



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
804/805 LEDP 830

Order Number
10047370
Test Number
437108

Test Date
2013-12-23

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

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White aluminum housing, no enclosure
Catalog Number: 804/805 LEDP 830
Lamp: Nine white LEDs with clear prismatic plastic optics below each
Mounting: Surface Ceiling
Ballast/Driver: One Eldoled SOLOdrive 561M

Luminaire



Summary of Results

Radiant Flux:	2670 mW
Luminous Flux:	850.9 Lumens
Luminaire Efficacy:	52.7 Lumens/Watt
CCT:	3128 K
CRI (Ra):	81.7
Chromaticity (x):	0.4268
Chromaticity (y):	0.3982
Chromaticity (u):	0.2465
Chromaticity (v):	0.3450
Duv:	-0.0013

Test Conditions

Test Temperature:	24.9 °C
Voltage:	120.0 VAC
Current:	0.1390 A
Power:	16.14 W
Power Factor:	0.967
Frequency:	60 Hz
Current THD:	6.40 %

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

Absorption correction was employed for this measurement.

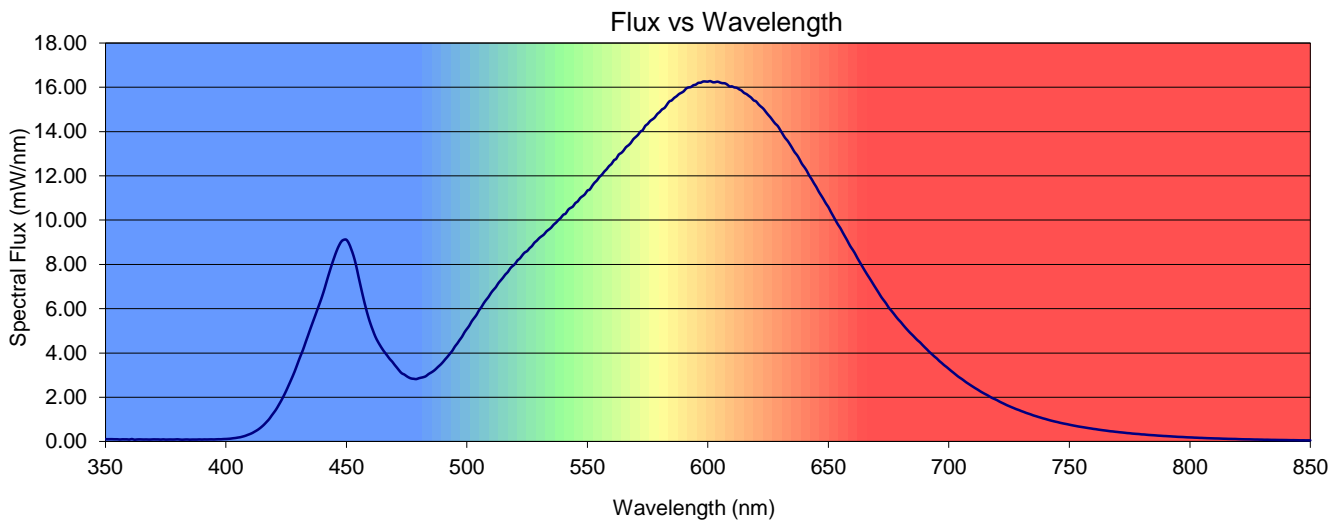
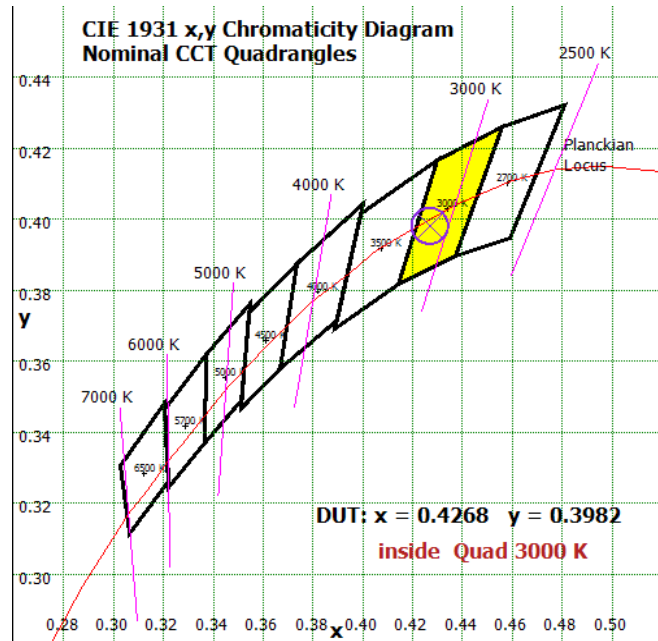
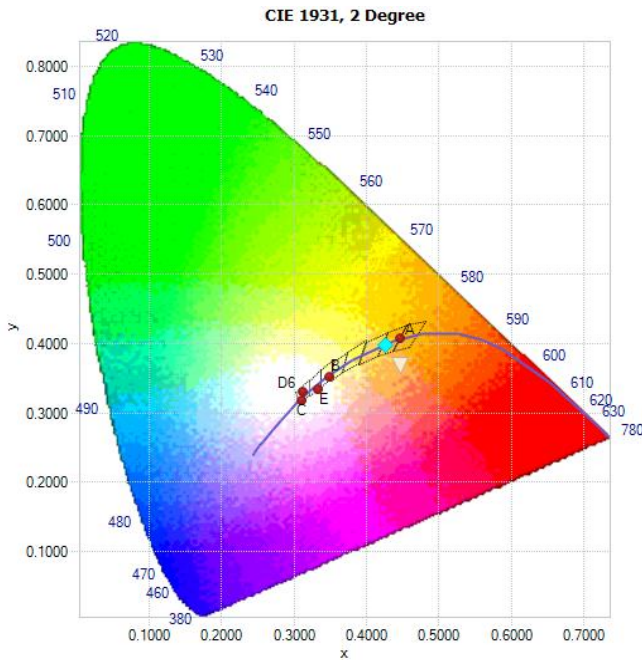


Chromaticity Coordinates

x	y	u	v	u'	v'	Duv
0.4268	0.3982	0.2465	0.3450	0.2465	0.5175	-0.0013

Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
81.7	79.9	87.9	94.3	80.2	79.4	83.7	84.9	63.1	13.0	71.5	78.1	67.2	81.4	96.5





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	λ(nm)	mW/nm
350	0.107	422	1.66	494	4.11	566	13.3	638	12.8	710	2.48	782	0.306		
351	0.104	423	1.86	495	4.29	567	13.4	639	12.5	711	2.41	783	0.297		
352	0.106	424	2.07	496	4.43	568	13.5	640	12.4	712	2.34	784	0.289		
353	0.105	425	2.29	497	4.59	569	13.6	641	12.2	713	2.27	785	0.283		
354	0.101	426	2.53	498	4.73	570	13.7	642	12.0	714	2.21	786	0.274		
355	0.101	427	2.77	499	4.93	571	13.9	643	11.9	715	2.15	787	0.265		
356	0.0902	428	3.02	500	5.08	572	14.0	644	11.7	716	2.09	788	0.258		
357	0.0990	429	3.30	501	5.23	573	14.1	645	11.5	717	2.03	789	0.251		
358	0.0979	430	3.59	502	5.43	574	14.3	646	11.3	718	1.96	790	0.247		
359	0.0974	431	3.87	503	5.57	575	14.3	647	11.1	719	1.92	791	0.239		
360	0.0875	432	4.14	504	5.72	576	14.5	648	10.9	720	1.87	792	0.233		
361	0.112	433	4.46	505	5.92	577	14.6	649	10.7	721	1.80	793	0.226		
362	0.0817	434	4.76	506	6.07	578	14.6	650	10.6	722	1.75	794	0.219		
363	0.0916	435	5.07	507	6.25	579	14.8	651	10.4	723	1.70	795	0.210		
364	0.0960	436	5.37	508	6.40	580	14.9	652	10.2	724	1.65	796	0.207		
365	0.0939	437	5.67	509	6.53	581	15.0	653	9.99	725	1.60	797	0.203		
366	0.0902	438	5.97	510	6.71	582	15.1	654	9.80	726	1.55	798	0.196		
367	0.0930	439	6.27	511	6.85	583	15.2	655	9.63	727	1.51	799	0.190		
368	0.0875	440	6.58	512	6.97	584	15.4	656	9.43	728	1.46	800	0.186		
369	0.0902	441	6.93	513	7.14	585	15.4	657	9.24	729	1.42	801	0.182		
370	0.0967	442	7.30	514	7.27	586	15.5	658	9.05	730	1.38	802	0.175		
371	0.0938	443	7.66	515	7.40	587	15.6	659	8.84	731	1.34	803	0.171		
372	0.0941	444	8.01	516	7.55	588	15.7	660	8.68	732	1.30	804	0.165		
373	0.0869	445	8.33	517	7.66	589	15.8	661	8.50	733	1.26	805	0.162		
374	0.0963	446	8.62	518	7.82	590	15.8	662	8.30	734	1.22	806	0.157		
375	0.0871	447	8.87	519	7.93	591	15.9	663	8.11	735	1.18	807	0.152		
376	0.0896	448	9.05	520	8.02	592	16.0	664	7.92	736	1.15	808	0.148		
377	0.0913	449	9.11	521	8.18	593	16.0	665	7.74	737	1.11	809	0.145		
378	0.0890	450	9.11	522	8.27	594	16.1	666	7.56	738	1.08	810	0.141		
379	0.0932	451	8.96	523	8.42	595	16.1	667	7.39	739	1.05	811	0.138		
380	0.0989	452	8.69	524	8.54	596	16.2	668	7.22	740	1.02	812	0.136		
381	0.0875	453	8.37	525	8.60	597	16.2	669	7.04	741	0.988	813	0.131		
382	0.0824	454	7.97	526	8.73	598	16.3	670	6.87	742	0.956	814	0.127		
383	0.0890	455	7.46	527	8.83	599	16.3	671	6.70	743	0.929	815	0.124		
384	0.0919	456	6.98	528	8.98	600	16.3	672	6.52	744	0.902	816	0.120		
385	0.0836	457	6.51	529	9.07	601	16.3	673	6.38	745	0.879	817	0.118		
386	0.0881	458	6.06	530	9.19	602	16.2	674	6.23	746	0.851	818	0.116		
387	0.0881	459	5.66	531	9.27	603	16.2	675	6.06	747	0.826	819	0.115		
388	0.0884	460	5.32	532	9.35	604	16.3	676	5.93	748	0.804	820	0.108		
389	0.0941	461	5.02	533	9.49	605	16.2	677	5.79	749	0.785	821	0.104		
390	0.0882	462	4.74	534	9.57	606	16.2	678	5.65	750	0.760	822	0.101		
391	0.0938	463	4.53	535	9.66	607	16.2	679	5.52	751	0.737	823	0.0992		
392	0.0919	464	4.34	536	9.80	608	16.1	680	5.40	752	0.716	824	0.0979		
393	0.0939	465	4.17	537	9.89	609	16.0	681	5.27	753	0.695	825	0.0962		
394	0.0968	466	4.01	538	10.0	610	16.0	682	5.14	754	0.674	826	0.0923		
395	0.0933	467	3.87	539	10.1	611	16.0	683	5.02	755	0.658	827	0.0895		
396	0.0982	468	3.73	540	10.2	612	16.0	684	4.90	756	0.641	828	0.0886		
397	0.103	469	3.61	541	10.3	613	15.9	685	4.80	757	0.623	829	0.0859		
398	0.102	470	3.47	542	10.5	614	15.9	686	4.68	758	0.605	830	0.0844		
399	0.111	471	3.33	543	10.6	615	15.7	687	4.57	759	0.589	831	0.0798		
400	0.114	472	3.20	544	10.6	616	15.7	688	4.48	760	0.570	832	0.0809		
401	0.122	473	3.08	545	10.8	617	15.6	689	4.37	761	0.557	833	0.0775		
402	0.131	474	3.03	546	10.8	618	15.5	690	4.26	762	0.539	834	0.0736		
403	0.147	475	2.95	547	11.0	619	15.4	691	4.15	763	0.523	835	0.0740		
404	0.159	476	2.89	548	11.1	620	15.4	692	4.04	764	0.508	836	0.0714		
405	0.178	477	2.84	549	11.2	621	15.2	693	3.94	765	0.495	837	0.0692		
406	0.195	478	2.83	550	11.3	622	15.1	694	3.84	766	0.479	838	0.0686		
407	0.224	479	2.82	551	11.4	623	15.0	695	3.75	767	0.464	839	0.0669		
408	0.255	480	2.86	552	11.5	624	14.9	696	3.64	768	0.455	840	0.0658		
409	0.297	481	2.88	553	11.7	625	14.8	697	3.55	769	0.441	841	0.0627		
410	0.339	482	2.91	554	11.8	626	14.6	698	3.45	770	0.430	842	0.0607		
411	0.387	483	2.95	555	12.0	627	14.5	699	3.37	771	0.417	843	0.0609		
412	0.450	484	3.04	556	12.0	628	14.4	700	3.28	772	0.407	844	0.0585		
413	0.513	485	3.11	557	12.2	629	14.3	701	3.19	773	0.395	845	0.0565		
414	0.590	486	3.17	558	12.3	630	14.1	702	3.10	774	0.382	846	0.0535		
415	0.680	487	3.26	559	12.4	631	13.9	703	3.01	775	0.374	847	0.0545		
416	0.781	488	3.37	560	12.5	632	13.7	704	2.92	776	0.361	848	0.0522		
417	0.898	489	3.47	561	12.7	633	13.6	705	2.85	777	0.351	849	0.0523		
418	1.02	490	3.58	562	12.8	634	13.4	706	2.77	778	0.344	850	0.0522		
419	1.17	491	3.71	563	13.0	635	13.3	707	2.69	779	0.336				
420	1.32	492	3.84	564	13.0	636	13.1	708	2.62	780	0.322				
421	1.48	493	3.97	565	13.1	637	12.9	709	2.54	781	0.318				