



UL Verification Services

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
Eureka Lighting, Inc.
Dirk Zylstra
225 DeLiege Quest
Montreal, Canada
H2P 1H4

Catalog Number
4766-NPM

Project Number
6013-001123
Test Number
173119

Test Date

2013-10-19

Prepared By

Tammy Lacey, Administrative Assistant II

Approved By

Zachary Mooney, Engineer Project Associate

The results contained in this report pertain only to the tested sample.
This report shall not be reproduced, except in full, without written approval of Underwriters Laboratories.



UL Verification Services

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



Luminaire Description: Cast aluminum housing, frosted plastic enclosure
Catalog Number: 4766-NPM
Mounting: Recessed
Ballast/Driver: One Lightech LED 36 CC 700 PU

Luminaire



Summary of Results

Radiant Flux:	7316 mW
Luminous Flux:	2429 Lumens
Luminaire Efficacy:	77.6 Lumens/Watt
CCT:	3868 K
CRI (Ra):	80.5
Chromaticity (x):	0.3887
Chromaticity (y):	0.3882
Chromaticity (u):	0.2259
Chromaticity (v):	0.3385
Duv:	0.0028

Test Conditions

Test Temperature:	25.0 °C
Voltage:	120.0 VAC
Current:	0.2633 A
Power:	31.30 W
Power Factor:	0.991
Frequency:	60 Hz
Current THD:	13.7 %

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

Absorption correction was employed for this measurement.

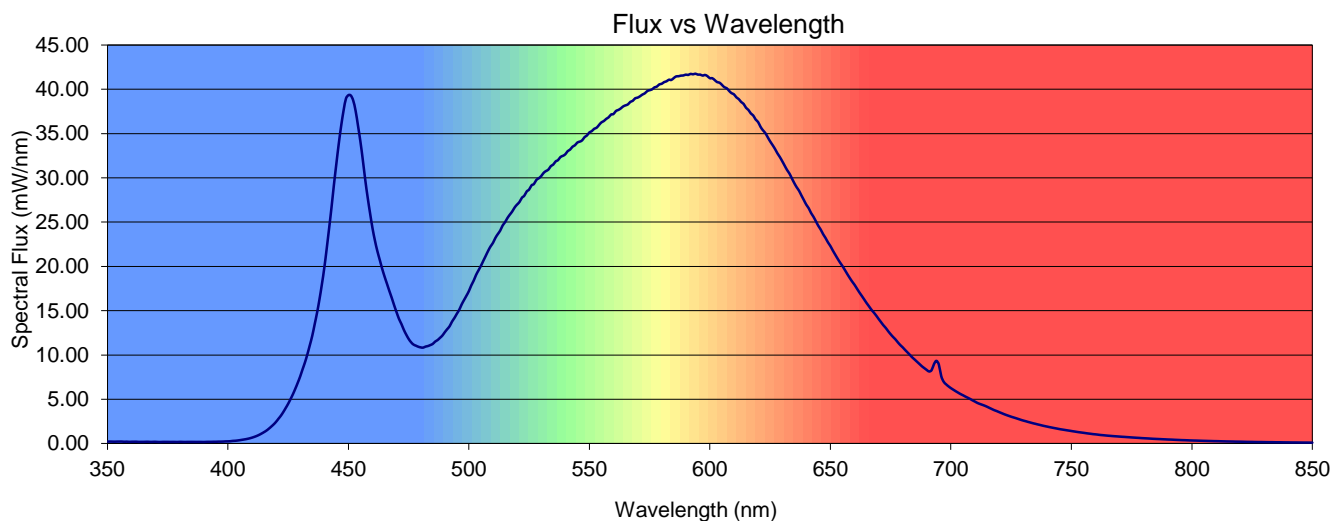
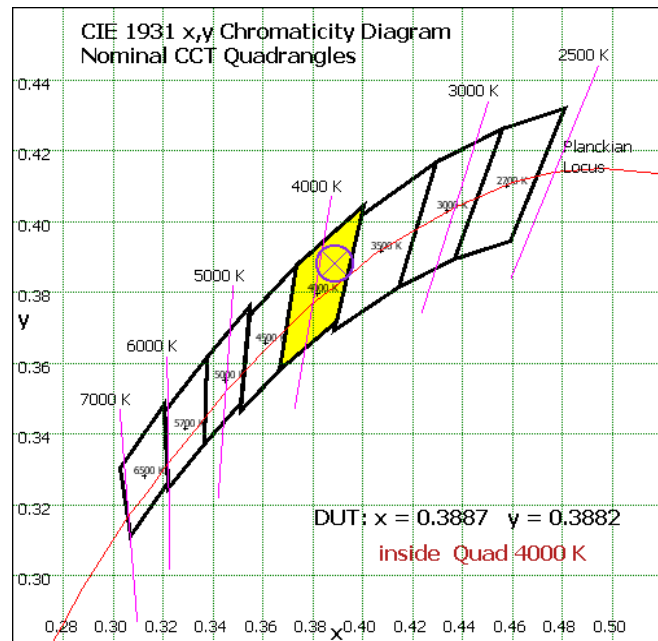
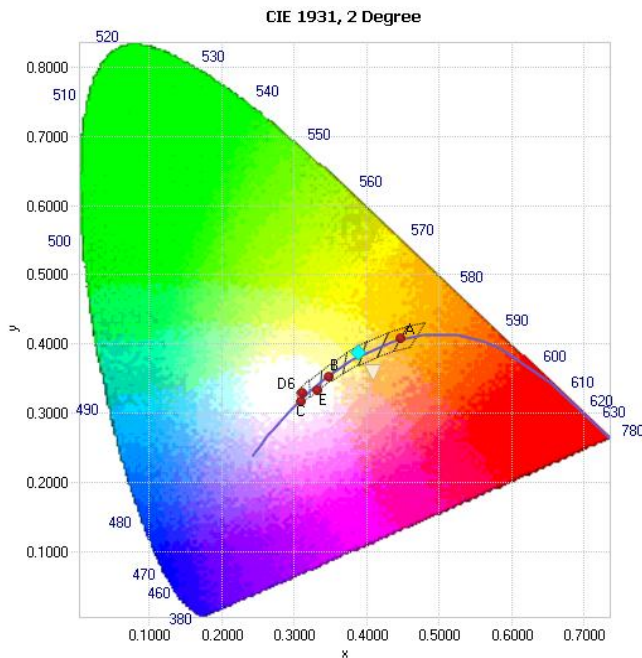


Chromaticity Coordinates

x	y	u	v	u'	v'	Duv
0.3887	0.3882	0.2259	0.3385	0.2259	0.5077	0.0028

Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80.5	78.1	86.1	92.4	79.4	77.7	80.6	86.4	63.1	3.1	66.8	76.7	56.7	79.7	95.6



**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	0.210	422	3.14	494	14.2	566	38.3	638	28.0	710	4.73	782	0.569
351	0.221	423	3.56	495	14.7	567	38.6	639	27.5	711	4.58	783	0.550
352	0.212	424	4.01	496	15.1	568	38.7	640	27.0	712	4.47	784	0.534
353	0.208	425	4.48	497	15.7	569	39.0	641	26.6	713	4.37	785	0.520
354	0.216	426	5.02	498	16.2	570	39.1	642	26.0	714	4.27	786	0.508
355	0.220	427	5.58	499	16.7	571	39.2	643	25.6	715	4.16	787	0.496
356	0.220	428	6.20	500	17.2	572	39.4	644	25.1	716	4.02	788	0.480
357	0.198	429	6.87	501	17.9	573	39.5	645	24.6	717	3.89	789	0.469
358	0.209	430	7.57	502	18.4	574	39.8	646	24.2	718	3.77	790	0.454
359	0.189	431	8.39	503	19.0	575	39.9	647	23.6	719	3.66	791	0.446
360	0.199	432	9.18	504	19.6	576	40.0	648	23.2	720	3.55	792	0.433
361	0.201	433	10.1	505	20.1	577	40.2	649	22.7	721	3.44	793	0.420
362	0.205	434	11.1	506	20.6	578	40.3	650	22.3	722	3.32	794	0.406
363	0.185	435	12.2	507	21.2	579	40.6	651	21.8	723	3.22	795	0.395
364	0.188	436	13.4	508	21.8	580	40.6	652	21.3	724	3.13	796	0.384
365	0.185	437	14.8	509	22.3	581	40.8	653	20.9	725	3.03	797	0.375
366	0.197	438	16.3	510	22.7	582	40.9	654	20.4	726	2.95	798	0.364
367	0.196	439	18.0	511	23.2	583	41.1	655	20.0	727	2.86	799	0.354
368	0.180	440	19.8	512	23.7	584	41.1	656	19.6	728	2.77	800	0.343
369	0.189	441	22.0	513	24.0	585	41.3	657	19.2	729	2.68	801	0.335
370	0.192	442	24.3	514	24.6	586	41.5	658	18.7	730	2.59	802	0.329
371	0.174	443	26.7	515	25.0	587	41.5	659	18.3	731	2.52	803	0.318
372	0.171	444	29.2	516	25.5	588	41.5	660	17.9	732	2.44	804	0.311
373	0.184	445	31.6	517	25.8	589	41.6	661	17.5	733	2.37	805	0.301
374	0.183	446	33.8	518	26.2	590	41.7	662	17.1	734	2.29	806	0.295
375	0.184	447	35.9	519	26.7	591	41.6	663	16.7	735	2.23	807	0.286
376	0.178	448	37.6	520	27.0	592	41.7	664	16.3	736	2.16	808	0.280
377	0.181	449	39.0	521	27.3	593	41.7	665	15.9	737	2.10	809	0.271
378	0.178	450	39.3	522	27.8	594	41.8	666	15.5	738	2.03	810	0.267
379	0.172	451	39.3	523	28.0	595	41.7	667	15.1	739	1.97	811	0.261
380	0.186	452	38.7	524	28.5	596	41.7	668	14.8	740	1.91	812	0.252
381	0.184	453	37.6	525	28.7	597	41.6	669	14.5	741	1.85	813	0.245
382	0.173	454	35.9	526	29.2	598	41.6	670	14.1	742	1.80	814	0.238
383	0.180	455	34.1	527	29.3	599	41.5	671	13.7	743	1.74	815	0.231
384	0.182	456	32.0	528	29.8	600	41.3	672	13.4	744	1.69	816	0.228
385	0.183	457	29.8	529	30.0	601	41.2	673	13.0	745	1.63	817	0.221
386	0.180	458	27.8	530	30.2	602	41.0	674	12.7	746	1.59	818	0.214
387	0.178	459	26.0	531	30.6	603	40.8	675	12.3	747	1.55	819	0.211
388	0.180	460	24.3	532	30.8	604	40.7	676	12.0	748	1.50	820	0.207
389	0.176	461	22.9	533	30.9	605	40.5	677	11.8	749	1.46	821	0.202
390	0.171	462	21.8	534	31.3	606	40.2	678	11.4	750	1.41	822	0.192
391	0.183	463	20.8	535	31.5	607	40.1	679	11.1	751	1.37	823	0.188
392	0.189	464	19.8	536	31.9	608	39.8	680	10.9	752	1.33	824	0.183
393	0.189	465	18.9	537	32.0	609	39.6	681	10.6	753	1.28	825	0.179
394	0.198	466	18.0	538	32.4	610	39.4	682	10.3	754	1.25	826	0.173
395	0.198	467	17.2	539	32.5	611	39.1	683	10.0	755	1.21	827	0.168
396	0.210	468	16.4	540	32.7	612	38.9	684	9.72	756	1.17	828	0.166
397	0.212	469	15.6	541	33.0	613	38.6	685	9.48	757	1.13	829	0.164
398	0.221	470	14.8	542	33.2	614	38.3	686	9.22	758	1.10	830	0.159
399	0.237	471	14.1	543	33.5	615	37.9	687	8.97	759	1.06	831	0.155
400	0.244	472	13.5	544	33.7	616	37.7	688	8.72	760	1.04	832	0.152
401	0.259	473	12.8	545	34.0	617	37.3	689	8.51	761	1.00	833	0.151
402	0.295	474	12.3	546	34.1	618	37.0	690	8.31	762	0.967	834	0.145
403	0.311	475	11.8	547	34.2	619	36.6	691	8.13	763	0.941	835	0.140
404	0.340	476	11.4	548	34.6	620	36.3	692	8.29	764	0.916	836	0.138
405	0.381	477	11.2	549	34.8	621	35.8	693	8.97	765	0.889	837	0.136
406	0.423	478	11.1	550	35.1	622	35.4	694	9.33	766	0.866	838	0.130
407	0.468	479	10.9	551	35.3	623	35.1	695	8.92	767	0.844	839	0.128
408	0.521	480	10.9	552	35.5	624	34.6	696	7.62	768	0.821	840	0.126
409	0.585	481	10.8	553	35.7	625	34.1	697	6.99	769	0.803	841	0.121
410	0.663	482	10.9	554	36.0	626	33.7	698	6.69	770	0.783	842	0.118
411	0.754	483	11.0	555	36.3	627	33.3	699	6.46	771	0.763	843	0.118
412	0.859	484	11.1	556	36.4	628	32.8	700	6.26	772	0.746	844	0.113
413	0.985	485	11.2	557	36.7	629	32.4	701	6.08	773	0.725	845	0.111
414	1.13	486	11.5	558	36.8	630	31.9	702	5.91	774	0.707	846	0.109
415	1.29	487	11.7	559	37.1	631	31.4	703	5.74	775	0.687	847	0.105
416	1.46	488	11.9	560	37.2	632	30.9	704	5.59	776	0.669	848	0.107
417	1.67	489	12.2	561	37.5	633	30.5	705	5.45	777	0.649	849	0.101
418	1.91	490	12.6	562	37.7	634	30.0	706	5.30	778	0.635	850	0.0985
419	2.16	491	12.9	563	37.8	635	29.4	707	5.17	779	0.613		
420	2.45	492	13.2	564	38.1	636	28.9	708	5.03	780	0.598		
421	2.80	493	13.8	565	38.2	637	28.5	709	4.87	781	0.583		