



7036 Snowdrift Road Suite 200
Allentown, PA 18106
610-774-1300

Integrating Sphere Test Report

Relevant Standards
IES LM-79-2008
ANSI C78.377-2011, ANSI C82.77-2002
CIE 13.3-1995, CIE 15-2004

Prepared For
Specialty Lighting Industries, Inc.
Awi Salomon
1306 Doris Avenue
Ocean, NJ 07712

Catalog Number
303-LEDP 8030

Order Number
10047370
Test Number
437106

Test Date
2013-12-26

Prepared By

Handwritten signature of Tammy Lacey in black ink.

Tammy Lacey, Administrative Assistant II

Approved By

Handwritten signature of Kyle Spaziani in black ink.

Kyle Spaziani, Project Handler

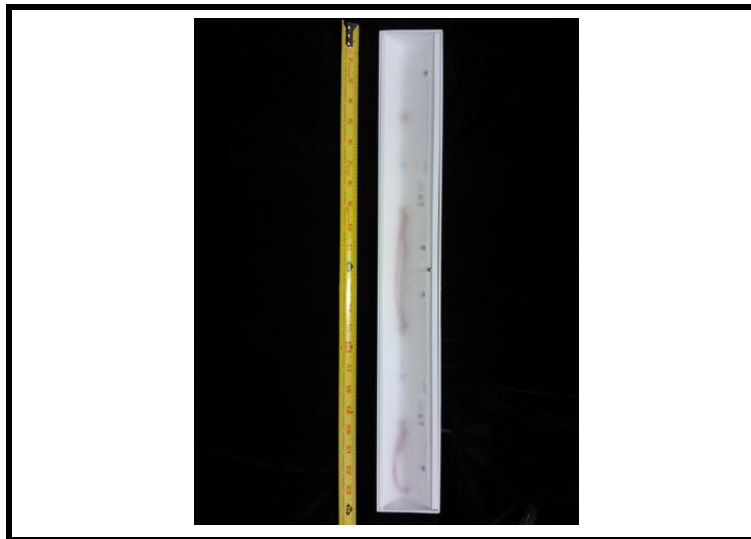
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Luminaire Description: White aluminum housing, frosted plastic enclosure
Catalog Number: 303-LEDP 8030
Lamp: 44 white LEDs
Mounting: Surface Wall
Ballast/Driver: One Philips Advance Xitanium XI075C200V054XPT1

Luminaire



Summary of Results

Radiant Flux: 7401 mW
Luminous Flux: 2392 Lumens
Luminaire Efficacy: 85.3 Lumens/Watt
CCT: 3058 K
CRI (Ra): 82.3
Chromaticity (x): 0.4317
Chromaticity (y): 0.4004
Chromaticity (u): 0.2488
Chromaticity (v): 0.3461
Duv: -0.0007

Test Conditions

Test Temperature: 25.1 °C
Voltage: 120.1 VAC
Current: 0.2383 A
Power: 28.05 W
Power Factor: 0.981
Frequency: 60 Hz
Current THD: 17.9 %

Testing was performed in a 2-meter integrating sphere using the 4 π geometry method.

Absorption correction was employed for this measurement.

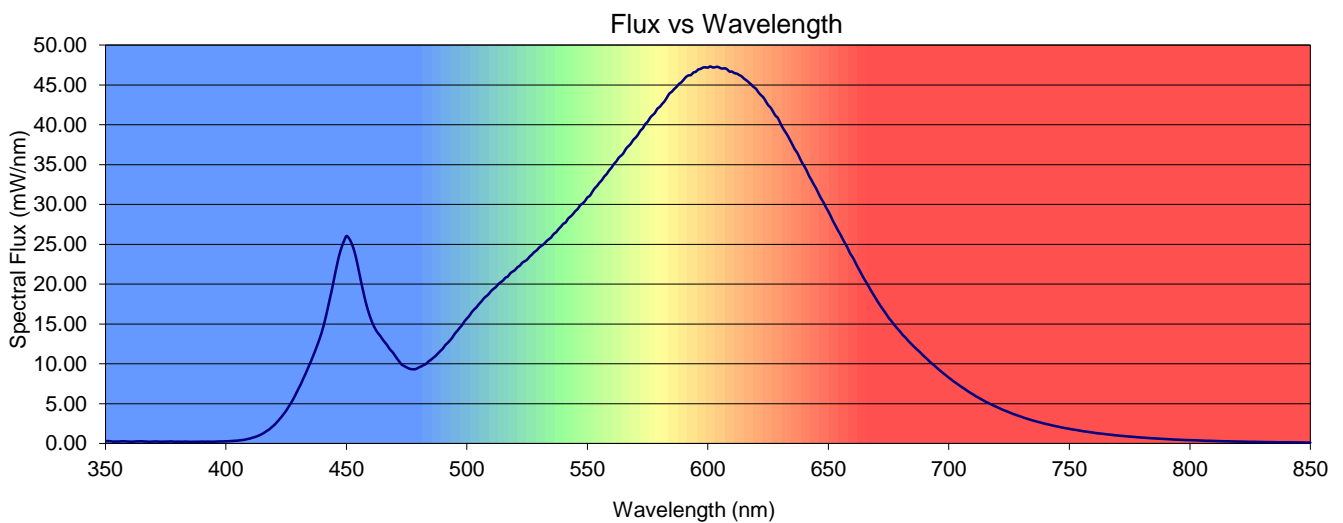
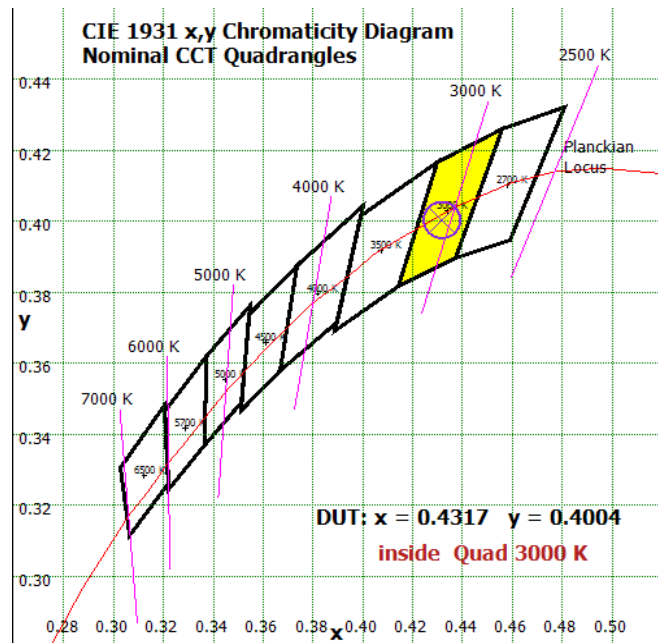
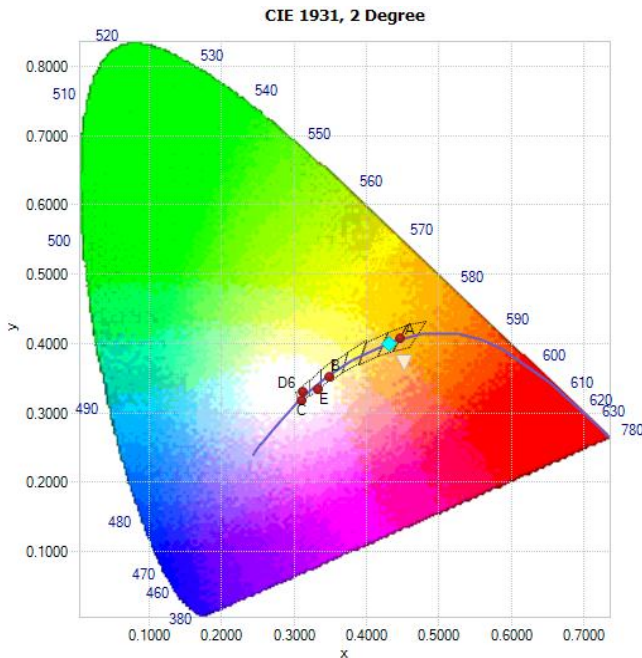


Chromaticity Coordinates

x	y	u	v	u'	v'	Duv
0.4317	0.4004	0.2488	0.3461	0.2488	0.5192	-0.0007

Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82.3	80.4	90.0	96.5	80.0	80.4	87.1	83.6	60.6	9.7	76.8	78.2	71.4	82.4	98.3





Spectral Power Distribution

λ (nm)	mW/nm	λ (nm)	mW/nm	λ (nm)	mW/nm	λ (nm)	mW/nm	λ (nm)	mW/nm	λ (nm)	mW/nm	λ (nm)	mW/nm
350	0.312	422	2.97	494	13.3	566	37.0	638	35.9	710	6.17	782	0.707
351	0.297	423	3.31	495	13.8	567	37.3	639	35.3	711	5.97	783	0.685
352	0.292	424	3.72	496	14.1	568	37.6	640	34.8	712	5.80	784	0.665
353	0.244	425	4.11	497	14.5	569	38.1	641	34.2	713	5.63	785	0.648
354	0.245	426	4.60	498	14.9	570	38.4	642	33.6	714	5.46	786	0.632
355	0.249	427	5.08	499	15.3	571	38.8	643	33.1	715	5.29	787	0.610
356	0.252	428	5.60	500	15.7	572	39.3	644	32.5	716	5.14	788	0.595
357	0.285	429	6.20	501	16.0	573	39.5	645	32.0	717	4.98	789	0.580
358	0.277	430	6.80	502	16.5	574	40.1	646	31.3	718	4.84	790	0.563
359	0.248	431	7.39	503	16.8	575	40.4	647	30.7	719	4.69	791	0.546
360	0.240	432	8.07	504	17.1	576	40.9	648	30.2	720	4.57	792	0.527
361	0.224	433	8.71	505	17.5	577	41.2	649	29.6	721	4.43	793	0.510
362	0.243	434	9.42	506	17.8	578	41.5	650	29.1	722	4.28	794	0.492
363	0.268	435	10.1	507	18.2	579	42.0	651	28.5	723	4.16	795	0.483
364	0.267	436	10.8	508	18.5	580	42.2	652	27.9	724	4.04	796	0.471
365	0.282	437	11.6	509	18.7	581	42.6	653	27.3	725	3.92	797	0.456
366	0.255	438	12.4	510	19.1	582	42.9	654	26.7	726	3.79	798	0.442
367	0.247	439	13.2	511	19.4	583	43.4	655	26.2	727	3.68	799	0.432
368	0.225	440	14.2	512	19.6	584	43.9	656	25.6	728	3.57	800	0.423
369	0.229	441	15.3	513	20.0	585	44.1	657	25.1	729	3.47	801	0.416
370	0.248	442	16.6	514	20.2	586	44.5	658	24.5	730	3.36	802	0.400
371	0.256	443	18.0	515	20.5	587	44.7	659	23.9	731	3.25	803	0.390
372	0.239	444	19.3	516	20.8	588	45.1	660	23.4	732	3.16	804	0.378
373	0.223	445	20.8	517	21.0	589	45.3	661	22.8	733	3.06	805	0.367
374	0.231	446	22.3	518	21.4	590	45.7	662	22.2	734	2.96	806	0.358
375	0.242	447	23.6	519	21.6	591	46.0	663	21.7	735	2.87	807	0.345
376	0.237	448	24.6	520	21.8	592	46.2	664	21.1	736	2.79	808	0.341
377	0.261	449	25.4	521	22.1	593	46.2	665	20.6	737	2.71	809	0.334
378	0.242	450	26.0	522	22.3	594	46.6	666	20.1	738	2.64	810	0.324
379	0.222	451	25.8	523	22.7	595	46.6	667	19.6	739	2.55	811	0.310
380	0.236	452	25.2	524	22.9	596	46.9	668	19.0	740	2.48	812	0.303
381	0.225	453	24.4	525	23.1	597	47.0	669	18.5	741	2.41	813	0.293
382	0.223	454	23.3	526	23.4	598	47.2	670	18.0	742	2.34	814	0.288
383	0.239	455	21.9	527	23.7	599	47.2	671	17.6	743	2.26	815	0.283
384	0.229	456	20.4	528	24.0	600	47.2	672	17.1	744	2.20	816	0.279
385	0.214	457	19.1	529	24.2	601	47.3	673	16.7	745	2.14	817	0.263
386	0.215	458	17.8	530	24.6	602	47.2	674	16.2	746	2.07	818	0.257
387	0.223	459	16.7	531	24.8	603	47.2	675	15.8	747	2.00	819	0.252
388	0.224	460	15.8	532	25.0	604	47.3	676	15.4	748	1.95	820	0.245
389	0.225	461	15.0	533	25.4	605	47.1	677	15.0	749	1.90	821	0.242
390	0.241	462	14.4	534	25.6	606	47.0	678	14.7	750	1.84	822	0.237
391	0.225	463	13.9	535	25.9	607	47.1	679	14.3	751	1.78	823	0.223
392	0.233	464	13.5	536	26.3	608	46.9	680	14.0	752	1.74	824	0.221
393	0.232	465	13.1	537	26.5	609	46.7	681	13.6	753	1.69	825	0.210
394	0.226	466	12.7	538	26.9	610	46.7	682	13.3	754	1.63	826	0.211
395	0.226	467	12.3	539	27.2	611	46.5	683	12.9	755	1.58	827	0.210
396	0.241	468	11.8	540	27.6	612	46.4	684	12.6	756	1.53	828	0.205
397	0.251	469	11.5	541	27.7	613	46.2	685	12.3	757	1.49	829	0.194
398	0.265	470	11.1	542	28.2	614	46.1	686	12.0	758	1.45	830	0.191
399	0.263	471	10.7	543	28.5	615	45.8	687	11.7	759	1.41	831	0.187
400	0.276	472	10.3	544	28.8	616	45.6	688	11.5	760	1.36	832	0.179
401	0.288	473	9.89	545	29.2	617	45.3	689	11.1	761	1.32	833	0.179
402	0.307	474	9.73	546	29.4	618	45.0	690	10.9	762	1.28	834	0.176
403	0.328	475	9.55	547	29.9	619	44.7	691	10.6	763	1.25	835	0.169
404	0.351	476	9.41	548	30.1	620	44.5	692	10.3	764	1.21	836	0.160
405	0.372	477	9.33	549	30.4	621	44.1	693	10.0	765	1.18	837	0.157
406	0.409	478	9.32	550	30.9	622	43.7	694	9.77	766	1.14	838	0.157
407	0.438	479	9.36	551	31.1	623	43.4	695	9.51	767	1.10	839	0.154
408	0.494	480	9.55	552	31.5	624	43.0	696	9.23	768	1.07	840	0.157
409	0.565	481	9.66	553	32.0	625	42.5	697	8.98	769	1.03	841	0.148
410	0.629	482	9.84	554	32.3	626	42.2	698	8.74	770	1.01	842	0.142
411	0.725	483	9.98	555	32.7	627	41.7	699	8.50	771	0.973	843	0.138
412	0.811	484	10.3	556	33.0	628	41.2	700	8.25	772	0.954	844	0.136
413	0.917	485	10.5	557	33.5	629	40.9	701	8.03	773	0.924	845	0.134
414	1.05	486	10.7	558	33.8	630	40.2	702	7.80	774	0.896	846	0.129
415	1.20	487	11.0	559	34.3	631	39.6	703	7.58	775	0.870	847	0.129
416	1.38	488	11.3	560	34.6	632	39.2	704	7.37	776	0.847	848	0.123
417	1.58	489	11.6	561	35.1	633	38.7	705	7.15	777	0.824	849	0.117
418	1.78	490	11.9	562	35.4	634	38.1	706	6.96	778	0.795	850	0.116
419	2.05	491	12.3	563	35.9	635	37.6	707	6.75	779	0.774		
420	2.30	492	12.6	564	36.1	636	36.9	708	6.54	780	0.748		
421	2.62	493	12.9	565	36.4	637	36.5	709	6.35	781	0.729		