



Integrating Sphere Test Report

Relevant Standards
IES LM-79-2008
ANSI C78.377-2008, ANSI C82.77
CIE 13.3-1995, CIE 15-2004

Prepared For
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H2P 1H4

Catalog Number
LAP3151

Project Number
6012-000171
Test Number
28156

Test Date

2012-01-26

Prepared By

A handwritten signature in black ink, appearing to read 'Kyle Spaziani'.

Kyle Spaziani, Technician

Approved By

A handwritten signature in black ink, appearing to read 'Brian Moyer'.

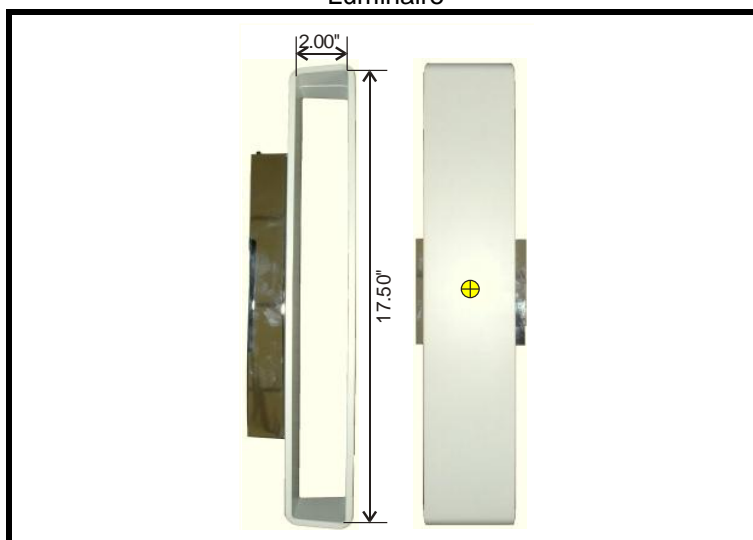
Brian Moyer, Engineer

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Formed white enamel aluminum housing / reflector, open sides
Catalog Number: LAP3151
Lamp: Nine white LEDs
Mounting: Surface Wall
Ballast/Driver: One Lightech LED 10CV 12 PU

Luminaire



Summary of Results

Radiant Flux: 562.3 mW
Luminous Flux: 180.5 Lumens
Luminaire Efficacy: 40.2 Lumens/Watt
CCT: 4008 K
CRI (Ra): 80.7
Chromaticity (x): 0.3815
Chromaticity (y): 0.3821
Chromaticity (u): 0.2237
Chromaticity (v): 0.3360
Duv: 0.0014

Test Conditions

Test Temperature: 24.8 °C
Voltage: 120.0 VAC
Current: 0.07547 A
Power: 4.491 W
Power Factor: 0.496
Frequency: 60 Hz
Current THD: 156 %

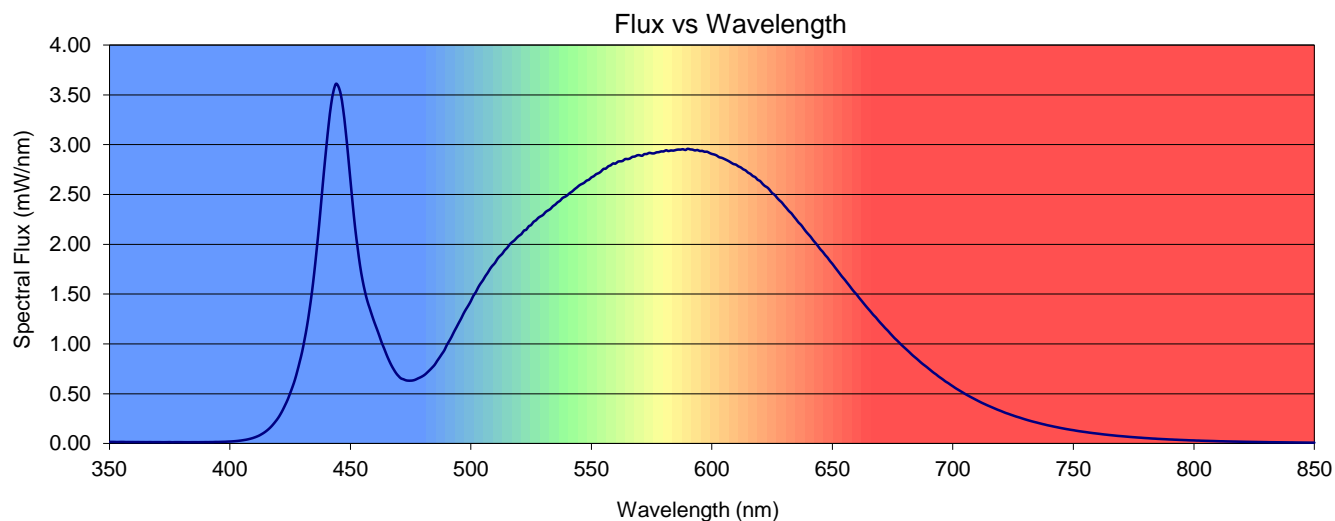
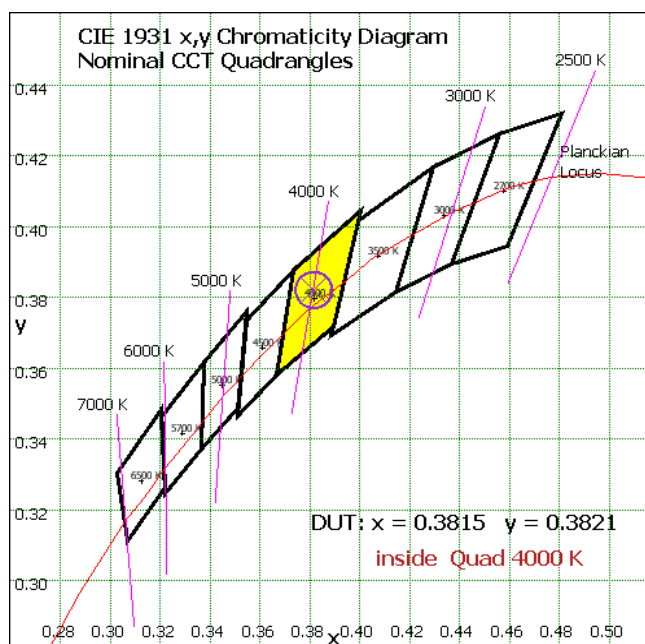
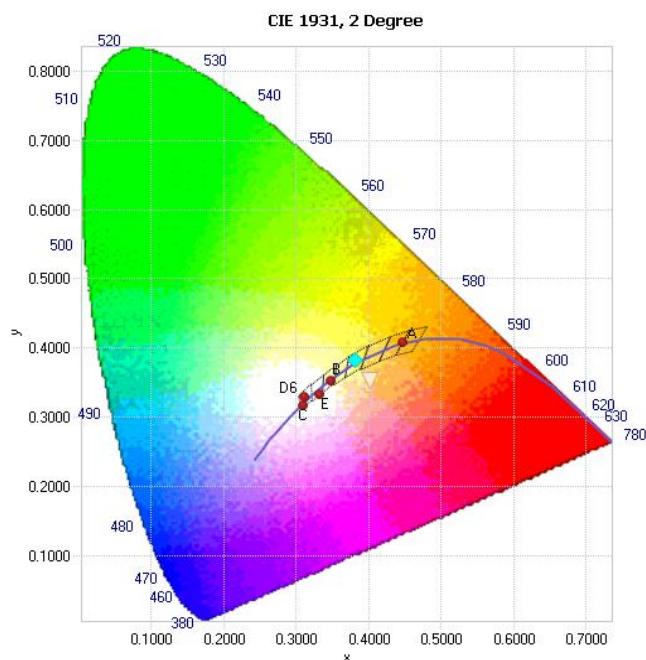


Chromaticity Coordinates

x	y	u	v	u'	v'	Duv
0.3815	0.3821	0.2237	0.3360	0.2237	0.5041	0.0014

Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
80.7	79.2	84.2	88.4	81.7	79.1	78.3	86.4	68.6	14.6	63.1	80.3	60.0	79.6	93.4





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	0.0165	422	0.339	494	1.17	566	2.86	638	2.16	710	0.434	782	0.0513
351	0.0163	423	0.390	495	1.21	567	2.88	639	2.13	711	0.421	783	0.0499
352	0.0162	424	0.442	496	1.26	568	2.88	640	2.10	712	0.409	784	0.0486
353	0.0150	425	0.505	497	1.31	569	2.89	641	2.07	713	0.398	785	0.0470
354	0.0155	426	0.570	498	1.35	570	2.89	642	2.04	714	0.387	786	0.0458
355	0.0160	427	0.642	499	1.39	571	2.89	643	2.01	715	0.376	787	0.0445
356	0.0157	428	0.728	500	1.43	572	2.91	644	1.98	716	0.366	788	0.0433
357	0.0147	429	0.824	501	1.48	573	2.91	645	1.95	717	0.356	789	0.0420
358	0.0149	430	0.923	502	1.52	574	2.92	646	1.92	718	0.345	790	0.0406
359	0.0147	431	1.05	503	1.57	575	2.91	647	1.89	719	0.335	791	0.0400
360	0.0148	432	1.18	504	1.61	576	2.91	648	1.87	720	0.326	792	0.0385
361	0.0144	433	1.34	505	1.64	577	2.92	649	1.83	721	0.316	793	0.0376
362	0.0147	434	1.51	506	1.68	578	2.92	650	1.80	722	0.306	794	0.0365
363	0.0142	435	1.71	507	1.71	579	2.93	651	1.77	723	0.298	795	0.0356
364	0.0142	436	1.94	508	1.75	580	2.93	652	1.74	724	0.290	796	0.0345
365	0.0140	437	2.19	509	1.79	581	2.94	653	1.71	725	0.281	797	0.0336
366	0.0140	438	2.45	510	1.81	582	2.94	654	1.68	726	0.273	798	0.0325
367	0.0144	439	2.72	511	1.85	583	2.94	655	1.65	727	0.265	799	0.0317
368	0.0137	440	2.97	512	1.88	584	2.94	656	1.62	728	0.258	800	0.0310
369	0.0140	441	3.21	513	1.90	585	2.95	657	1.59	729	0.250	801	0.0298
370	0.0139	442	3.40	514	1.94	586	2.95	658	1.55	730	0.242	802	0.0293
371	0.0138	443	3.54	515	1.96	587	2.95	659	1.52	731	0.235	803	0.0282
372	0.0133	444	3.61	516	1.99	588	2.95	660	1.50	732	0.228	804	0.0276
373	0.0134	445	3.58	517	2.02	589	2.95	661	1.47	733	0.221	805	0.0268
374	0.0137	446	3.51	518	2.04	590	2.96	662	1.44	734	0.215	806	0.0262
375	0.0143	447	3.36	519	2.06	591	2.95	663	1.41	735	0.209	807	0.0254
376	0.0129	448	3.15	520	2.09	592	2.95	664	1.38	736	0.203	808	0.0249
377	0.0136	449	2.91	521	2.10	593	2.94	665	1.35	737	0.197	809	0.0240
378	0.0136	450	2.65	522	2.14	594	2.95	666	1.32	738	0.191	810	0.0233
379	0.0137	451	2.39	523	2.15	595	2.94	667	1.29	739	0.185	811	0.0225
380	0.0136	452	2.16	524	2.18	596	2.94	668	1.27	740	0.180	812	0.0223
381	0.0131	453	1.96	525	2.19	597	2.93	669	1.24	741	0.175	813	0.0215
382	0.0131	454	1.79	526	2.23	598	2.93	670	1.21	742	0.169	814	0.0210
383	0.0130	455	1.65	527	2.24	599	2.92	671	1.18	743	0.165	815	0.0205
384	0.0133	456	1.53	528	2.27	600	2.91	672	1.16	744	0.160	816	0.0198
385	0.0134	457	1.43	529	2.28	601	2.90	673	1.13	745	0.155	817	0.0194
386	0.0133	458	1.36	530	2.30	602	2.89	674	1.11	746	0.150	818	0.0190
387	0.0132	459	1.28	531	2.32	603	2.87	675	1.08	747	0.146	819	0.0184
388	0.0136	460	1.21	532	2.34	604	2.87	676	1.05	748	0.141	820	0.0178
389	0.0137	461	1.15	533	2.35	605	2.86	677	1.03	749	0.137	821	0.0173
390	0.0142	462	1.08	534	2.38	606	2.85	678	1.01	750	0.134	822	0.0170
391	0.0140	463	1.01	535	2.40	607	2.83	679	0.982	751	0.129	823	0.0167
392	0.0144	464	0.954	536	2.42	608	2.82	680	0.961	752	0.125	824	0.0161
393	0.0146	465	0.893	537	2.44	609	2.81	681	0.938	753	0.122	825	0.0157
394	0.0158	466	0.836	538	2.46	610	2.80	682	0.916	754	0.118	826	0.0154
395	0.0155	467	0.786	539	2.48	611	2.78	683	0.892	755	0.115	827	0.0150
396	0.0164	468	0.743	540	2.49	612	2.77	684	0.871	756	0.112	828	0.0147
397	0.0171	469	0.705	541	2.51	613	2.75	685	0.851	757	0.108	829	0.0142
398	0.0176	470	0.677	542	2.53	614	2.74	686	0.829	758	0.105	830	0.0138
399	0.0191	471	0.654	543	2.55	615	2.72	687	0.808	759	0.102	831	0.0134
400	0.0201	472	0.645	544	2.57	616	2.71	688	0.789	760	0.0992	832	0.0130
401	0.0215	473	0.635	545	2.59	617	2.68	689	0.771	761	0.0964	833	0.0129
402	0.0234	474	0.631	546	2.60	618	2.67	690	0.751	762	0.0933	834	0.0125
403	0.0254	475	0.631	547	2.62	619	2.65	691	0.731	763	0.0903	835	0.0122
404	0.0283	476	0.633	548	2.64	620	2.64	692	0.711	764	0.0879	836	0.0121
405	0.0315	477	0.641	549	2.65	621	2.61	693	0.695	765	0.0850	837	0.0117
406	0.0353	478	0.653	550	2.67	622	2.58	694	0.675	766	0.0828	838	0.0114
407	0.0395	479	0.664	551	2.68	623	2.57	695	0.658	767	0.0802	839	0.0112
408	0.0451	480	0.677	552	2.70	624	2.55	696	0.640	768	0.0776	840	0.0109
409	0.0513	481	0.693	553	2.71	625	2.51	697	0.622	769	0.0754	841	0.0108
410	0.0590	482	0.716	554	2.73	626	2.50	698	0.608	770	0.0736	842	0.0104
411	0.0679	483	0.739	555	2.76	627	2.47	699	0.591	771	0.0713	843	0.0101
412	0.0783	484	0.764	556	2.76	628	2.44	700	0.574	772	0.0694	844	0.00991
413	0.0916	485	0.791	557	2.78	629	2.42	701	0.558	773	0.0671	845	0.00975
414	0.106	486	0.829	558	2.79	630	2.39	702	0.543	774	0.0652	846	0.00942
415	0.123	487	0.863	559	2.81	631	2.36	703	0.528	775	0.0635	847	0.00916
416	0.143	488	0.900	560	2.81	632	2.33	704	0.514	776	0.0616	848	0.00890
417	0.166	489	0.936	561	2.83	633	2.31	705	0.499	777	0.0597	849	0.00872
418	0.193	490	0.988	562	2.83	634	2.28	706	0.485	778	0.0584	850	0.00849
419	0.223	491	1.03	563	2.84	635	2.25	707	0.472	779	0.0562		
420	0.256	492	1.07	564	2.86	636	2.22	708	0.459	780	0.0547		
421	0.295	493	1.12	565	2.86	637	2.19	709	0.447	781	0.0532		