



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-2-3-2-1-4

Project Number  
10712772  
Test Number  
33826

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

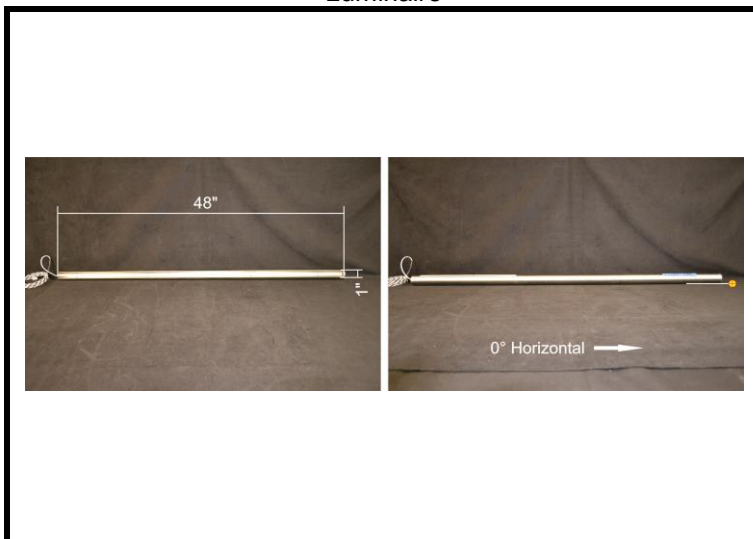
The results contained in this report pertain only to the tested sample.  
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Luminaire Description: High output standard dist. Stainless steel housing, plastic textured lens  
Catalog Number: S3-SS-1-\*\*-NR-ST-2-3-2-1-4  
Lamp: 72 LEDs  
Ballast/Driver: One ACLED AC-A100VD24H4.1 LED Driver

Luminaire



### Summary of Results

Radiant Flux: 1750 mW  
Luminous Flux: 574.0 Lumens  
Luminaire Efficacy: 27.4 Lumens/Watt  
CCT: 4175 K  
CRI (Ra): 69.4  
Chromaticity (x): 0.3728  
Chromaticity (y): 0.3712  
Chromaticity (u): 0.2222  
Chromaticity (v): 0.3320  
Duv: -0.0006  
S/P Ratio: 1.51

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

### Test Conditions

Test Temperature: 25.0 °C  
Voltage: 120.0 VAC  
Current: 0.1780 A  
Power: 20.94 W  
Power Factor: 0.983  
Frequency: 60 Hz  
Current THD: 10.3 %

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

Absorption correction was employed for this measurement.

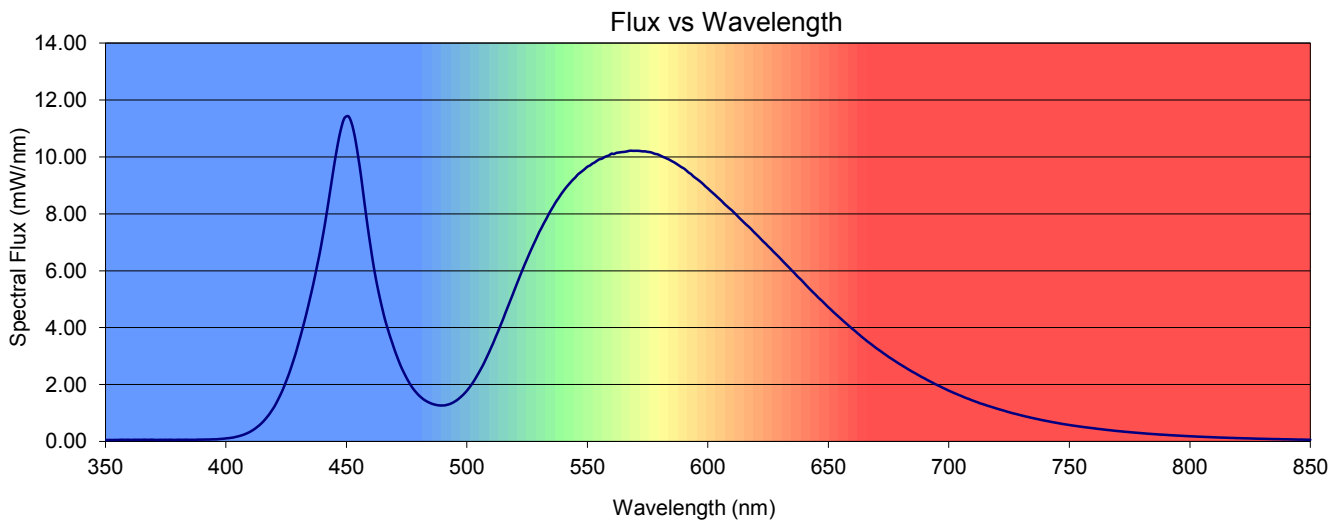
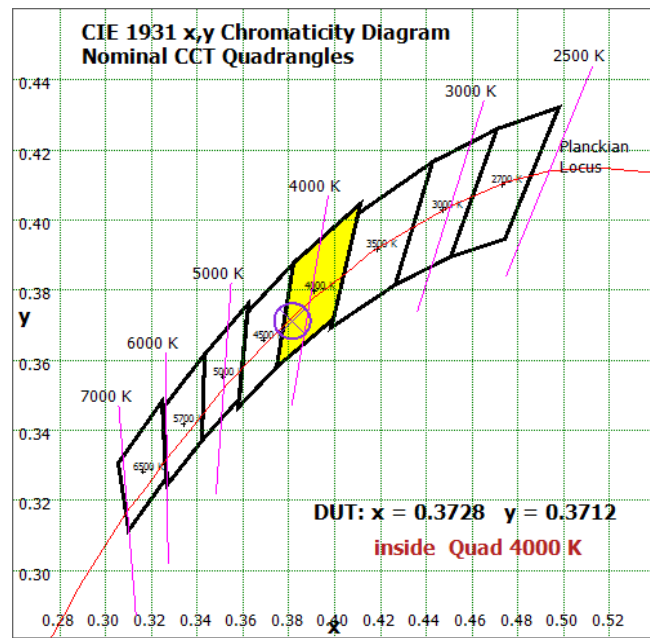
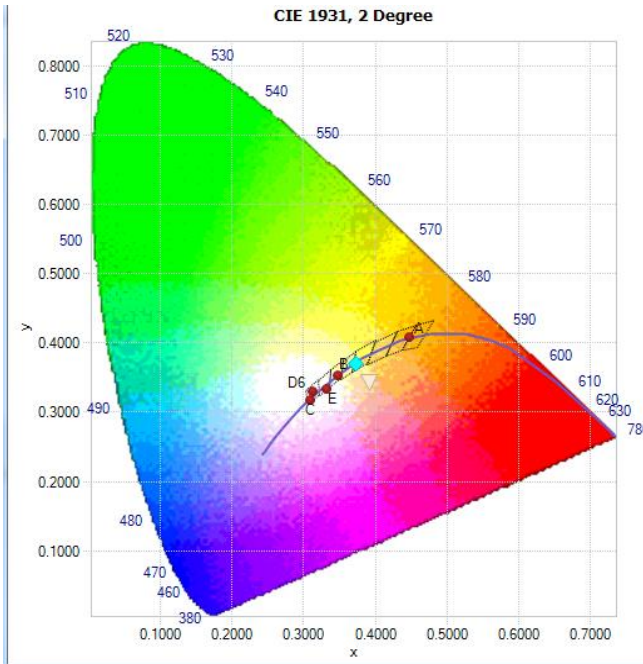


Chromaticity Coordinates

x	y	u	v	u'	v'	Duv
0.3728	0.3712	0.2222	0.3320	0.2222	0.4980	-0.0006

Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
69.4	66.6	75.8	79.7	67.1	65.0	62.9	81.7	56.6	-21.4	39.5	57.9	32.2	67.7	88.0





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	0.0547	422	1.53	494	1.36	566	10.2	638	5.74	710	1.44	782	0.279
351	0.0528	423	1.71	495	1.41	567	10.2	639	5.65	711	1.41	783	0.272
352	0.0553	424	1.90	496	1.46	568	10.2	640	5.56	712	1.37	784	0.266
353	0.0508	425	2.12	497	1.53	569	10.2	641	5.47	713	1.34	785	0.260
354	0.0574	426	2.34	498	1.61	570	10.2	642	5.38	714	1.32	786	0.255
355	0.0541	427	2.58	499	1.69	571	10.2	643	5.30	715	1.29	787	0.249
356	0.0599	428	2.84	500	1.79	572	10.2	644	5.21	716	1.26	788	0.243
357	0.0632	429	3.11	501	1.89	573	10.2	645	5.13	717	1.23	789	0.239
358	0.0573	430	3.41	502	2.01	574	10.2	646	5.04	718	1.21	790	0.233
359	0.0617	431	3.71	503	2.14	575	10.2	647	4.97	719	1.18	791	0.228
360	0.0592	432	4.03	504	2.28	576	10.2	648	4.89	720	1.15	792	0.222
361	0.0565	433	4.36	505	2.43	577	10.1	649	4.80	721	1.13	793	0.218
362	0.0621	434	4.70	506	2.58	578	10.1	650	4.72	722	1.10	794	0.212
363	0.0601	435	5.06	507	2.74	579	10.1	651	4.64	723	1.08	795	0.209
364	0.0610	436	5.43	508	2.92	580	10.1	652	4.56	724	1.05	796	0.204
365	0.0591	437	5.82	509	3.10	581	10.0	653	4.48	725	1.03	797	0.199
366	0.0643	438	6.23	510	3.29	582	9.98	654	4.40	726	1.00	798	0.194
367	0.0613	439	6.64	511	3.47	583	9.94	655	4.33	727	0.982	799	0.189
368	0.0594	440	7.11	512	3.68	584	9.90	656	4.25	728	0.964	800	0.185
369	0.0642	441	7.59	513	3.88	585	9.85	657	4.18	729	0.942	801	0.181
370	0.0603	442	8.12	514	4.09	586	9.81	658	4.10	730	0.920	802	0.177
371	0.0564	443	8.66	515	4.30	587	9.76	659	4.03	731	0.899	803	0.172
372	0.0568	444	9.21	516	4.52	588	9.70	660	3.96	732	0.878	804	0.170
373	0.0597	445	9.75	517	4.73	589	9.64	661	3.89	733	0.860	805	0.166
374	0.0580	446	10.2	518	4.95	590	9.60	662	3.81	734	0.838	806	0.163
375	0.0609	447	10.7	519	5.16	591	9.53	663	3.74	735	0.821	807	0.159
376	0.0576	448	11.1	520	5.38	592	9.45	664	3.67	736	0.802	808	0.156
377	0.0636	449	11.3	521	5.60	593	9.40	665	3.60	737	0.784	809	0.153
378	0.0571	450	11.4	522	5.81	594	9.31	666	3.53	738	0.765	810	0.148
379	0.0566	451	11.4	523	6.02	595	9.25	667	3.47	739	0.747	811	0.145
380	0.0623	452	11.2	524	6.22	596	9.19	668	3.40	740	0.731	812	0.141
381	0.0613	453	10.9	525	6.42	597	9.12	669	3.34	741	0.715	813	0.139
382	0.0592	454	10.5	526	6.62	598	9.05	670	3.27	742	0.698	814	0.136
383	0.0623	455	9.95	527	6.80	599	8.96	671	3.21	743	0.681	815	0.133
384	0.0622	456	9.37	528	6.99	600	8.89	672	3.16	744	0.666	816	0.130
385	0.0583	457	8.72	529	7.17	601	8.81	673	3.09	745	0.651	817	0.127
386	0.0617	458	8.07	530	7.35	602	8.74	674	3.03	746	0.636	818	0.125
387	0.0569	459	7.45	531	7.51	603	8.66	675	2.97	747	0.621	819	0.121
388	0.0639	460	6.87	532	7.68	604	8.58	676	2.92	748	0.607	820	0.120
389	0.0661	461	6.32	533	7.83	605	8.51	677	2.86	749	0.593	821	0.117
390	0.0661	462	5.83	534	8.00	606	8.42	678	2.81	750	0.580	822	0.114
391	0.0675	463	5.39	535	8.14	607	8.34	679	2.75	751	0.566	823	0.111
392	0.0702	464	5.00	536	8.28	608	8.26	680	2.70	752	0.555	824	0.110
393	0.0695	465	4.64	537	8.43	609	8.19	681	2.65	753	0.543	825	0.108
394	0.0753	466	4.29	538	8.55	610	8.12	682	2.60	754	0.530	826	0.105
395	0.0764	467	4.00	539	8.68	611	8.03	683	2.54	755	0.519	827	0.102
396	0.0773	468	3.73	540	8.79	612	7.95	684	2.49	756	0.507	828	0.0993
397	0.0865	469	3.47	541	8.91	613	7.86	685	2.44	757	0.497	829	0.0975
398	0.0929	470	3.22	542	9.01	614	7.78	686	2.40	758	0.486	830	0.0950
399	0.0982	471	2.99	543	9.10	615	7.69	687	2.35	759	0.476	831	0.0942
400	0.110	472	2.77	544	9.20	616	7.62	688	2.30	760	0.465	832	0.0914
401	0.118	473	2.57	545	9.28	617	7.54	689	2.25	761	0.454	833	0.0897
402	0.128	474	2.40	546	9.38	618	7.46	690	2.21	762	0.443	834	0.0871
403	0.140	475	2.23	547	9.44	619	7.37	691	2.16	763	0.435	835	0.0856
404	0.160	476	2.08	548	9.51	620	7.29	692	2.12	764	0.423	836	0.0841
405	0.179	477	1.94	549	9.58	621	7.20	693	2.08	765	0.414	837	0.0843
406	0.203	478	1.82	550	9.66	622	7.12	694	2.03	766	0.403	838	0.0808
407	0.230	479	1.72	551	9.69	623	7.03	695	1.99	767	0.396	839	0.0780
408	0.262	480	1.63	552	9.76	624	6.95	696	1.95	768	0.385	840	0.0780
409	0.299	481	1.55	553	9.80	625	6.86	697	1.91	769	0.376	841	0.0766
410	0.341	482	1.48	554	9.86	626	6.78	698	1.87	770	0.368	842	0.0736
411	0.390	483	1.43	555	9.92	627	6.69	699	1.83	771	0.360	843	0.0724
412	0.446	484	1.38	556	9.94	628	6.60	700	1.78	772	0.352	844	0.0702
413	0.511	485	1.34	557	9.99	629	6.52	701	1.75	773	0.343	845	0.0677
414	0.580	486	1.31	558	10.0	630	6.44	702	1.71	774	0.336	846	0.0691
415	0.661	487	1.29	559	10.1	631	6.35	703	1.68	775	0.328	847	0.0665
416	0.749	488	1.27	560	10.1	632	6.26	704	1.64	776	0.321	848	0.0645
417	0.851	489	1.27	561	10.1	633	6.17	705	1.61	777	0.313	849	0.0631
418	0.958	490	1.27	562	10.1	634	6.09	706	1.57	778	0.307	850	0.0625
419	1.08	491	1.27	563	10.2	635	6.00	707	1.53	779	0.299		
420	1.21	492	1.29	564	10.2	636	5.91	708	1.50	780	0.294		
421	1.36	493	1.32	565	10.2	637	5.82	709	1.47	781	0.286		