



UL Verification Services Inc.
7826 East Evans Road
Scottsdale, AZ 85260
480-991-9260

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
Solavanti Lighting LLC
9659 Wendell Rd.
Dallas, TX. 75243

Catalog Number
S3-SS-1--NR-ST-1-3-2-1-4**

Project Number
10712772
Test Number
33824

Test Date
2015-03-18

Prepared By

A handwritten signature in black ink, appearing to read 'Chris Elardo'.

Chris Elardo, Technician

Approved By

A handwritten signature in black ink, appearing to read 'Jim Domigan'.

Jim Domigan, Laboratory Team Leader

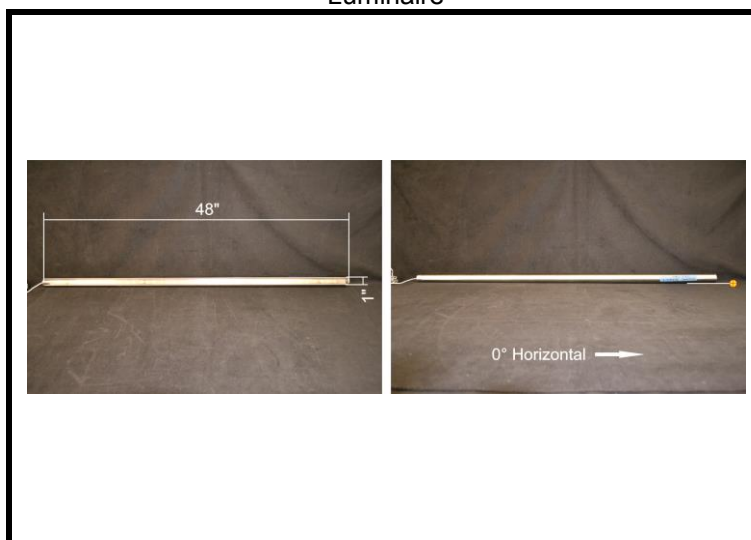
The results contained in this report pertain only to the tested sample.
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Luminaire Description: Medium output standard dist. Stainless steel housing, plastic textured lens
Catalog Number: S3-SS-1-**-NR-ST-1-3-2-1-4
Lamp: 42 LEDs
Ballast/Driver: One ACLED AC-A100VD24H4.1 LED Driver

Luminaire



Summary of Results

Radiant Flux: 875.0 mW
Luminous Flux: 282.0 Lumens
Luminaire Efficacy: 19.7 Lumens/Watt
CCT: 4208 K
CRI (Ra): 72.1
Chromaticity (x): 0.3699
Chromaticity (y): 0.3635
Chromaticity (u): 0.2234
Chromaticity (v): 0.3294
Duv: -0.0034
S/P Ratio: 1.56

The S/P Ratio is only applicable to low-light-level environments. Caution should be used when applying this factor.

Test Conditions

Test Temperature: 25.8 °C
Voltage: 120.0 VAC
Current: 0.1230 A
Power: 14.31 W
Power Factor: 0.968
Frequency: 60 Hz
Current THD: 12.4 %

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

Absorption correction was employed for this measurement.

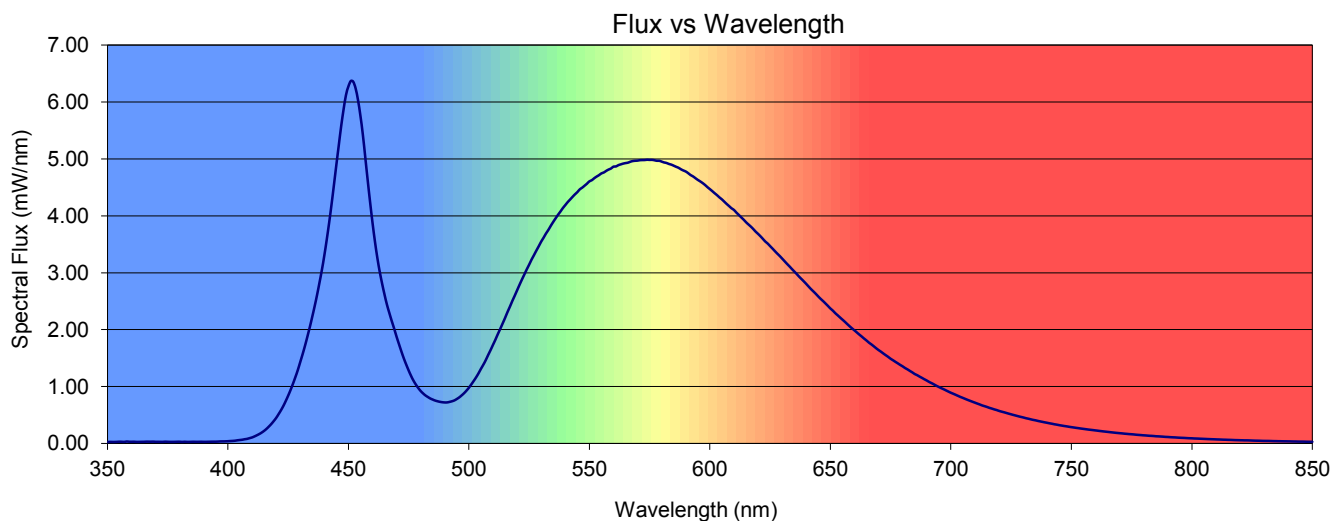
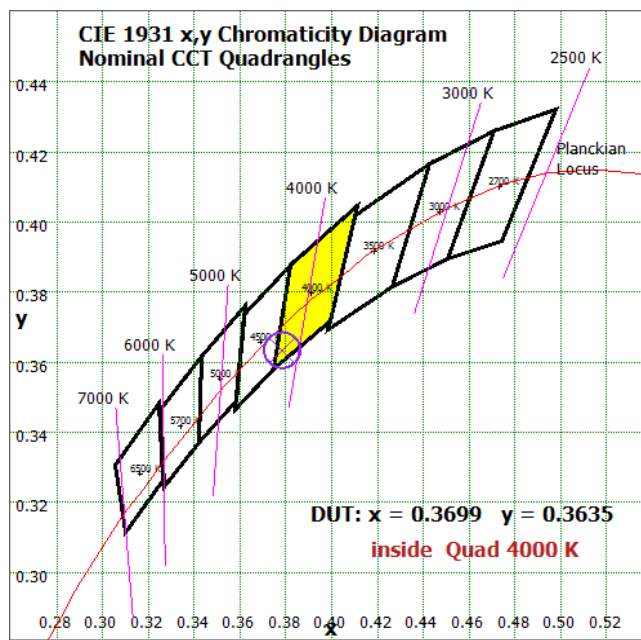
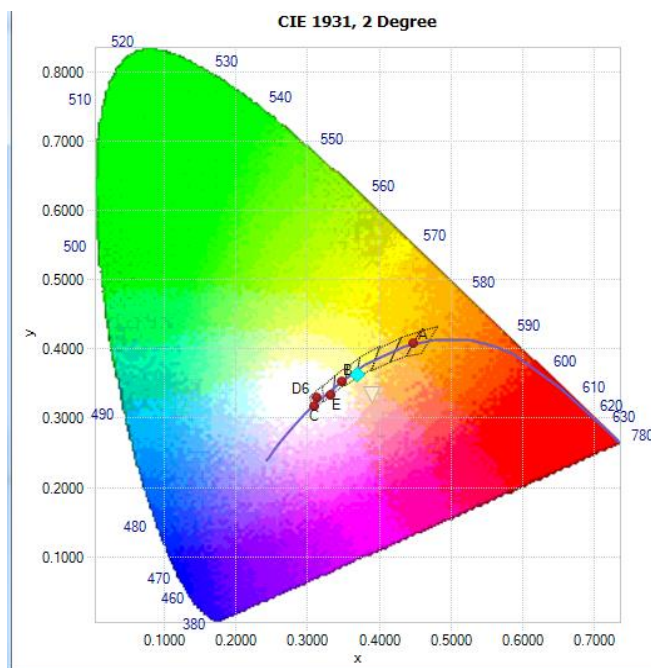


Chromaticity Coordinates

x	y	u	v	u'	v'	Duv
0.3699	0.3635	0.2234	0.3294	0.2234	0.4940	-0.0034

Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
72.1	69.8	78.8	82.1	69.3	68.1	66.8	82.6	58.9	-13.0	46.1	60.8	36.8	71.1	89.3





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	0.0253	422	0.582	494	0.757	566	4.93	638	2.89	710	0.717	782	0.137
351	0.0287	423	0.659	495	0.783	567	4.95	639	2.85	711	0.701	783	0.135
352	0.0274	424	0.746	496	0.810	568	4.96	640	2.80	712	0.686	784	0.132
353	0.0276	425	0.839	497	0.845	569	4.97	641	2.76	713	0.669	785	0.128
354	0.0291	426	0.940	498	0.884	570	4.97	642	2.71	714	0.656	786	0.126
355	0.0320	427	1.05	499	0.929	571	4.98	643	2.67	715	0.642	787	0.123
356	0.0305	428	1.17	500	0.980	572	4.98	644	2.63	716	0.626	788	0.120
357	0.0285	429	1.29	501	1.04	573	4.98	645	2.58	717	0.614	789	0.117
358	0.0350	430	1.43	502	1.10	574	4.99	646	2.54	718	0.600	790	0.115
359	0.0315	431	1.57	503	1.16	575	4.98	647	2.50	719	0.588	791	0.112
360	0.0303	432	1.72	504	1.23	576	4.98	648	2.46	720	0.573	792	0.109
361	0.0315	433	1.88	505	1.31	577	4.98	649	2.42	721	0.561	793	0.107
362	0.0286	434	2.05	506	1.38	578	4.97	650	2.37	722	0.549	794	0.104
363	0.0284	435	2.23	507	1.47	579	4.97	651	2.34	723	0.537	795	0.102
364	0.0297	436	2.41	508	1.56	580	4.95	652	2.29	724	0.525	796	0.0998
365	0.0302	437	2.61	509	1.64	581	4.94	653	2.25	725	0.513	797	0.0977
366	0.0323	438	2.82	510	1.73	582	4.93	654	2.21	726	0.501	798	0.0949
367	0.0325	439	3.05	511	1.82	583	4.91	655	2.18	727	0.490	799	0.0928
368	0.0317	440	3.30	512	1.92	584	4.90	656	2.14	728	0.479	800	0.0913
369	0.0330	441	3.58	513	2.01	585	4.88	657	2.10	729	0.468	801	0.0887
370	0.0302	442	3.88	514	2.11	586	4.86	658	2.06	730	0.458	802	0.0873
371	0.0299	443	4.20	515	2.21	587	4.84	659	2.02	731	0.446	803	0.0853
372	0.0294	444	4.54	516	2.31	588	4.82	660	1.99	732	0.437	804	0.0833
373	0.0291	445	4.89	517	2.40	589	4.80	661	1.95	733	0.427	805	0.0817
374	0.0323	446	5.23	518	2.50	590	4.78	662	1.91	734	0.416	806	0.0794
375	0.0303	447	5.57	519	2.59	591	4.75	663	1.88	735	0.409	807	0.0778
376	0.0289	448	5.87	520	2.69	592	4.72	664	1.84	736	0.398	808	0.0760
377	0.0291	449	6.12	521	2.79	593	4.69	665	1.81	737	0.389	809	0.0745
378	0.0295	450	6.27	522	2.88	594	4.66	666	1.77	738	0.380	810	0.0724
379	0.0309	451	6.37	523	2.97	595	4.63	667	1.74	739	0.372	811	0.0710
380	0.0313	452	6.36	524	3.06	596	4.60	668	1.71	740	0.364	812	0.0694
381	0.0279	453	6.24	525	3.14	597	4.58	669	1.67	741	0.355	813	0.0675
382	0.0310	454	6.03	526	3.23	598	4.54	670	1.64	742	0.347	814	0.0665
383	0.0284	455	5.76	527	3.31	599	4.50	671	1.61	743	0.338	815	0.0648
384	0.0285	456	5.43	528	3.39	600	4.47	672	1.58	744	0.331	816	0.0638
385	0.0301	457	5.03	529	3.47	601	4.43	673	1.55	745	0.323	817	0.0619
386	0.0306	458	4.63	530	3.55	602	4.40	674	1.52	746	0.315	818	0.0601
387	0.0294	459	4.24	531	3.62	603	4.36	675	1.49	747	0.308	819	0.0591
388	0.0298	460	3.88	532	3.69	604	4.32	676	1.46	748	0.302	820	0.0577
389	0.0307	461	3.55	533	3.75	605	4.29	677	1.43	749	0.294	821	0.0566
390	0.0294	462	3.27	534	3.83	606	4.25	678	1.41	750	0.288	822	0.0554
391	0.0297	463	3.02	535	3.89	607	4.21	679	1.38	751	0.282	823	0.0554
392	0.0306	464	2.81	536	3.96	608	4.17	680	1.36	752	0.275	824	0.0538
393	0.0317	465	2.62	537	4.02	609	4.13	681	1.33	753	0.269	825	0.0522
394	0.0325	466	2.44	538	4.08	610	4.10	682	1.30	754	0.263	826	0.0504
395	0.0323	467	2.29	539	4.14	611	4.06	683	1.28	755	0.257	827	0.0495
396	0.0344	468	2.15	540	4.19	612	4.02	684	1.25	756	0.252	828	0.0488
397	0.0368	469	2.02	541	4.24	613	3.97	685	1.22	757	0.245	829	0.0470
398	0.0373	470	1.88	542	4.29	614	3.93	686	1.20	758	0.241	830	0.0458
399	0.0382	471	1.75	543	4.33	615	3.89	687	1.18	759	0.235	831	0.0456
400	0.0405	472	1.62	544	4.38	616	3.85	688	1.15	760	0.230	832	0.0449
401	0.0437	473	1.50	545	4.42	617	3.81	689	1.13	761	0.225	833	0.0437
402	0.0461	474	1.39	546	4.46	618	3.77	690	1.11	762	0.219	834	0.0420
403	0.0498	475	1.28	547	4.49	619	3.72	691	1.08	763	0.214	835	0.0415
404	0.0566	476	1.19	548	4.53	620	3.68	692	1.06	764	0.209	836	0.0405
405	0.0616	477	1.11	549	4.56	621	3.64	693	1.04	765	0.205	837	0.0398
406	0.0669	478	1.04	550	4.61	622	3.59	694	1.01	766	0.200	838	0.0388
407	0.0752	479	0.975	551	4.63	623	3.55	695	0.994	767	0.195	839	0.0384
408	0.0820	480	0.922	552	4.66	624	3.51	696	0.973	768	0.190	840	0.0375
409	0.0943	481	0.880	553	4.69	625	3.47	697	0.954	769	0.186	841	0.0369
410	0.106	482	0.844	554	4.71	626	3.42	698	0.933	770	0.182	842	0.0355
411	0.124	483	0.816	555	4.75	627	3.38	699	0.912	771	0.178	843	0.0352
412	0.144	484	0.791	556	4.76	628	3.33	700	0.892	772	0.173	844	0.0338
413	0.166	485	0.772	557	4.79	629	3.29	701	0.874	773	0.169	845	0.0334
414	0.191	486	0.754	558	4.81	630	3.25	702	0.856	774	0.166	846	0.0333
415	0.222	487	0.742	559	4.83	631	3.20	703	0.837	775	0.163	847	0.0321
416	0.257	488	0.732	560	4.86	632	3.16	704	0.818	776	0.159	848	0.0313
417	0.298	489	0.725	561	4.87	633	3.11	705	0.801	777	0.154	849	0.0308
418	0.343	490	0.721	562	4.89	634	3.07	706	0.783	778	0.151	850	0.0299
419	0.393	491	0.722	563	4.90	635	3.02	707	0.766	779	0.148		
420	0.447	492	0.731	564	4.92	636	2.98	708	0.750	780	0.144		
421	0.514	493	0.743	565	4.93	637	2.93	709	0.733	781	0.141		