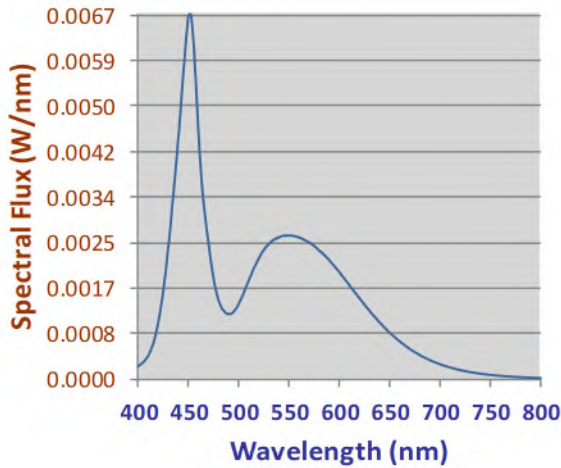
FL191 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL192		3/11/25	
Description	30 sec warmup	Test Time	12:35 PM
		Integration Time	4197.9
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	75%
Notes	25.6C 19%RH	Sphere Geometry	2pi
		Sphere Temp	24.9
Scan ID	Scan id 13225	Lumens	162.1
Scan Name	FL192		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
10560		80.88		0.2811		0.2789		-0.0053		0.1944		0.4339	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82	83	77	84	82	74	87	78	21	54	82	53	82	87

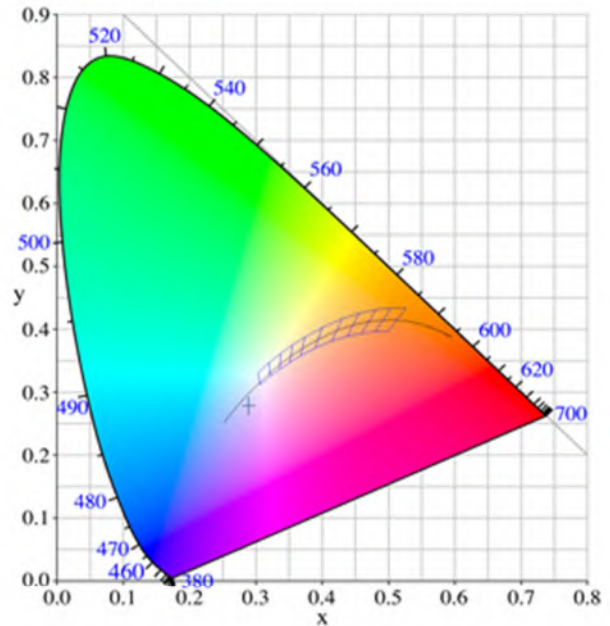
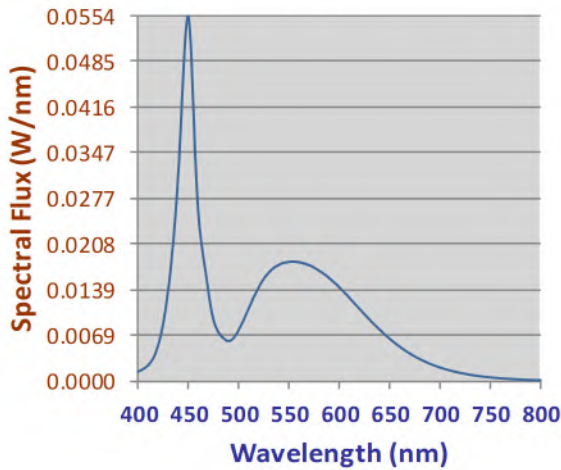
FL192 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL193		3/11/25	
Description	30 sec warmup	Test Time	1:08 PM
		Integration Time	561.5
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	80%
Notes	25.8C 19%RH	Sphere Geometry	2pi
		Sphere Temp	25.06
Scan ID	Scan id 13228	Lumens	1103.8
Scan Name	FL193		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9591		79.87		0.2892		0.2782		-0.0110		0.2008		0.4347	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
84	81	72	85	83	70	85	80	31	48	84	48	82	84

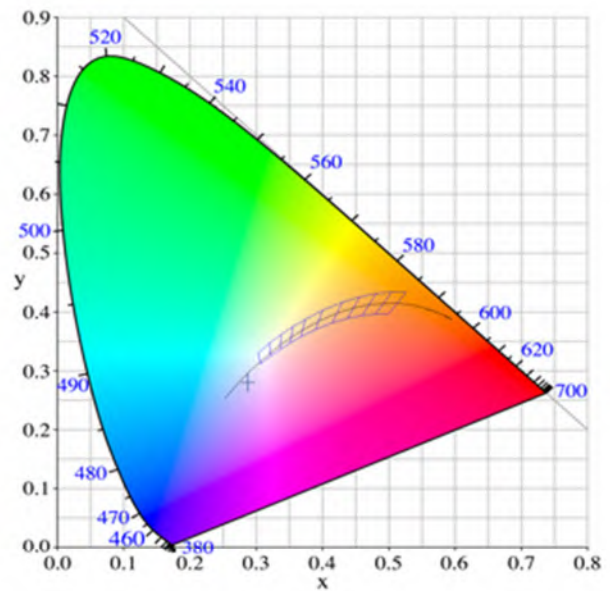
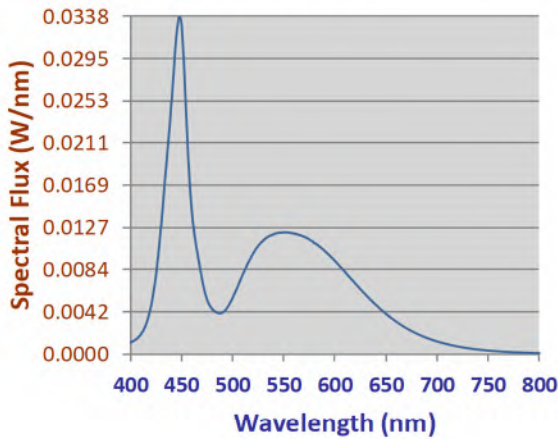
FL193 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL194		3/17/25	
Description	30 sec warmup	Test Time	8:31 AM
		Integration Time	909.1
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	78%
Notes	26.4C, 18%RH	Sphere Geometry	2pi
		Sphere Temp	25.51
Scan ID	Scan id 13274	Lumens	737.8
Scan Name	FL194		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9665		77.56		0.2876		0.2803		-0.0088		0.1987		0.4358	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82	78	70	82	82	69	82	77	19	43	83	50	79	83

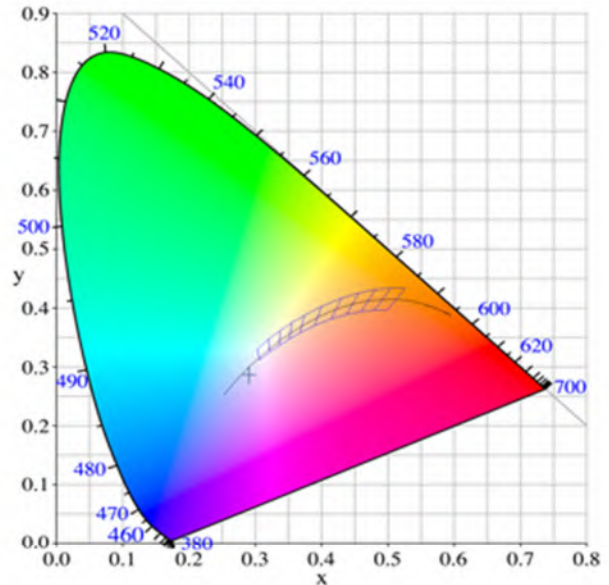
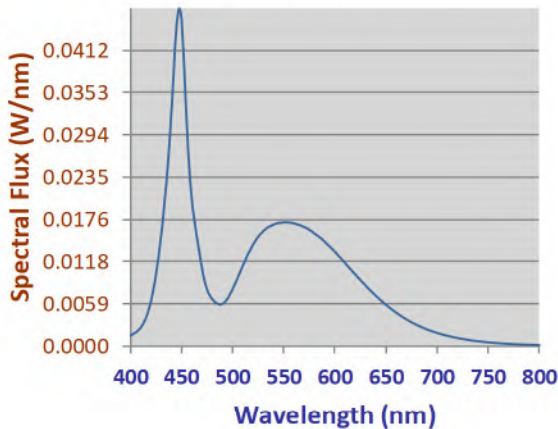
FL194 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL195		3/17/25	
Description	30 sec warmup	Test Time	8:53 AM
Orientation	Horizontal	Integration Time	667.3
Test by	DW	Scans Averaged	3
Notes	26.4C, 18%RH	Saturation	80%
Scan ID	Scan id 13276	Sphere Geometry	2pi
Scan Name	FL195	Sphere Temp	25.41
Power	Battery Powered DUT, Power Not Monitored	Lumens	1040.2

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9031		77.71		0.2905		0.2866		-0.0071		0.1983		0.4403	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81	79	72	82	81	69	82	76	15	45	82	50	79	84

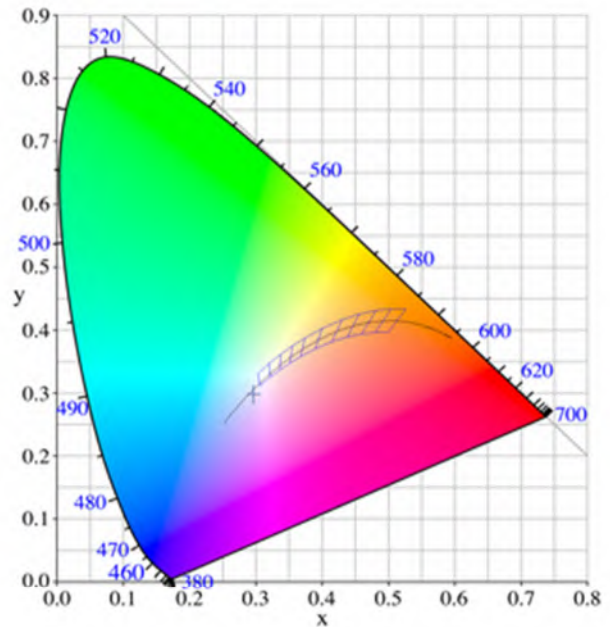
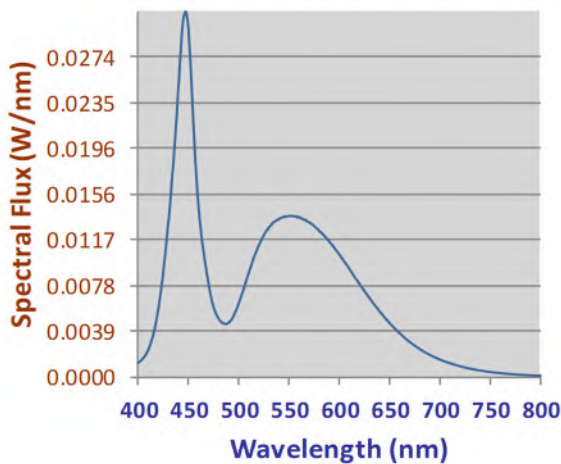
FL195 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL196		3/13/25	
Description	30 sec warmup	Test Time	9:10 AM
		Integration Time	1003.3
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	80%
Notes	24.9C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	24.16
Scan ID	Scan id 13253	Lumens	828.4
Scan Name	FL196		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8026		76.54		0.2969		0.2984		-0.0044		0.1984		0.4486	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
78	78	74	80	79	69	82	72	6	44	80	52	77	85

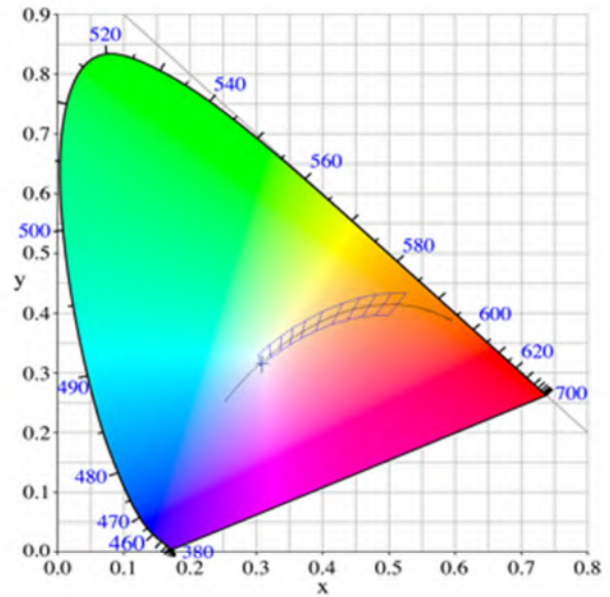
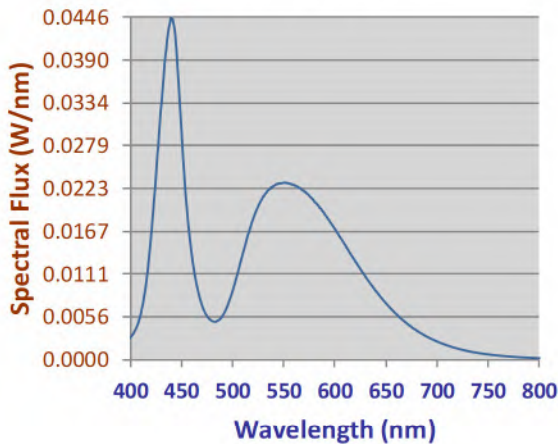
FL196 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE250113 FL197				3/14/25	
Description	30 sec warmup			Test Time	9:09 AM
				Integration Time	711
Orientation	Horizontal			Scans Averaged	3
Test by	DW			Saturation	77%
Notes	26.0C, 20%RH			Sphere Geometry	2pi
				Sphere Temp	25.13
Scan ID	Scan id 13264			Lumens	1339.5
Scan Name	FL197				
Power	Battery Powered DUT, Power Not Monitored				

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
6881		69.91		0.3084		0.3157		-0.0016		0.1999		0.4604	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
72	71	69	72	73	63	74	64	-17	30	75	48	69	82

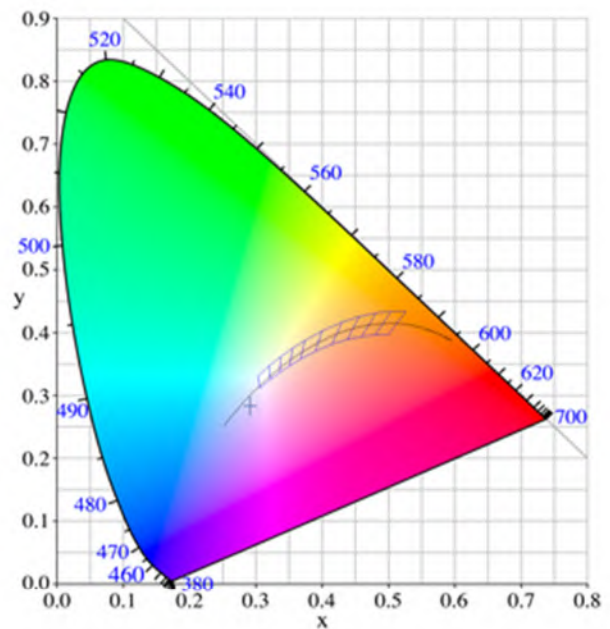
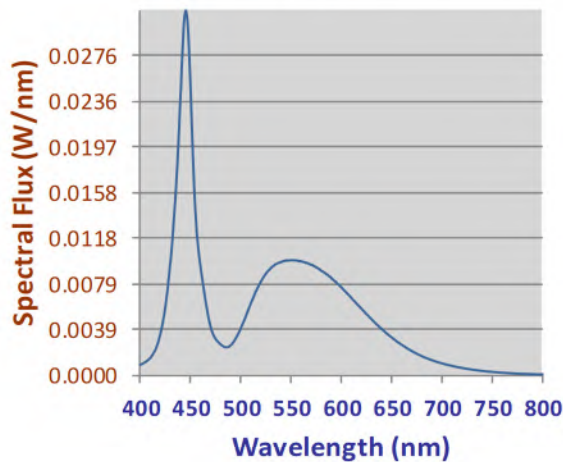
FL197 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL198		3/13/25	
Description	30 sec warmup	Test Time	7:37 AM
		Integration Time	971.1
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	76%
Notes	24.2C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	23.67
Scan ID	Scan id 13246	Lumens	594.2
Scan Name	FL198		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9034		74.70		0.2919		0.2833		-0.0098		0.2007		0.4384	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80	75	66	79	80	65	78	75	15	35	82	46	77	80

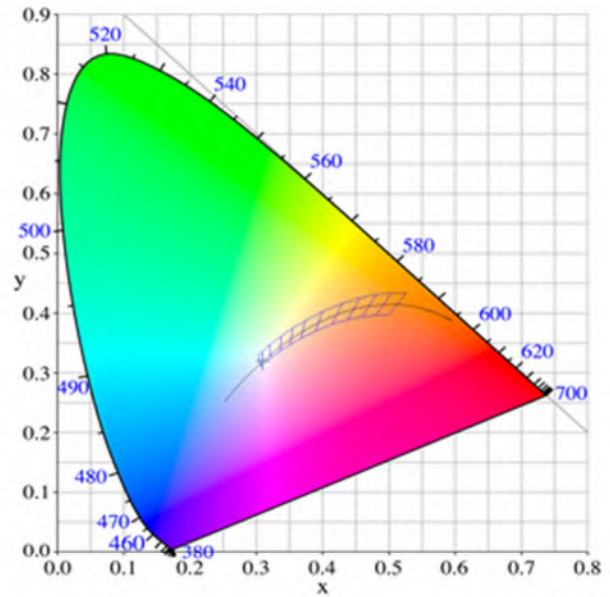
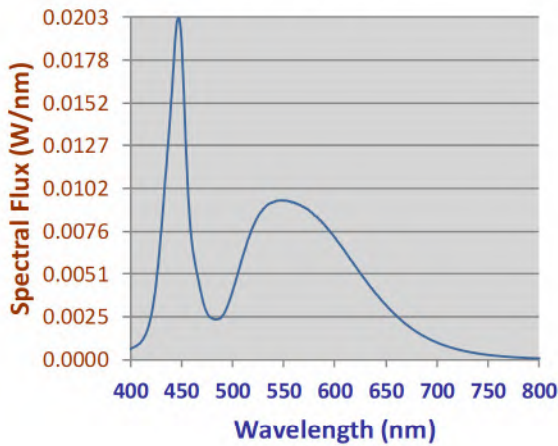
FL198 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE250113 FL199				3/14/25	
Description	30 sec warmup			Test Time	1:49 PM
				Integration Time	1500.3
Orientation	Horizontal			Scans Averaged	3
Test by	DW			Saturation	77%
Notes	26.0C, 20%RH			Sphere Geometry	2pi
				Sphere Temp	26.71
Scan ID	Scan id 13270			Lumens	565.3
Scan Name	FL199				
Power	Battery Powered DUT, Power Not Monitored				

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
6764		73.60		0.3095		0.3203		0.0003		0.1989		0.4631	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
74	75	74	76	75	67	80	67	-10	40	76	47	73	85

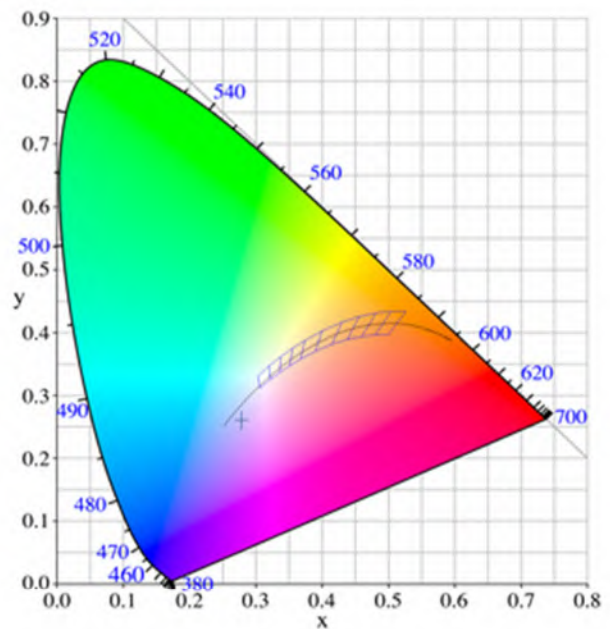
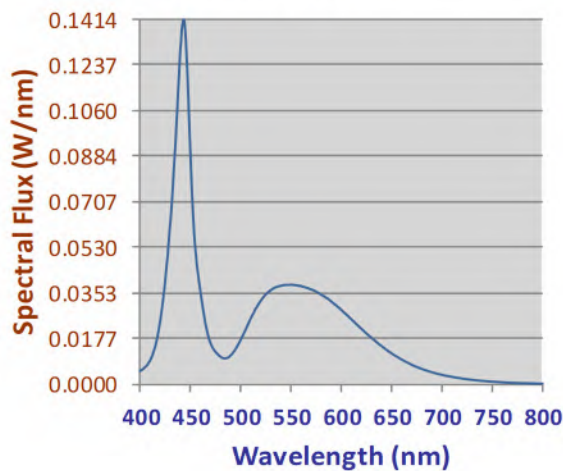
FL199 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL200		3/13/25	
Description	30 sec warmup	Test Time	2:08 PM
		Integration Time	222.2
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	76%
Notes	26.0C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	25.68
Scan ID	Scan id 13261	Lumens	2317.3
Scan Name	FL200		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
12900		73.00		0.2786		0.2604		-0.0141		0.2001		0.4209	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
83	72	57	77	83	63	74	76	27	27	85	48	76	75

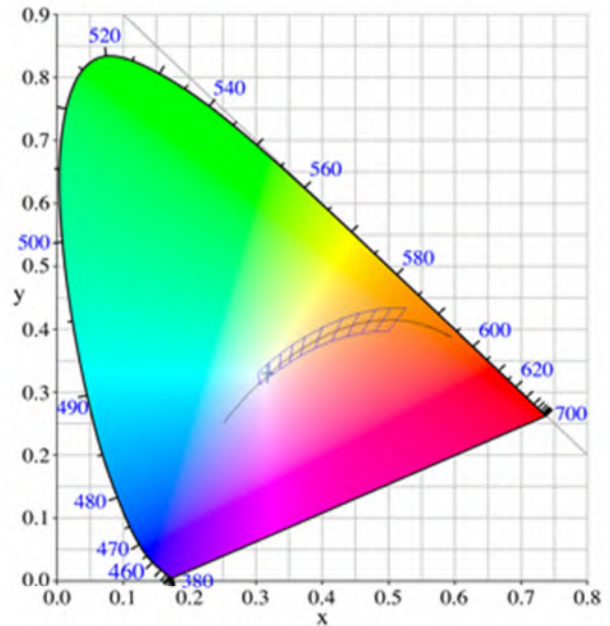
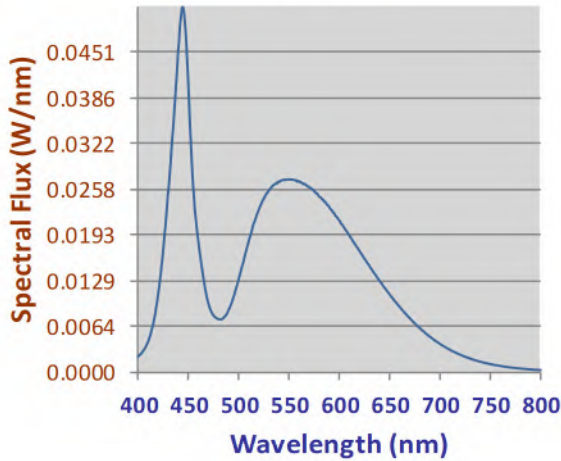
FL200 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL201		2/25/25	
Description	30 sec warmup	Test Time	10:22 AM
		Integration Time	619.5
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	24.6C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	23.95
Scan ID	Scan id 13160	Lumens	1648.5
Scan Name	FL201		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
6241		75.03		0.3176		0.3297		0.0011		0.2010		0.4694	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
76	77	76	77	77	70	80	69	1	44	78	54	74	86

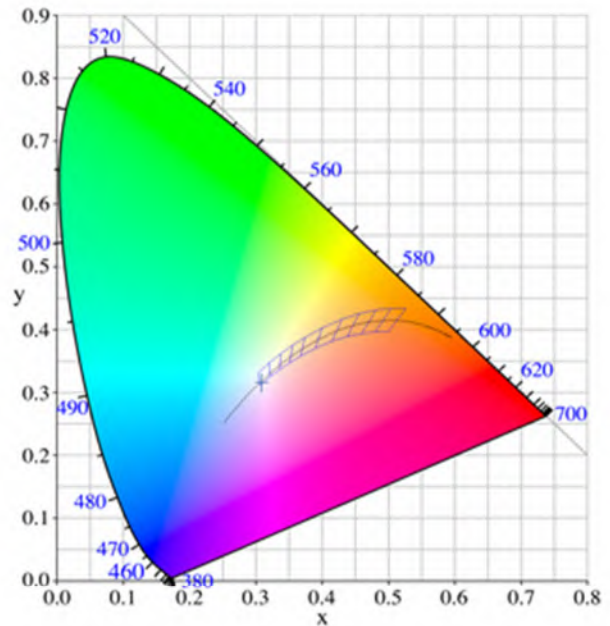
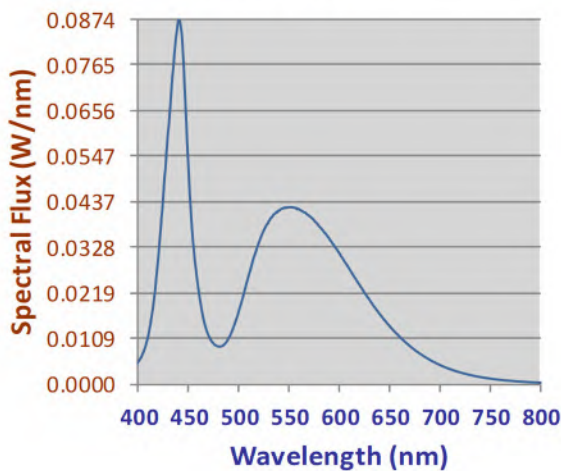
FL201 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL202		2/27/25	
Description	30 sec warmup	Test Time	10:32 AM
		Integration Time	367.9
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	76%
Notes	24.8C, 24%RH	Sphere Geometry	2pi
		Sphere Temp	24.15
Scan ID	Scan id 13188	Lumens	2482.7
Scan Name	FL202		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
6852		69.97		0.3088		0.3159		-0.0016		0.2001		0.4606	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
72	71	69	72	74	63	74	65	-14	30	75	49	69	82

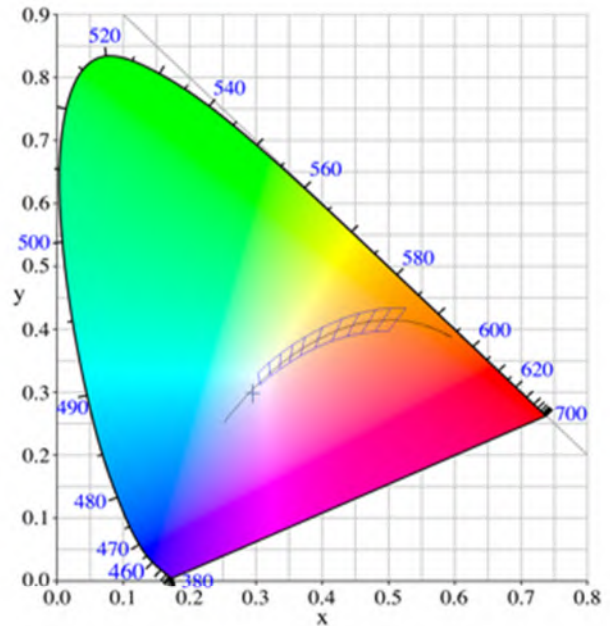
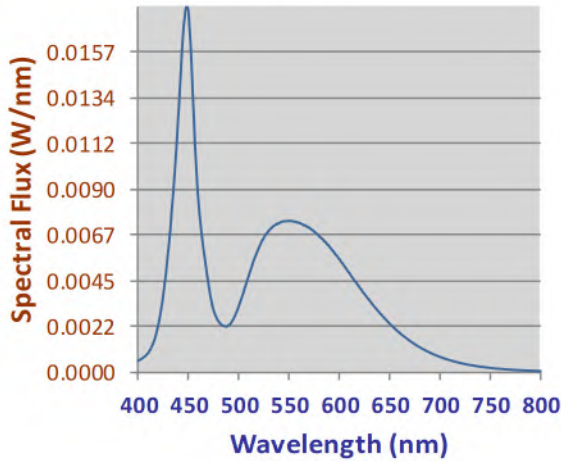
FL202 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL203		3/11/25	
Description	30 sec warmup	Test Time	9:10 AM
		Integration Time	1686
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	25.1C 19%RH	Sphere Geometry	2pi
		Sphere Temp	24.54
Scan ID	Scan id 13220	Lumens	442.7
Scan Name	FL203		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8162		75.91		0.2953		0.2983		-0.0035		0.1972		0.4483	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
77	78	73	79	78	69	82	71	2	43	78	48	76	85

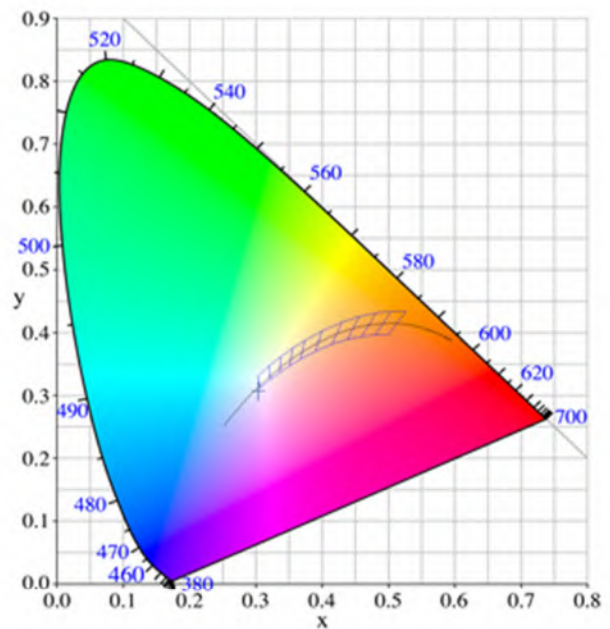
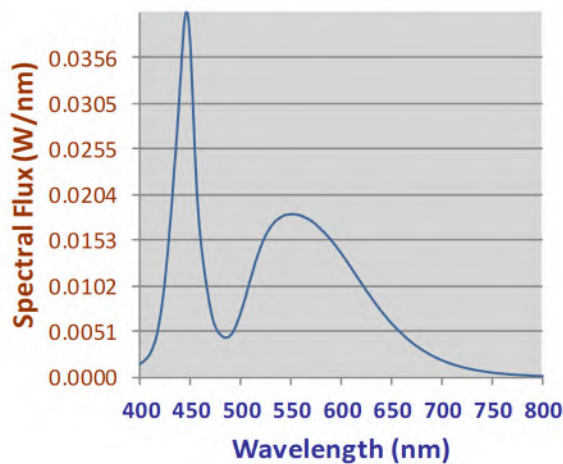
FL203 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL204		3/7/25	
Description	30 sec warmup	Test Time	12:26 PM
		Integration Time	755.4
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	78%
Notes	24.6C, 19%RH	Sphere Geometry	2pi
		Sphere Temp	24.04
Scan ID	Scan id 13213	Lumens	1077.3
Scan Name	FL204		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
7302		73.49		0.3040		0.3071		-0.0037		0.2001		0.4548	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
75	75	71	77	76	66	79	69	-4	37	77	47	74	83

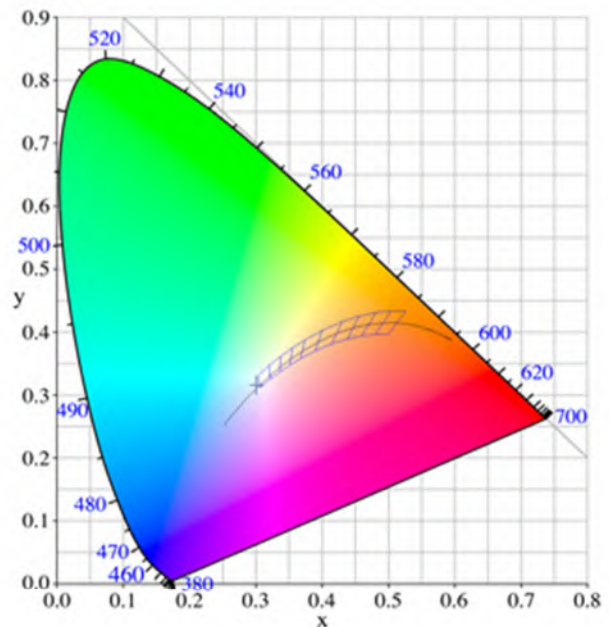
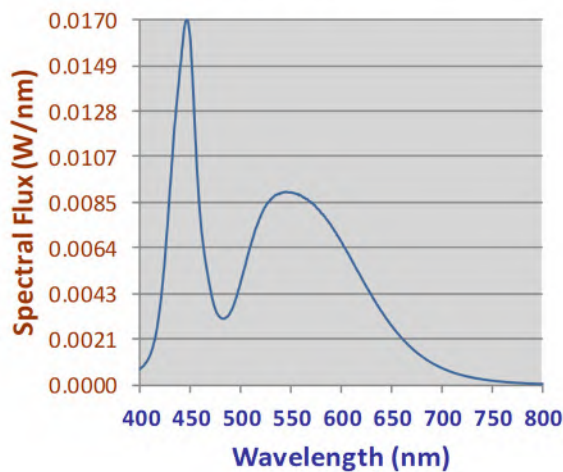
FL204 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL205		2/25/25	
Description	30 sec warmup	Test Time	11:04 AM
		Integration Time	1723.6
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	74%
Notes	24.7C, 21%RH	Sphere Geometry	2pi
		Sphere Temp	24.11
Scan ID	Scan id 13164	Lumens	542.7
Scan Name	FL205		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
7403		74.58		0.3003		0.3159		0.0029		0.1941		0.4593	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
74	76	77	77	76	70	81	66	-15	43	77	54	73	87

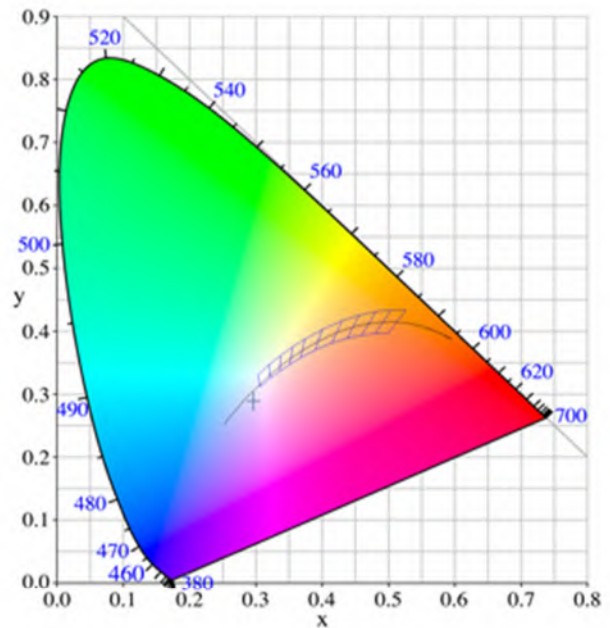
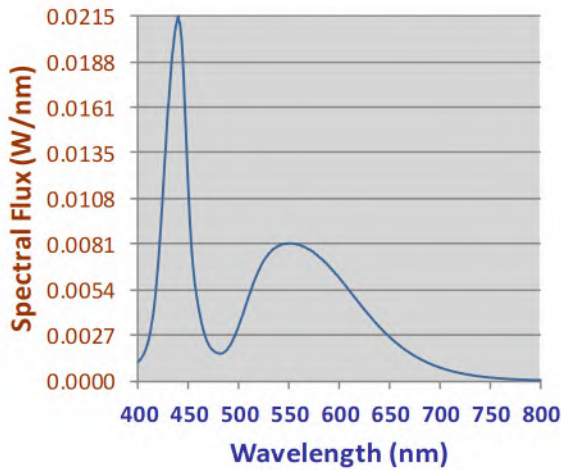
FL205 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL206		2/25/25	
Description	30 sec warmup	Test Time	3:55 PM
		Integration Time	1514.1
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	76%
Notes	25.7C, 21%RH	Sphere Geometry	2pi
		Sphere Temp	25.17
Scan ID	Scan id 13171	Lumens	478.6
Scan Name	FL206		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8301		69.82		0.2969		0.2894		-0.0094		0.2020		0.4430	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
77	70	61	72	78	62	71	69	4	25	80	49	72	77

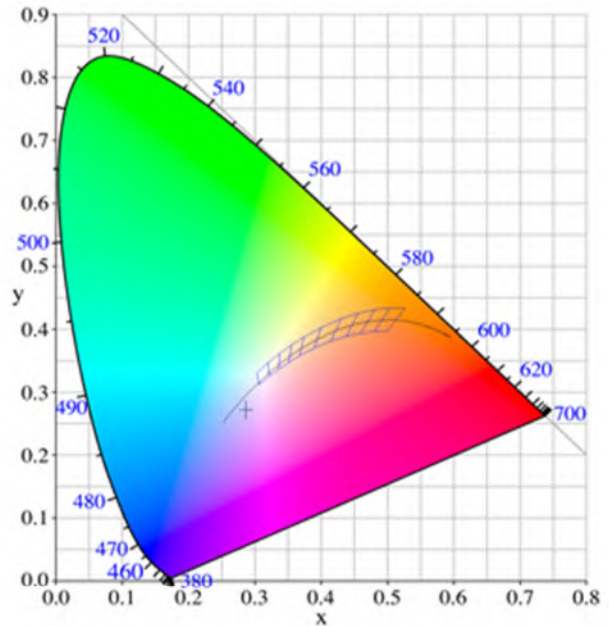
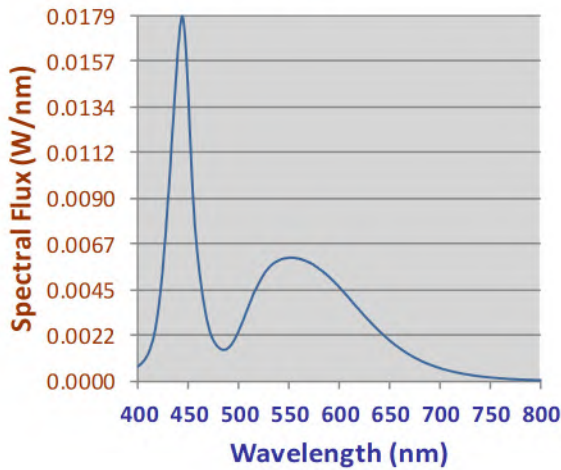
FL206 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL207		3/12/25	
Description	30 sec warmup	Test Time	12:33 PM
		Integration Time	1772.3
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	25.3C, 19%RH	Sphere Geometry	2pi
		Sphere Temp	24.55
Scan ID	Scan id 13240	Lumens	361.1
Scan Name	FL207		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
10285		74.10		0.2871		0.2717		-0.0133		0.2020		0.4300	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82	73	61	79	82	64	76	76	25	31	84	49	77	77

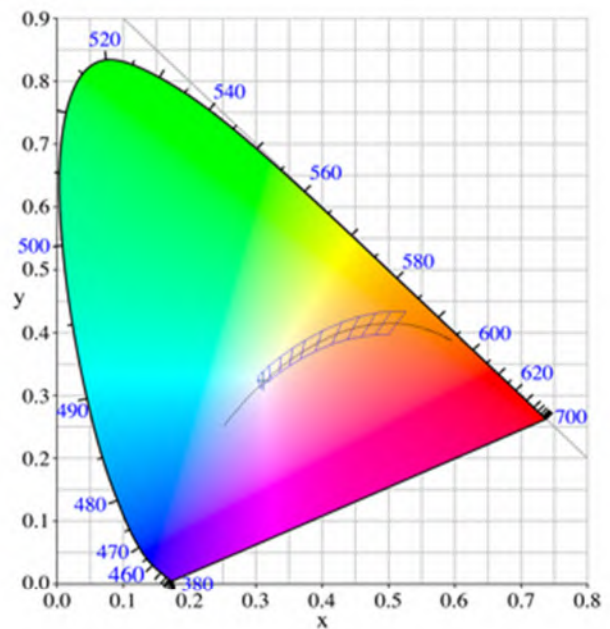
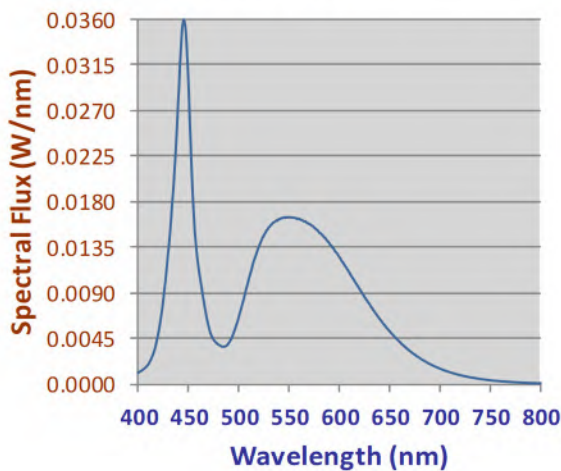
FL207 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL208		2/27/25	
Description	30 sec warmup	Test Time	3:00 PM
		Integration Time	879
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	25.3C, 24%RH	Sphere Geometry	2pi
		Sphere Temp	24.81
Scan ID	Scan id 13196	Lumens	977.1
Scan Name	FL208		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
6623		71.63		0.3114		0.3236		0.0011		0.1989		0.4652	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
72	74	74	74	73	65	78	64	-20	36	74	45	71	85

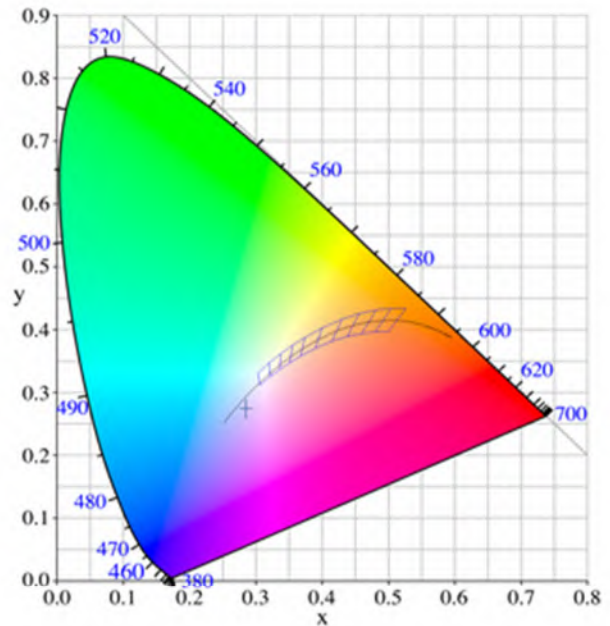
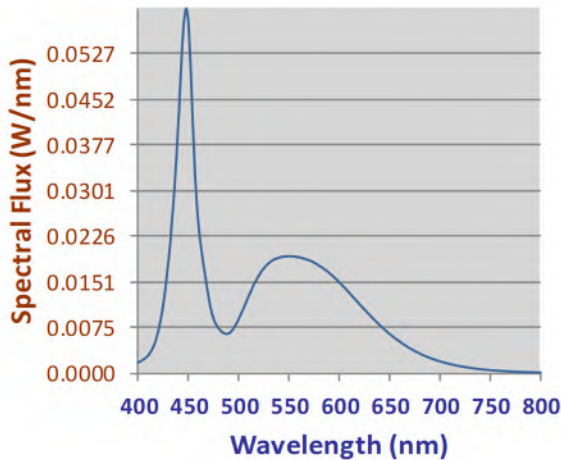
FL208 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL209		2/25/25	
Description	30 sec warmup	Test Time	10:51 AM
		Integration Time	514.8
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	24.7C, 21%RH	Sphere Geometry	2pi
		Sphere Temp	24.07
Scan ID	Scan id 13163	Lumens	1181.1
Scan Name	FL209		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
10386		78.57		0.2850		0.2742		-0.0105		0.1992		0.4314	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
83	79	69	84	83	69	82	79	28	44	85	49	81	82

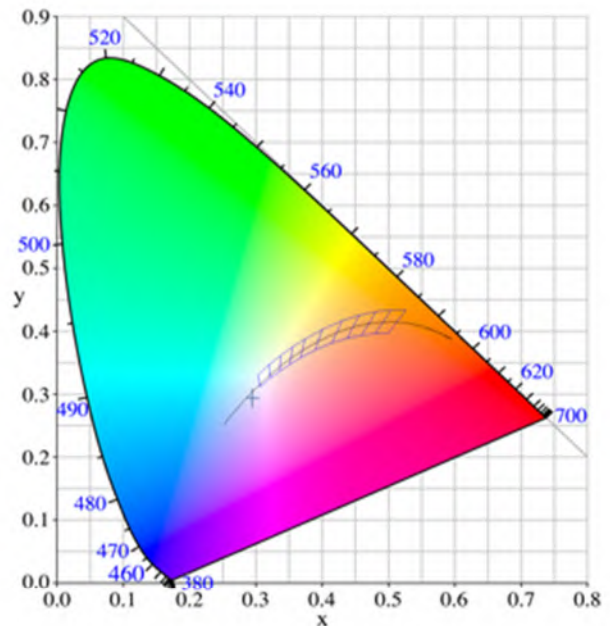
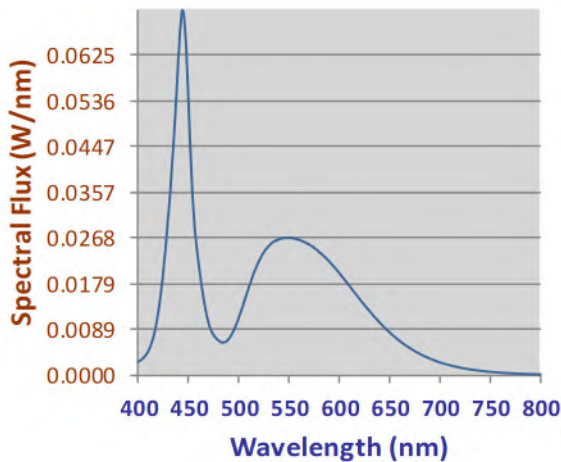
FL209 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL210		2/26/25	
Description	30 sec warmup	Test Time	3:07 PM
		Integration Time	454.3
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	25.1C, 22%RH	Sphere Geometry	2pi
		Sphere Temp	24.7
Scan ID	Scan id 13181	Lumens	1592.3
Scan Name	FL210		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8283		72.74		0.2953		0.2944		-0.0057		0.1988		0.4459	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
77	73	67	76	78	65	77	70	0	33	79	48	74	81

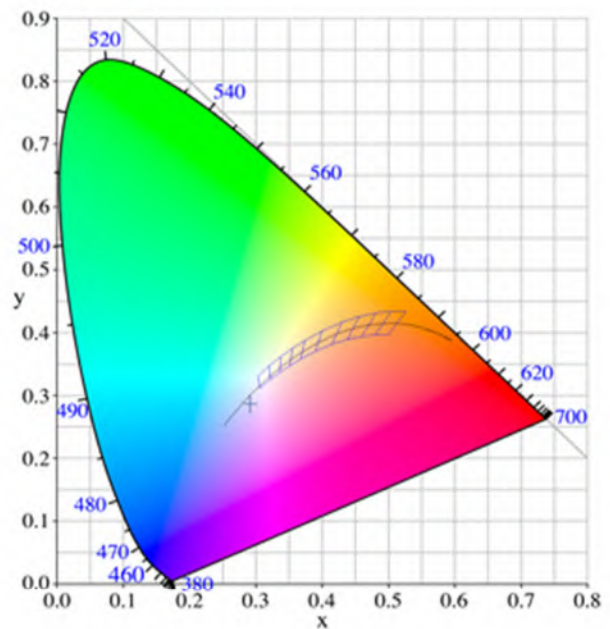
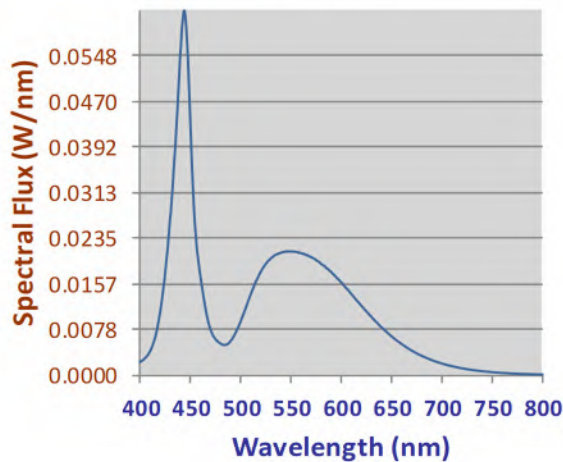
FL210 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL211		2/28/25	
Description	30 sec warmup	Test Time	9:07 AM
		Integration Time	536.2
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	82%
Notes	25.3C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	24.35
Scan ID	Scan id 13201	Lumens	1267.5
Scan Name	FL211		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8897		72.96		0.2917		0.2867		-0.0078		0.1992		0.4406	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
78	73	65	76	79	65	76	72	6	32	81	49	74	80

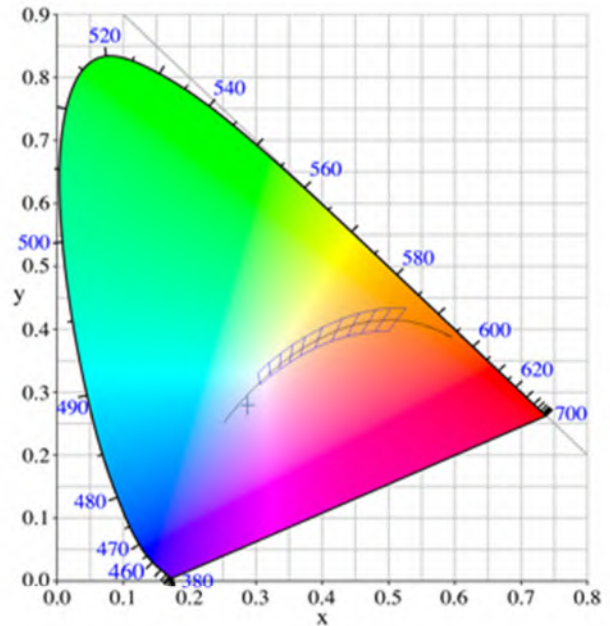
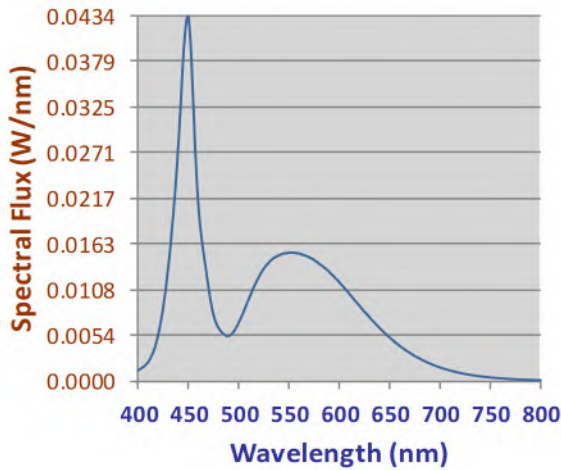
FL211 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL212		2/27/25	
Description	30 sec warmup	Test Time	2:20 PM
		Integration Time	717.3
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	80%
Notes	25.3C, 24%RH	Sphere Geometry	2pi
		Sphere Temp	24.67
Scan ID	Scan id 13193	Lumens	926.0
Scan Name	FL212		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9747		79.14		0.2873		0.2794		-0.0091		0.1989		0.4352	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
83	80	72	84	82	70	84	78	24	47	83	50	81	84

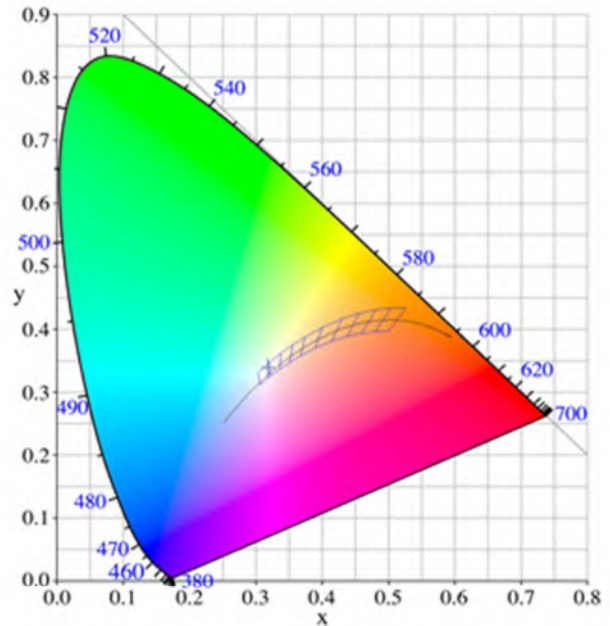
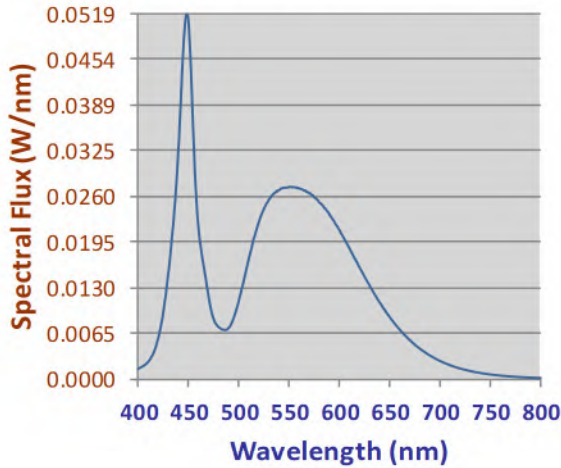
FL212 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL213		2/27/25	
Description	30 sec warmup	Test Time	10:17 AM
		Integration Time	597
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	24.7C, 24%RH	Sphere Geometry	2pi
		Sphere Temp	24.09
Scan ID	Scan id 13187	Lumens	1629.2
Scan Name	FL213		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
6132		72.34		0.3189		0.3385		0.0050		0.1985		0.4742	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
70	76	79	74	71	67	81	61	-27	41	71	44	70	88

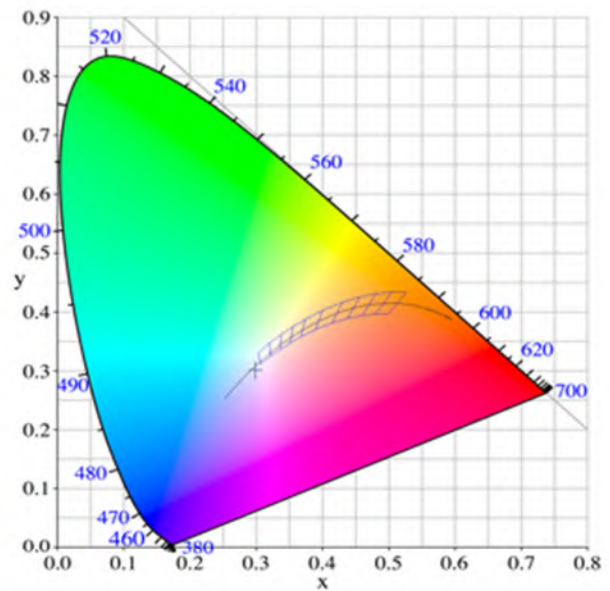
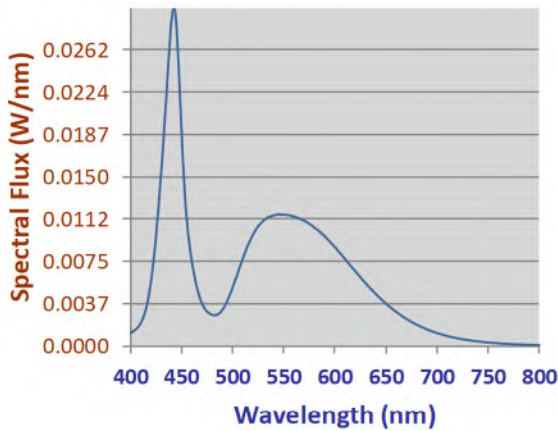
FL213 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL214		2/27/25	
Description	30 sec warmup	Test Time	10:49 AM
		Integration Time	1052.2
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	76%
Notes	24.8C, 24%RH	Sphere Geometry	2pi
		Sphere Temp	24.19
Scan ID	Scan id 13190	Lumens	693.7
Scan Name	FL214		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
7765		72.08		0.2993		0.3012		-0.0043		0.1990		0.4506	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
76	73	68	75	77	65	75	69	-3	33	79	50	73	81

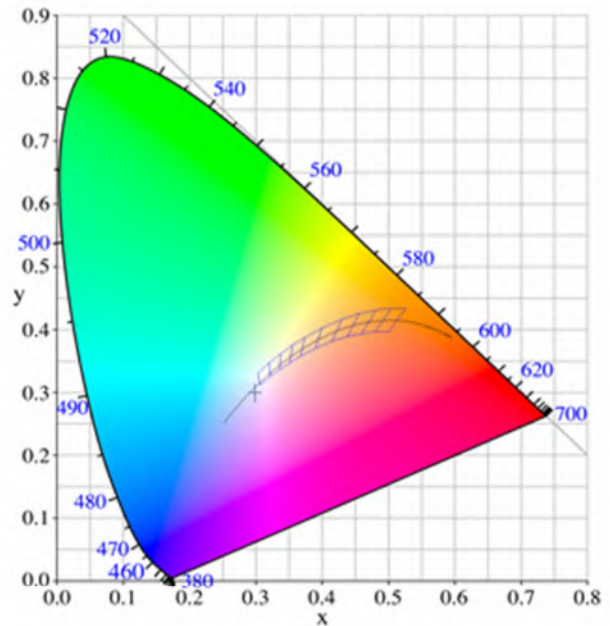
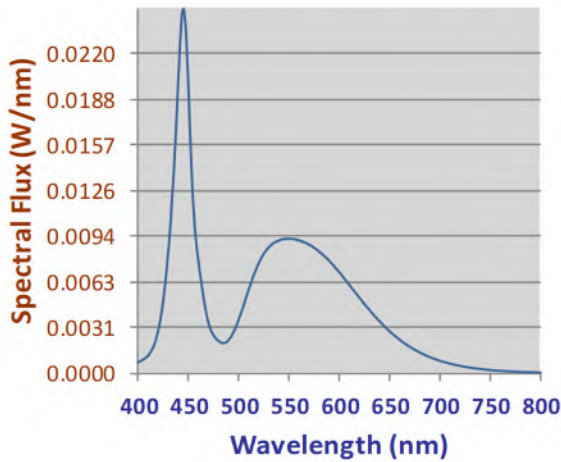
FL214 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL215		2/28/25	
Description	30 sec warmup	Test Time	9:34 AM
		Integration Time	1264.2
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	25.3C, 19%RH	Sphere Geometry	2pi
		Sphere Temp	24.63
Scan ID	Scan id 13203	Lumens	549.1
Scan Name	FL215		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
7854		72.73		0.2987		0.2996		-0.0048		0.1992		0.4496	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
76	74	69	76	77	65	77	69	-4	34	78	45	73	82

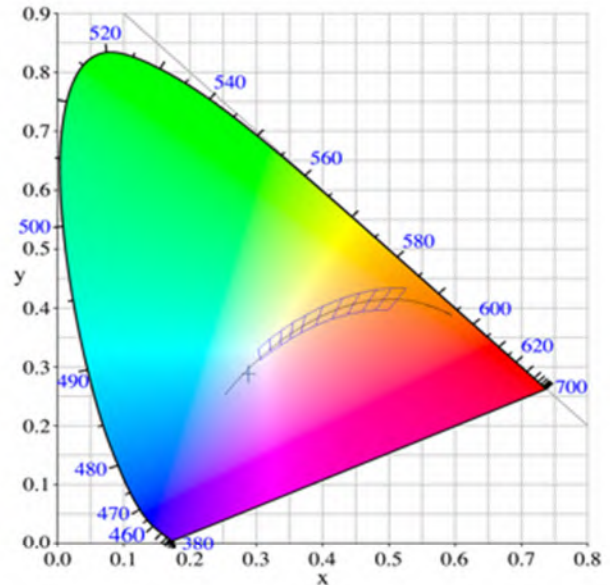
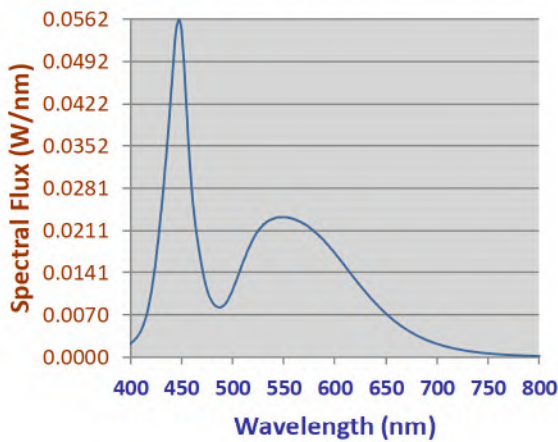
FL215 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL216				3/17/25	
Description	30 sec warmup			Test Time	8:23 AM
				Integration Time	535.8
Orientation	Horizontal			Scans Averaged	3
Test by	DW			Saturation	77%
Notes	26.4C, 18%RH			Sphere Geometry	2pi
				Sphere Temp	25.55
Scan ID	Scan id 13273			Lumens	1401.9
Scan Name	FL216				
Power	Battery Powered DUT, Power Not Monitored				

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9176		76.82		0.2882		0.2885		-0.0046		0.1959		0.4412	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
79	78	73	81	80	69	82	73	6	43	81	51	77	84

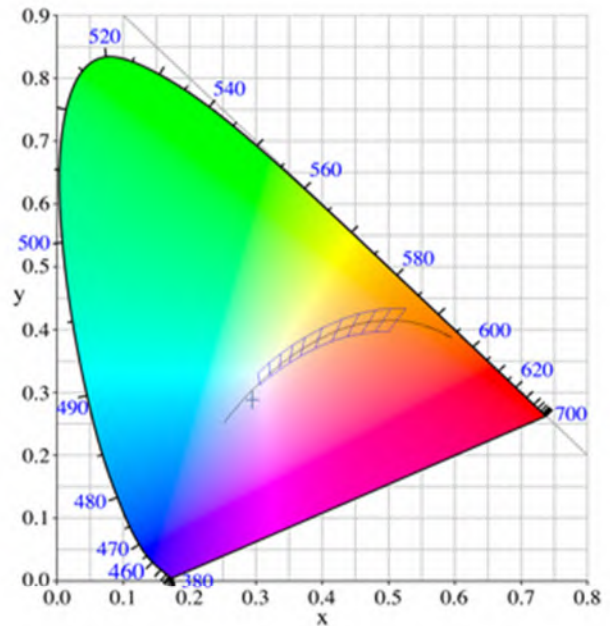
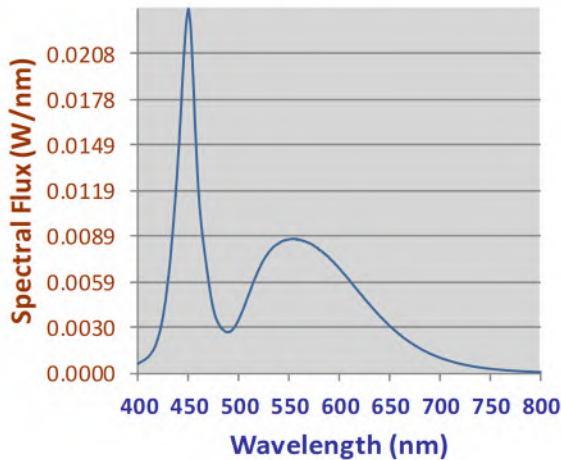
FL216 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL217		3/12/25	
Description	30 sec warmup	Test Time	12:41 PM
		Integration Time	1283.4
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	25.5C, 19%RH	Sphere Geometry	2pi
		Sphere Temp	24.63
Scan ID	Scan id 13241	Lumens	526.1
Scan Name	FL217		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8519		78.69		0.2950		0.2881		-0.0090		0.2012		0.4419	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82	80	73	83	81	70	84	77	22	47	81	47	80	84

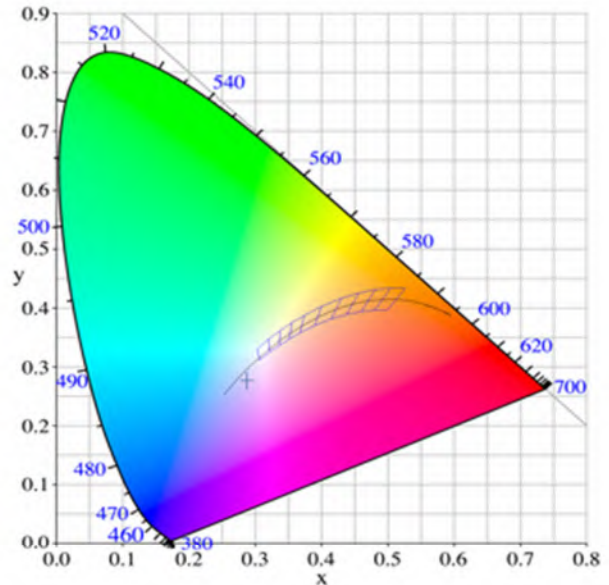
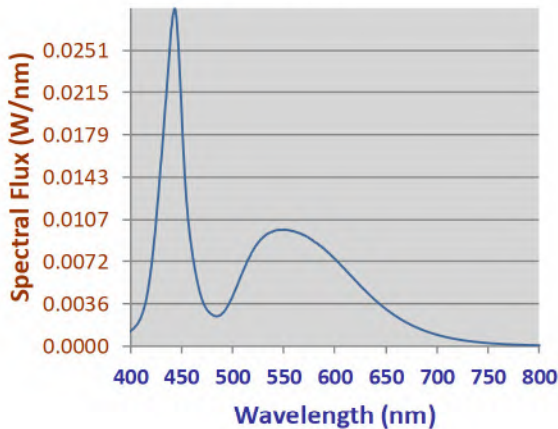
FL217 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL218				3/17/25	
Description	30 sec warmup			Test Time	1:55 PM
				Integration Time	1114.8
Orientation	Horizontal			Scans Averaged	3
Test by	DW			Saturation	77%
Notes	25.8C, 18%RH			Sphere Geometry	2pi
				Sphere Temp	24.88
Scan ID	Scan id 13284			Lumens	587.4
Scan Name	FL218				
Power	Battery Powered DUT, Power Not Monitored				

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9812		73.11		0.2879		0.2772		-0.0107		0.2002		0.4339	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80	73	62	77	81	64	75	74	16	30	83	50	75	78

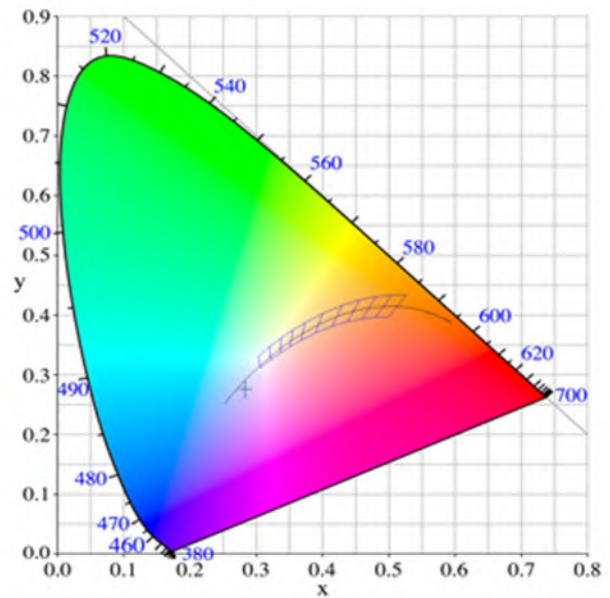
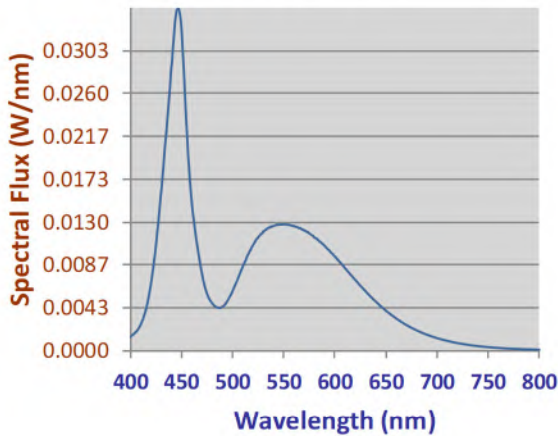
FL218 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE250113 FL219				3/14/25	
Description	30 sec warmup			Test Time	8:45 AM
				Integration Time	903.3
Orientation	Horizontal			Scans Averaged	3
Test by	DW			Saturation	79%
Notes	26.0C, 20%RH			Sphere Geometry	2pi
				Sphere Temp	25.03
Scan ID	Scan id 13262			Lumens	768.1
Scan Name	FL219				
Power	Battery Powered DUT, Power Not Monitored				

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
10466		76.68		0.2835		0.2759		-0.0086		0.1974		0.4323	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81	77	68	81	82	68	80	76	18	40	84	51	78	82

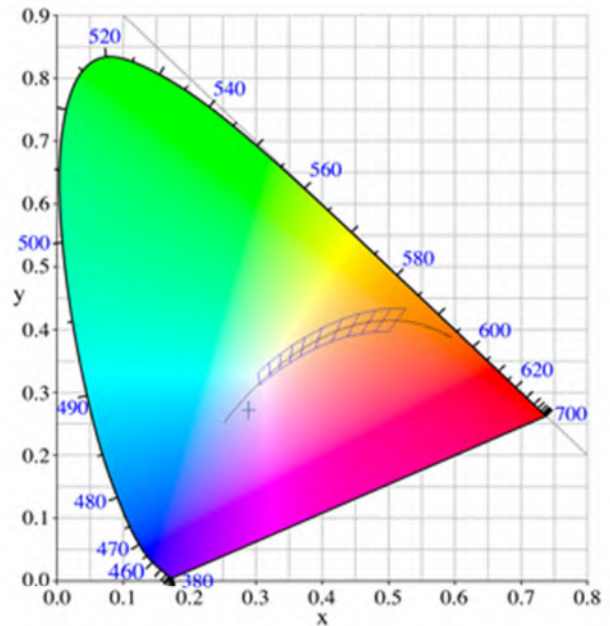
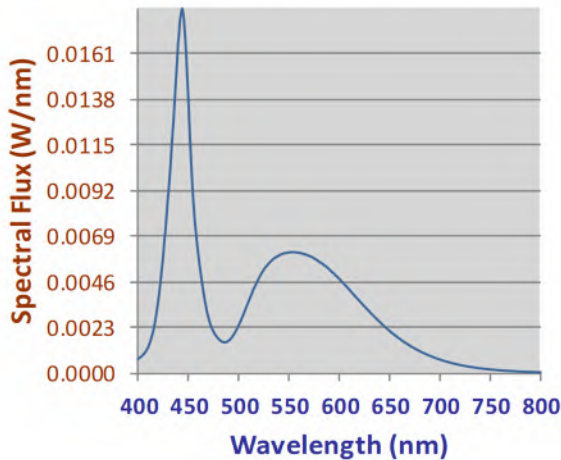
FL219 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL220		3/12/25	
Description	30 sec warmup	Test Time	1:05 PM
		Integration Time	1700.8
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	76%
Notes	25.8C, 19%RH	Sphere Geometry	2pi
		Sphere Temp	24.87
Scan ID	Scan id 13244	Lumens	365.4
Scan Name	FL220		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9963		74.84		0.2894		0.2718		-0.0148		0.2037		0.4305	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
83	74	61	79	83	64	76	78	31	33	85	50	78	77

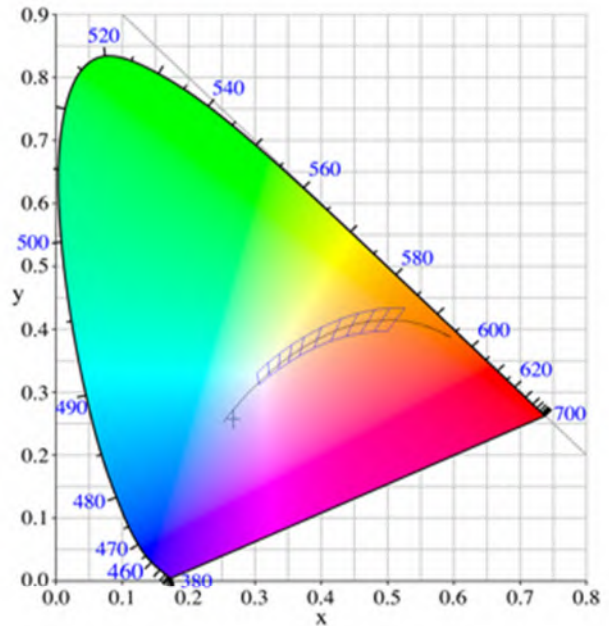
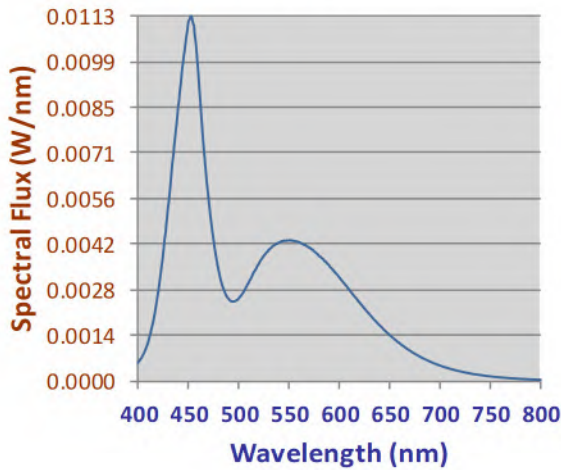
FL220 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL221		3/11/25	
Description	30 sec warmup	Test Time	1:13 PM
		Integration Time	2519
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	76%
Notes	25.8C 19%RH	Sphere Geometry	2pi
		Sphere Temp	25.06
Scan ID	Scan id 13229	Lumens	269.4
Scan Name	FL221		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
16171		83.83		0.2678		0.2571		-0.0084		0.1930		0.4170	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
86	86	78	88	84	76	89	83	39	59	84	58	86	87

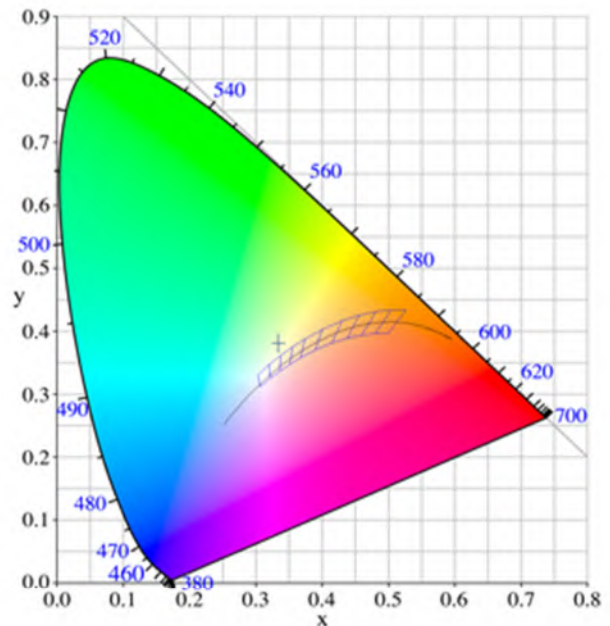
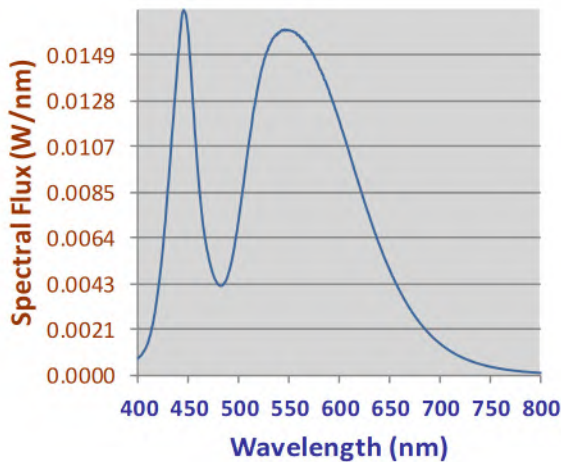
FL221 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL222		2/26/25	
Description	30 sec warmup	Test Time	11:55 AM
		Integration Time	1030
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	24.8C, 22%RH	Sphere Geometry	2pi
		Sphere Temp	24.32
Scan ID	Scan id 13177	Lumens	944.3
Scan Name	FL222		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
5458		68.55		0.3340		0.3809		0.0184		0.1935		0.4966	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
62	72	83	69	65	65	81	52	-55	37	65	43	63	91

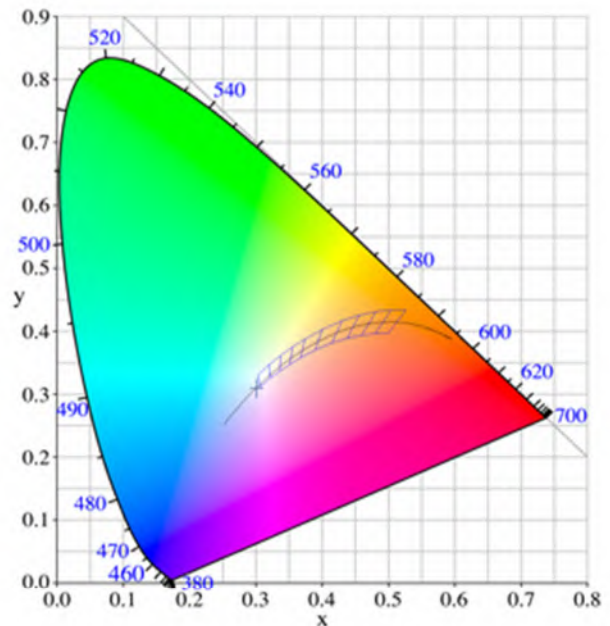
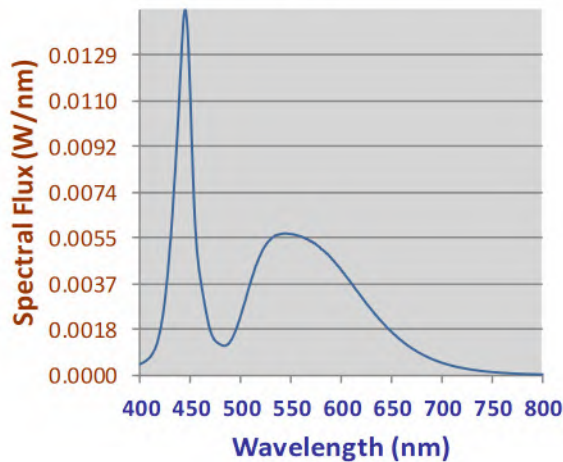
FL222 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL223		3/6/25	
Description	30 sec warmup	Test Time	11:38 AM
		Integration Time	2156.4
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	78%
Notes	23.4C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	22.61
Scan ID	Scan id 13204	Lumens	337.5
Scan Name	FL223		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
7419		71.46		0.3017		0.3095		-0.0011		0.1975		0.4559	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
73	73	70	74	75	64	77	66	-14	33	76	45	71	83

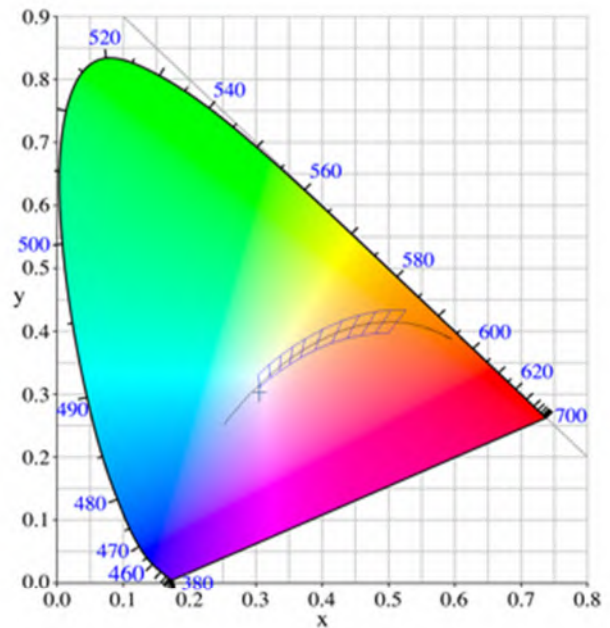
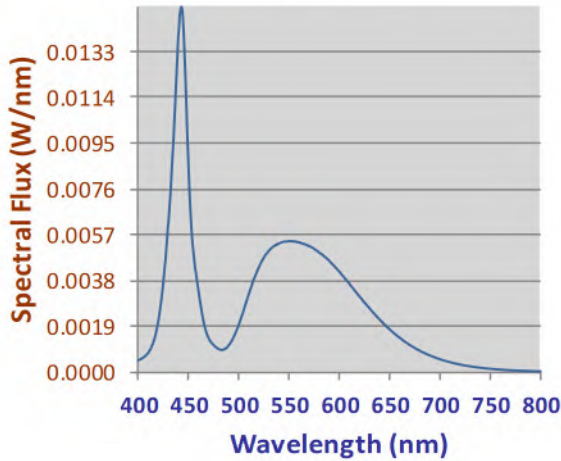
FL223 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL224		3/11/25	
Description	30 sec warmup	Test Time	12:53 PM
		Integration Time	2142
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	78%
Notes	25.6C 19%RH	Sphere Geometry	2pi
		Sphere Temp	24.98
Scan ID	Scan id 13227	Lumens	320.8
Scan Name	FL224		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
7286		70.67		0.3051		0.3033		-0.0065		0.2024		0.4527	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
75	71	65	74	76	62	74	68	-5	29	77	45	72	80

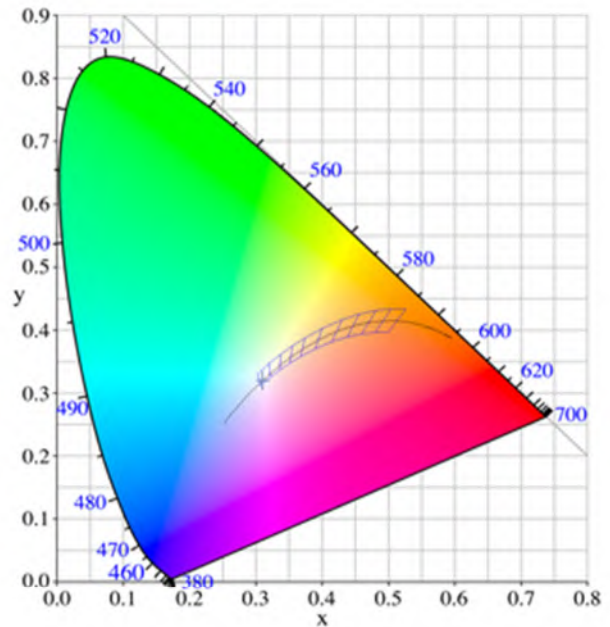
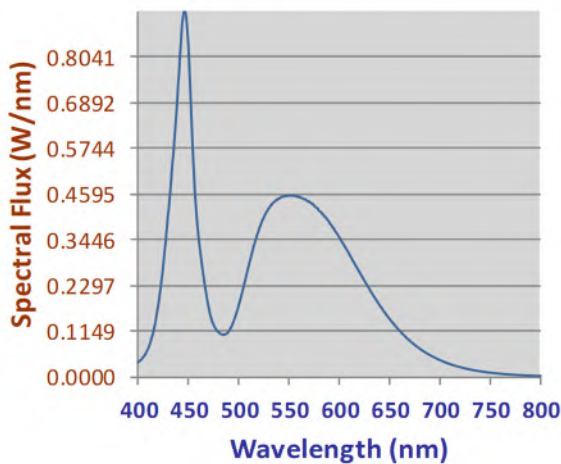
FL224 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL225		2/26/25	
Description	30 sec warmup	Test Time	2:23 PM
Orientation	Horizontal	Integration Time	33.6
Test by	DW	Scans Averaged	3
Notes	25.1C, 22%RH	Saturation	78%
Scan ID	Scan id 13179	Sphere Geometry	2pi
Scan Name	FL225	Sphere Temp	24.91
Power	Battery Powered DUT, Power Not Monitored	Lumens	27134.7

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
6704		72.25		0.3106		0.3199		-0.0004		0.1998		0.4631	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
73	74	73	75	74	66	79	65	-17	37	74	47	71	85

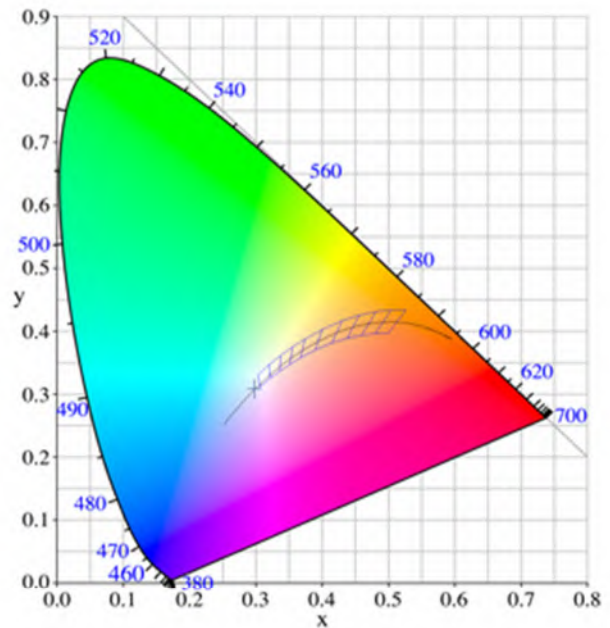
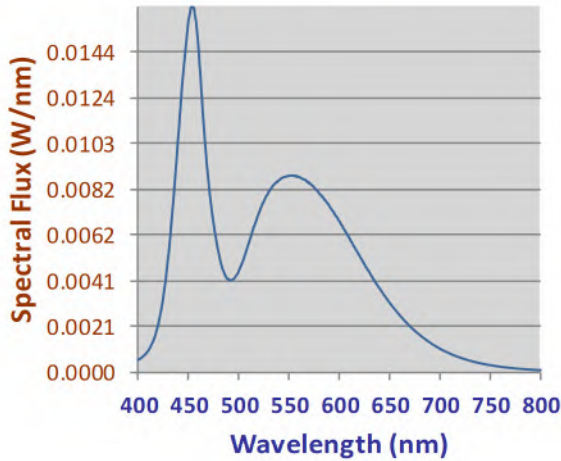
FL225 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL226		3/12/25	
Description	30 sec warmup	Test Time	12:49 PM
		Integration Time	1733.6
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	25.6C, 19%RH	Sphere Geometry	2pi
		Sphere Temp	24.72
Scan ID	Scan id 13242	Lumens	540.0
Scan Name	FL226		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
7666		80.77		0.2984		0.3089		0.0004		0.1953		0.4550	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
79	85	85	80	79	77	88	72	8	61	76	55	81	92

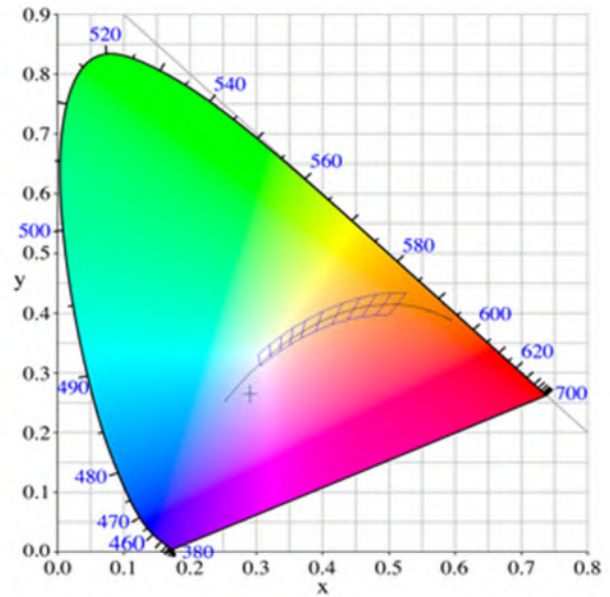
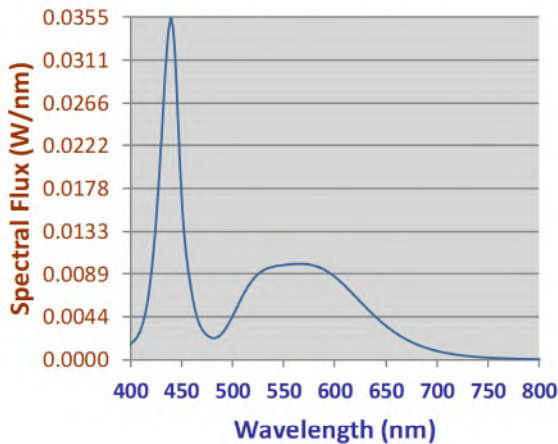
FL226 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE250113 FL227				3/14/25	
Description	30 sec warmup			Test Time	1:15 PM
				Integration Time	955.3
Orientation	Horizontal			Scans Averaged	3
Test by	DW			Saturation	79%
Notes	26.0C, 20%RH			Sphere Geometry	2pi
				Sphere Temp	26.41
Scan ID	Scan id 13269			Lumens	619.8
Scan Name	FL227				
Power	Battery Powered DUT, Power Not Monitored				

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
10266		73.26		0.2909		0.2649		-0.0198		0.2079		0.4260	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
86	72	56	74	87	64	71	76	40	29	85	54	77	74

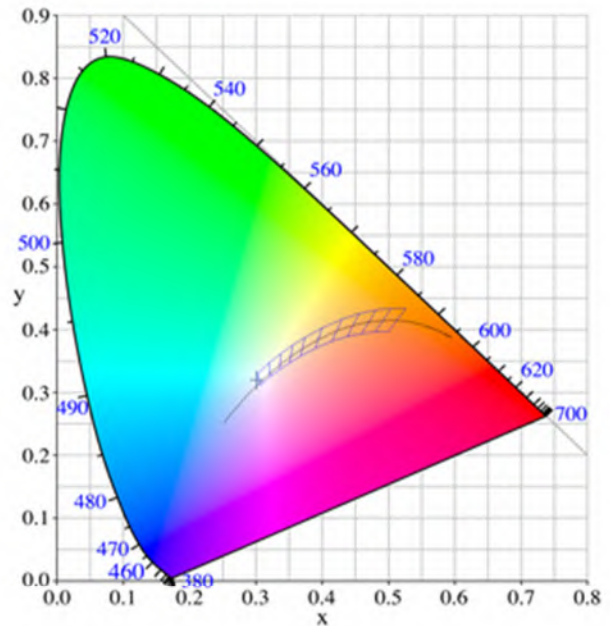
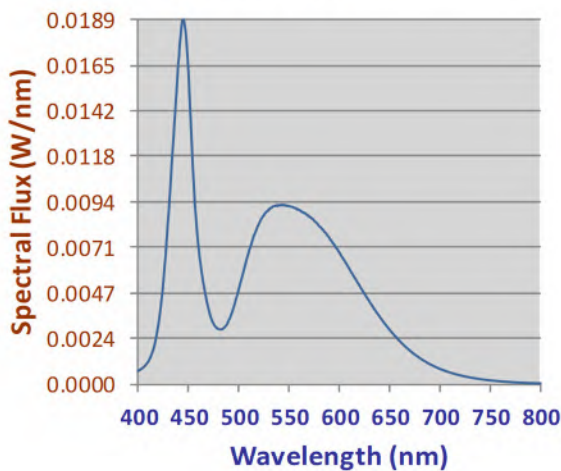
FL227 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL228		3/12/25	
Description	30 sec warmup	Test Time	12:55 PM
		Integration Time	1587.9
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	74%
Notes	25.6C, 19%RH	Sphere Geometry	2pi
		Sphere Temp	24.79
Scan ID	Scan id 13243	Lumens	556.8
Scan Name	FL228		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
7252		73.59		0.3017		0.3198		0.0043		0.1935		0.4617	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
73	75	77	76	75	69	80	65	-19	41	76	52	72	87

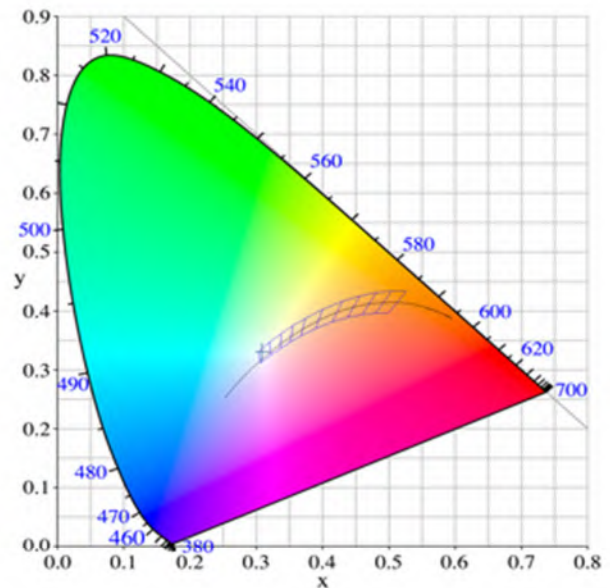
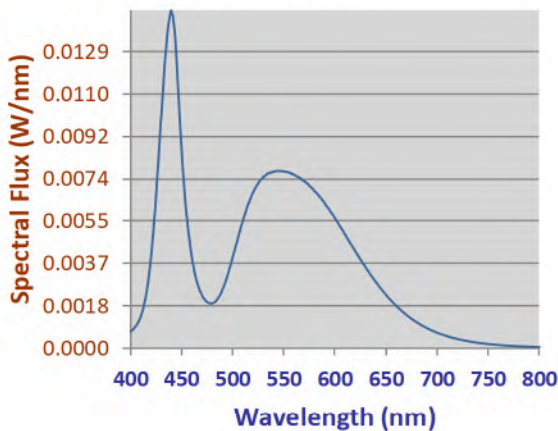
FL228 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL229		3/17/25	
Description	30 sec warmup	Test Time	8:40 AM
Orientation	Horizontal	Integration Time	2036.4
Test by	DW	Scans Averaged	3
Notes	26.4C, 18%RH	Saturation	73%
Scan ID	Scan id 13275	Sphere Geometry	2pi
Scan Name	FL229	Sphere Temp	25.46
Power	Battery Powered DUT, Power Not Monitored	Lumens	457.1

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
6690		70.38		0.3091		0.3305		0.0058		0.1947		0.4686	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
69	72	75	72	72	66	76	61	-30	35	74	51	68	86

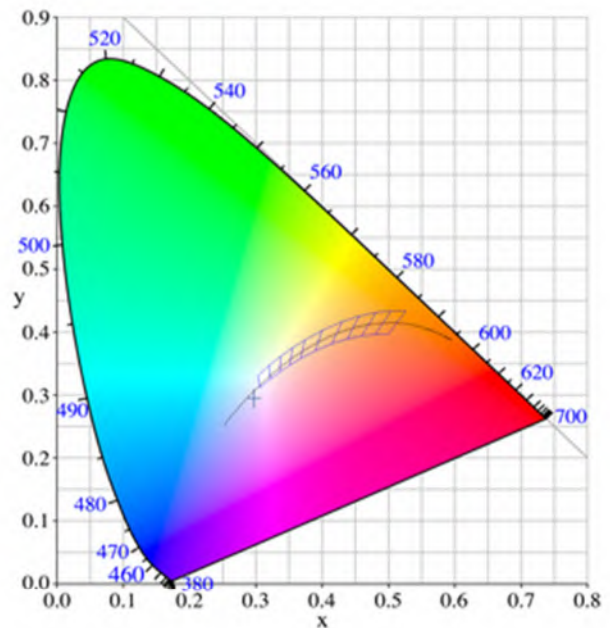
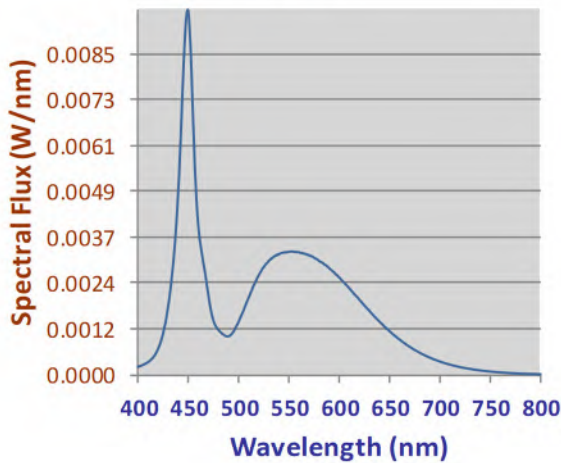
FL229 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL230		3/7/25	
Description	30 sec warmup	Test Time	11:14 AM
		Integration Time	2683.6
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	67%
Notes	24.6C, 19%RH	Sphere Geometry	2pi
		Sphere Temp	23.87
Scan ID	Scan id 13212	Lumens	199.8
Scan Name	FL230		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8085		78.67		0.2974		0.2948		-0.0067		0.2002		0.4465	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81	81	75	82	80	71	84	76	17	49	81	47	80	85

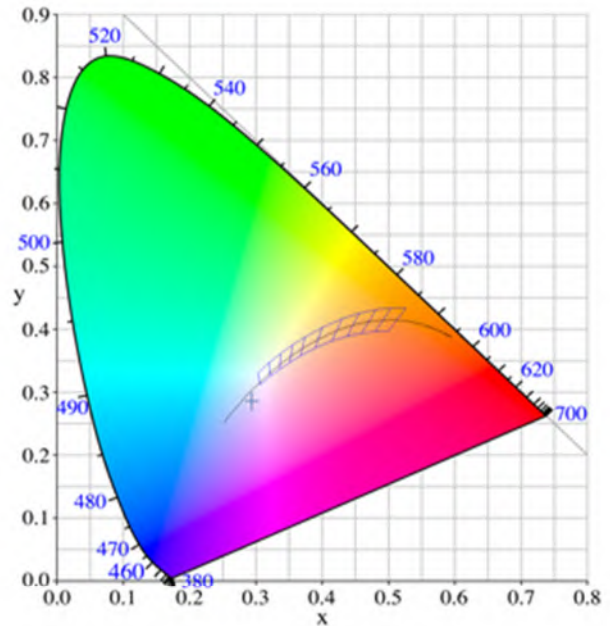
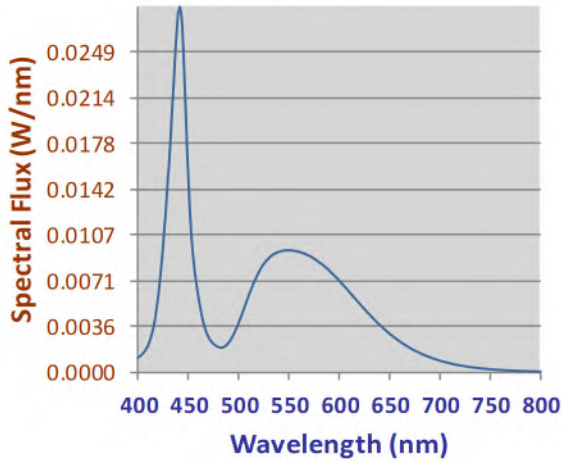
FL230 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL231		2/27/25	
Description	30 sec warmup	Test Time	1:48 PM
		Integration Time	1120.7
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	76%
Notes	25.1C, 24%RH	Sphere Geometry	2pi
		Sphere Temp	24.54
Scan ID	Scan id 13192	Lumens	561.2
Scan Name	FL231		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8679		70.69		0.2941		0.2863		-0.0095		0.2012		0.4406	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
78	70	61	73	79	62	72	70	6	26	80	48	73	77

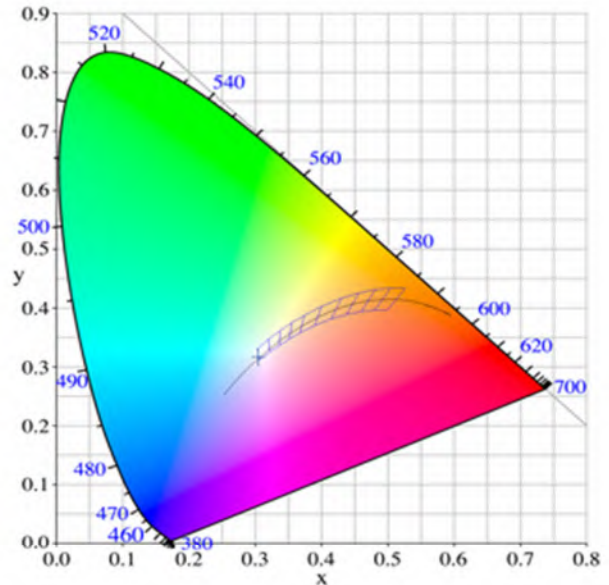
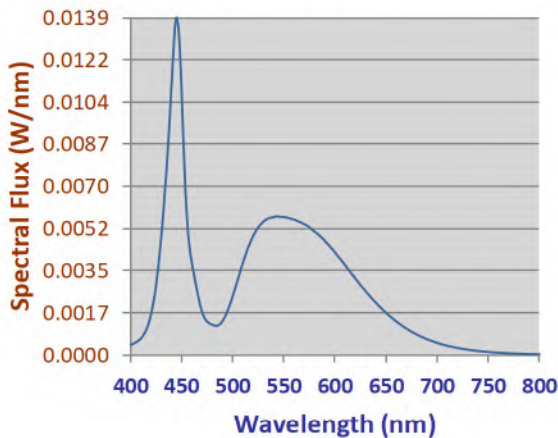
FL231 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL232		3/17/25	
Description	30 sec warmup	Test Time	11:26 AM
		Integration Time	2261
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	78%
Notes	25.8C, 18%RH	Sphere Geometry	2pi
		Sphere Temp	24.83
Scan ID	Scan id 13281	Lumens	338.5
Scan Name	FL232		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
7086		71.34		0.3049		0.3170		0.0010		0.1969		0.4606	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
72	73	72	74	74	65	77	65	-19	34	75	45	71	84

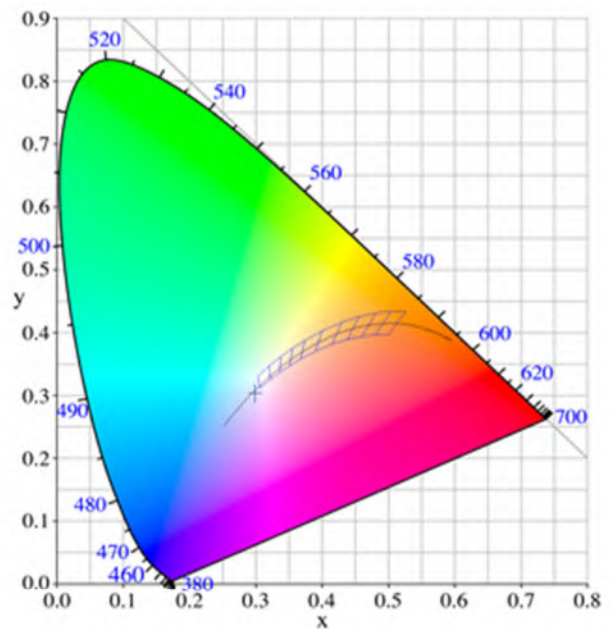
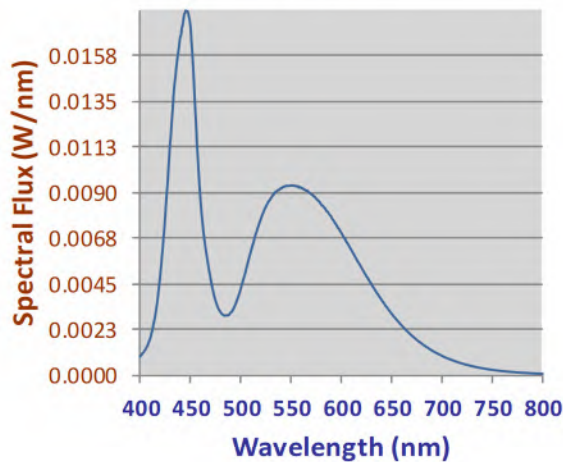
FL232 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL233		3/11/25	
Description	30 sec warmup	Test Time	9:43 AM
		Integration Time	1605.9
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	73%
Notes	25.3C 19%RH	Sphere Geometry	2pi
		Sphere Temp	24.67
Scan ID	Scan id 13223	Lumens	557.9
Scan Name	FL233		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
7740		74.73		0.2990		0.3035		-0.0028		0.1979		0.4519	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
76	76	73	78	78	68	80	70	-2	40	78	53	75	84

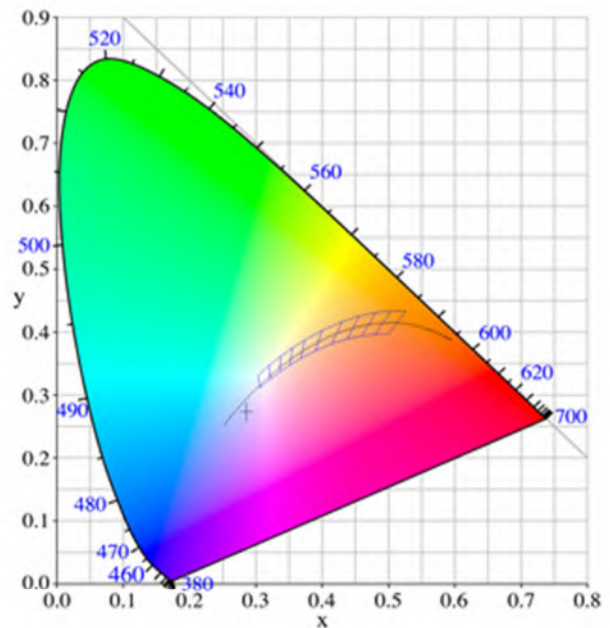
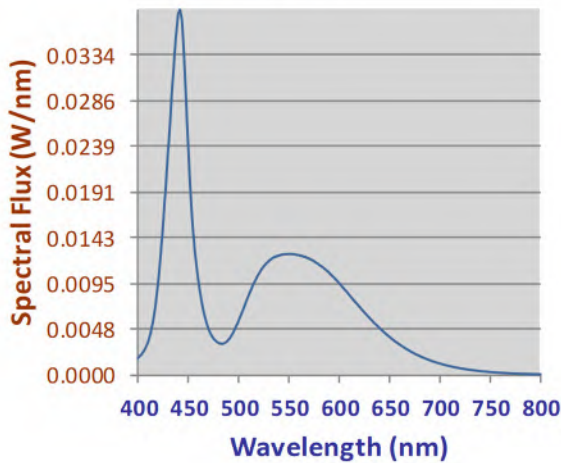
FL233 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL234		2/26/25	
Description	30 sec warmup	Test Time	2:42 PM
		Integration Time	843.2
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	25.1C, 22%RH	Sphere Geometry	2pi
		Sphere Temp	24.62
Scan ID	Scan id 13180	Lumens	758.5
Scan Name	FL234		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
10288		72.40		0.2862		0.2733		-0.0118		0.2006		0.4310	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81	72	60	75	82	64	73	73	16	28	83	51	75	77

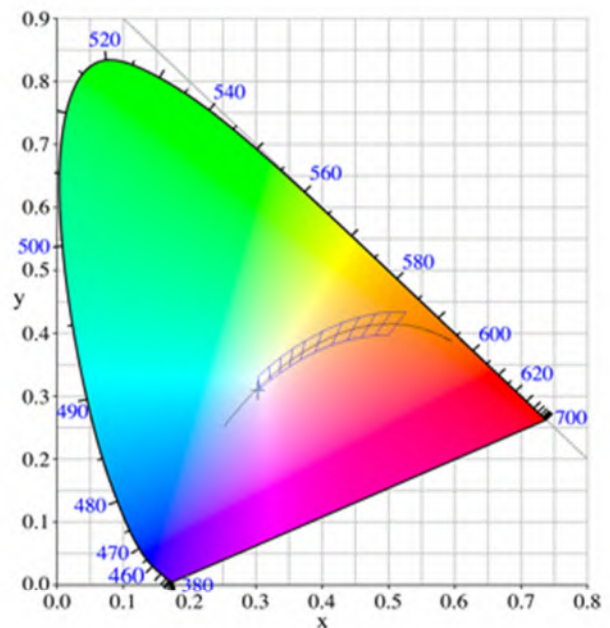
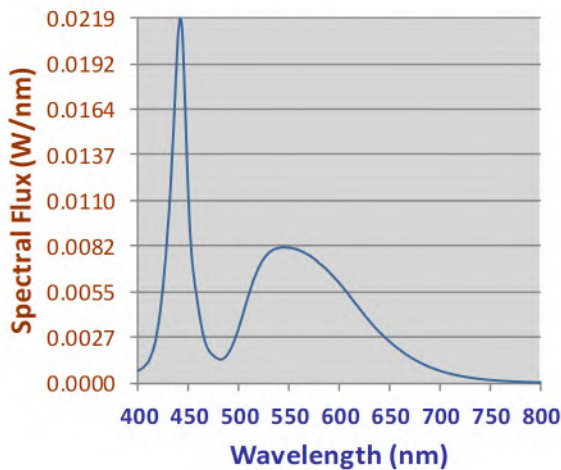
FL234 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL235		3/13/25	
Description	30 sec warmup	Test Time	12:56 PM
		Integration Time	1482.1
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	78%
Notes	26.0C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	25.08
Scan ID	Scan id 13257	Lumens	479.9
Scan Name	FL235		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
7338		69.55		0.3028		0.3096		-0.0018		0.1983		0.4560	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
73	70	67	72	74	63	73	65	-15	28	76	46	70	81

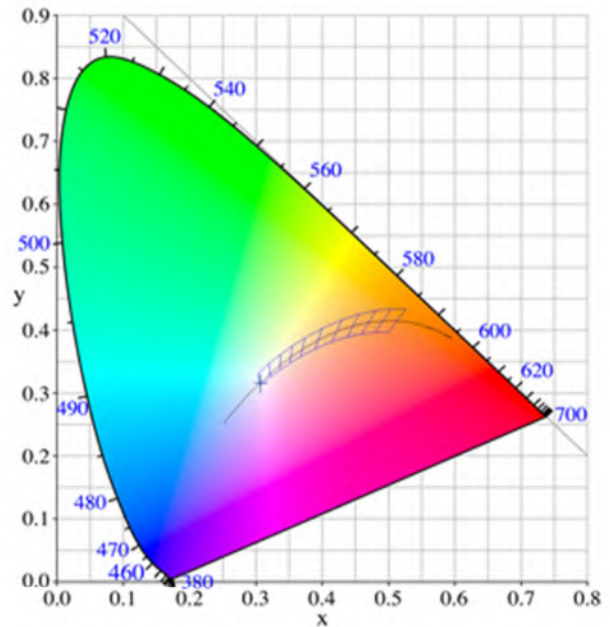
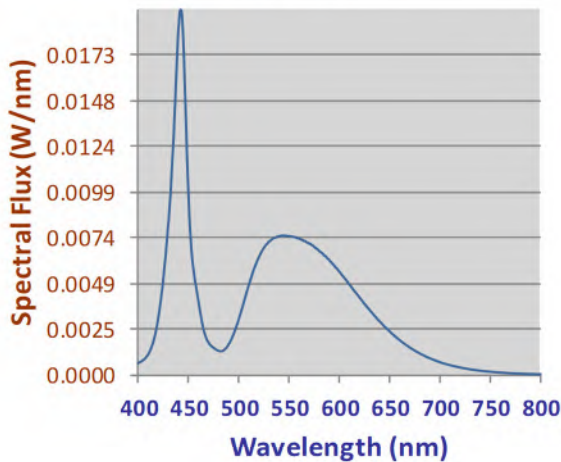
FL235 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL236		2/25/25	
Description	30 sec warmup	Test Time	11:16 AM
		Integration Time	1723.6
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	82%
Notes	24.7C, 21%RH	Sphere Geometry	2pi
		Sphere Temp	24.15
Scan ID	Scan id 13165	Lumens	442.8
Scan Name	FL236		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
6954		69.46		0.3072		0.3161		-0.0006		0.1988		0.4605	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
72	70	68	72	73	63	74	64	-18	29	75	45	69	82

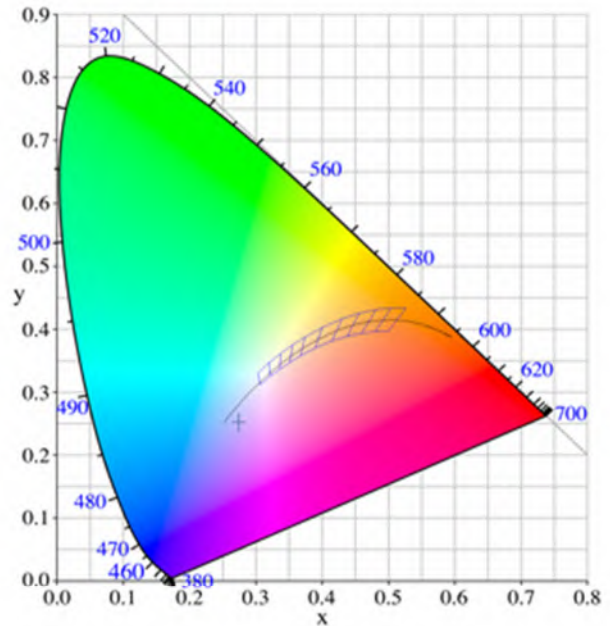
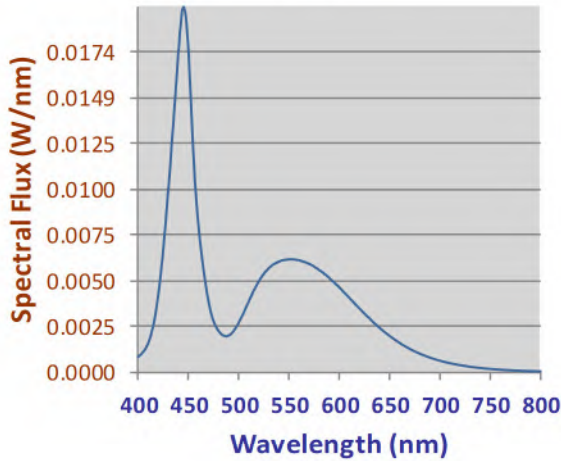
FL236 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL237		2/28/25	
Description	30 sec warmup	Test Time	9:20 AM
		Integration Time	1514.7
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	75%
Notes	25.3C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	24.6
Scan ID	Scan id 13202	Lumens	370.1
Scan Name	FL237		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
15304		75.90		0.2747		0.2526		-0.0158		0.2004		0.4147	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
85	74	59	83	84	64	78	81	39	32	88	49	79	76

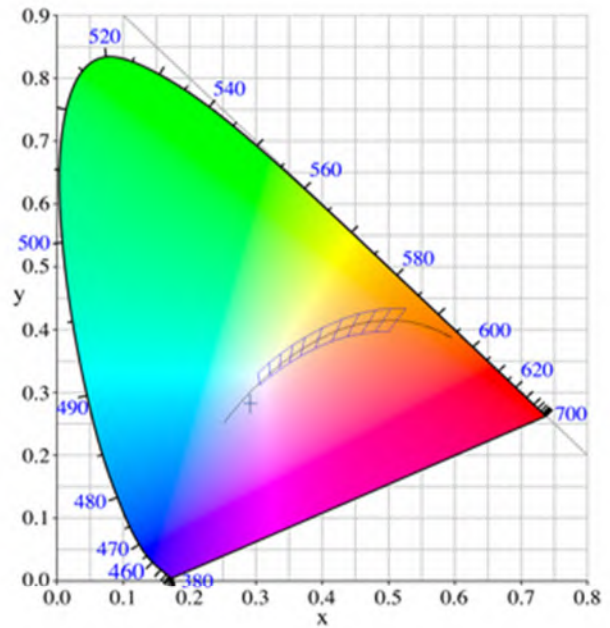
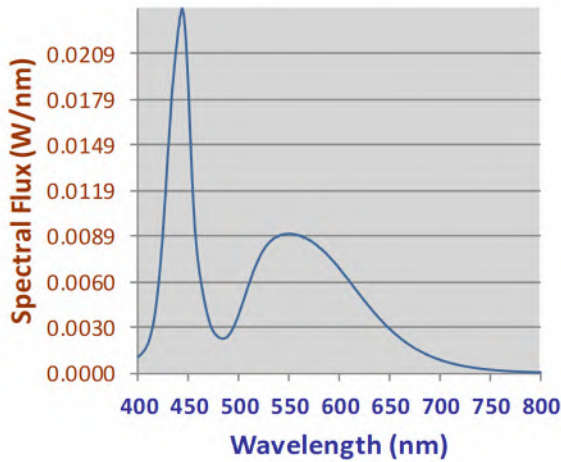
FL237 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL238		2/26/25	
Description	30 sec warmup	Test Time	11:34 AM
		Integration Time	1335.7
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	78%
Notes	24.8C, 22%RH	Sphere Geometry	2pi
		Sphere Temp	24.25
Scan ID	Scan id 13175	Lumens	542.0
Scan Name	FL238		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9107		72.88		0.2913		0.2831		-0.0095		0.2004		0.4382	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
79	73	63	76	80	64	75	72	11	31	82	50	75	79

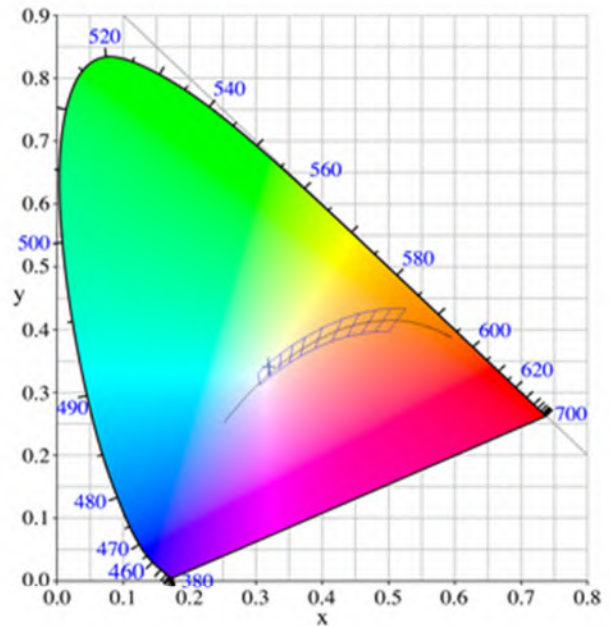
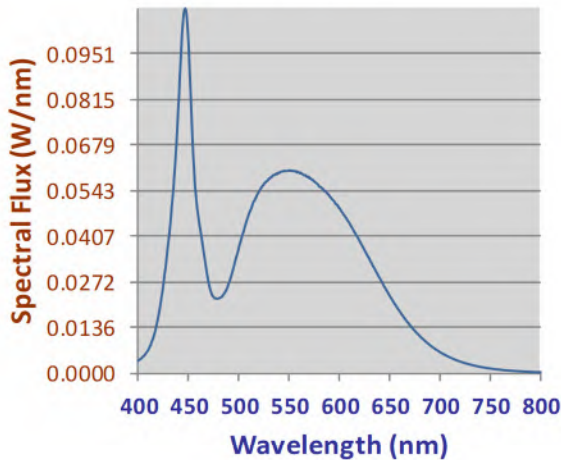
FL238 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL239		2/25/25	
Description	30 sec warmup	Test Time	2:34 PM
Orientation	Horizontal	Integration Time	280.7
Test by	DW	Scans Averaged	3
Notes	25.3C, 21%RH	Saturation	80%
Scan ID	Scan id 13167	Sphere Geometry	2pi
Scan Name	FL239	Sphere Temp	24.82
Power	Battery Powered DUT, Power Not Monitored	Lumens	3768.5

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
6105		77.87		0.3192		0.3416		0.0064		0.1976		0.4758	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
76	80	84	79	77	75	84	67	-6	54	79	58	76	91

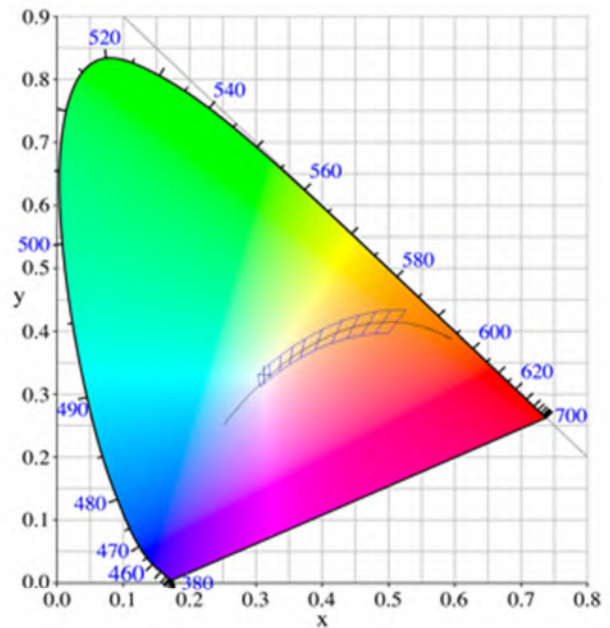
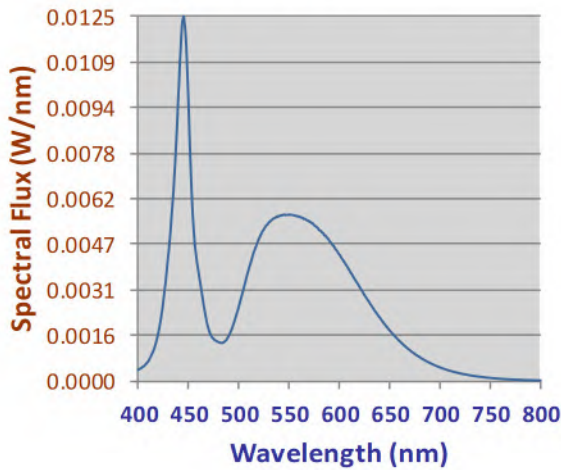
FL239 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL240		2/27/25	
Description	30 sec warmup	Test Time	3:46 PM
		Integration Time	2511.4
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	78%
Notes	25.3C, 24%RH	Sphere Geometry	2pi
		Sphere Temp	24.88
Scan ID	Scan id 13197	Lumens	341.1
Scan Name	FL240		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
6504		71.23		0.3125		0.3304		0.0040		0.1972		0.4690	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
70	73	75	73	72	66	78	62	-27	37	73	46	69	86

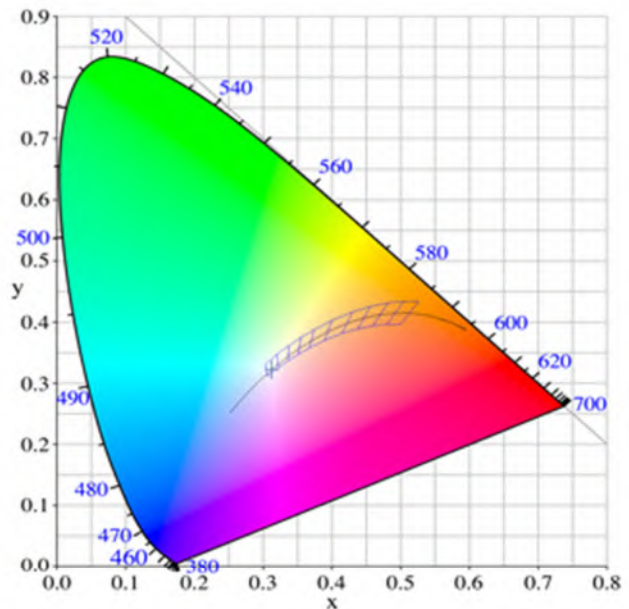
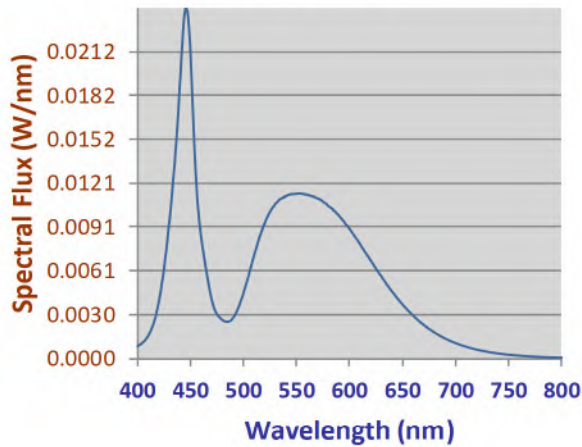
FL240 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL241				3/18/25	
Description	30 sec warmup			Test Time	8:54 AM
				Integration Time	1338.4
Orientation	Horizontal			Scans Averaged	3
Test by	DW			Saturation	81%
Notes	24.9C, 20%RH			Sphere Geometry	2pi
				Sphere Temp	24.27
Scan ID	Scan id 13479			Lumens	682.6
Scan Name	FL241				
Power	Externally Powered DUT, Power Not Monitored				

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
6537		72.44		0.3130		0.3224		-0.0004		0.2006		0.4648	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
73	75	74	75	74	66	79	65	-16	38	75	46	72	85

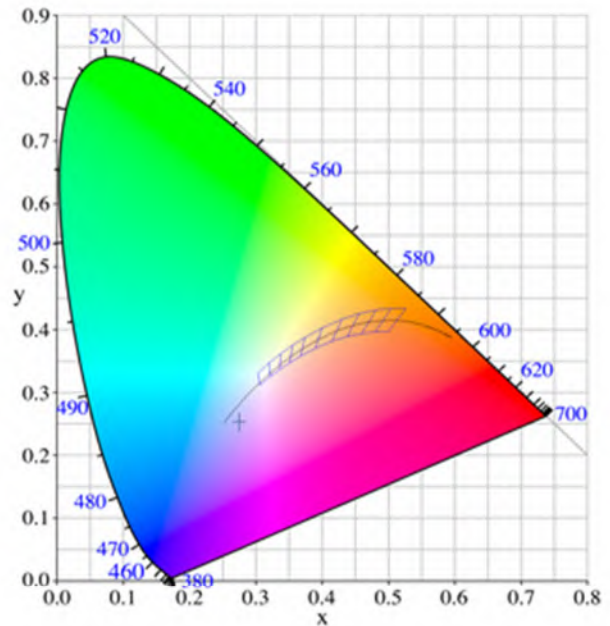
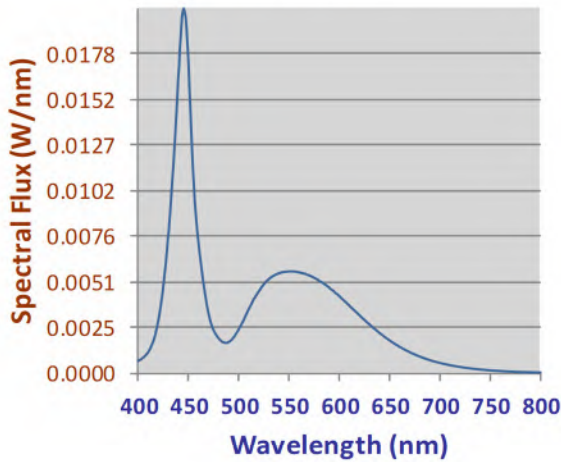
FL241 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL242		3/12/25	
Description	30 sec warmup	Test Time	8:14 AM
		Integration Time	1566
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	24.3C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	23.74
Scan ID	Scan id 13233	Lumens	342.0
Scan Name	FL242		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
14893		75.93		0.2755		0.2534		-0.0159		0.2007		0.4154	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
84	75	59	83	84	64	78	81	39	33	88	47	79	76

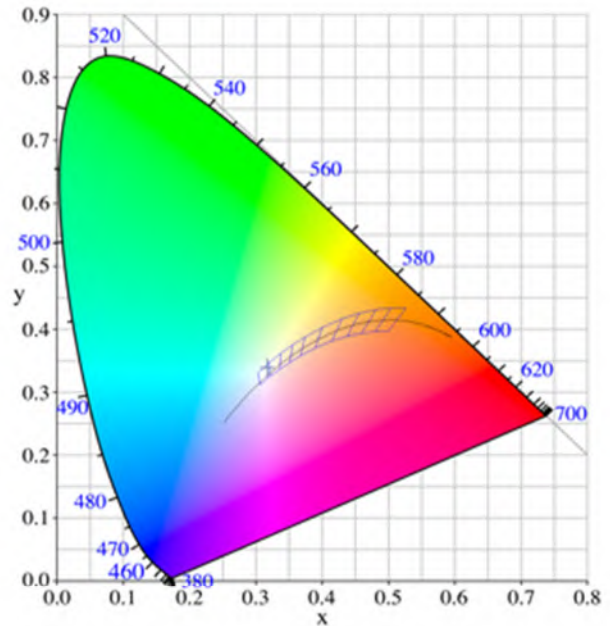
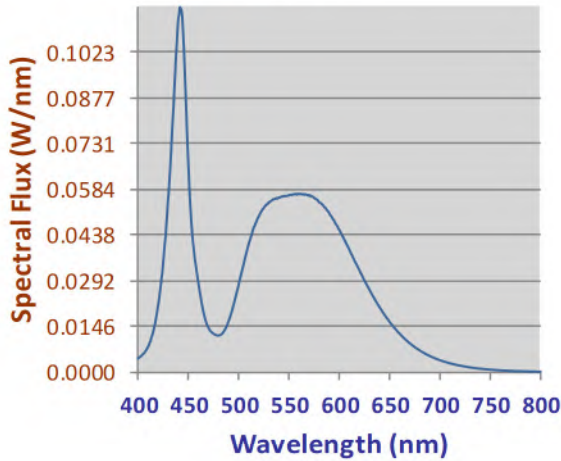
FL242 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL243		3/12/25	
Description	30 sec warmup	Test Time	8:46 AM
		Integration Time	268.5
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	75%
Notes	24.7C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	23.97
Scan ID	Scan id 13237	Lumens	3465.2
Scan Name	FL243		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
6173		69.44		0.3180		0.3387		0.0055		0.1979		0.4742	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
67	72	77	71	70	65	76	56	-43	35	73	49	67	87

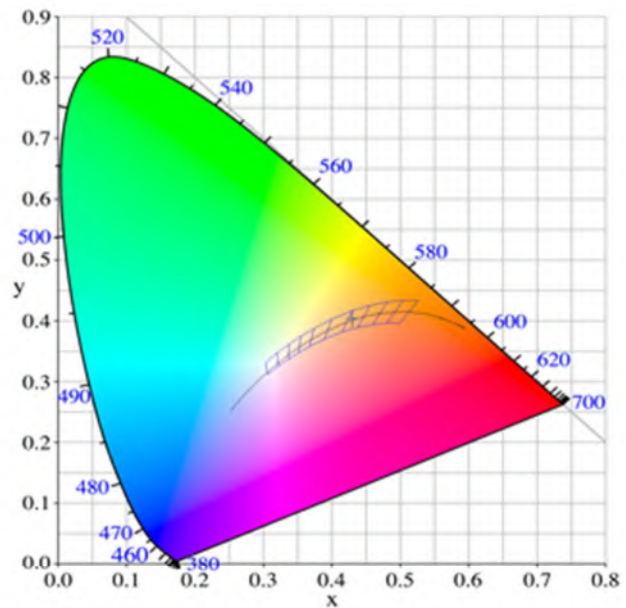
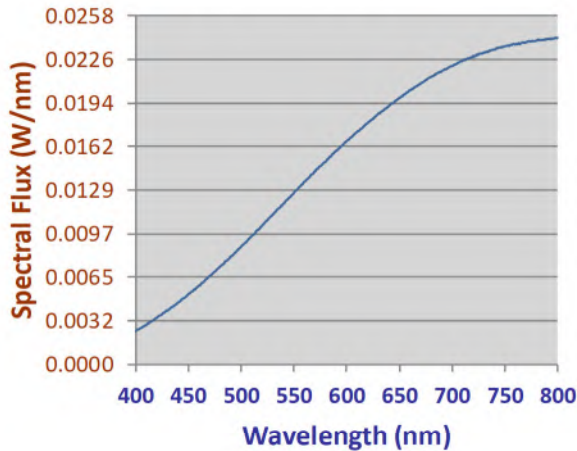
FL243 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL244		3/17/25	
Description	30 sec warmup	Test Time	1:29 PM
		Integration Time	681.3
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	25.6C, 18%RH	Sphere Geometry	2pi
		Sphere Temp	24.94
Scan ID	Scan id 13282	Lumens	980.2
Scan Name	FL244		
Power	Externally Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
3109		99.13		0.4305		0.4038		0.0008		0.2465		0.5203	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
99	99	100	99	99	99	100	99	96	98	99	98	99	100

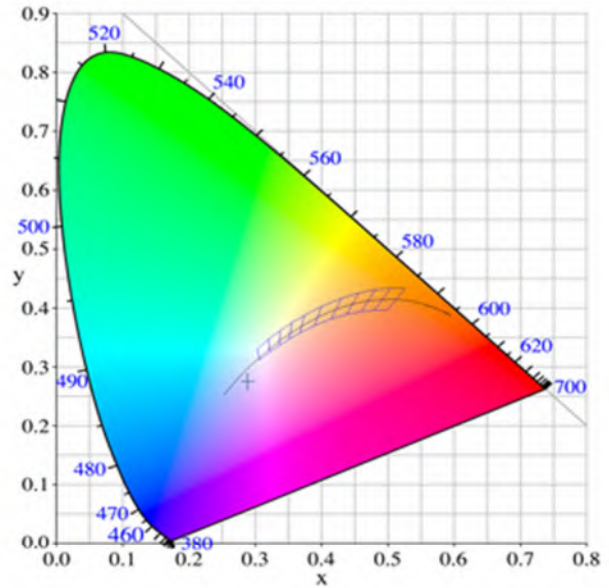
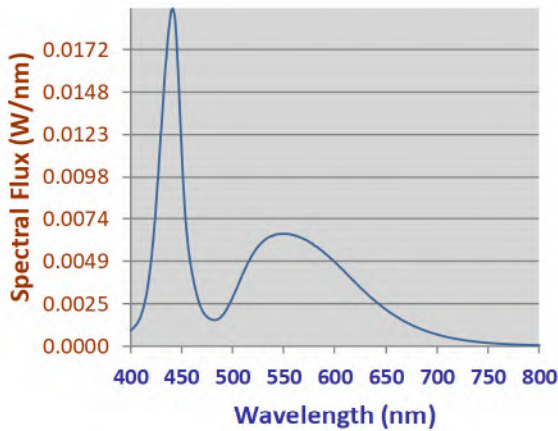
FL244 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL245		3/18/25	
Description	30 sec warmup	Test Time	8:43 AM
		Integration Time	1673
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	78%
Notes	24.9C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	24.16
Scan ID	Scan id 13478	Lumens	387.5
Scan Name	FL245		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9878		71.54		0.2882		0.2755		-0.0119		0.2013		0.4327	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81	71	59	74	81	63	72	73	18	26	83	50	74	76

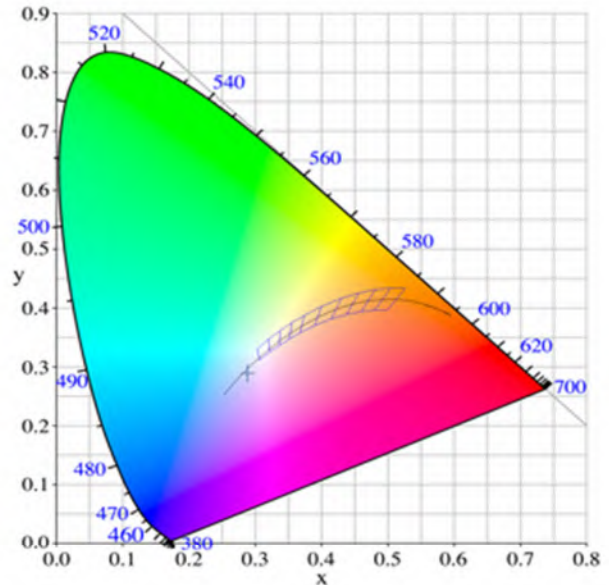
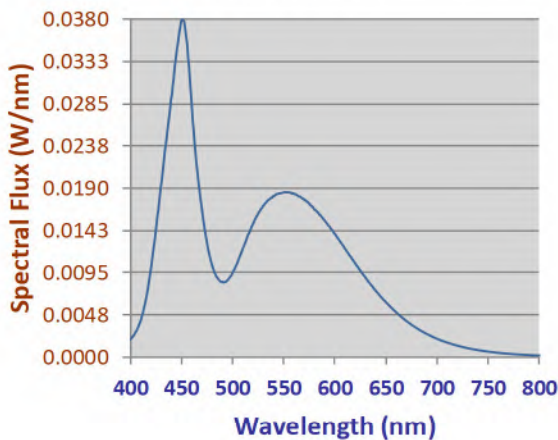
FL245 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL246				3/18/25	
Description	30 sec warmup			Test Time	8:26 AM
				Integration Time	750.3
Orientation	Horizontal			Scans Averaged	3
Test by	DW			Saturation	75%
Notes	24.9C, 20%RH			Sphere Geometry	2pi
				Sphere Temp	24.12
Scan ID	Scan id 13476			Lumens	1121.2
Scan Name	FL246				
Power	Battery Powered DUT, Power Not Monitored				

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9166		80.09		0.2880		0.2891		-0.0041		0.1955		0.4415	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81	82	78	83	81	74	86	75	14	53	80	57	81	87

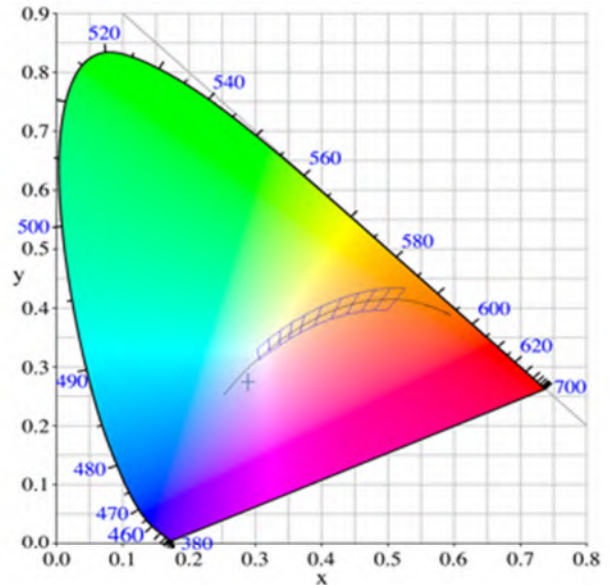
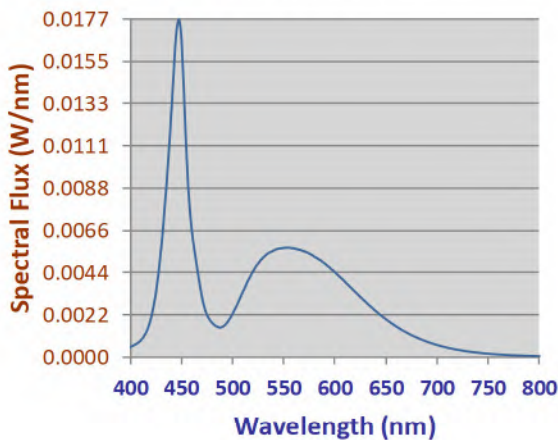
FL246 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL247		3/18/25	
Description	30 sec warmup	Test Time	9:04 AM
		Integration Time	1743.3
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	78%
Notes	24.9C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	24.27
Scan ID	Scan id 13480	Lumens	343.8
Scan Name	FL247		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9850		76.92		0.2889		0.2746		-0.0128		0.2021		0.4323	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
83	77	66	83	82	66	80	79	29	39	84	47	79	80

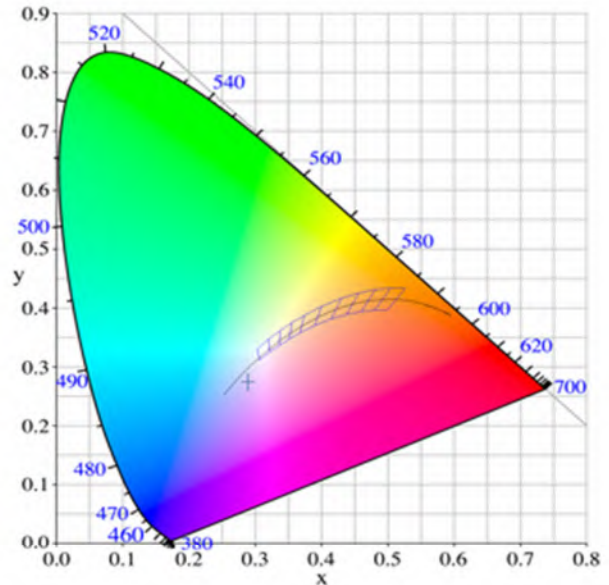
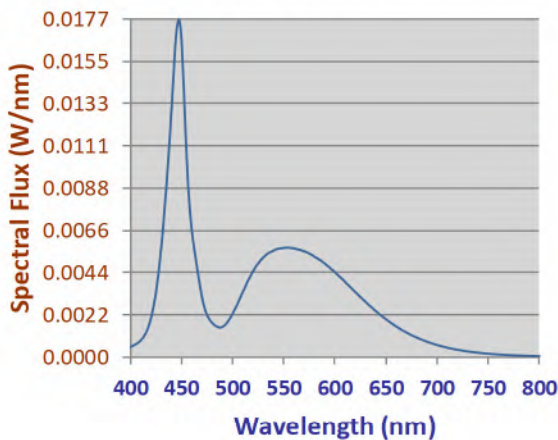
FL247 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL247				3/18/25	
Description	30 sec warmup			Test Time	9:04 AM
				Integration Time	1743.3
Orientation	Horizontal			Scans Averaged	3
Test by	DW			Saturation	78%
Notes	24.9C, 20%RH			Sphere Geometry	2pi
				Sphere Temp	24.27
Scan ID	Scan id 13480			Lumens	343.8
Scan Name	FL247				
Power	Battery Powered DUT, Power Not Monitored				

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9850		76.92		0.2889		0.2746		-0.0128		0.2021		0.4323	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
83	77	66	83	82	66	80	79	29	39	84	47	79	80

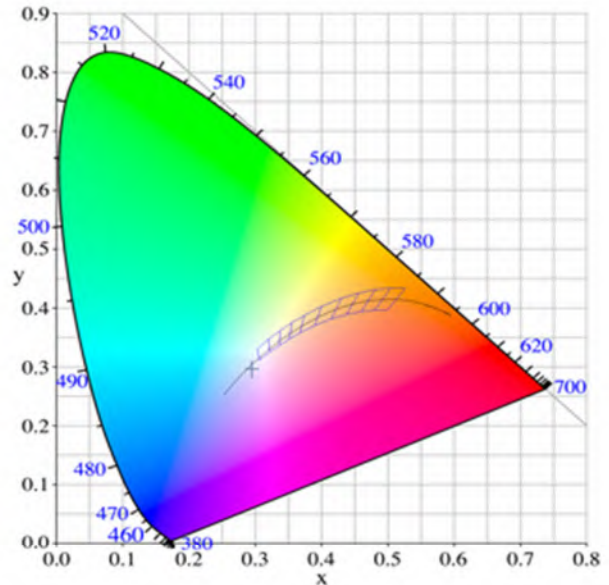
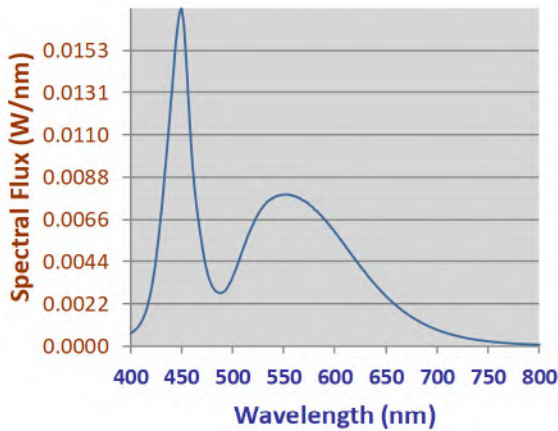
FL248 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL249		3/18/25	
Description	30 sec warmup	Test Time	12:40 PM
		Integration Time	1645.5
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	74%
Notes	25.1C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	24.55
Scan ID	Scan id 13487	Lumens	471.0
Scan Name	FL249		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8273		77.38		0.2946		0.2966		-0.0041		0.1974		0.4471	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
79	79	75	80	79	70	83	73	6	46	79	51	78	86

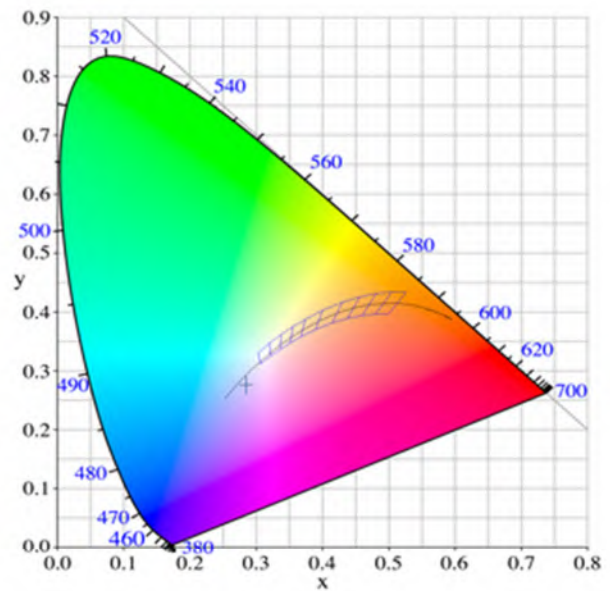
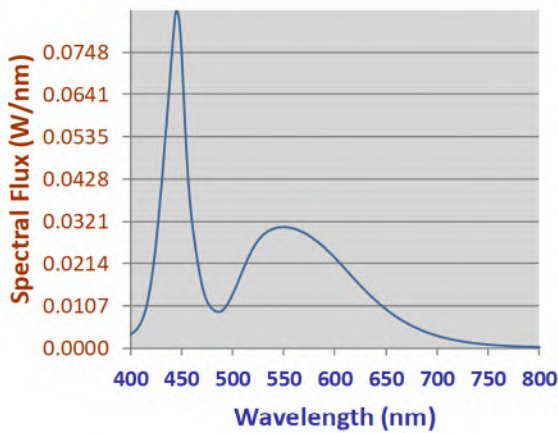
FL249 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL250		3/18/25	
Description	30 sec warmup	Test Time	8:16 AM
Orientation	Horizontal	Integration Time	359.5
Test by	DW	Scans Averaged	3
Notes	24.8C, 21%RH	Saturation	77%
Scan ID	Scan id 13475	Sphere Geometry	2pi
Scan Name	FL250	Sphere Temp	24.09
Power	Battery Powered DUT, Power Not Monitored	Lumens	1829.3

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
10194		75.42		0.2854		0.2761		-0.0097		0.1988		0.4327	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81	75	65	80	81	66	78	76	18	36	83	50	77	80

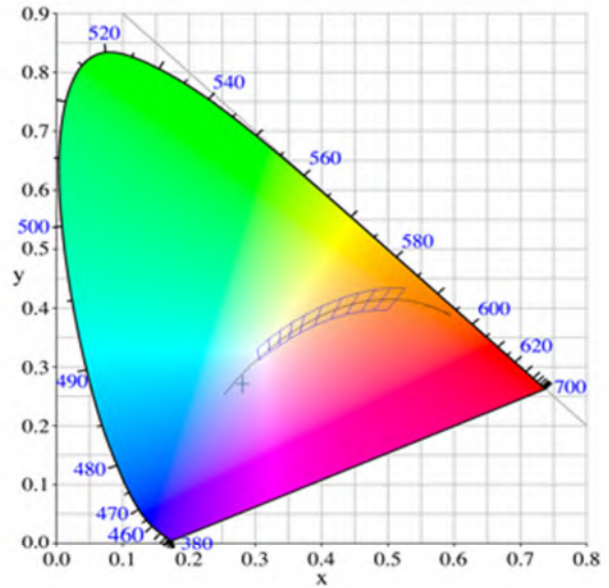
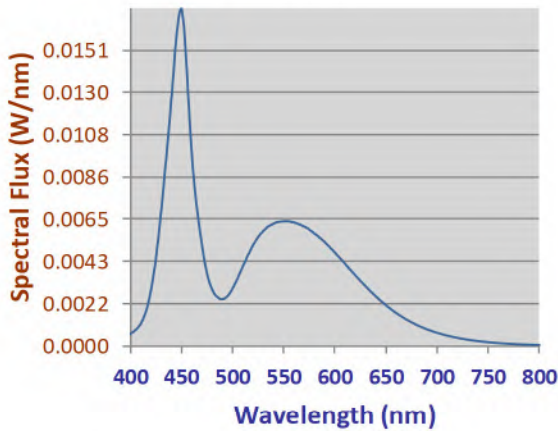
FL250 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL251				3/18/25	
Description	30 sec warmup			Test Time	7:50 AM
				Integration Time	1782.3
Orientation	Horizontal			Scans Averaged	3
Test by	DW			Saturation	79%
Notes	24.7C, 18%RH			Sphere Geometry	2pi
				Sphere Temp	24
Scan ID	Scan id 13473			Lumens	385.7
Scan Name	FL251				
Power	Battery Powered DUT, Power Not Monitored				

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
11133		79.23		0.2813		0.2716		-0.0096		0.1975		0.4291	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
83	80	71	85	82	70	84	79	26	46	84	51	81	83

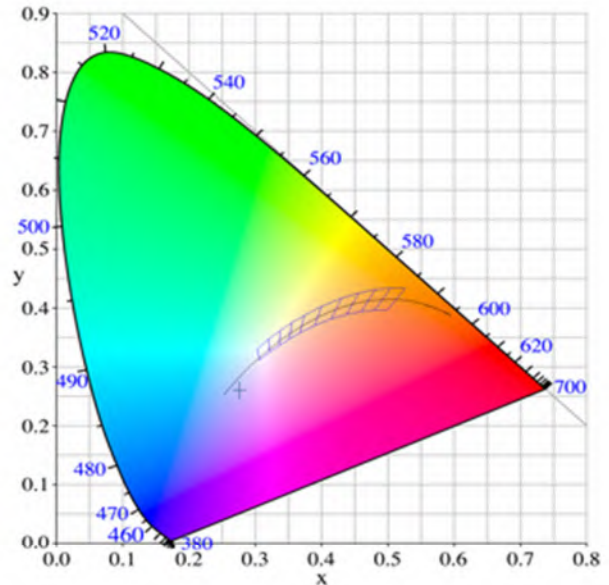
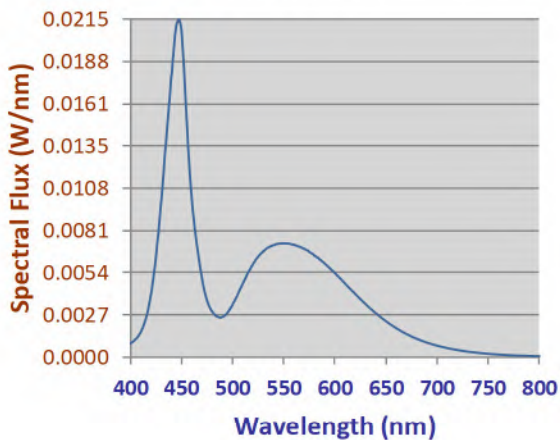
FL251 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL252				3/18/25	
Description	30 sec warmup			Test Time	11:30 AM
				Integration Time	1409.2
Orientation	Horizontal			Scans Averaged	3
Test by	DW			Saturation	77%
Notes	25.1C, 20%RH			Sphere Geometry	2pi
				Sphere Temp	24.43
Scan ID	Scan id 13486			Lumens	435.9
Scan Name	FL252				
Power	Battery Powered DUT, Power Not Monitored				

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
13495		77.31		0.2758		0.2603		-0.0122		0.1979		0.4205	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
83	77	65	84	83	67	80	80	31	38	86	50	80	79

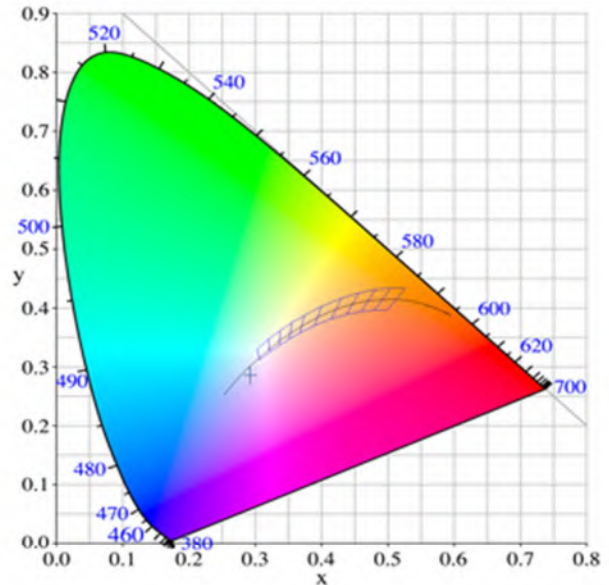
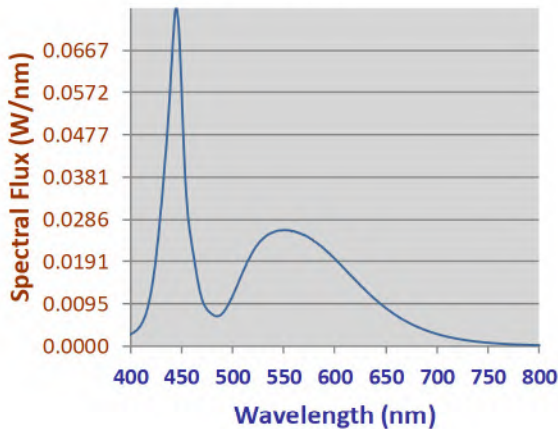
FL252 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL253		3/18/25	
Description	30 sec warmup	Test Time	8:39 AM
Orientation	Horizontal	Integration Time	403
Test by	DW	Scans Averaged	3
Notes	24.9C, 20%RH	Saturation	76%
Scan ID	Scan id 13477	Sphere Geometry	2pi
Scan Name	FL253	Sphere Temp	24.16
Power	Battery Powered DUT, Power Not Monitored	Lumens	1559.0

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8872		74.10		0.2923		0.2860		-0.0085		0.1999		0.4402	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
79	74	66	78	80	65	77	73	11	35	81	49	76	80

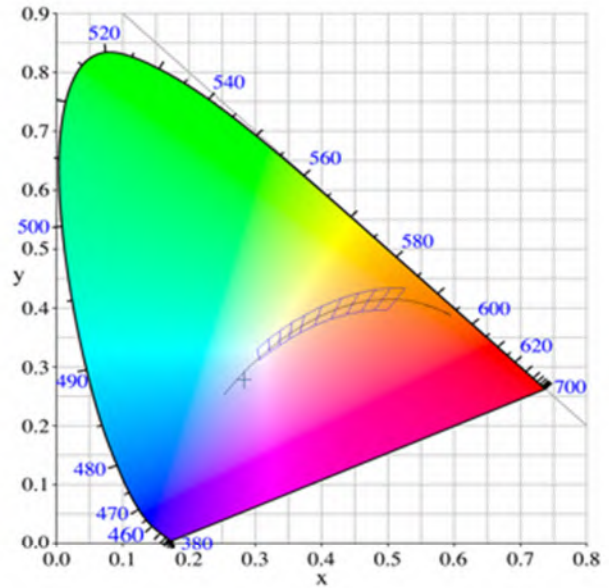
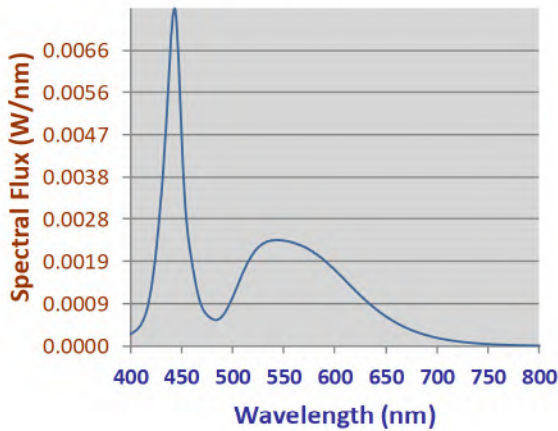
FL253 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL254		3/18/25	
Description	30 sec warmup	Test Time	10:28 AM
		Integration Time	4332.9
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	79%
Notes	25.1C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	24.41
Scan ID	Scan id 13485	Lumens	139.6
Scan Name	FL254		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
10270		71.72		0.2834		0.2788		-0.0069		0.1961		0.4342	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
77	71	63	75	79	63	74	71	0	28	80	48	73	79

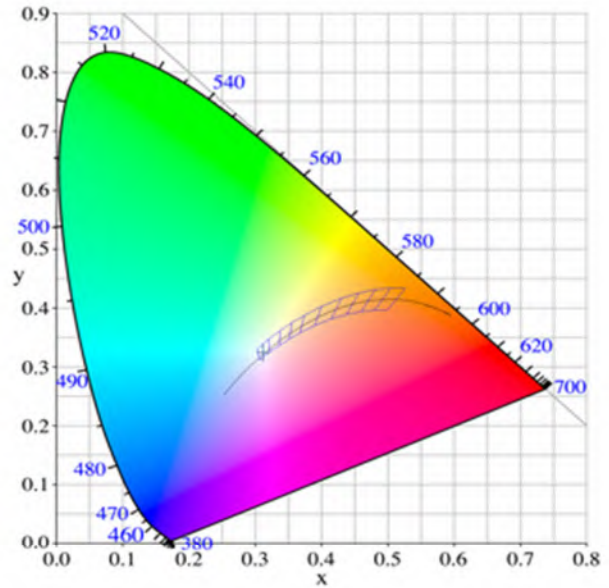
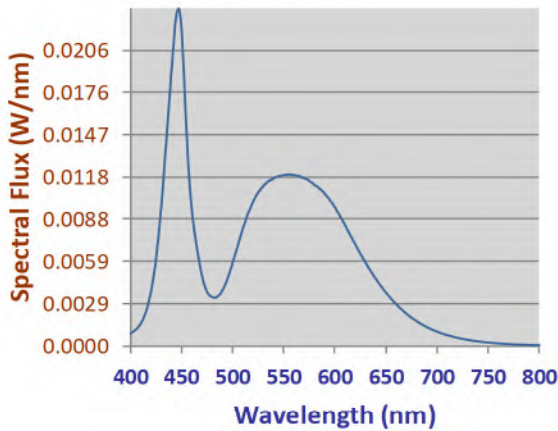
FL254 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL255		3/19/25	
Description	30 sec warmup	Test Time	7:32 AM
Orientation	Horizontal	Integration Time	1275.5
Test by	DW	Scans Averaged	3
Notes	24.8C, 23%RH	Saturation	76%
Scan ID	Scan id 13505	Sphere Geometry	2pi
Scan Name	FL255	Sphere Temp	24.17
Power	Battery Powered DUT, Power Not Monitored	Lumens	725.5

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
6596		73.82		0.3117		0.3243		0.0013		0.1989		0.4656	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
73	76	78	76	75	69	80	63	-21	43	76	51	73	88

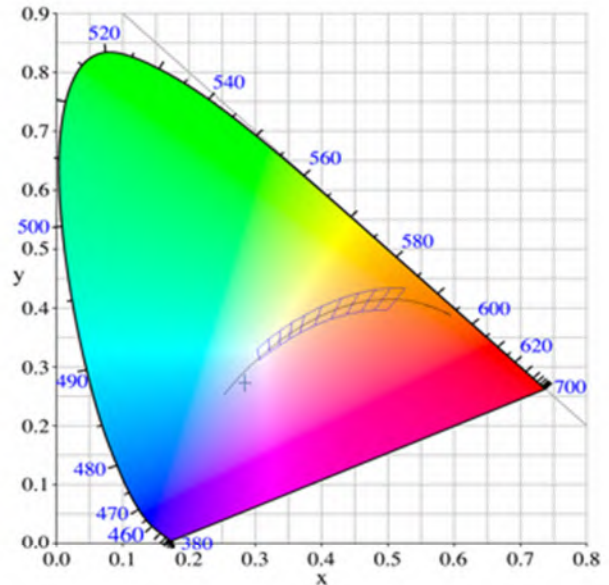
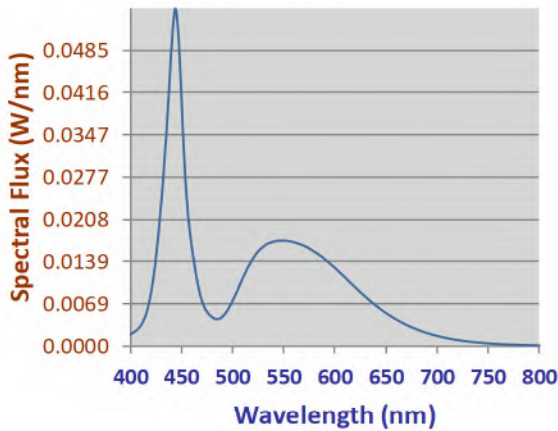
FL255 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL256		3/19/25	
Description	30 sec warmup	Test Time	7:56 AM
Orientation	Horizontal	Integration Time	592.8
Test by	DW	Scans Averaged	3
Notes	24.8C, 23%RH	Saturation	80%
Scan ID	Scan id 13508	Sphere Geometry	2pi
Scan Name	FL256	Sphere Temp	24.25
Power	Battery Powered DUT, Power Not Monitored	Lumens	1032.0

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
10569		73.73		0.2843		0.2730		-0.0108		0.1993		0.4305	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81	73	62	78	81	64	76	75	18	31	83	48	76	78

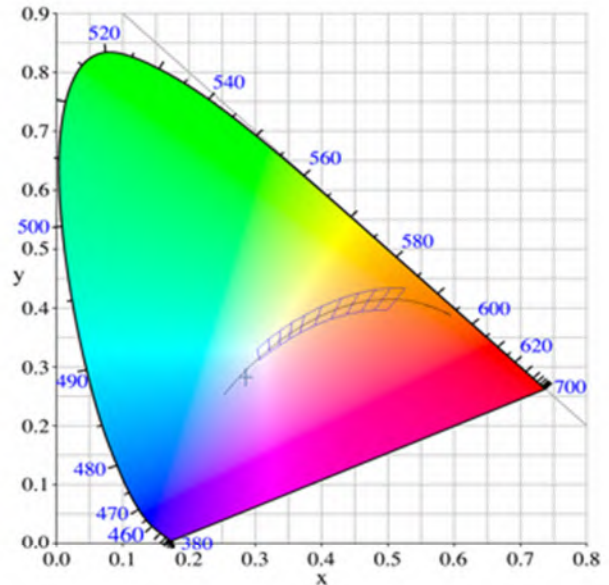
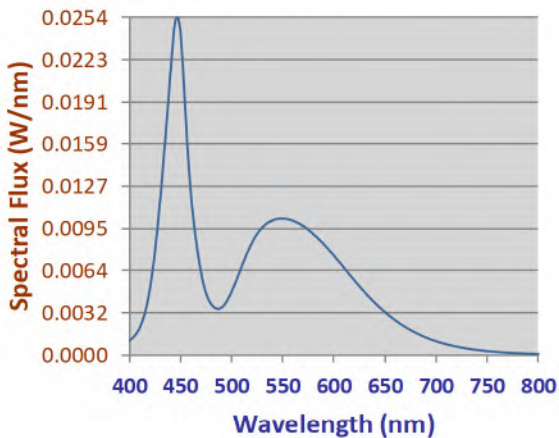
FL256 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL257				3/18/25	
Description	30 sec warmup			Test Time	3:05 PM
				Integration Time	1211.4
Orientation	Horizontal			Scans Averaged	3
Test by	DW			Saturation	78%
Notes	25.1C, 20%RH			Sphere Geometry	2pi
				Sphere Temp	25.59
Scan ID	Scan id 13502			Lumens	612.6
Scan Name	FL257				
Power	Battery Powered DUT, Power Not Monitored				

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9707		76.36		0.2860		0.2828		-0.0063		0.1965		0.4372	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80	77	70	81	80	68	81	75	11	40	81	51	77	83

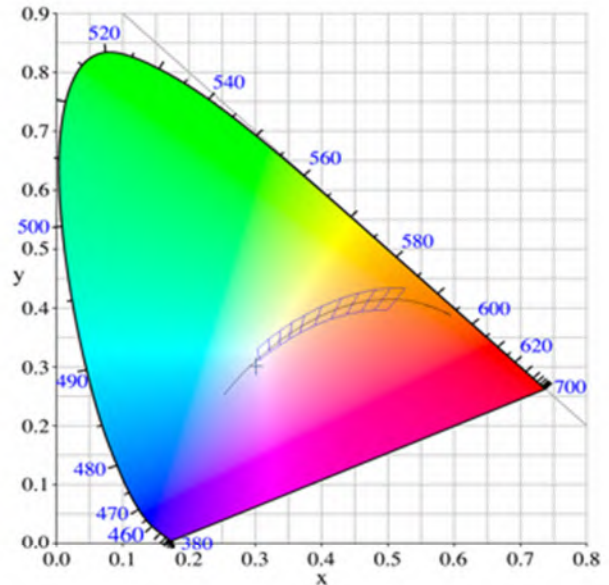
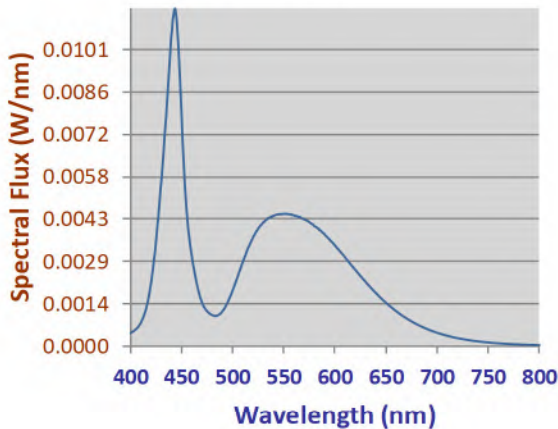
FL257 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL258		3/18/25	
Description	30 sec warmup	Test Time	3:10 PM
Orientation	Horizontal	Integration Time	2698.7
Test by	DW	Scans Averaged	3
Notes	26.4C, 20%RH	Saturation	75%
Scan ID	Scan id 13503	Sphere Geometry	2pi
Scan Name	FL258	Sphere Temp	25.62
Power	Battery Powered DUT, Power Not Monitored	Lumens	268.0

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
7610		72.35		0.3013		0.3013		-0.0054		0.2004		0.4510	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
76	73	68	75	77	65	76	69	-2	33	79	49	73	81

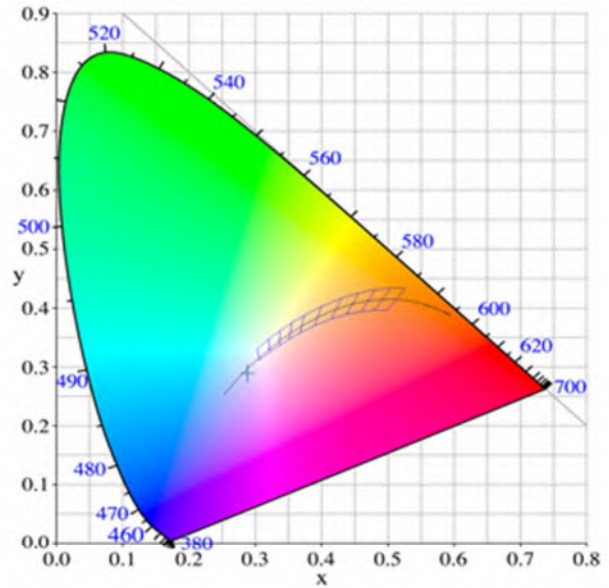
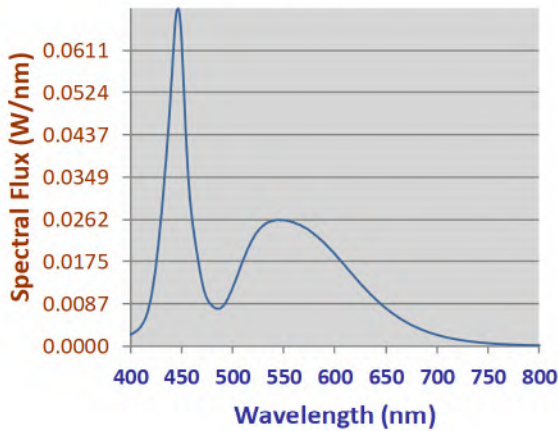
FL258 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL259		3/18/25	
Description	30 sec warmup	Test Time	10:17 AM
		Integration Time	436.3
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	77%
Notes	25.1C, 20%RH	Sphere Geometry	2pi
		Sphere Temp	24.39
Scan ID	Scan id 13484	Lumens	1554.6
Scan Name	FL259		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9159		74.80		0.2882		0.2890		-0.0043		0.1957		0.4415	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
77	75	70	79	78	67	80	72	1	38	80	48	75	83

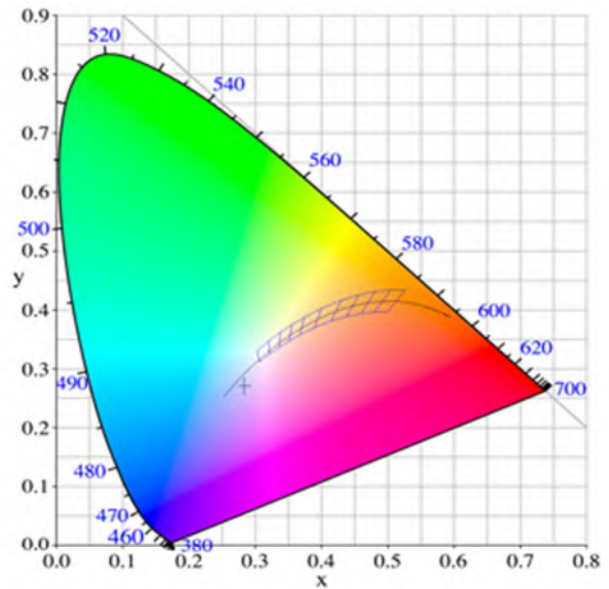
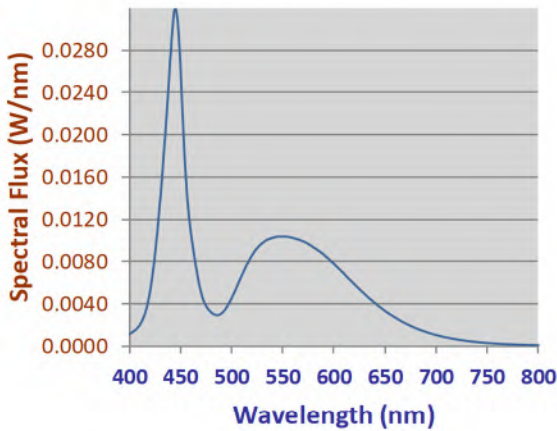
FL259 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL260		3/18/25	
Description	30 sec warmup	Test Time	10:04 AM
Orientation	Horizontal	Integration Time	741.5
Test by	DW	Scans Averaged	3
Notes	25.1C, 20%RH	Saturation	59%
Scan ID	Scan id 13483	Sphere Geometry	2pi
Scan Name	FL260	Sphere Temp	24.36
Power	Battery Powered DUT, Power Not Monitored	Lumens	622.7

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
10798		75.08		0.2837		0.2713		-0.0113		0.1995		0.4292	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82	75	63	80	82	65	77	77	22	34	84	49	78	79

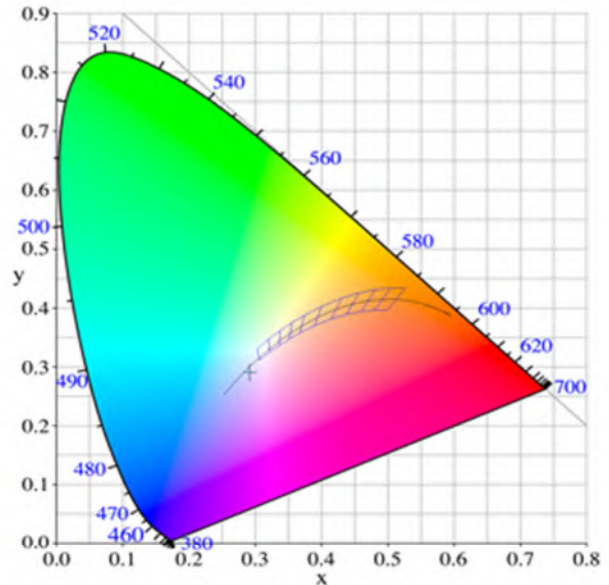
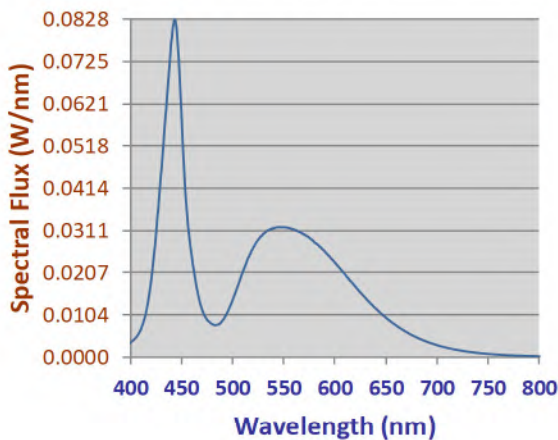
FL260 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL261		3/19/25	
Description	30 sec warmup	Test Time	7:45 AM
		Integration Time	363.2
Orientation	Horizontal	Scans Averaged	3
Test by	DW	Saturation	73%
Notes	24.8C, 23%RH	Sphere Geometry	2pi
		Sphere Temp	24.23
Scan ID	Scan id 13506	Lumens	1881.4
Scan Name	FL261		
Power	Battery Powered DUT, Power Not Monitored		

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8707		72.04		0.2919		0.2910		-0.0055		0.1976		0.4433	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
76	72	66	75	78	64	75	70	-1	31	79	49	73	80

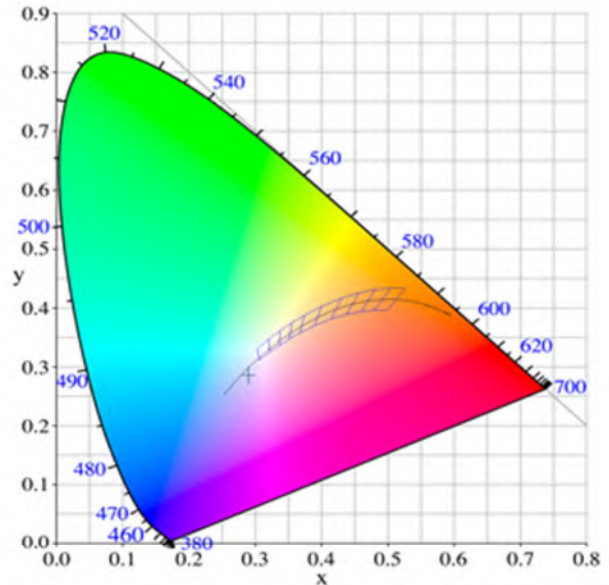
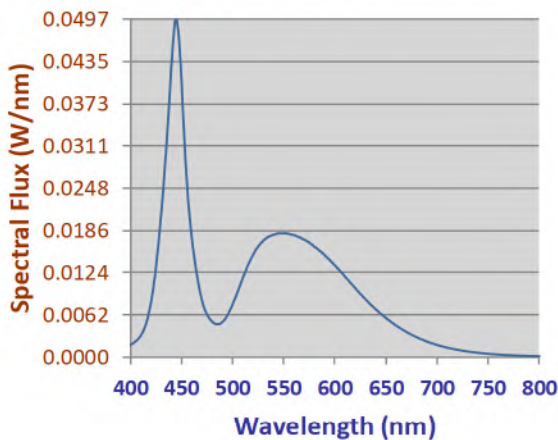
FL261 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL262		3/18/25	
Description	30 sec warmup	Test Time	2:59 PM
Orientation	Horizontal	Integration Time	610.2
Test by	DW	Scans Averaged	3
Notes	25.1C, 20%RH	Saturation	75%
Scan ID	Scan id 13501	Sphere Geometry	2pi
Scan Name	FL262	Sphere Temp	25.54
Power	Battery Powered DUT, Power Not Monitored	Lumens	1080.9

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
9081		74.20		0.2902		0.2860		-0.0072		0.1984		0.4399	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
79	74	67	78	79	66	78	73	8	35	81	48	76	81

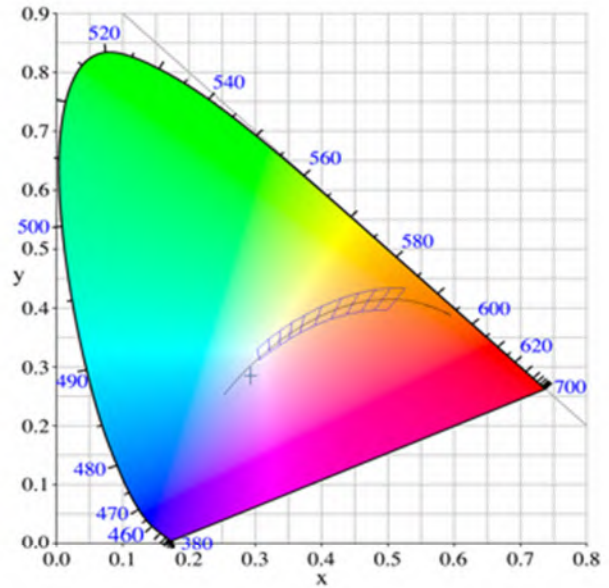
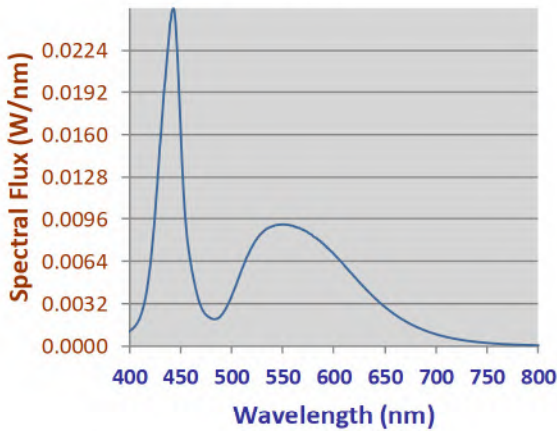
FL262 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL263		3/19/25	
Description	30 sec warmup	Test Time	7:24 AM
Orientation	Horizontal	Integration Time	1275.5
Test by	DW	Scans Averaged	3
Notes	26.4C, 20%RH	Saturation	79%
Scan ID	Scan id 13504	Sphere Geometry	2pi
Scan Name	FL263	Sphere Temp	24.14
Power	Battery Powered DUT, Power Not Monitored	Lumens	546.1

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8786		71.79		0.2935		0.2850		-0.0099		0.2013		0.4397	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
79	72	62	75	80	63	73	71	9	28	81	49	74	78

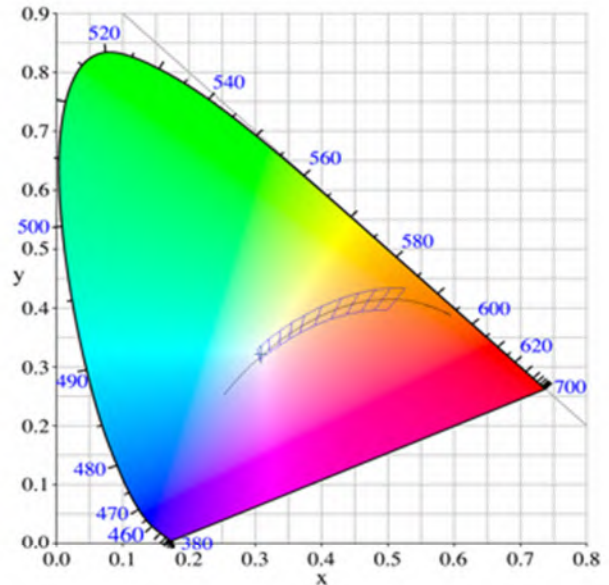
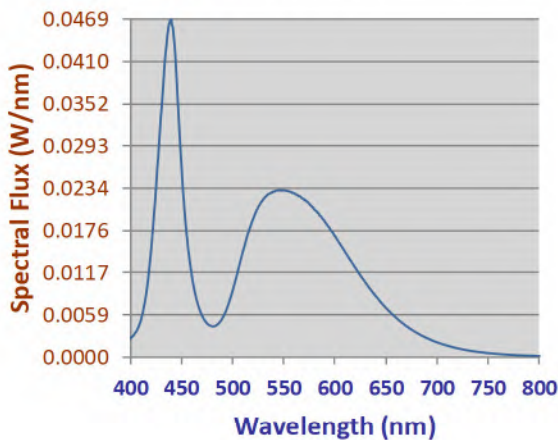
FL263 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL264		3/19/25	
Description	30 sec warmup	Test Time	7:50 AM
Orientation	Horizontal	Integration Time	741
Test by	DW	Scans Averaged	3
Notes	24.8C, 23%RH	Saturation	81%
Scan ID	Scan id 13507	Sphere Geometry	2pi
Scan Name	FL264	Sphere Temp	24.25
Power	Battery Powered DUT, Power Not Monitored	Lumens	1343.1

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
6795		67.93		0.3087		0.3220		0.0016		0.1977		0.4639	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
69	69	69	70	71	62	73	61	-29	27	73	46	67	82

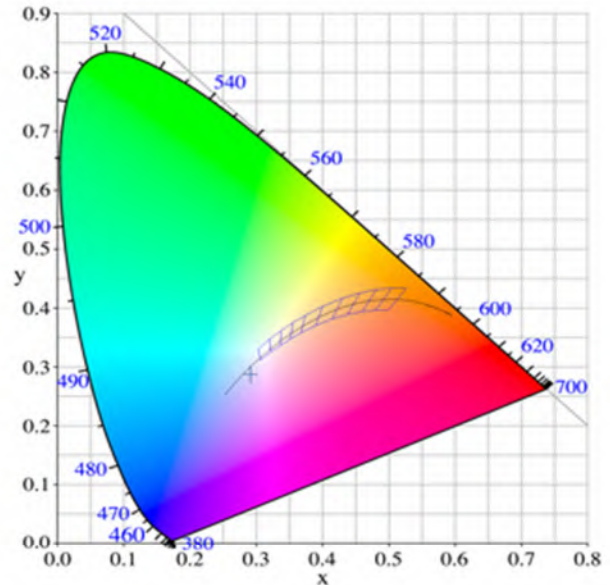
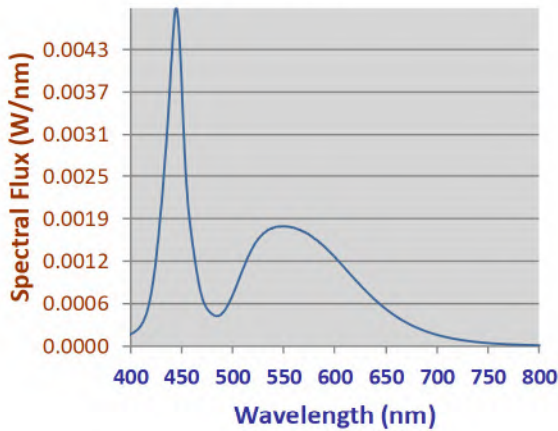
FL264 Light Output Results

Photometric Measurement Report

Generated by Labsphere's Integral™ Light Measurement Platform

EEE2500113 FL266				3/18/25	
Description	30 sec warmup			Test Time	9:58 AM
				Integration Time	4894.4
Orientation	Horizontal			Scans Averaged	3
Test by	DW			Saturation	60%
Notes	25.1C, 20%RH			Sphere Geometry	2pi
				Sphere Temp	24.32
Scan ID	Scan id 13482			Lumens	104.1
Scan Name	FL266				
Power	Battery Powered DUT, Power Not Monitored				

Relative Spectral Power Distribution



CCT		CRI		x		y		Duv		u'		v'	
8910		73.42		0.2913		0.2875		-0.0070		0.1985		0.4410	
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
78	74	66	77	79	65	77	72	4	34	80	47	75	81

FL266 Light Output Results