



**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

Place Holder

Project Number

**6013-001123**

Test Number

**173121**

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.

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Luminaire Description: Cast aluminum housing, frosted plastic enclosure  
Catalog Number: Place Holder  
Mounting: Recessed  
Ballast/Driver: One Hatch LC16-07000P-120-Q

Luminaire



### Summary of Results

Radiant Flux:	3103 mW
Luminous Flux:	992.6 Lumens
Luminaire Efficacy:	56.7 Lumens/Watt
CCT:	3907 K
CRI (Ra):	80.3
Chromaticity (x):	0.3850
Chromaticity (y):	0.3810
Chromaticity (u):	0.2264
Chromaticity (v):	0.3361
Duv:	0.0006

### Test Conditions

Test Temperature:	24.9 °C
Voltage:	120.1 VAC
Current:	0.1479 A
Power:	17.51 W
Power Factor:	0.986
Frequency:	60 Hz
Current THD:	12.3 %

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

Absorption correction was employed for this measurement.

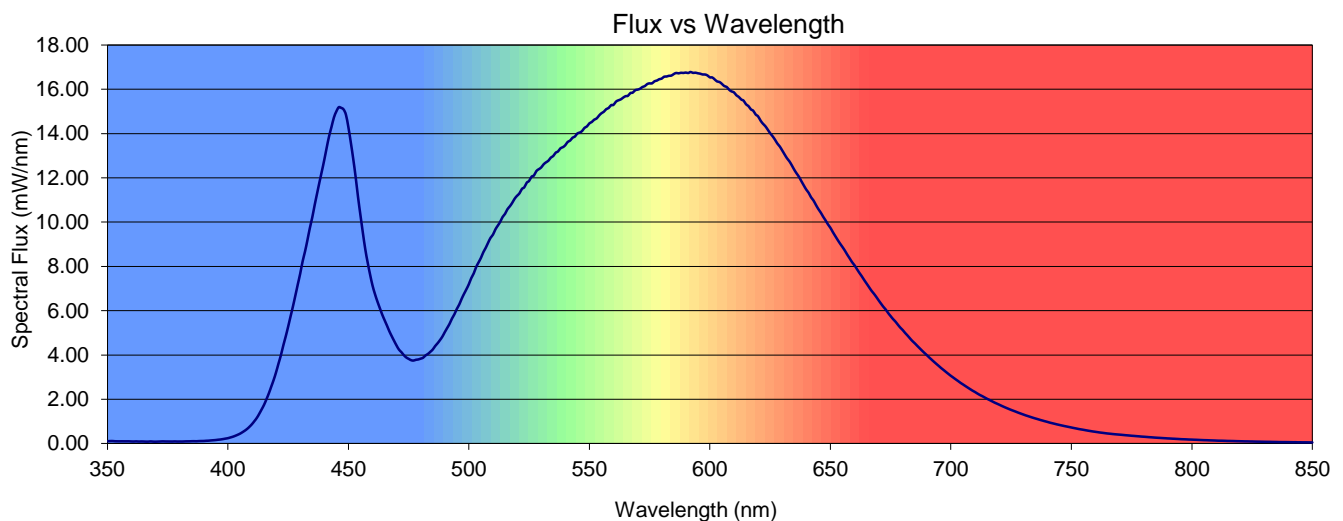
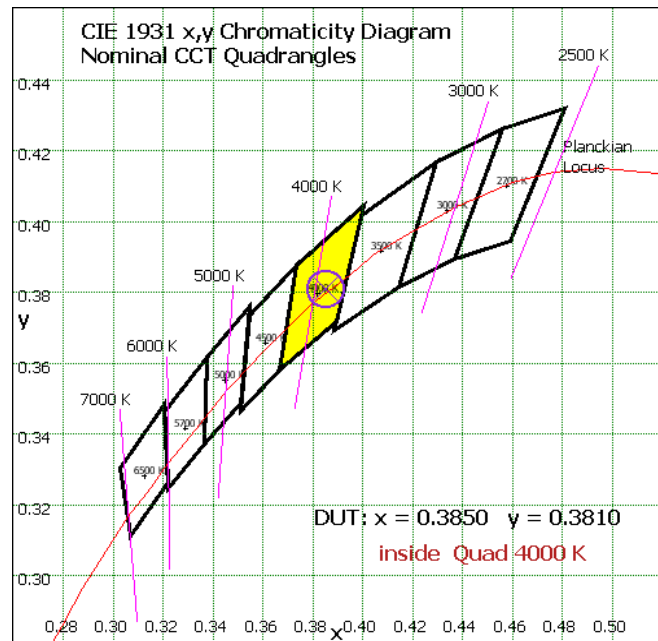
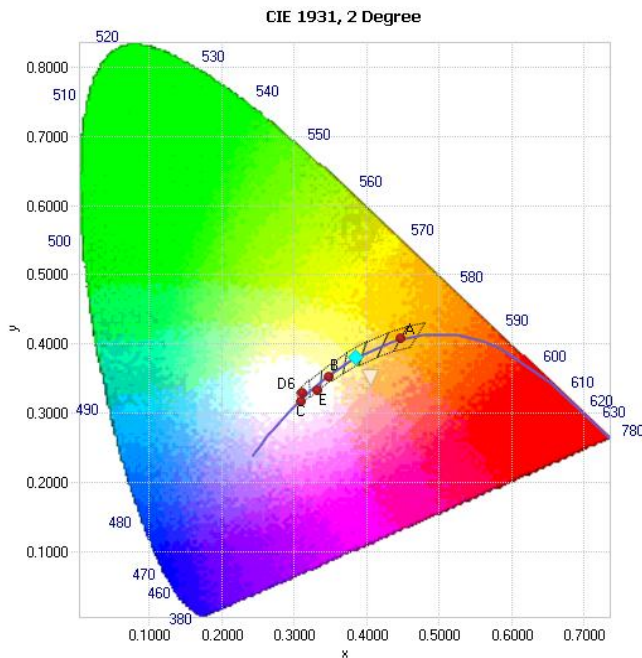


**Chromaticity Coordinates**

x	y	u	v	u'	v'	Duv
0.3850	0.3810	0.2264	0.3361	0.2264	0.5041	0.0006

**Color Rendering Index Detail**

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80.3	78.8	84.5	89.1	80.9	78.7	78.8	85.7	66.3	10.2	63.3	79.2	61.9	79.4	93.6





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## Spectral Power Distribution

$\lambda$ (nm)	mW/nm	$\lambda$ (nm)	mW/nm	$\lambda$ (nm)	mW/nm	$\lambda$ (nm)	mW/nm	$\lambda$ (nm)	mW/nm	$\lambda$ (nm)	mW/nm	$\lambda$ (nm)	mW/nm
350	0.106	422	3.99	494	5.84	566	15.7	638	11.8	710	2.33	782	0.290
351	0.110	423	4.43	495	6.08	567	15.8	639	11.7	711	2.26	783	0.282
352	0.113	424	4.84	496	6.28	568	15.9	640	11.5	712	2.20	784	0.273
353	0.103	425	5.28	497	6.54	569	16.0	641	11.3	713	2.14	785	0.265
354	0.0997	426	5.74	498	6.76	570	16.0	642	11.1	714	2.08	786	0.258
355	0.0988	427	6.20	499	6.97	571	16.0	643	11.0	715	2.02	787	0.252
356	0.100	428	6.68	500	7.20	572	16.1	644	10.8	716	1.97	788	0.244
357	0.0990	429	7.19	501	7.47	573	16.1	645	10.6	717	1.91	789	0.238
358	0.0986	430	7.67	502	7.68	574	16.2	646	10.4	718	1.86	790	0.231
359	0.0989	431	8.23	503	7.97	575	16.3	647	10.2	719	1.81	791	0.226
360	0.0926	432	8.67	504	8.18	576	16.3	648	10.1	720	1.76	792	0.218
361	0.0909	433	9.18	505	8.39	577	16.4	649	9.90	721	1.71	793	0.213
362	0.0957	434	9.73	506	8.64	578	16.4	650	9.75	722	1.66	794	0.207
363	0.0886	435	10.2	507	8.84	579	16.5	651	9.56	723	1.61	795	0.200
364	0.0923	436	10.8	508	9.08	580	16.5	652	9.38	724	1.56	796	0.194
365	0.0900	437	11.3	509	9.29	581	16.6	653	9.20	725	1.52	797	0.191
366	0.0853	438	11.8	510	9.44	582	16.6	654	9.04	726	1.48	798	0.185
367	0.0860	439	12.3	511	9.67	583	16.6	655	8.88	727	1.44	799	0.180
368	0.0941	440	12.8	512	9.84	584	16.6	656	8.72	728	1.39	800	0.176
369	0.0849	441	13.4	513	10.0	585	16.7	657	8.53	729	1.35	801	0.171
370	0.0835	442	13.9	514	10.2	586	16.7	658	8.37	730	1.31	802	0.168
371	0.0863	443	14.3	515	10.4	587	16.7	659	8.19	731	1.27	803	0.161
372	0.0909	444	14.7	516	10.6	588	16.7	660	8.05	732	1.24	804	0.157
373	0.0962	445	15.0	517	10.7	589	16.7	661	7.88	733	1.20	805	0.152
374	0.0922	446	15.2	518	10.9	590	16.8	662	7.72	734	1.17	806	0.150
375	0.0910	447	15.2	519	11.1	591	16.7	663	7.56	735	1.13	807	0.145
376	0.0905	448	15.1	520	11.2	592	16.8	664	7.39	736	1.10	808	0.141
377	0.0892	449	14.8	521	11.3	593	16.7	665	7.23	737	1.07	809	0.137
378	0.0943	450	14.3	522	11.5	594	16.8	666	7.07	738	1.04	810	0.133
379	0.0886	451	13.6	523	11.6	595	16.7	667	6.91	739	1.01	811	0.128
380	0.0902	452	12.9	524	11.8	596	16.7	668	6.78	740	0.979	812	0.127
381	0.0894	453	12.0	525	11.9	597	16.7	669	6.63	741	0.946	813	0.124
382	0.0944	454	11.1	526	12.1	598	16.7	670	6.47	742	0.919	814	0.120
383	0.0978	455	10.3	527	12.1	599	16.6	671	6.32	743	0.893	815	0.115
384	0.0982	456	9.52	528	12.3	600	16.5	672	6.17	744	0.865	816	0.114
385	0.103	457	8.78	529	12.4	601	16.5	673	6.05	745	0.841	817	0.112
386	0.105	458	8.18	530	12.5	602	16.4	674	5.89	746	0.816	818	0.108
387	0.103	459	7.63	531	12.6	603	16.4	675	5.76	747	0.792	819	0.105
388	0.110	460	7.15	532	12.7	604	16.3	676	5.62	748	0.769	820	0.102
389	0.113	461	6.76	533	12.8	605	16.2	677	5.51	749	0.747	821	0.100
390	0.115	462	6.43	534	12.9	606	16.1	678	5.37	750	0.724	822	0.0967
391	0.124	463	6.13	535	13.0	607	16.1	679	5.24	751	0.701	823	0.0957
392	0.129	464	5.83	536	13.1	608	16.0	680	5.13	752	0.679	824	0.0928
393	0.140	465	5.58	537	13.2	609	15.9	681	5.00	753	0.657	825	0.0911
394	0.148	466	5.33	538	13.3	610	15.9	682	4.88	754	0.638	826	0.0874
395	0.158	467	5.07	539	13.4	611	15.7	683	4.75	755	0.619	827	0.0851
396	0.172	468	4.85	540	13.5	612	15.7	684	4.63	756	0.599	828	0.0842
397	0.184	469	4.63	541	13.6	613	15.5	685	4.53	757	0.579	829	0.0811
398	0.201	470	4.42	542	13.7	614	15.5	686	4.42	758	0.562	830	0.0787
399	0.221	471	4.24	543	13.8	615	15.3	687	4.31	759	0.544	831	0.0769
400	0.241	472	4.13	544	13.9	616	15.2	688	4.20	760	0.528	832	0.0760
401	0.272	473	3.99	545	14.0	617	15.1	689	4.10	761	0.511	833	0.0733
402	0.305	474	3.89	546	14.0	618	15.0	690	3.99	762	0.495	834	0.0706
403	0.346	475	3.83	547	14.1	619	14.9	691	3.89	763	0.482	835	0.0697
404	0.392	476	3.77	548	14.3	620	14.8	692	3.79	764	0.467	836	0.0663
405	0.443	477	3.75	549	14.3	621	14.6	693	3.69	765	0.453	837	0.0644
406	0.508	478	3.78	550	14.5	622	14.4	694	3.60	766	0.443	838	0.0642
407	0.579	479	3.80	551	14.5	623	14.3	695	3.50	767	0.431	839	0.0633
408	0.661	480	3.83	552	14.6	624	14.2	696	3.41	768	0.419	840	0.0622
409	0.761	481	3.87	553	14.7	625	14.0	697	3.32	769	0.410	841	0.0603
410	0.875	482	3.98	554	14.8	626	13.9	698	3.23	770	0.401	842	0.0582
411	1.01	483	4.05	555	14.9	627	13.7	699	3.14	771	0.392	843	0.0585
412	1.16	484	4.14	556	15.0	628	13.6	700	3.06	772	0.380	844	0.0547
413	1.34	485	4.25	557	15.1	629	13.4	701	2.98	773	0.371	845	0.0548
414	1.54	486	4.40	558	15.2	630	13.2	702	2.90	774	0.362	846	0.0529
415	1.75	487	4.53	559	15.3	631	13.1	703	2.82	775	0.351	847	0.0526
416	2.00	488	4.67	560	15.3	632	12.9	704	2.74	776	0.343	848	0.0521
417	2.27	489	4.83	561	15.4	633	12.7	705	2.67	777	0.333	849	0.0501
418	2.57	490	5.03	562	15.5	634	12.6	706	2.60	778	0.325	850	0.0489
419	2.87	491	5.22	563	15.5	635	12.4	707	2.53	779	0.314		
420	3.22	492	5.41	564	15.6	636	12.2	708	2.46	780	0.307		
421	3.61	493	5.65	565	15.7	637	12.0	709	2.39	781	0.299		