



Report of Test

LLIA000824-058A

Catalog Number: 3-590-24 Magneta Vanity
 Wall mounted, formed steel and spun aluminum housing, aluminum
 LED mounting plate, translucent white plastic 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, 0.2711A, 29.00W, 0.891PF, 11.6%THD(i)



Performance Summary

Total Light Output	1872 lm
Luminaire Power	29.0 W
Luminous Efficacy	64.6 lm/W

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



Test Report No. LLIA000824-058A

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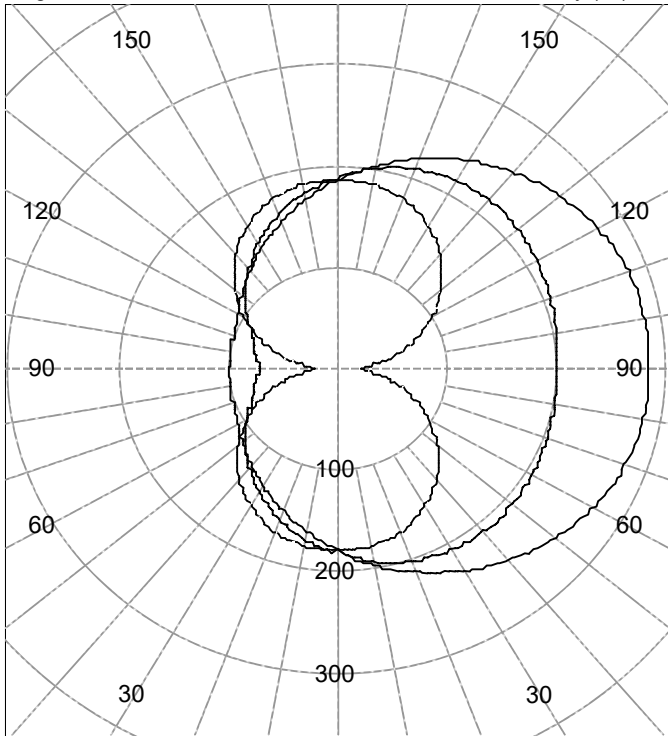
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120.0Vac, 60.00Hz, 0.2711A, 29.00W, 0.891PF, 11.6%THD(i)

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



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

INTENSITY SUMMARY (cd)

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	180	180	180	180	180	
5.0	188	187	187	182	178	17
10.0	197	195	193	184	177	
15.0	205	202	197	184	174	50
20.0	213	209	201	184	170	
25.0	221	216	204	182	164	80
30.0	229	223	206	179	157	
35.0	237	229	207	175	149	105
40.0	245	235	208	170	140	
45.0	252	240	208	164	129	124
50.0	258	245	207	157	118	
55.0	264	249	206	150	106	135
60.0	270	253	205	142	94	
65.0	274	257	204	133	81	140
70.0	278	259	202	126	67	
75.0	281	261	201	119	54	140
80.0	283	262	200	114	41	
85.0	284	263	199	110	28	137
90.0	284	263	199	109	19	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	148	N / A	7.9
0-40	253	N / A	13.5
0-60	512	N / A	27.3
0-90	928	N / A	49.6
40-90	675	N / A	36.0
60-90	416	N / A	22.2
90-180	944	N / A	50.4
0-180	1872	N / A	100.0

Total Light Output = 1,872 lm

Signed:

Authorized Signatory

Date of test 14-Sep-2017

Date of report 14-Sep-2017



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Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	180	180	180	180	180
2.5	184	184	184	180	178
5.0	188	187	187	182	178
7.5	192	191	190	183	178
10.0	197	195	193	184	177
12.5	201	199	195	184	176
15.0	205	202	197	184	174
17.5	209	206	199	184	172
20.0	213	209	201	184	170
22.5	217	213	203	183	167
25.0	221	216	204	182	164
27.5	225	219	205	181	161
30.0	229	223	206	179	157
32.5	233	226	207	177	153
35.0	237	229	207	175	149
37.5	241	232	208	173	145
40.0	245	235	208	170	140
42.5	248	237	208	167	135
45.0	252	240	208	164	129
47.5	255	243	208	161	124
50.0	258	245	207	157	118
52.5	261	247	207	154	112
55.0	264	249	206	150	106
57.5	267	251	206	146	100
60.0	270	253	205	142	94
62.5	272	255	204	137	87
65.0	274	257	204	133	81
67.5	276	258	203	129	74
70.0	278	259	202	126	67
72.5	280	260	202	122	60
75.0	281	261	201	119	54
77.5	282	262	200	116	47
80.0	283	262	200	114	41
82.5	284	263	200	112	34
85.0	284	263	199	110	28
87.5	284	263	199	109	22
90.0	284	263	199	109	19



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Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	284	263	199	109	19
92.5	284	263	199	110	23
95.0	284	263	200	111	29
97.5	284	264	201	113	36
100.0	284	264	202	116	42
102.5	284	263	203	119	49
105.0	283	263	204	122	56
107.5	282	263	205	125	63
110.0	281	262	206	129	70
112.5	280	261	207	133	77
115.0	278	261	208	137	84
117.5	277	260	209	141	90
120.0	274	258	210	146	97
122.5	272	257	211	150	104
125.0	270	255	212	154	110
127.5	267	253	213	158	117
130.0	264	251	214	161	123
132.5	261	249	214	165	129
135.0	258	247	215	168	134
137.5	255	245	215	171	140
140.0	251	242	216	174	145
142.5	248	239	216	177	150
145.0	244	236	215	179	155
147.5	240	233	215	182	159
150.0	236	230	214	184	163
152.5	232	227	213	185	167
155.0	228	224	212	187	171
157.5	224	220	211	188	174
160.0	220	217	209	188	177
162.5	215	213	207	189	179
165.0	211	210	205	189	181
167.5	207	206	202	189	183
170.0	203	202	200	188	184
172.5	198	198	197	187	185
175.0	194	194	194	186	186
177.5	190	190	192	185	186
180.0	186	186	186	186	186



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Intensity data (cd)

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
0.0	180	180	180	180	180
2.5	178	176	180	177	174
5.0	178	174	177	173	170
7.5	178	172	174	169	166
10.0	177	170	171	166	162
12.5	176	168	167	162	159
15.0	174	165	164	158	155
17.5	172	162	161	155	151
20.0	170	159	157	151	148
22.5	167	155	153	148	144
25.0	164	152	150	144	141
27.5	161	148	146	141	138
30.0	157	144	142	137	134
32.5	153	139	138	134	131
35.0	149	135	134	131	129
37.5	145	130	130	128	126
40.0	140	125	126	125	123
42.5	135	120	122	122	120
45.0	129	115	118	119	118
47.5	124	110	114	116	115
50.0	118	105	110	113	113
52.5	112	100	106	111	111
55.0	106	95	102	108	109
57.5	100	89	98	106	107
60.0	94	84	95	104	105
62.5	87	79	91	102	104
65.0	81	74	88	100	103
67.5	74	69	85	99	102
70.0	67	65	83	98	101
72.5	60	60	81	97	100
75.0	54	56	80	96	100
77.5	47	52	78	96	100
80.0	41	49	76	95	99
82.5	34	47	75	95	99
85.0	28	43	73	94	99
87.5	22	40	72	94	98
90.0	19	39	71	94	98



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Intensity data (cd)

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
90.0	19	39	71	94	98
92.5	23	40	72	94	98
95.0	29	44	74	94	98
97.5	36	47	75	94	98
100.0	42	50	76	94	99
102.5	49	52	78	95	99
105.0	56	56	79	95	99
107.5	63	60	81	96	100
110.0	70	65	82	97	101
112.5	77	70	85	98	101
115.0	84	75	88	99	102
117.5	90	80	91	101	104
120.0	97	85	94	103	105
122.5	104	91	98	105	107
125.0	110	96	102	108	109
127.5	117	102	106	110	112
130.0	123	107	110	113	114
132.5	129	112	114	116	116
135.0	134	118	118	119	119
137.5	140	123	122	122	122
140.0	145	128	126	125	125
142.5	150	133	131	129	128
145.0	155	138	135	132	131
147.5	159	143	139	135	134
150.0	163	147	144	139	138
152.5	167	152	148	143	141
155.0	171	156	152	146	145
157.5	174	160	156	150	149
160.0	177	164	160	154	153
162.5	179	167	164	158	157
165.0	181	170	168	162	161
167.5	183	173	172	166	165
170.0	184	176	175	170	169
172.5	185	178	179	174	173
175.0	186	180	182	178	178
177.5	186	182	185	182	182
180.0	186	186	186	186	186



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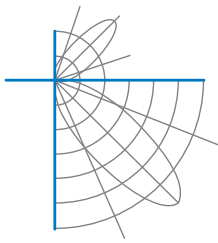
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Coefficients Of Utilization - Zonal Cavity Method																		
Effective Floor Cavity Reflectance 0.20																		
RC	80				70				50			30			10			0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	94	88	83	78	86	81	77	72	68	64	61	55	53	50	44	42	40	35
2	84	75	68	62	77	69	63	57	57	52	48	47	43	39	37	34	31	26
3	76	65	57	50	69	60	52	46	50	44	39	40	36	32	31	28	25	21
4	69	57	48	41	63	52	44	38	44	37	32	35	30	27	28	24	21	17
5	63	50	41	35	58	46	38	32	39	32	27	31	26	23	25	21	18	14
6	58	45	36	30	53	41	33	28	34	28	23	28	23	19	22	18	15	12
7	54	40	32	26	49	37	29	24	31	25	20	25	20	17	20	16	13	11
8	50	36	28	22	45	34	26	21	28	22	18	23	18	15	18	15	12	9
9	46	33	25	20	42	31	23	18	26	20	16	21	17	13	17	13	11	8
10	43	30	23	18	39	28	21	16	24	18	14	20	15	12	16	12	9	7

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.

Height(ft)	Illuminance at Nadir (fc)	Beam Width (across 50% Nadir Illum)	
		0-180	90-270
6.0	5.0	9.32	7.80
8.0	2.8	12.43	10.40
10.0	1.8	15.53	12.99
12.0	1.2	18.64	15.59
14.0	0.9	21.74	18.19
16.0	0.7	24.85	20.79



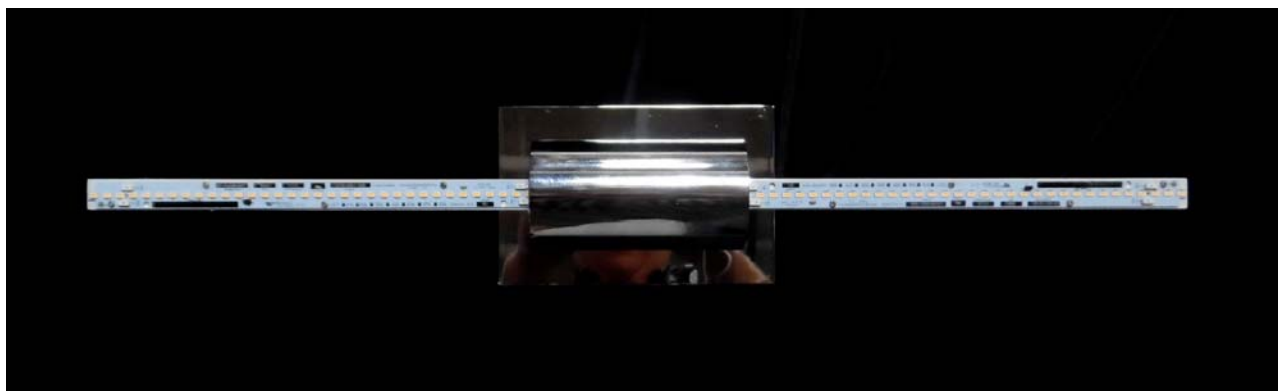
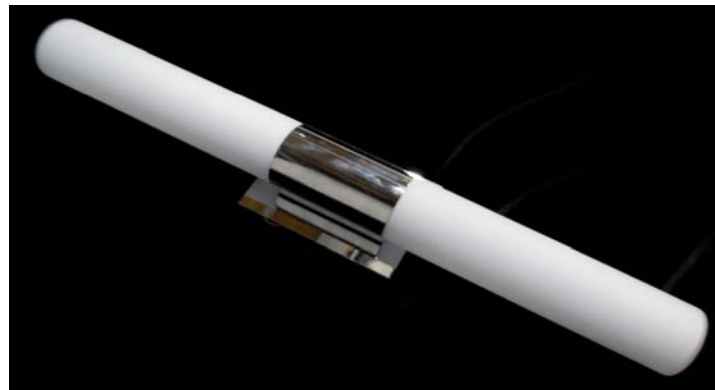
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Test Distance 9.5 m
Test Temperature 25.0 °C

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

LLIA000824-058B

Integrating Sphere Report

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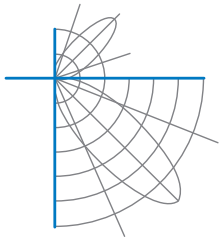
Performance Summary

Voltage	120.0 Vac
Current	0.2621 A
Power	28.95 W
Frequency	60.00 Hz
Power Factor	0.920
Current THD	9.2 %

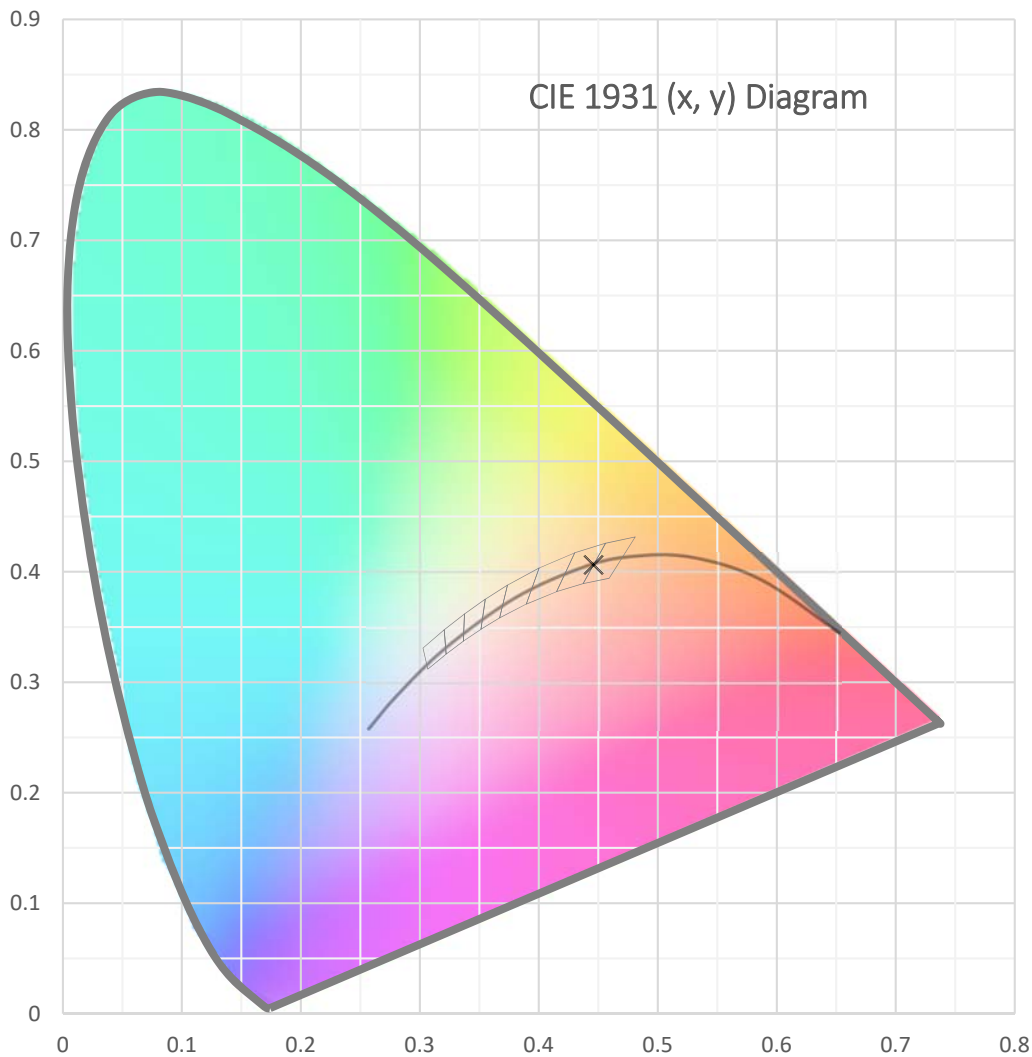
Total Luminous Flux	1874.9 lm
Efficacy	64.8 lm/W
Chromaticity (x,y)	(0.4460, 0.4062)
(u',v')	(0.2555, 0.5236)
Duv	-0.0003
CCT	2870 K
CRI (Ra)	92
R9	57

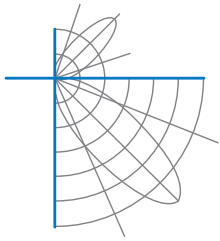
Prepared For:
Oxygen Lighting
201 Railhead Road
Fort Worth, TX 76106, USA

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



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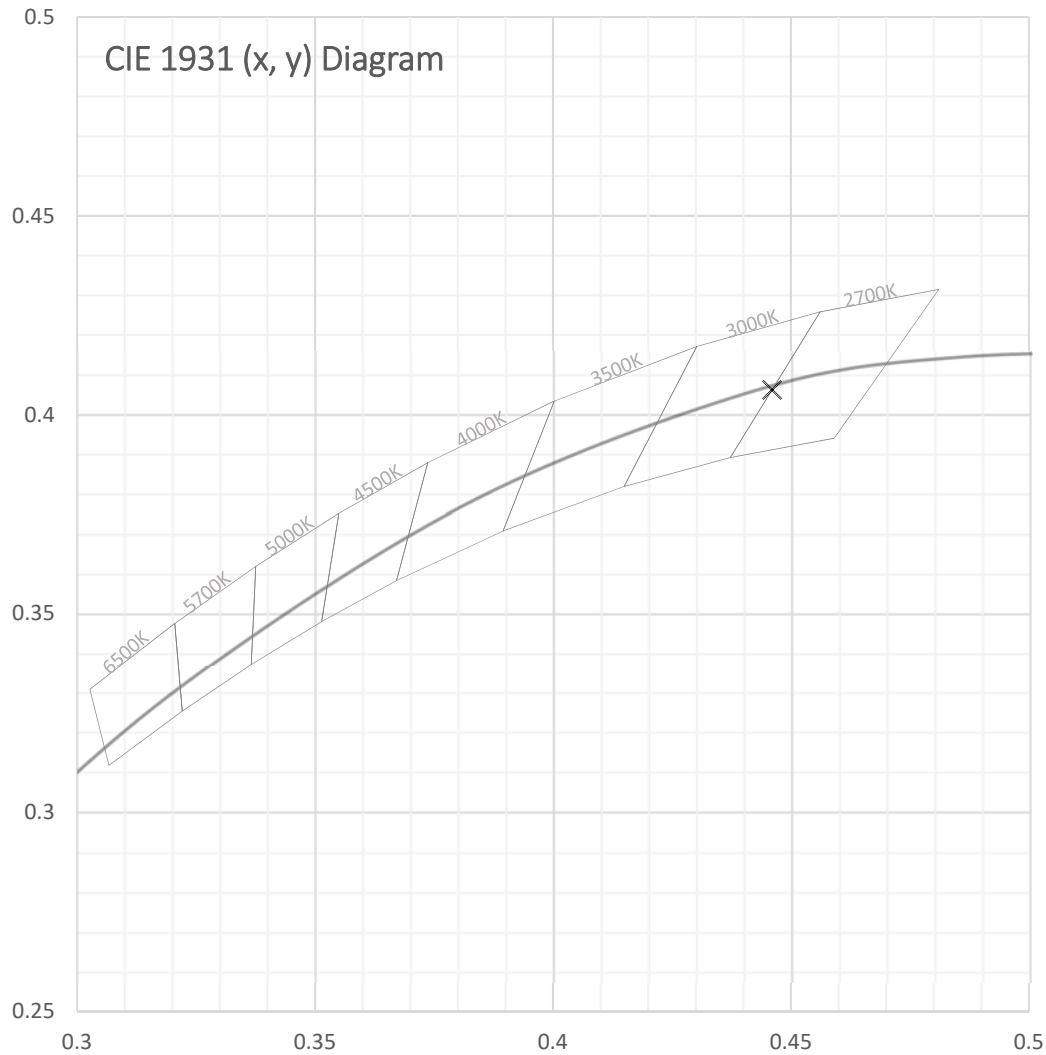
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Spectral Data

Total Radiant Flux	6.633 W
Total Luminous Flux	1874.9 Lm
Chromaticity CIE 1931 (x, y)	(0.4460, 0.4062)
Chromaticity CIE 1976 (u', v')	(0.2555, 0.5236)
Correlated Color Temperature (CCT)	2870 K
Color Rendering Index (Ra)	92
R1	91
R2	95
R3	97
R4	91
R5	91
R6	94
R7	92
R8	81
R9	57
R10	88
R11	91
R12	81
R13	92
R14	98
Distance from Planckian Locus (Duv)	-0.0003
Scotopic/Photopic Ratio *	1.339

Electrical Data

Voltage	120.0 Vac
Current	0.2621 A
Power	28.95 W
Frequency	60.00 Hz
Power Factor	0.920
Current THD	9.2 %



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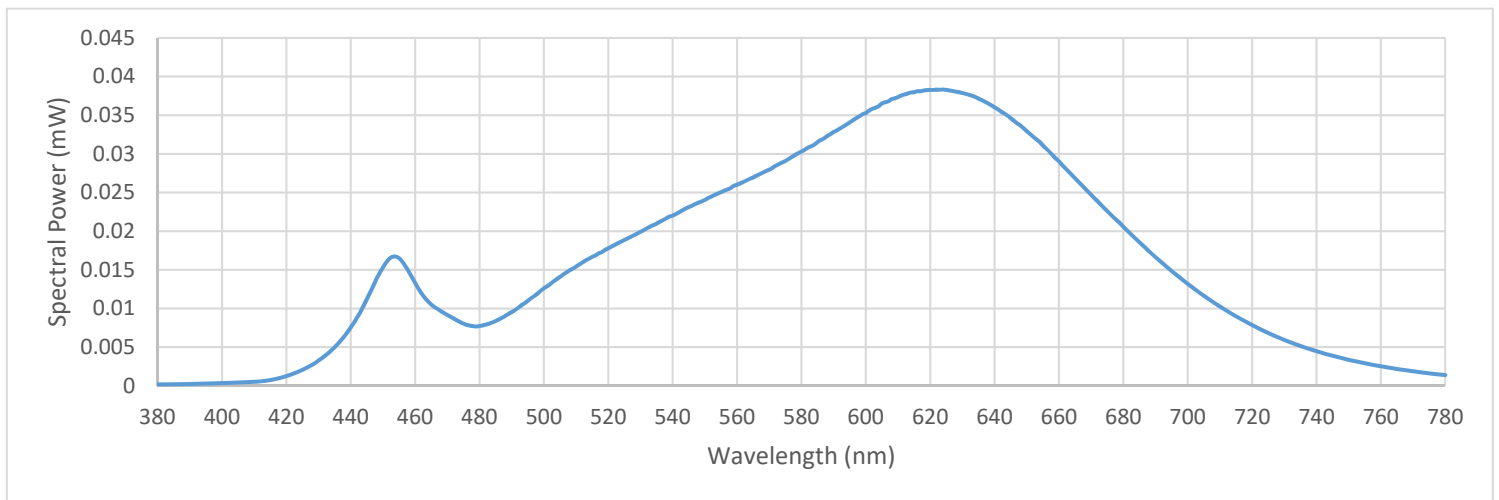
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Summary Spectral Power Distribution (wavelength - nm, spectral power - mW)

380	0.000178	480	0.007731	580	0.030290	680	0.020568
385	0.000192	485	0.008389	585	0.031538	685	0.018590
390	0.000234	490	0.009540	590	0.032834	690	0.016656
395	0.000286	495	0.010998	595	0.034074	695	0.014828
400	0.000350	500	0.012606	600	0.035292	700	0.013184
405	0.000418	505	0.014068	605	0.036524	705	0.011665
410	0.000507	510	0.015416	610	0.037337	710	0.010237
415	0.000731	515	0.016683	615	0.037981	715	0.008999
420	0.001260	520	0.017804	620	0.038263	720	0.007846
425	0.002067	525	0.018844	625	0.038270	725	0.006817
430	0.003274	530	0.019908	630	0.037867	730	0.005940
435	0.005008	535	0.020975	635	0.037138	735	0.005140
440	0.007548	540	0.022008	640	0.036022	740	0.004463
445	0.011207	545	0.023109	645	0.034613	745	0.003881
450	0.015334	550	0.024043	650	0.032937	750	0.003366
455	0.016521	555	0.025043	655	0.031060	755	0.002908
460	0.013345	560	0.026009	660	0.029050	760	0.002525
465	0.010519	565	0.026928	665	0.026818	765	0.002178
470	0.009157	570	0.027953	670	0.024684	770	0.001870
475	0.008014	575	0.029071	675	0.022599	775	0.001610
						780	0.001383





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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 π geometry

Test Temperature: 25.3 °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
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