

Report of Test

LLIA001389-001A

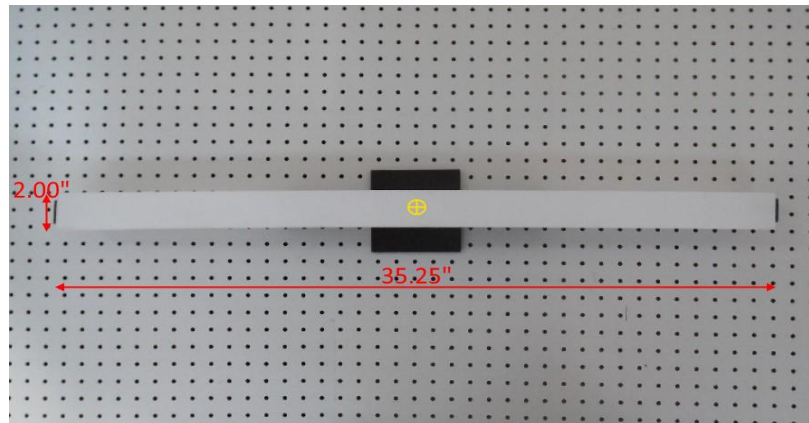
Indoor Distribution Photometry Test Report

Catalog Number: 3-555 Aldephi Vanity

Wall mounted, formed steel housing, translucent white plastic enclosure.

108 white LEDs, one Luxtech 3-9-30568 LED board with 72 LEDs, and one 3-9-3014 board with 36 LEDs.

One ERP ESS030W-0700-42 LED driver



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

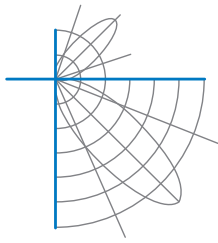
Performance Summary			
Input Voltage	120.0 V	Luminous Flux	2546.6 Lumens
Input Current	0.2239 A	Total Efficacy	96.6 Lm/W
Input Power	26.37 W	Downward Flux	1268.5 Lumens
Frequency	60.00 Hz	Downward Flux	49.8 % of Total
Power Factor	0.982		
Current THD	13.7 %		

This test report was issued by LightLab International Allentown, LLC without alterations or erasures.

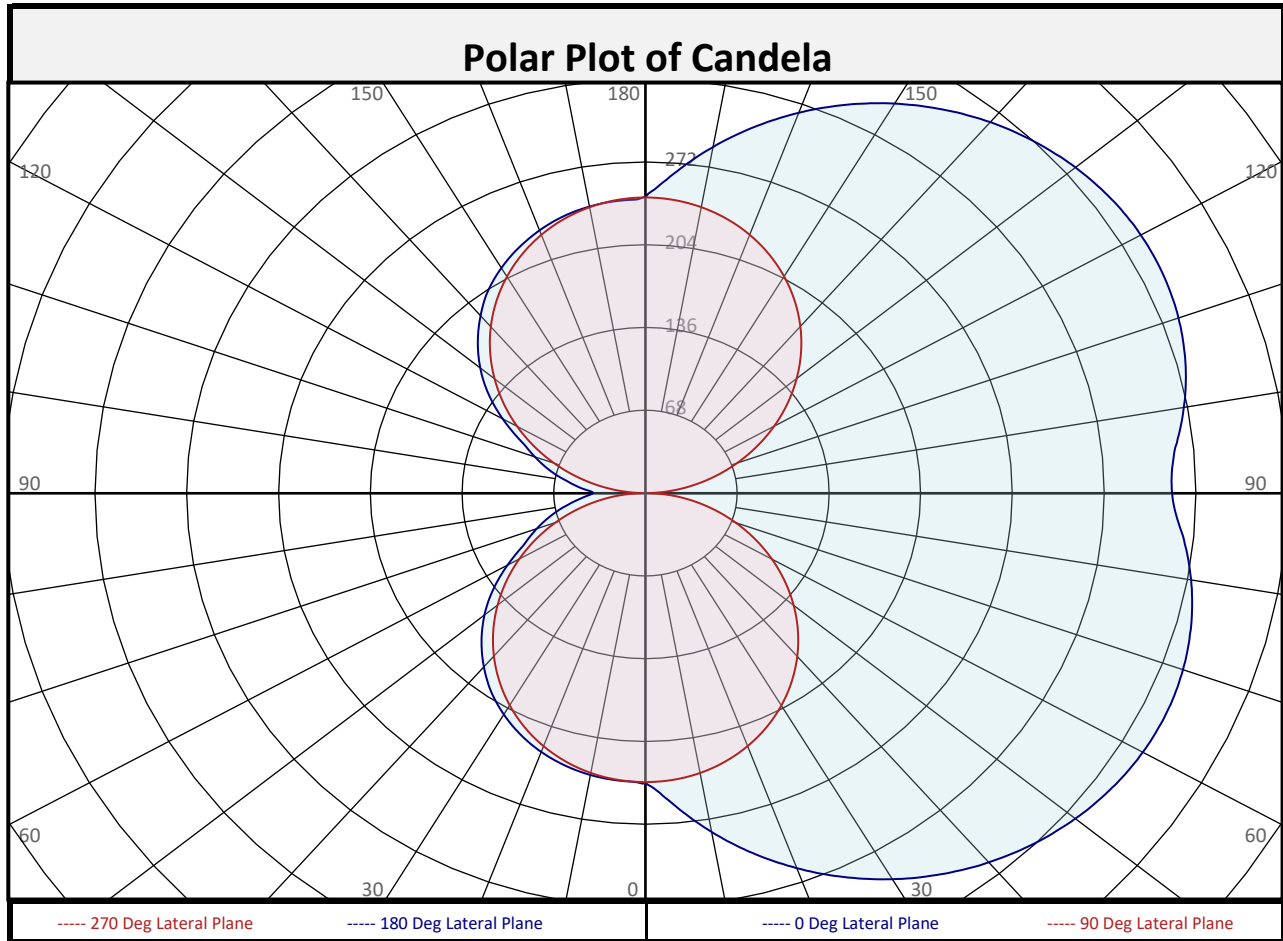
Test date: 01/15/2021

Report date: 01/25/2021

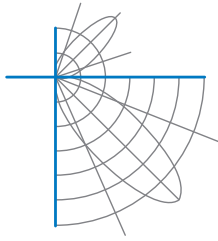
Signed: _____



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Zonal Flux Summary																																																																																									
Zone (Deg Vert)	Flux (Lumens)	Percent of Total	Zone (Deg Vert)	Flux (Lumens)	Percent of Total	Zone (Deg Vert)	Flux (Lumens)	Percent of Total	Zone (Deg Vert)	Flux (Lumens)	Percent of Total																																																																														
0-10	23.3	0.9%	90-100	151.6	6.0%	0-20	94.6	3.7%	10-20	71.3	2.8%	100-110	176.1	6.9%	0-30	212.0	8.3%	20-30	117.4	4.6%	110-120	192.9	7.6%	0-40	368.3	14.5%	30-40	156.2	6.1%	120-130	197.4	7.8%	0-60	746.9	29.3%	40-50	183.2	7.2%	130-140	185.6	7.3%	0-80	1115	43.8%	50-60	195.4	7.7%	140-150	158.6	6.2%	10-90	1245	48.9%	60-70	191.9	7.5%	150-160	119.4	4.7%	20-50	456.9	17.9%	70-80	176.7	6.9%	160-170	72.7	2.9%	40-90	900.2	35.3%	80-90	153.0	6.0%	170-180	23.8	0.9%	60-90	521.6	20.5%	0-90	1268	49.8%	90-180	1278	50.2%	0-180	2547	100.0%



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Luminous Intensity (Candela) Table

		Lateral (C-Plane) Angles								
		0	22.5	45	67.5	90	112.5	135	157.5	180
Vertical (Gamma) Angles	0	238	238	238	238	238	238	238	238	238
	2.5	246	246	243	239	237	236	236	236	237
	5	258	256	250	242	236	234	235	236	237
	7.5	270	267	257	245	235	233	234	235	236
	10	283	278	265	247	233	232	233	234	235
	12.5	294	288	272	250	231	229	231	232	234
	15	306	299	279	252	228	227	229	230	232
	17.5	317	309	286	253	225	224	226	228	229
	20	328	318	292	254	221	220	222	225	226
	22.5	338	327	297	255	217	216	219	221	223
	25	348	336	302	255	212	212	215	217	219
	27.5	357	344	307	255	207	207	210	213	215
	30	366	351	311	254	201	201	205	208	210
	32.5	375	358	314	253	195	196	200	203	205
	35	382	365	317	251	189	189	194	197	199
	37.5	389	371	320	249	182	183	188	191	193
	40	396	376	322	246	175	176	181	185	186
	42.5	402	381	323	243	167	169	174	178	179
	45	407	385	324	240	160	162	167	170	172
	47.5	412	389	325	236	151	154	159	162	164
50	416	392	324	232	143	146	151	154	156	
52.5	419	394	324	227	135	138	143	146	147	
55	422	396	322	222	126	129	134	137	138	
57.5	424	397	321	217	117	121	125	127	128	
60	426	397	318	211	108	112	116	117	118	
62.5	426	397	316	205	99	103	107	107	108	
65	426	396	313	199	90	94	97	97	99	
67.5	425	395	309	192	80	85	86	89	92	
70	424	392	305	185	71	76	77	83	86	
72.5	422	389	300	178	62	66	68	76	79	
75	419	386	295	171	53	57	61	70	73	
77.5	415	381	290	164	44	47	55	63	66	
80	411	376	283	156	35	37	48	56	60	
82.5	405	371	277	149	26	31	42	50	54	
85	400	365	270	141	18	23	35	44	48	
87.5	394	358	263	133	9	17	30	39	42	
90	390	355	259	129	4	13	26	35	39	



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Luminous Intensity (Candela) Table

		Lateral (C-Plane) Angles								
		0	22.5	45	67.5	90	112.5	135	157.5	180
Vertical (Gamma) Angles	90	390	355	259	129	4	13	26	35	39
	92.5	390	355	261	132	9	17	29	38	42
	95	394	359	266	139	17	24	36	45	48
	97.5	400	365	273	147	26	31	42	50	54
	100	405	371	280	155	35	38	49	57	60
	102.5	410	377	286	162	44	48	56	64	67
	105	414	381	292	170	53	59	63	71	74
	107.5	418	385	298	178	63	69	70	78	81
	110	420	389	302	185	72	78	80	84	87
	112.5	422	392	307	192	82	88	90	92	94
	115	424	394	311	199	91	97	101	101	102
	117.5	424	395	315	206	101	106	111	112	112
	120	424	396	318	212	110	115	120	122	122
	122.5	423	396	320	218	119	124	129	132	132
	125	421	395	322	224	128	133	138	141	142
	127.5	419	394	324	229	137	141	147	150	151
	130	416	392	325	234	146	150	155	159	160
	132.5	412	389	326	239	155	158	164	167	168
	135	408	386	326	243	163	166	172	175	176
	137.5	403	382	325	247	171	173	179	182	183
	140	398	378	324	250	178	180	186	189	190
	142.5	391	373	323	253	186	187	192	196	197
	145	385	367	320	256	193	194	198	202	203
	147.5	378	361	318	257	199	200	204	208	209
150	370	354	315	259	205	206	209	213	214	
152.5	361	347	311	260	211	211	214	217	218	
155	352	340	307	261	216	216	219	222	222	
157.5	343	331	302	261	221	220	223	226	226	
160	333	323	297	260	226	225	227	229	230	
162.5	322	313	291	259	230	228	230	232	233	
165	311	304	285	258	233	231	233	235	235	
167.5	300	294	278	256	236	234	236	237	237	
170	289	284	271	254	239	236	237	239	239	
172.5	277	273	264	251	240	238	239	240	240	
175	265	262	257	248	242	239	240	241	241	
177.5	254	252	249	245	243	240	240	241	241	
180	243	243	243	243	243	243	243	243	243	



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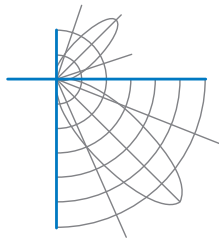
Coefficients of Utilization/Room Utilization - Zonal Cavity Method																					
Effective Floor Cavity Reflectance 0.20																					
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50			
1	95	89	84	80	87	82	78	74	69	65	62	56	54	52	45	43	41	36			
2	85	76	69	63	78	70	64	58	58	54	49	48	44	41	38	35	33	28			
3	77	66	58	51	70	61	53	47	51	45	40	41	37	33	33	29	27	22			
4	70	58	49	42	64	53	45	39	44	38	33	36	31	28	29	25	22	18			
5	64	51	42	36	58	47	39	33	39	33	28	32	27	23	25	22	19	15			
6	59	46	37	30	54	42	34	28	35	29	24	29	24	20	23	19	16	13			
7	54	41	32	26	49	38	30	25	32	25	21	26	21	18	21	17	14	11			
8	50	37	29	23	46	34	27	21	29	23	18	24	19	15	19	15	12	10			
9	47	34	26	20	43	31	24	19	26	20	16	22	17	14	17	14	11	9			
10	43	31	23	18	40	28	21	17	24	18	14	20	15	12	16	12	10	8			

For absolute test reports, RUs are expressed as a percentage of total lumen output. For relative test reports, CUs are expressed as a percentage of total lamp 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)	Ground-level distance to half-of-nadir illuminance (ft)		
		0-180 deg	90-270 deg	
6.0	6.6	10.76	7.55	
8.0	3.7	14.35	10.06	
10.0	2.4	17.94	12.58	
12.0	1.7	21.52	15.09	
14.0	1.2	25.11	17.61	
16.0	0.9	28.70	20.12	

Average Luminance (cd/m ²)			
	0 deg Plane	45 deg Plane	90 deg Plane
0	5231	5231	5231
45	6330	5768	4694
55	6661	5978	4461
65	7052	6248	4157
75	7517	6614	3705
85	8114	7139	2692

Spacing Criterion	
0 degree plane:	2.3
90 degree plane:	1.3
180 degree plane:	1.3
270 degree plane:	1.3



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UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

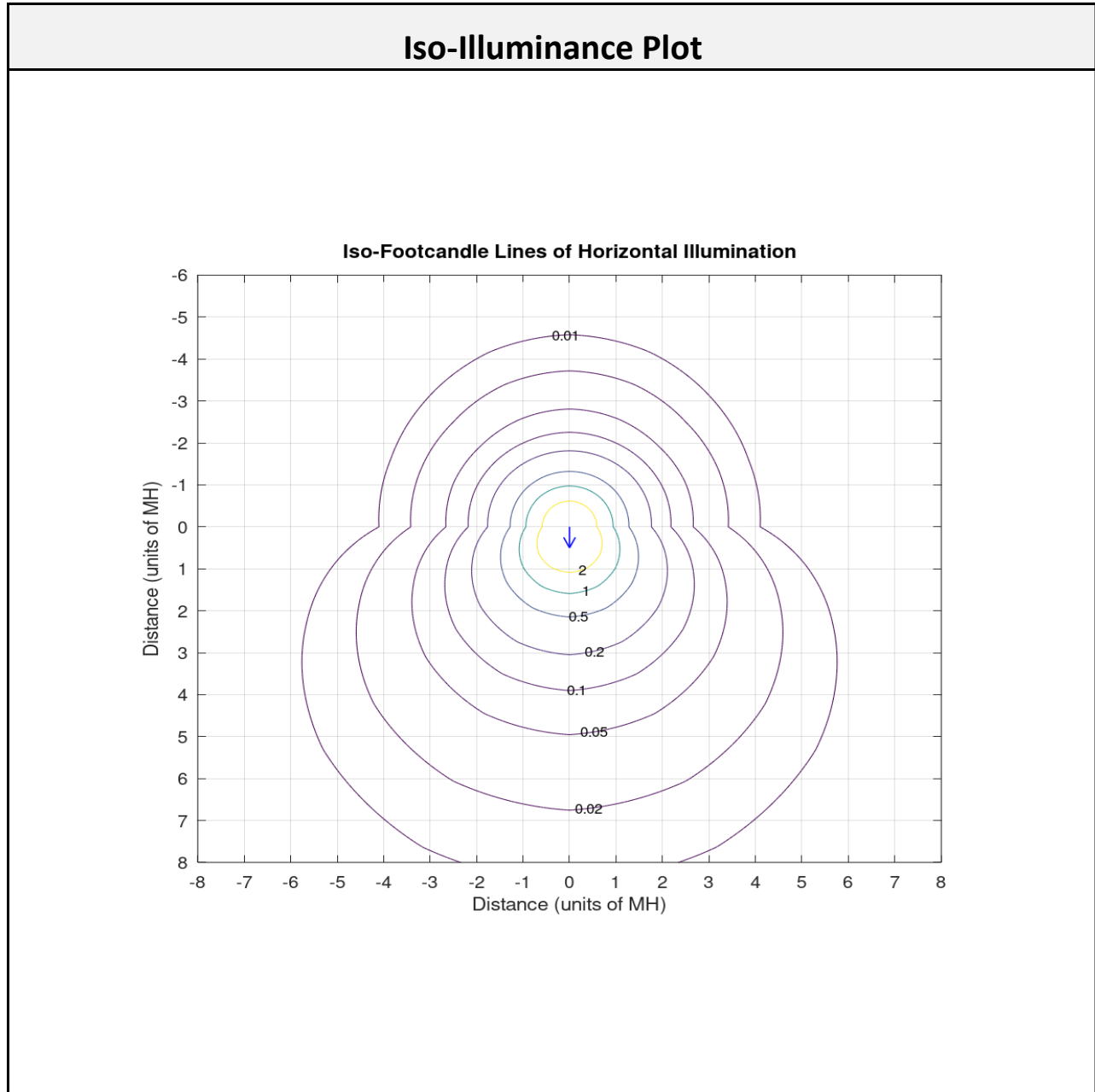
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	18.6	19.6	19.6	20.6	21.8	10.8	11.7	11.7	12.7	14.0
	3H	22.2	23.1	23.1	24.0	25.3	12.3	13.1	13.2	14.1	15.4
	4H	24.0	24.8	25.0	25.8	27.1	12.8	13.6	13.7	14.6	15.9
	6H	26.0	26.7	26.9	27.7	29.0	13.1	13.9	14.0	14.8	16.1
	8H	27.0	27.7	28.0	28.7	30.0	13.2	13.9	14.1	14.9	16.2
	12H	28.1	28.8	29.1	29.8	31.1	13.2	13.9	14.2	14.9	16.2
4H	2H	18.9	19.8	19.9	20.7	22.0	12.8	13.6	13.7	14.6	15.9
	3H	22.7	23.4	23.7	24.4	25.7	14.6	15.3	15.6	16.3	17.6
	4H	24.7	25.4	25.7	26.4	27.7	15.3	15.9	16.3	16.9	18.3
	6H	26.8	27.4	27.8	28.4	29.8	15.8	16.3	16.8	17.4	18.7
	8H	28.0	28.5	29.0	29.5	30.9	15.9	16.5	16.9	17.5	18.8
	12H	29.2	29.7	30.2	30.7	32.1	16.0	16.5	17.0	17.5	18.9
8H	4H	24.8	25.4	25.8	26.4	27.7	17.0	17.5	18.0	18.5	19.9
	6H	27.2	27.6	28.2	28.7	30.0	17.8	18.2	18.8	19.3	20.6
	8H	28.4	28.8	29.4	29.9	31.2	18.1	18.5	19.1	19.5	20.9
	12H	29.8	30.2	30.9	31.2	32.6	18.3	18.7	19.3	19.7	21.1
12H	4H	24.8	25.3	25.8	26.3	27.7	17.5	18.0	18.5	19.0	20.4
	6H	27.2	27.6	28.2	28.6	30.0	18.5	19.0	19.6	20.0	21.4
	8H	28.5	28.9	29.5	29.9	31.3	19.0	19.4	20.0	20.4	21.8

Maximum UGR = 32.6

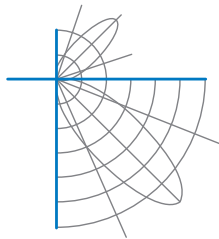


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Iso-Illuminance Plot



The isofootcandle values shown in the plot above are based on a mounting height of $h = 8.0$ feet. Grid values show multiples of mounting height. The isoilluminance contour lines are expressed in units of footcandles. The values expressed are based on the direct light from a single unit without the contribution of room reflections.



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Test Distance 9.5 m
Ambient Temperature 25.1 °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 IES LM-79-19. Format of reports and angular increments based on IES LM-41-14 and LM-46-04.

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 C-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

LLIA001389-001B

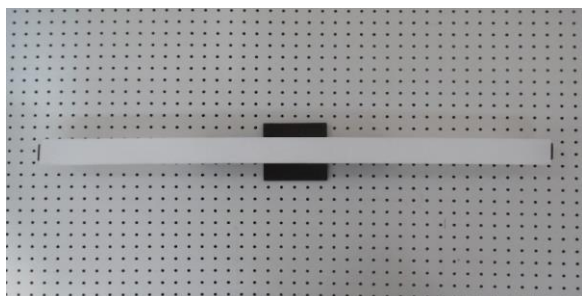
Integrating Sphere Report

Catalog Number: 3-555 Aldephi Vanity

Wall mounted, formed steel housing, translucent white plastic enclosure.

108 white LEDs, one Luxtech 3-9-30568 LED board with 72 LEDs, and one 3-9-3014 board with 36 LEDs.

One ERP ESS030W-0700-42 LED driver



Performance Summary

Voltage	120.0 Vac
Current	0.2234 A
Power	26.38 W
Frequency	59.99 Hz
Power Factor	0.984
Current THD	13.3 %
Total Luminous Flux	2563.5 lm
Efficacy	97.2 lm/W
Chromaticity (x,y)	(0.4407, 0.4030)
(u',v')	(0.2535, 0.5215)
Duv	-0.0009
CCT	2928 K
CRI (Ra)	92
R9	55
TM-30: Rf	90
TM-30: Rg	98
TM-30: Rcs,h1	-6

Prepared For:

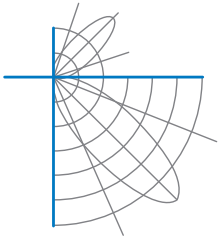
Oxygen Lighting

201 Railhead Road

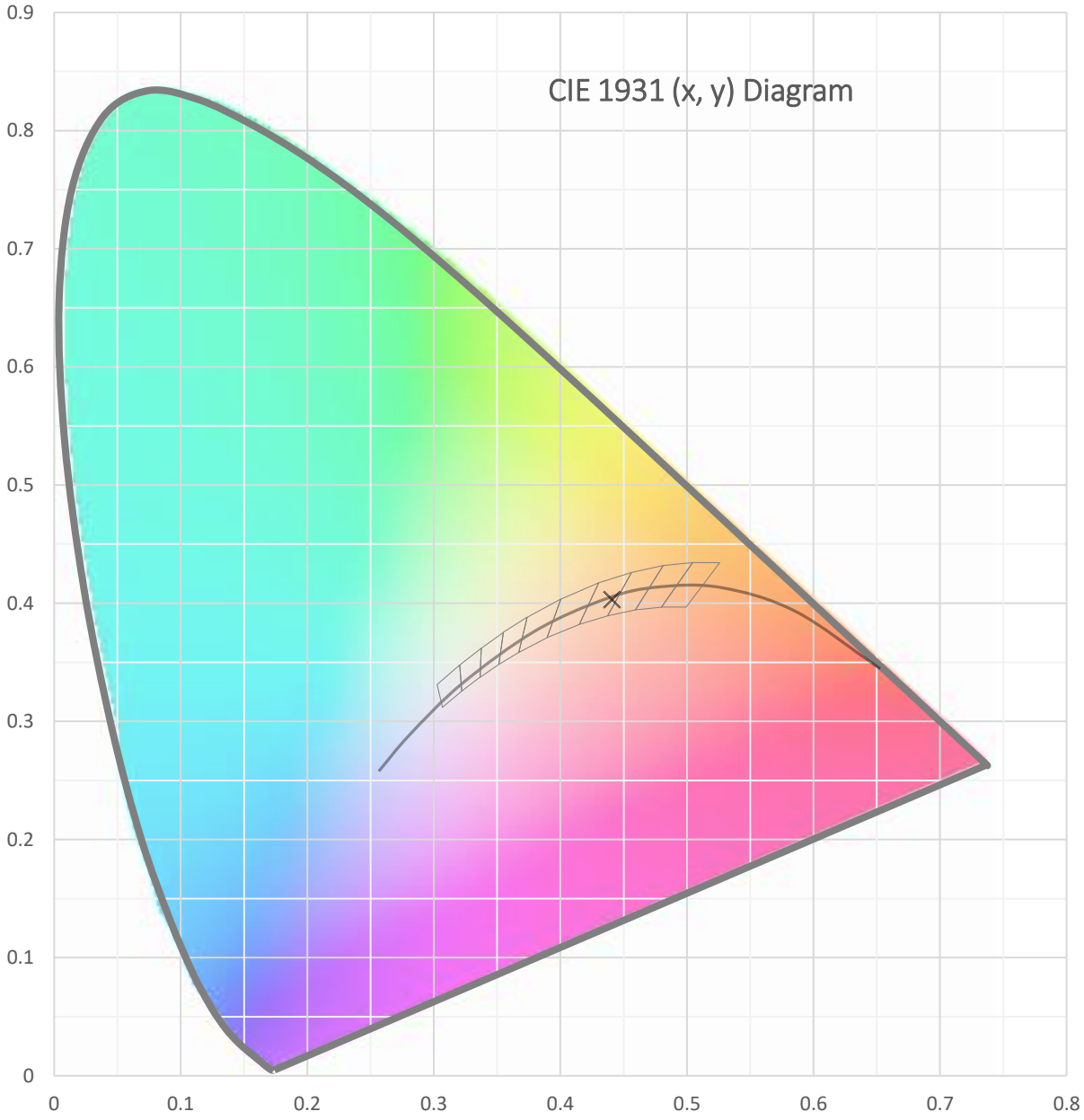
Fort Worth, TX 76106, USA

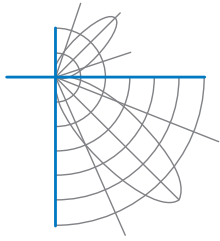
Test date: 01/14/2021

Report date: 01/25/2021

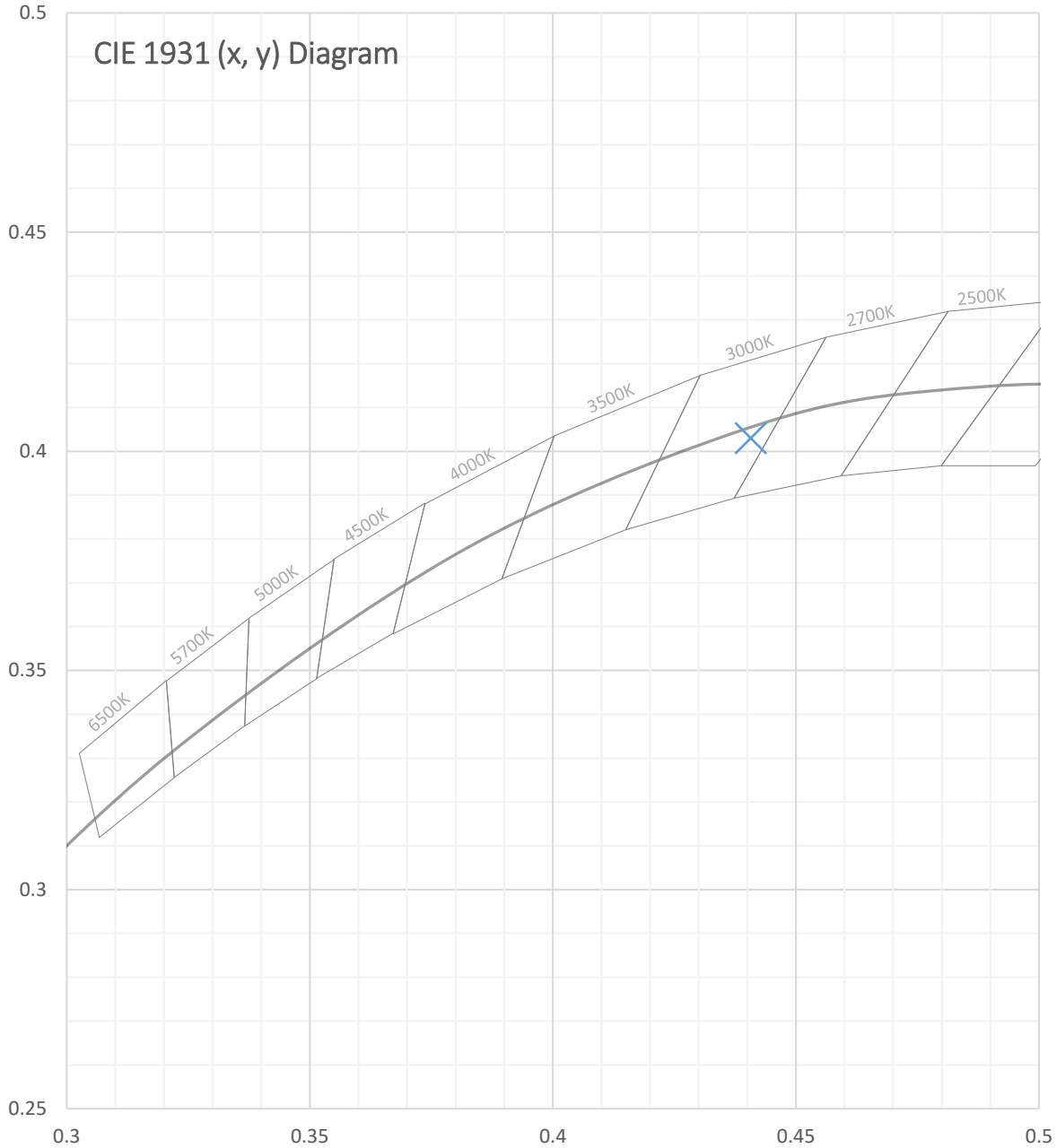


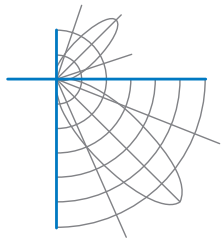
Test Report Number: LLIA001389-001B





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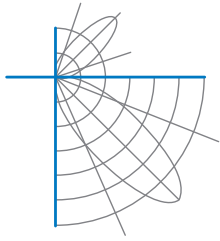


Test Report Number: LLIA001389-001B

Total Radiant Flux	8.901 W
Total Luminous Flux	2563.5 Lm
Chromaticity CIE 1931 (x, y)	(0.4407, 0.4030)
Chromaticity CIE 1976 (u', v')	(0.2535, 0.5215)
Correlated Color Temperature (CCT)	2928 K
Color Rendering Index (Ra)	92
R1	92
R2	97
R3	98
R4	92
R5	92
R6	96
R7	90
R8	79
R9	55
R10	92
R11	93
R12	83
R13	94
R14	99
TM-30: Rf	90
TM-30: Rg	98
TM-30: Rcs,h1	-6
Distance from Planckian Locus (Duv)	-0.0009
Scotopic/Photopic Ratio ‡	1.397

Electrical Data

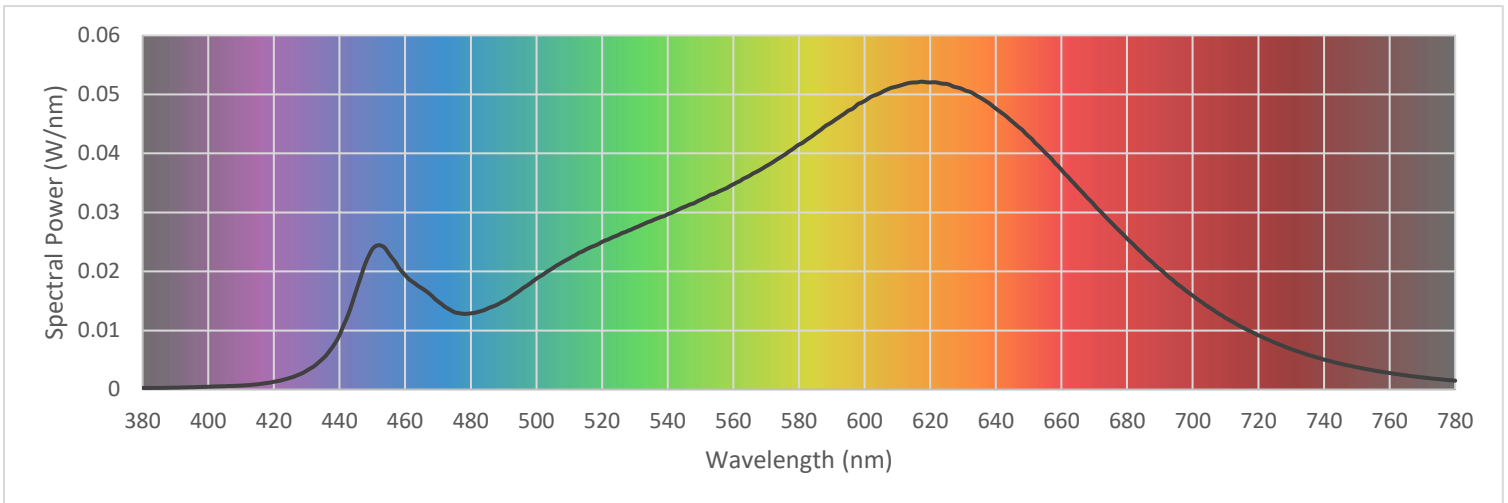
Voltage	120.0 Vac
Current	0.2234 A
Power	26.38 W
Frequency	59.99 Hz
Power Factor	0.984
Current THD	13.3 %

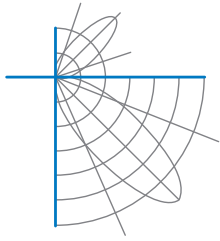


Test Report Number: LLIA001389-001B

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

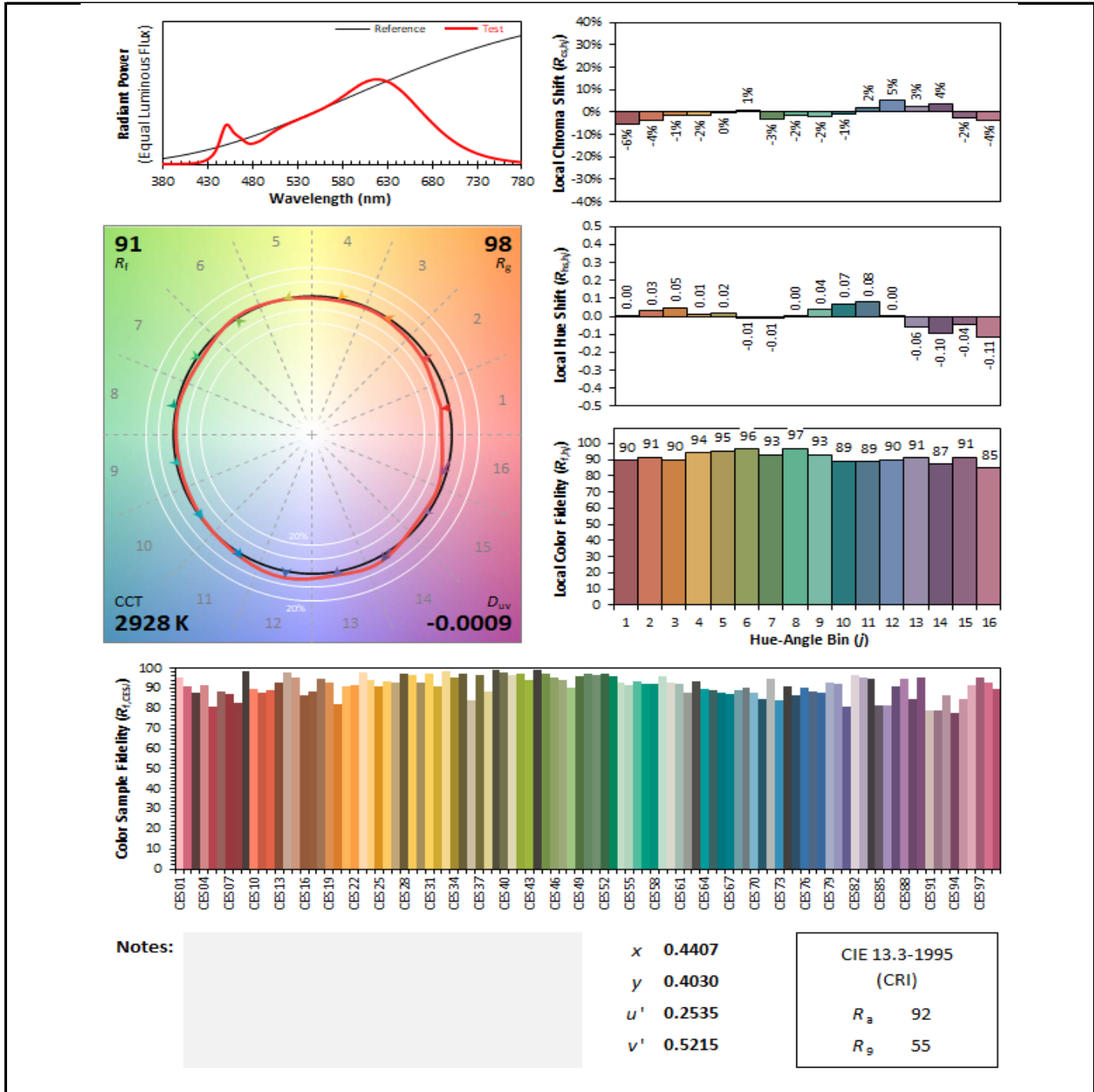
380	0.000263	480	0.012895	580	0.041494	680	0.025549
385	0.000266	485	0.013681	585	0.043343	685	0.022930
390	0.000310	490	0.014960	590	0.045274	690	0.020394
395	0.000371	495	0.016782	595	0.047231	695	0.017982
400	0.000461	500	0.018775	600	0.048883	700	0.015910
405	0.000556	505	0.020560	605	0.050296	705	0.013923
410	0.000663	510	0.022190	610	0.051355	710	0.012122
415	0.000872	515	0.023692	615	0.052022	715	0.010591
420	0.001301	520	0.025009	620	0.052025	720	0.009181
425	0.001976	525	0.026174	625	0.051774	725	0.007940
430	0.003191	530	0.027385	630	0.050853	730	0.006859
435	0.005265	535	0.028537	635	0.049529	735	0.005890
440	0.009220	540	0.029697	640	0.047584	740	0.005067
445	0.016640	545	0.030913	645	0.045395	745	0.004380
450	0.023772	550	0.032121	650	0.042908	750	0.003766
455	0.023045	555	0.033395	655	0.040137	755	0.003232
460	0.019369	560	0.034760	660	0.037217	760	0.002788
465	0.017182	565	0.036229	665	0.034204	765	0.002388
470	0.014914	570	0.037835	670	0.031266	770	0.002039
475	0.013094	575	0.039559	675	0.028358	775	0.001745
						780	0.001487





Test Report Number: LLIA001389-001B

IES TM-30 Details





Test Report Number: LLIA001389-001B

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

Test Temperature: 24.7 °C

Test Procedure: Tested in accordance with the applicable sections of:
LM-79-19, LM-78-07, LM-58-13, ANSI_ANSI C78.377-2017, TM-30-18

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.

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