



# Report of Test

## LLIA000824-033A

Catalog Number: 3-590-124 Magneta Vanity  
 Wall mounted, formed steel and spun aluminum housing, aluminum  
 LED mounting plate, translucent white glass enclosure.  
 72 white LEDs, two Harvard Engineering LER7-284x17-930-36S-I LED boards  
 Two L.T.F. DA12W350C1834D010-0000 dimmable LED drivers  
 120.0Vac, 60.00Hz, 0.2695A, 28.98W, 0.896PF, 12.6%THD(i)



### Performance Summary

Total Light Output	2067 lm
Luminaire Power	29.0 W
Luminous Efficacy	71.3 lm/W

**PREPARED FOR : Oxygen Lighting, 201 Railhead Road, Fort Worth, TX 76106, USA**



**Test Report No. LLIA000824-033A**

Catalog Number: 3-590-124 Magneta Vanity

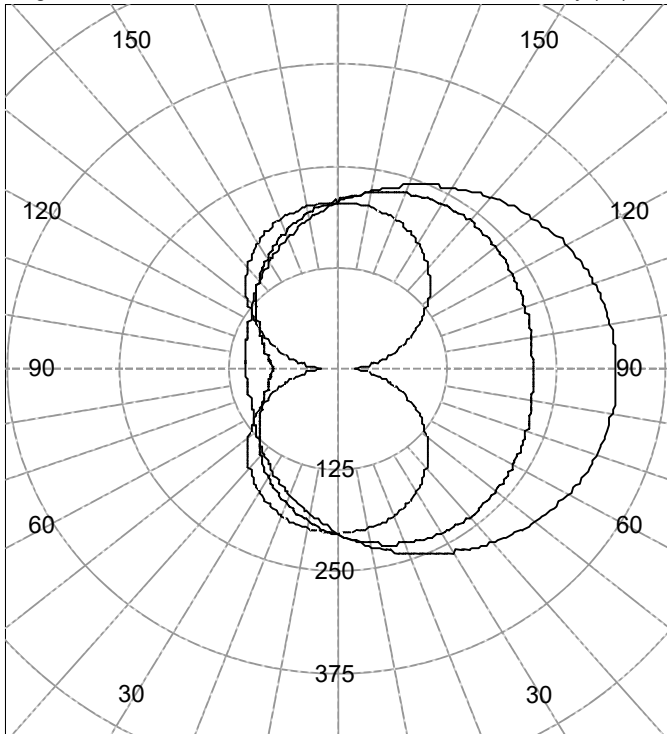
Wall mounted, formed steel and spun aluminum housing, aluminum LED mounting plate, translucent white glass enclosure.

72 white LEDs, two Harvard Engineering LER7-284x17-930-36S-I LED boards

Two L.T.F. DA12W350C1834D010-0000 dimmable LED drivers

120.0Vac, 60.00Hz, 0.2695A, 28.98W, 0.896PF, 12.6%THD(i)

Legend: C0/C180-Solid, C45/C225-Dashed, C90/C270-Grey (cd)



C180-C270 (Symmetric about C0/C180) C0-C90

**AVERAGE LUMINANCE (cd/m<sup>2</sup>)**

Gamma	C0	C45	C90
45.0	4244	3941	3909
55.0	4515	4050	3789
65.0	4892	4280	3635
75.0	5412	4696	3435
85.0	6162	5425	3179

**INTENSITY SUMMARY (cd)**

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	203	203	203	203	203	
5.0	213	212	211	205	200	19
10.0	222	221	218	207	199	
15.0	232	229	223	208	196	57
20.0	242	238	228	208	191	
25.0	251	246	231	206	184	90
30.0	260	253	234	203	176	
35.0	269	260	235	198	167	118
40.0	278	266	236	193	157	
45.0	285	272	236	186	145	138
50.0	293	278	235	178	132	
55.0	299	282	234	169	119	150
60.0	305	286	232	160	104	
65.0	309	289	230	151	89	154
70.0	313	291	228	142	74	
75.0	315	293	226	134	59	154
80.0	317	294	224	127	43	
85.0	317	294	223	123	29	150
90.0	317	293	222	120	18	

**ZONAL FLUX AND PERCENTAGES**

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	166	N / A	8.1
0-40	284	N / A	13.8
0-60	572	N / A	27.7
0-90	1030	N / A	49.8
40-90	746	N / A	36.1
60-90	458	N / A	22.2
90-180	1037	N / A	50.2
0-180	2067	N / A	100.0

Total Light Output = 2,067 lm

Signed:

Authorized Signatory

Date of test 14-Sep-2017  
Date of report 14-Sep-2017



**Test Report No. LLIA000824-033A**

Catalog Number: 3-590-124 Magneta Vanity

Wall mounted, formed steel and spun aluminum housing, aluminum

LED mounting plate, translucent white glass enclosure.

72 white LEDs, two Harvard Engineering LER7-284x17-930-36S-I LED boards

Two L.T.F. DA12W350C1834D010-0000 dimmable LED drivers

120.0Vac, 60.00Hz, 0.2695A, 28.98W, 0.896PF, 12.6%THD(i)

**Intensity data (cd)**

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	203	203	203	203	203
2.5	208	207	208	203	201
5.0	213	212	211	205	200
7.5	218	216	215	206	200
10.0	222	221	218	207	199
12.5	227	225	221	208	197
15.0	232	229	223	208	196
17.5	237	233	226	208	193
20.0	242	238	228	208	191
22.5	247	242	230	207	188
25.0	251	246	231	206	184
27.5	256	249	233	204	181
30.0	260	253	234	203	176
32.5	265	257	235	201	172
35.0	269	260	235	198	167
37.5	273	263	236	196	162
40.0	278	266	236	193	157
42.5	282	269	236	189	151
45.0	285	272	236	186	145
47.5	289	275	236	182	139
50.0	293	278	235	178	132
52.5	296	280	234	174	126
55.0	299	282	234	169	119
57.5	302	284	233	165	112
60.0	305	286	232	160	104
62.5	307	288	231	155	97
65.0	309	289	230	151	89
67.5	311	290	229	146	82
70.0	313	291	228	142	74
72.5	314	292	227	137	66
75.0	315	293	226	134	59
77.5	316	293	225	130	51
80.0	317	294	224	127	43
82.5	317	294	224	125	36
85.0	317	294	223	123	29
87.5	317	293	222	121	22
90.0	317	293	222	120	18



**Test Report No. LLIA000824-033A**

Catalog Number: 3-590-124 Magneta Vanity

Wall mounted, formed steel and spun aluminum housing, aluminum  
LED mounting plate, translucent white glass enclosure.

72 white LEDs, two Harvard Engineering LER7-284x17-930-36S-I LED boards

Two L.T.F. DA12W350C1834D010-0000 dimmable LED drivers

120.0Vac, 60.00Hz, 0.2695A, 28.98W, 0.896PF, 12.6%THD(i)

**Intensity data (cd)**

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	317	293	222	120	18
92.5	316	293	222	121	22
95.0	316	292	222	123	29
97.5	316	292	223	125	37
100.0	315	292	223	127	44
102.5	314	291	224	130	52
105.0	313	291	225	133	60
107.5	312	290	226	137	68
110.0	310	289	227	141	75
112.5	308	288	227	145	83
115.0	306	287	228	150	91
117.5	304	285	229	154	99
120.0	301	283	230	159	106
122.5	298	281	231	164	114
125.0	295	280	232	168	121
127.5	292	277	233	172	128
130.0	289	275	234	176	135
132.5	286	273	235	180	141
135.0	282	270	235	184	148
137.5	278	268	236	187	154
140.0	274	265	236	191	160
142.5	270	262	236	194	165
145.0	266	259	236	196	170
147.5	262	255	235	199	175
150.0	258	252	235	201	180
152.5	254	249	234	203	184
155.0	249	245	232	205	188
157.5	245	242	231	206	191
160.0	240	238	229	207	194
162.5	236	234	227	207	197
165.0	231	230	225	207	199
167.5	227	226	223	207	201
170.0	222	222	220	207	203
172.5	218	218	217	206	204
175.0	213	214	214	205	204
177.5	208	210	211	203	205
180.0	205	205	205	205	205



**Test Report No. LLIA000824-033A**

Catalog Number: 3-590-124 Magneta Vanity

Wall mounted, formed steel and spun aluminum housing, aluminum  
LED mounting plate, translucent white glass enclosure.

72 white LEDs, two Harvard Engineering LER7-284x17-930-36S-I LED boards

Two L.T.F. DA12W350C1834D010-0000 dimmable LED drivers

120.0Vac, 60.00Hz, 0.2695A, 28.98W, 0.896PF, 12.6%THD(i)

**Intensity data (cd)**

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
0.0	203	203	203	203	203
2.5	201	198	202	199	196
5.0	200	196	199	195	191
7.5	200	194	195	190	186
10.0	199	191	191	186	182
12.5	197	188	187	181	177
15.0	196	185	183	177	172
17.5	193	182	179	172	168
20.0	191	178	175	168	164
22.5	188	174	170	163	159
25.0	184	169	166	159	155
27.5	181	165	161	155	151
30.0	176	160	156	151	147
32.5	172	155	151	146	143
35.0	167	149	147	142	140
37.5	162	144	142	138	136
40.0	157	138	137	135	133
42.5	151	133	132	131	130
45.0	145	127	127	128	126
47.5	139	121	123	124	124
50.0	132	115	118	121	121
52.5	126	109	113	118	118
55.0	119	103	109	115	116
57.5	112	96	105	112	113
60.0	104	90	100	109	111
62.5	97	85	97	107	110
65.0	89	79	93	105	108
67.5	82	73	90	104	107
70.0	74	68	87	103	107
72.5	66	63	85	102	106
75.0	59	59	83	101	105
77.5	51	54	81	101	105
80.0	43	51	79	100	104
82.5	36	48	78	100	104
85.0	29	44	76	100	104
87.5	22	41	74	99	104
90.0	18	40	74	100	105



**Test Report No. LLIA000824-033A**

Catalog Number: 3-590-124 Magneta Vanity

Wall mounted, formed steel and spun aluminum housing, aluminum

LED mounting plate, translucent white glass enclosure.

72 white LEDs, two Harvard Engineering LER7-284x17-930-36S-I LED boards

Two L.T.F. DA12W350C1834D010-0000 dimmable LED drivers

120.0Vac, 60.00Hz, 0.2695A, 28.98W, 0.896PF, 12.6%THD(i)

**Intensity data (cd)**

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
90.0	18	40	74	100	105
92.5	22	41	75	100	105
95.0	29	45	77	100	105
97.5	37	49	79	101	106
100.0	44	52	81	102	106
102.5	52	55	83	102	107
105.0	60	60	85	103	108
107.5	68	65	87	105	109
110.0	75	70	90	106	110
112.5	83	76	92	107	111
115.0	91	81	96	109	113
117.5	99	87	100	111	114
120.0	106	93	104	114	116
122.5	114	100	108	116	119
125.0	121	106	112	119	121
127.5	128	112	117	122	124
130.0	135	118	121	126	127
132.5	141	124	126	129	130
135.0	148	130	131	132	133
137.5	154	136	136	136	136
140.0	160	142	140	139	139
142.5	165	147	145	143	143
145.0	170	153	150	147	146
147.5	175	158	155	151	150
150.0	180	163	159	155	154
152.5	184	168	164	159	157
155.0	188	172	169	163	161
157.5	191	177	173	167	166
160.0	194	181	178	171	170
162.5	197	184	182	176	174
165.0	199	188	186	180	178
167.5	201	191	190	184	183
170.0	203	194	194	188	187
172.5	204	196	198	193	192
175.0	204	199	201	197	196
177.5	205	201	205	201	201
180.0	205	205	205	205	205



**Test Number: LLIA000824-033A**

Catalog Number: 3-590-124 Magneta Vanity

Wall mounted, formed steel and spun aluminum housing, aluminum LED mounting plate, translucent white glass enclosure.

72 white LEDs, two Harvard Engineering LER7-284x17-930-36S-I LED boards

Two L.T.F. DA12W350C1834D010-0000 dimmable LED drivers

120.0Vac, 60.00Hz, 0.2695A, 28.98W, 0.896PF, 12.6%THD(i)

**Coefficients Of Utilization - Zonal Cavity Method**

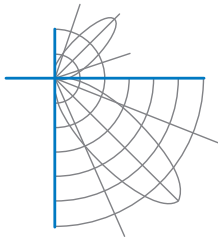
Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	94	88	83	79	86	81	77	73	68	64	61	55	53	50	44	42	40	35
2	85	75	68	62	77	69	63	57	58	53	48	47	43	40	37	34	32	27
3	76	65	57	50	70	60	52	46	50	44	39	40	36	32	32	28	26	21
4	69	57	48	41	63	53	45	38	44	37	32	35	31	27	28	24	21	17
5	63	51	42	35	58	46	38	32	39	32	27	31	27	23	25	21	18	15
6	58	45	36	30	53	41	33	28	35	28	24	28	23	19	22	18	16	12
7	54	40	32	26	49	37	30	24	31	25	20	26	21	17	20	16	14	11
8	50	37	28	23	45	34	26	21	28	22	18	23	18	15	18	15	12	9
9	46	33	25	20	42	31	23	19	26	20	16	21	17	13	17	13	11	8
10	43	30	23	18	39	28	21	17	24	18	14	20	15	12	16	12	10	8

For absolute test reports, CUs are expressed as a percentage of total lumen output. Calculations were based on published IES procedures, and are based on the zonal cavity method. Basic assumptions: 1) Room surfaces are lambertian reflectors. 2) Incident flux on each surface is uniformly distributed. 3) The room is spectrally neutral. When luminaires are not evenly distributed throughout the room, or do not exhibit lateral symmetry, CU values may differ from actual performance.

**Circle of Light Plot**

Height(ft)	Illuminance at Nadir (fc)	Beam Width (across 50% Nadir Illum)	
		0-180	90-270
6.0	5.6	9.25	7.77
8.0	3.2	12.33	10.36
10.0	2.0	15.41	12.95
12.0	1.4	18.50	15.53
14.0	1.0	21.58	18.12
16.0	0.8	24.66	20.71



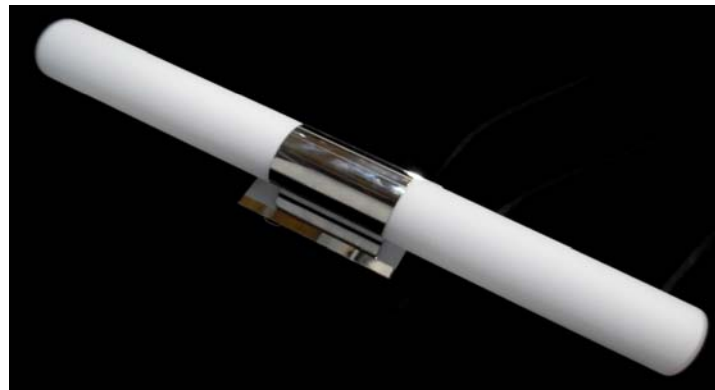
**Test Report No. LLIA000824-033A**

Catalog Number: 3-590-124 Magneta Vanity

Wall mounted, formed steel and spun aluminum housing, aluminum  
LED mounting plate, translucent white glass enclosure.

72 white LEDs, two Harvard Engineering LER7-284x17-930-36S-I LED boards

Two L.T.F. DA12W350C1834D010-0000 dimmable LED drivers  
120.0Vac, 60.00Hz, 0.2695A, 28.98W, 0.896PF, 12.6%THD(i)







## Test Report No. LLIA000824-033A

Catalog Number: 3-590-124 Magneta Vanity

Wall mounted, formed steel and spun aluminum housing, aluminum  
LED mounting plate, translucent white glass enclosure.

72 white LEDs, two Harvard Engineering LER7-284x17-930-36S-I LED boards

Two L.T.F. DA12W350C1834D010-0000 dimmable LED drivers  
120.0Vac, 60.00Hz, 0.2695A, 28.98W, 0.896PF, 12.6%THD(i)

**Test Distance** 9.5 m  
**Test Temperature** 25.0 °C

### Notes

The laboratory has not participated in the selection of samples to be tested. All testing is performed on the understanding that the significance of the report is limited to the extent that the test sample is representative of production units.

Tested in accordance with the applicable sections of publications: IES LM-79-08 (Sec. 12), IES LM-16-93, IES LM-58-13, CIE 13.3:1995, CIE 15:2004, ANSI C78.377:2015, ANSI C82.77-10:2014.

The luminous intensity values, and other derived quantities, contained in this report are based on the absolute data, as measured.

Prorating the performance of the sample for the use of other component combinations (such as lamp / LED / Ballast / driver), or for use in different environmental conditions than that tested, may produce erroneous results.

This report is free of erasures and corrections.

Photometric intensity values are reported using the CIE Gamma coordinate system as defined in CIE publication number 121.

This report may contain data that are not covered by the NVLAP accreditation. Quantities marked with \* are not covered.

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the Federal Government.



## Report of Test

**LLIA000824-033B**

Integrating Sphere Report

Catalog Number: 3-590-124 Magneta Vanity

Wall mounted, formed steel and spun aluminum housing, aluminum

LED mounting plate, translucent white glass enclosure.

72 white LEDs, two Harvard Engineering LER7-284x17-930-36S-I LED boards

Two L.T.F. DA12W350C1834D010-0000 dimmable LED drivers



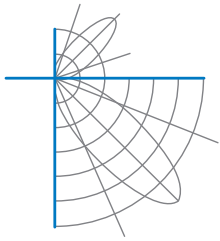
### Performance Summary

Voltage	120.0 Vac
Current	0.2606 A
Power	28.96 W
Frequency	60.00 Hz
Power Factor	0.926
Current THD	9.2 %

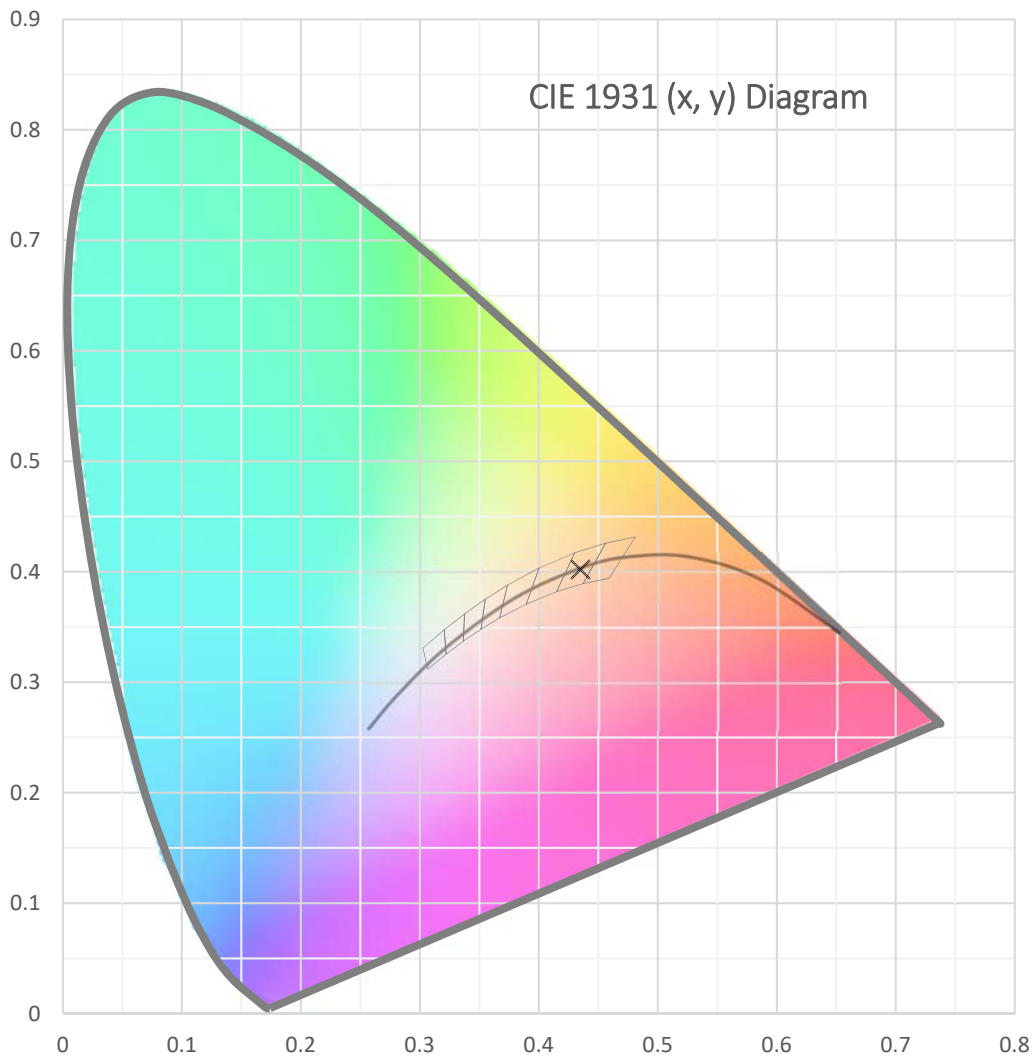
Total Luminous Flux	2077.0 lm
Efficacy	71.7 lm/W
Chromaticity (x,y)	(0.4349, 0.4020)
(u',v')	(0.2502, 0.5203)
Duv	-0.0006
CCT	3017 K
CRI (Ra)	91
R9	58

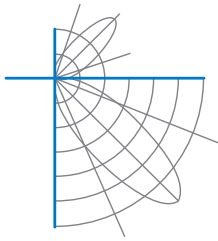
Prepared For:  
Oxygen Lighting  
201 Railhead Road  
Fort Worth, TX 76106, USA

Test date: 09/12/2017  
Report date: 09/13/2017



**Test Report Number: LLIA000824-033B**  
Catalog Number: 3-590-124 Magneta Vanity  
Wall mounted, formed steel and spun aluminum housing, aluminum  
LED mounting plate, translucent white glass enclosure.  
72 white LEDs, two Harvard Engineering LER7-284x17-930-36S-I LED boards  
Two L.T.F. DA12W350C1834D010-0000 dimmable LED drivers





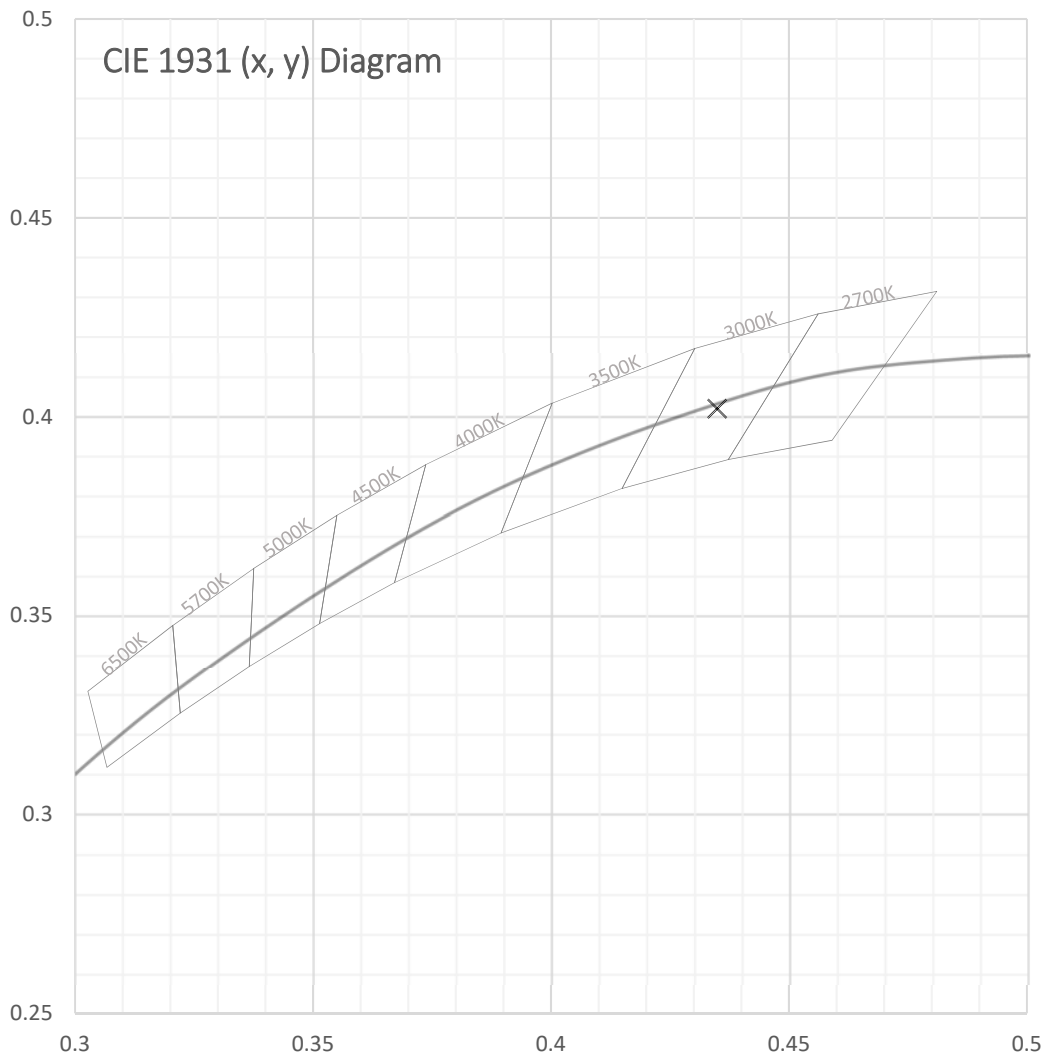
**Test Report Number: LLIA000824-033B**

Catalog Number: 3-590-124 Magneta Vanity

Wall mounted, formed steel and spun aluminum housing, aluminum  
LED mounting plate, translucent white glass enclosure.

72 white LEDs, two Harvard Engineering LER7-284x17-930-36S-I LED boards

Two L.T.F. DA12W350C1834D010-0000 dimmable LED drivers





**Test Report Number: LLIA000824-033B**

Catalog Number: 3-590-124 Magneta Vanity

Wall mounted, formed steel and spun aluminum housing, aluminum  
LED mounting plate, translucent white glass enclosure.

72 white LEDs, two Harvard Engineering LER7-284x17-930-36S-I LED boards

Two L.T.F. DA12W350C1834D010-0000 dimmable LED drivers

**Spectral Data**

Total Radiant Flux	7.321 W
Total Luminous Flux	2077.0 Lm
Chromaticity CIE 1931 (x, y)	(0.4349, 0.4020)
Chromaticity CIE 1976 (u', v')	(0.2502, 0.5203)
Correlated Color Temperature (CCT)	3017 K
Color Rendering Index (Ra)	91
R1	91
R2	95
R3	97
R4	91
R5	91
R6	93
R7	92
R8	82
R9	58
R10	87
R11	91
R12	79
R13	92
R14	97
Distance from Planckian Locus (Duv)	-0.0006
Scotopic/Photopic Ratio *	1.404

**Electrical Data**

Voltage	120.0 Vac
Current	0.2606 A
Power	28.96 W
Frequency	60.00 Hz
Power Factor	0.926
Current THD	9.2 %



**Test Report Number: LLIA000824-033B**

Catalog Number: 3-590-124 Magneta Vanity

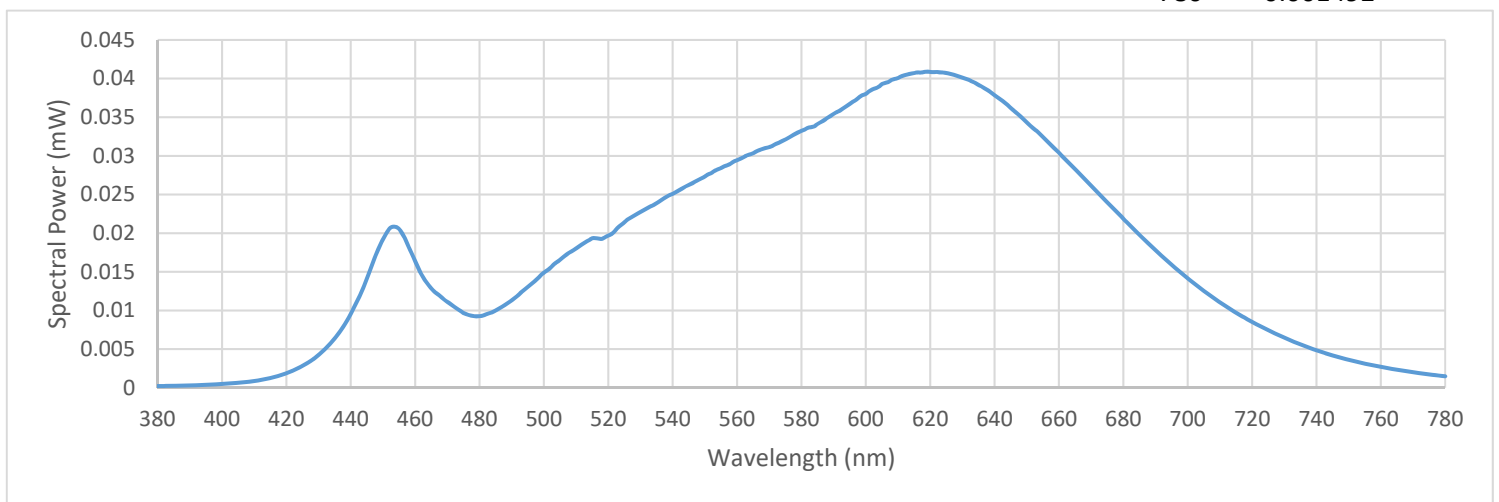
Wall mounted, formed steel and spun aluminum housing, aluminum LED mounting plate, translucent white glass enclosure.

72 white LEDs, two Harvard Engineering LER7-284x17-930-36S-I LED boards

Two L.T.F. DA12W350C1834D010-0000 dimmable LED drivers

Summary Spectral Power Distribution (wavelength - nm, spectral power - mW)

380	0.000228	480	0.009271	580	0.033235	680	0.021864
385	0.000250	485	0.009992	585	0.034138	685	0.019811
390	0.000307	490	0.011329	590	0.035442	690	0.017795
395	0.000380	495	0.013029	595	0.036715	695	0.015884
400	0.000490	500	0.014896	600	0.038016	700	0.014178
405	0.000637	505	0.016553	605	0.039281	705	0.012549
410	0.000881	510	0.018029	610	0.040070	710	0.011037
415	0.001257	515	0.019345	615	0.040699	715	0.009720
420	0.001891	520	0.019694	620	0.040857	720	0.008508
425	0.002842	525	0.021411	625	0.040712	725	0.007438
430	0.004276	530	0.022732	630	0.040117	730	0.006494
435	0.006395	535	0.023857	635	0.039167	735	0.005612
440	0.009568	540	0.025082	640	0.037843	740	0.004843
445	0.014137	545	0.026251	645	0.036204	745	0.004190
450	0.019240	550	0.027336	650	0.034325	750	0.003621
455	0.020556	555	0.028427	655	0.032416	755	0.003119
460	0.016412	560	0.029437	660	0.030415	760	0.002714
465	0.012853	565	0.030345	665	0.028255	765	0.002335
470	0.011116	570	0.031129	670	0.026123	770	0.002010
475	0.009675	575	0.032104	675	0.024001	775	0.001732
						780	0.001492





**Test Report Number: LLIA000824-033B**

Catalog Number: 3-590-124 Magneta Vanity

Wall mounted, formed steel and spun aluminum housing, aluminum  
LED mounting plate, translucent white glass enclosure.

72 white LEDs, two Harvard Engineering LER7-284x17-930-36S-I LED boards

Two L.T.F. DA12W350C1834D010-0000 dimmable LED drivers

**Test Equipment Configuration:** LightLab International Allentown 2m Integrating Sphere  
Measurements acquired using a Labsphere CDS 2600 spectroradiometer  
Testing was performed using 4 $\pi$  geometry

**Test Temperature:** 25.7 °C

**Test Procedure:** Tested in accordance with the applicable sections of:  
LM-79-08, LM-78-07, LM-58-13, ANSI\_ANSLG C78.377-2015, ANSI C82-77-10:2014

**Significance:** The laboratory has not participated in the selection of samples to be tested.  
All testing is performed on the understanding that the significance of the report  
is limited to the extent that the test sample is representative of production units.

**Notes:** The measurements and other derived quantities contained in this report  
are based on the absolute data as measured.

Prorating the performance of the sample for the use of other component  
combinations (such as lamp / LED / Ballast / driver), or for use in different  
environmental conditions than that tested, may produce erroneous results.

This report is free of erasures and corrections

This report may contain data that are not covered by the NVLAP accreditation.  
Quantities marked with \* are not covered.