



LTL Number: 17166

Date: 11-23-2009

Prepared For: LEDnovation

Catalog Number: LED A19-25-1W-I

Lamp: One VBU 25 Watt A19 LED Replacement Lamp

Lamp Catalog Number: LED A19-25-1W-I

LED Power Supply: Internal

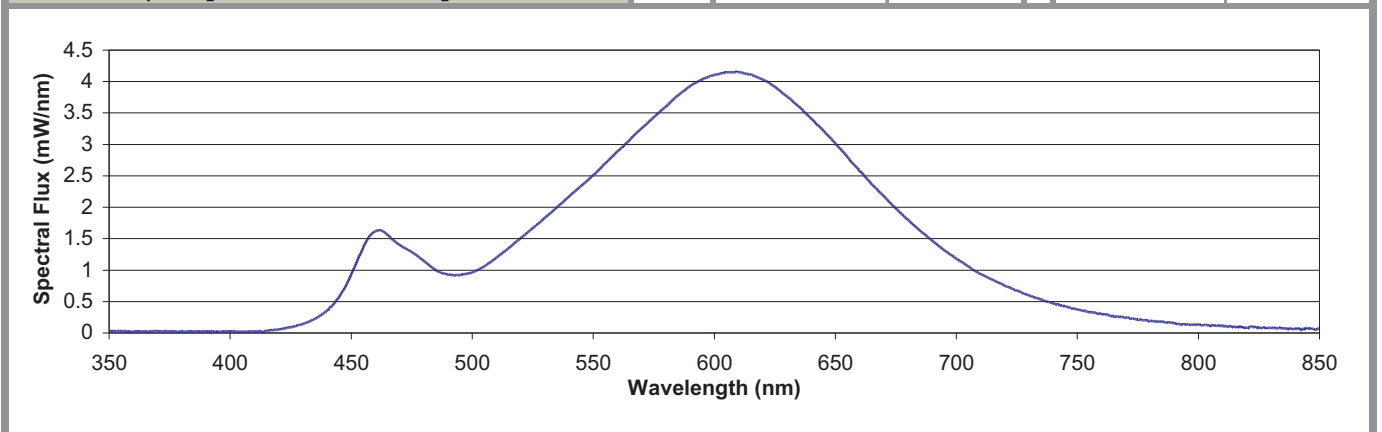
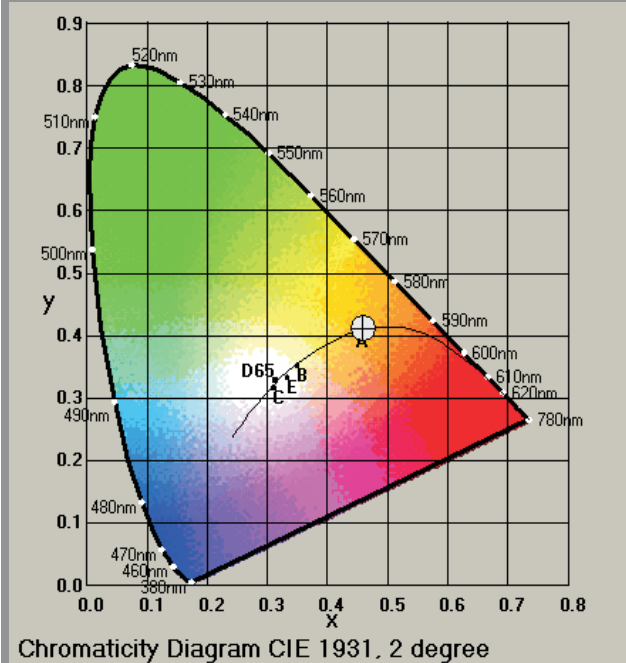
Lamp Efficacy: 63.7 Lumens/Watt



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Lamp Input Voltage	Lamp Current	Lamp Watts	Power Factor
120.0VAC	0.0289A	3.135W	0.905
Radiant Flux mW	Luminous Flux lumen	Corr.Color Temperature K	Color Rend. Index Ra
668.0552	199.736	2724	81.4
Chroma x	Chroma y	Chroma u	Chroma v
0.459	0.4122	0.2612	0.3519

Wavelength in nm	Spectral Flux in mW/nm	Wavelength in nm	Spectral Flux in mW/nm
350	0.0252	610	4.1466
360	0.0248	620	4.0339
370	0.0265	630	3.7629
380	0.0239	640	3.4133
390	0.0213	650	3.0157
400	0.0241	660	2.5832
410	0.0250	670	2.1776
420	0.0530	680	1.8023
430	0.1423	690	1.4705
440	0.3564	700	1.1801
450	0.9295	710	0.9363
460	1.6192	720	0.7507
470	1.4011	730	0.5982
480	1.1480	740	0.4693
490	0.9277	750	0.3738
500	0.9640	760	0.3032
510	1.1999	770	0.2373
520	1.5093	780	0.1939
530	1.8325	790	0.1551
540	2.1719	800	0.1393
550	2.5100	810	0.1169
560	2.8895	820	0.0852
570	3.2586	830	0.0820
580	3.6018	840	0.0735
590	3.9275	850	0.0691
600	4.1069		





LTL Number: 16703

Date: 09-24-2009

Prepared For: LEDnovation

Catalog Number: LEDA-19-25-1N-I

Lamp: One VBU 25 Watt A19 LED Replacement Lamp

Lamp Catalog Number: LEDA-19-25-1N-I

LED Power Supply: Internal

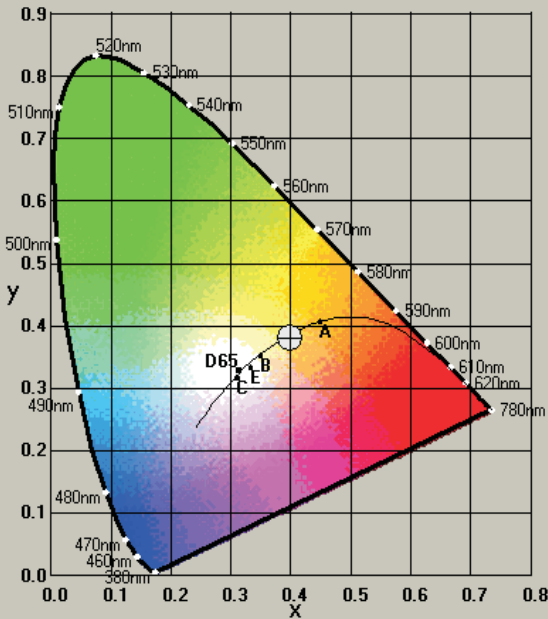
Lamp Efficacy: 89.6 Lumens/Watt



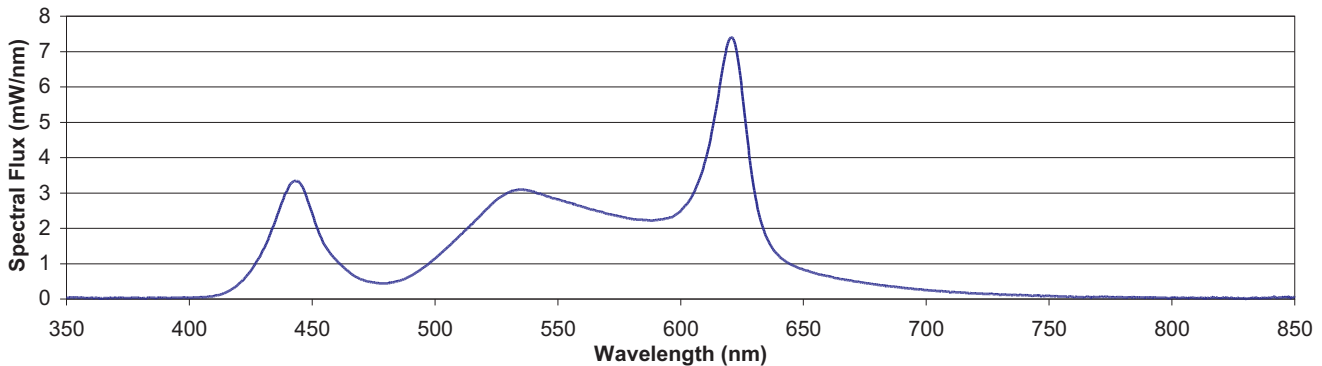
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Lamp Input Voltage	Lamp Current	Lamp Watts	Power Factor
120.0VAC	0.0193A	2.123W	0.916
Radiant Flux mW	Luminous Flux lumen	Corr.Color Temperature K	Color Rend. Index Ra
560.9957	190.166	3589	88.9
Chroma x	Chroma y	Chroma u	Chroma v
0.3978	0.3811	0.2348	0.3374

Wavelength in nm	Spectral Flux in mW/nm	Wavelength in nm	Spectral Flux in mW/nm
350	0.0311	610	3.8924
360	0.0302	620	7.3626
370	0.0301	630	3.0646
380	0.0218	640	1.2178
390	0.0332	650	0.8302
400	0.0357	660	0.6434
410	0.0821	670	0.5046
420	0.4190	680	0.4012
430	1.3744	690	0.3171
440	3.0902	700	0.2536
450	2.4276	710	0.1988
460	1.0861	720	0.1555
470	0.5510	730	0.1207
480	0.4430	740	0.1062
490	0.6532	750	0.0884
500	1.1475	760	0.0608
510	1.7883	770	0.0525
520	2.4730	780	0.0435
530	3.0135	790	0.0404
540	3.0338	800	0.0399
550	2.8132	810	0.0154
560	2.6115	820	0.0204
570	2.4102	830	0.0000
580	2.2635	840	0.0386
590	2.2319	850	0.0406
600	2.4889		



Chromaticity Diagram CIE 1931, 2 degree





LTL Number: 17167

Date: 11-23-2009

Prepared For: LEDnovation

Catalog Number: LED A19-40-1W-I

Lamp: One VBU 40 Watt A19 LED Replacement Lamp

Lamp Catalog Number: LED A19-40-1W-I

LED Power Supply: Internal

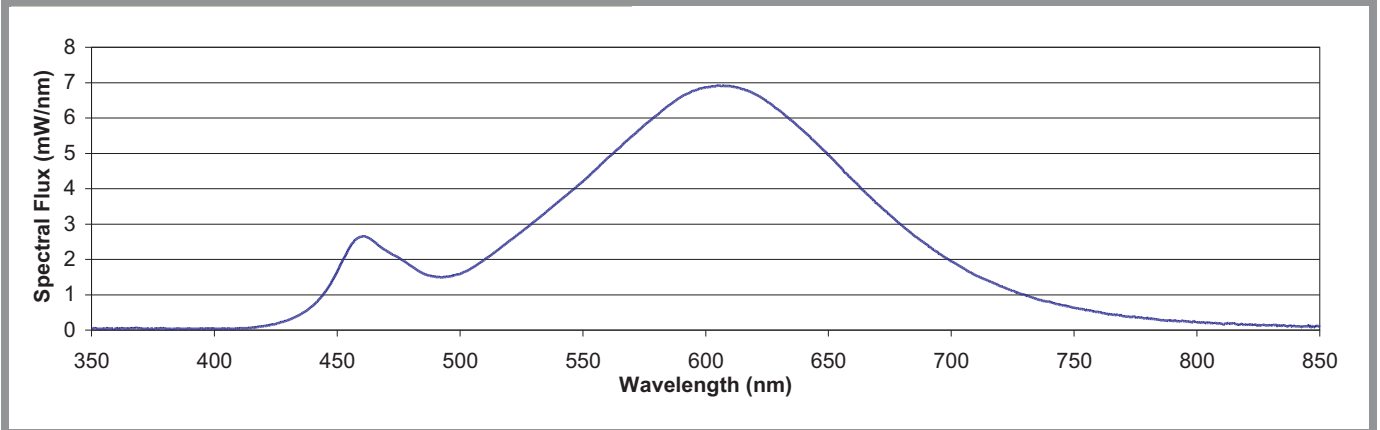
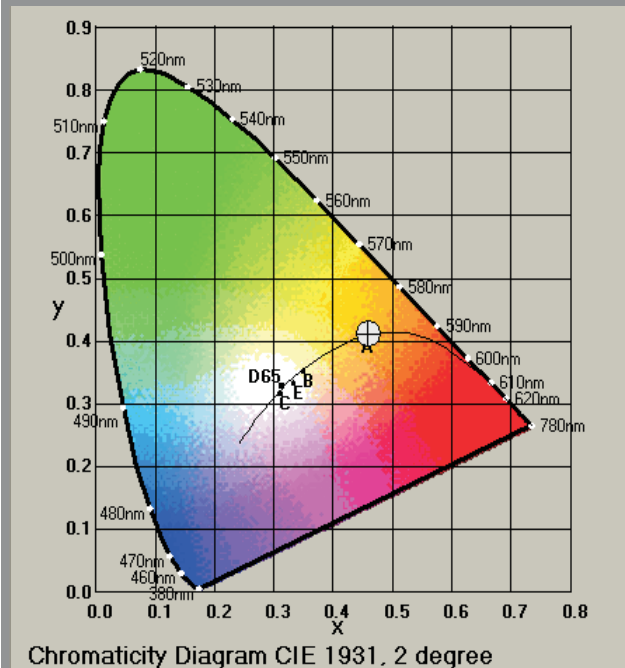
Lamp Efficacy: 60.6 Lumens/Watt



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Lamp Input Voltage	Lamp Current	Lamp Watts	Power Factor
120.0VAC	0.0495A	5.512W	0.929
Radiant Flux mW	Luminous Flux lumen	Corr. Color Temperature K	Color Rend. Index Ra
1111.221	333.822	2732	81.6
Chroma x	Chroma y	Chroma u	Chroma v
0.4584	0.4121	0.2609	0.3518

Wavelength in nm	Spectral Flux in mW/nm	Wavelength in nm	Spectral Flux in mW/nm
350	0.0342	610	6.8936
360	0.0356	620	6.6813
370	0.0457	630	6.2093
380	0.0350	640	5.6186
390	0.0404	650	4.9566
400	0.0351	660	4.2415
410	0.0431	670	3.5628
420	0.1086	680	2.9520
430	0.2807	690	2.4187
440	0.6880	700	1.9490
450	1.6575	710	1.5492
460	2.6447	720	1.2427
470	2.2476	730	0.9909
480	1.8187	740	0.7933
490	1.5058	750	0.6347
500	1.5890	760	0.5074
510	1.9955	770	0.3927
520	2.5174	780	0.3371
530	3.0547	790	0.2643
540	3.6292	800	0.2193
550	4.2063	810	0.1778
560	4.8593	820	0.1630
570	5.4853	830	0.1478
580	6.0738	840	0.1044
590	6.5976	850	0.0868
600	6.8587		





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LTL Number: 16704

Date: 09-24-2009

Prepared For: LEDnovation

Catalog Number: LEDA-19-40-1N-I

Lamp: One VBU 40 Watt A19 LED Replacement Lamp

Lamp Catalog Number: LEDA-19-40-1N-I

LED Power Supply: Internal

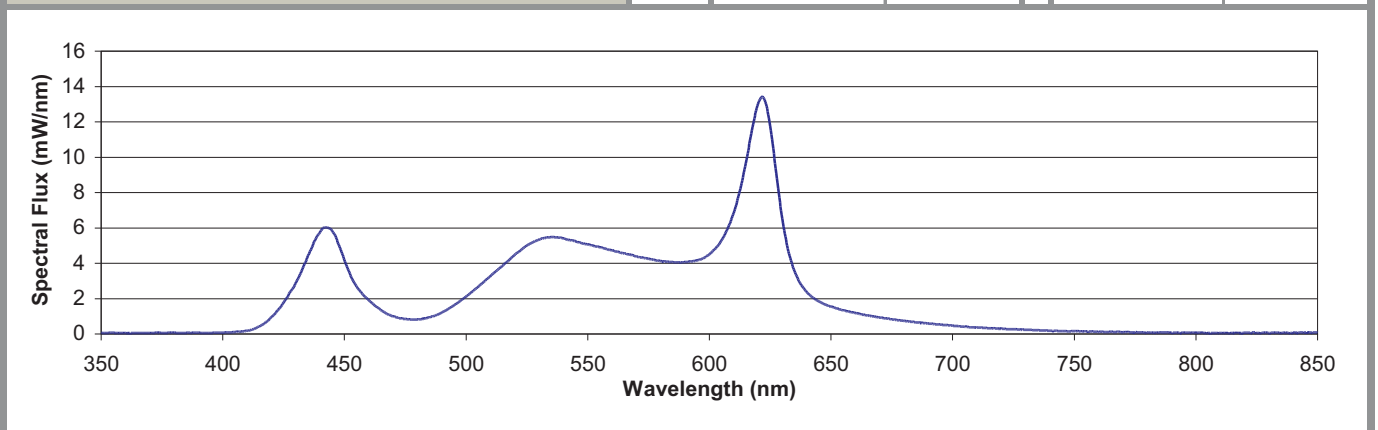
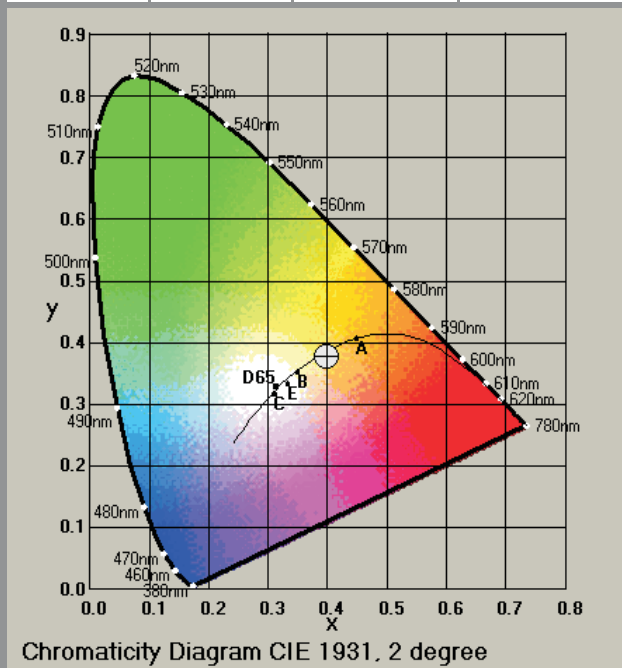
Lamp Efficacy: 89.2 Lumens/Watt



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Lamp Input Voltage	Lamp Current	Lamp Watts	Power Factor
120.0VAC	0.0352A	3.859W	0.913
Radiant Flux mW	Luminous Flux lumen	Corr. Color Temperature K	Color Rend. Index Ra
1029.683	344.356	3549	89
Chroma x	Chroma y	Chroma u	Chroma v
0.3984	0.378	0.2365	0.3365

Wavelength in nm	Spectral Flux in mW/nm	Wavelength in nm	Spectral Flux in mW/nm
350	0.0665	610	6.8474
360	0.0466	620	13.0180
370	0.0473	630	6.5069
380	0.0636	640	2.3799
390	0.0637	650	1.5452
400	0.0652	660	1.1848
410	0.1743	670	0.9228
420	0.9527	680	0.7375
430	2.8849	690	0.5849
440	5.7537	700	0.4719
450	4.1911	710	0.3687
460	1.9131	720	0.2998
470	0.9915	730	0.2286
480	0.8172	740	0.1850
490	1.2166	750	0.1552
500	2.1187	760	0.1154
510	3.2814	770	0.0945
520	4.4808	780	0.0819
530	5.3404	790	0.0654
540	5.3974	800	0.0718
550	5.0620	810	0.0555
560	4.7294	820	0.0646
570	4.3768	830	0.0527
580	4.1206	840	0.0695
590	4.0666	850	0.0730
600	4.5076		



TESTING WAS PERFORMED IN ACCORDANCE WITH IES LM-79-08. Approved By: MG



LTL Number: 16888

Date: 10-09-2009

Prepared For: LEDnovation

Catalog Number: LED A19-40-1D-I

Lamp: One VBU 40 Watt A19 LED Replacement Lamp

Lamp Catalog Number: LED A19-40-1D-I

LED Power Supply: Internal

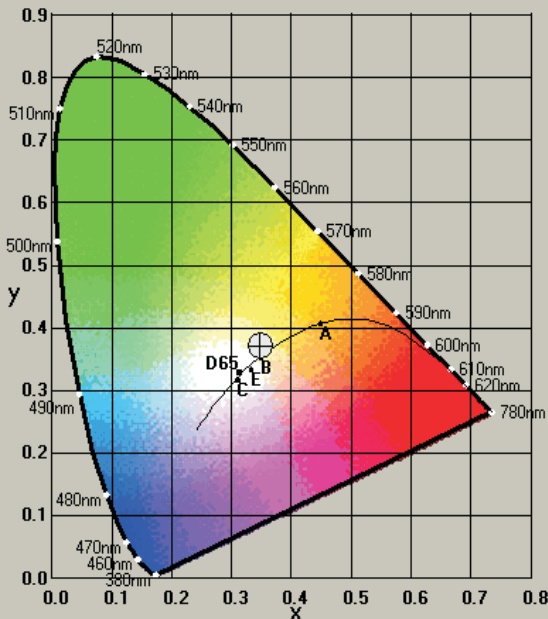
Lamp Efficacy: 98.4 Lumens/Watt



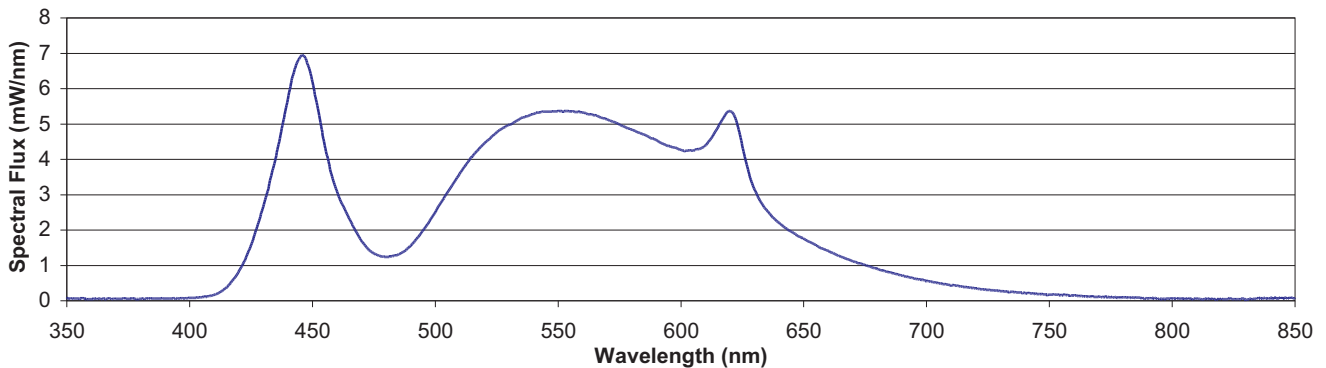
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Lamp Input Voltage	Lamp Current	Lamp Watts	Power Factor
120.0VAC	0.0313A	3.330W	0.886
Radiant Flux mW	Luminous Flux lumen	Corr. Color Temperature K	Color Rend. Index Ra
975.0577	327.743	4982	76.1
Chroma x	Chroma y	Chroma u	Chroma v
0.3473	0.3711	0.2055	0.3295

Wavelength in nm	Spectral Flux in mW/nm	Wavelength in nm	Spectral Flux in mW/nm
350	0.0975	610	4.3950
360	0.0470	620	5.3625
370	0.0508	630	3.1410
380	0.0554	640	2.1971
390	0.0651	650	1.7526
400	0.0780	660	1.4108
410	0.1707	670	1.1158
420	0.8248	680	0.8987
430	2.6589	690	0.7121
440	5.7011	700	0.5554
450	6.1878	710	0.4383
460	3.0894	720	0.3452
470	1.6926	730	0.2717
480	1.2400	740	0.2198
490	1.5605	750	0.1677
500	2.5104	760	0.1416
510	3.5995	770	0.1108
520	4.4557	780	0.0953
530	4.9805	790	0.0604
540	5.2873	800	0.0506
550	5.3620	810	0.0641
560	5.3214	820	0.0637
570	5.1277	830	0.0247
580	4.8396	840	0.0566
590	4.5433	850	0.0945
600	4.2682		



Chromaticity Diagram CIE 1931, 2 degree





LTL Number: 17168

Date: 11-23-2009

Prepared For: LEDnovation

Catalog Number: LED A19-60-1W-I

Lamp: One VBU 60 Watt A19 LED Replacement Lamp

Lamp Catalog Number: LED A19-60-1W-I

LED Power Supply: Internal

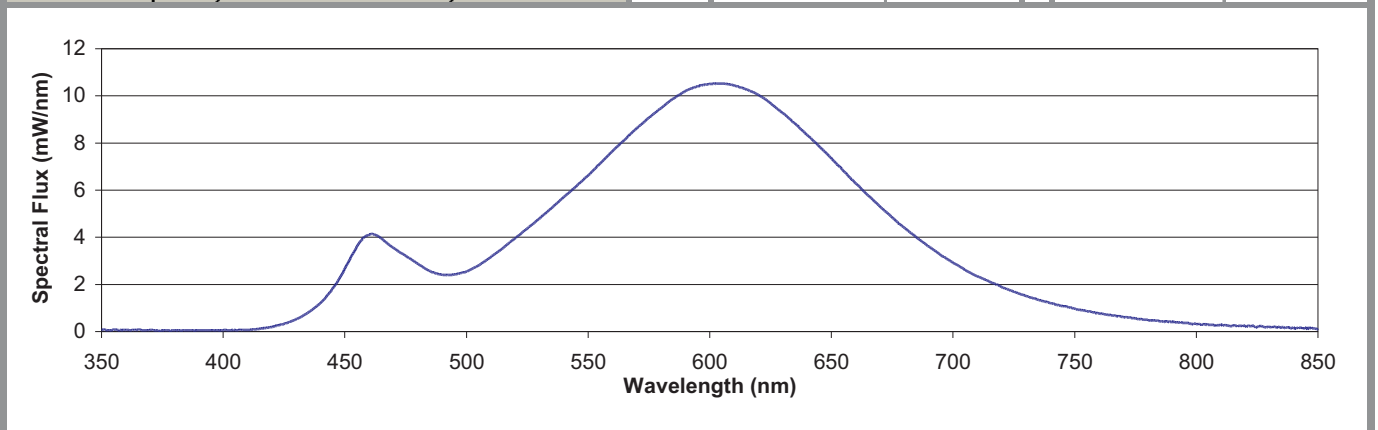
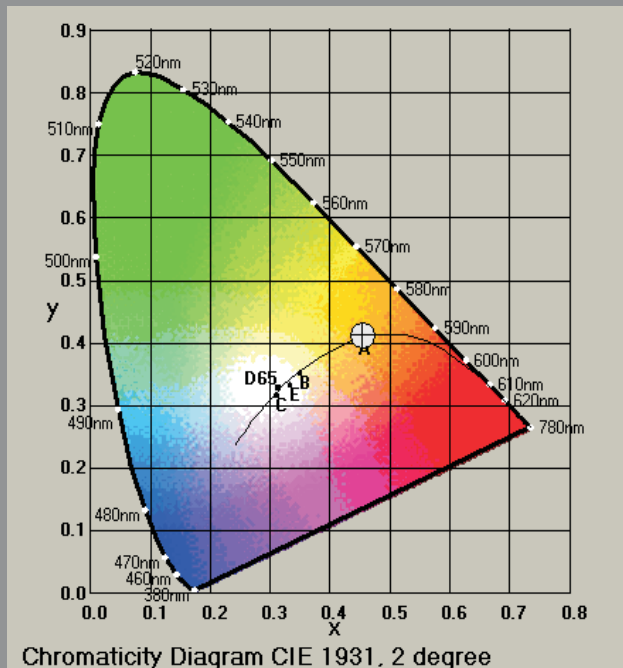
Lamp Efficacy: 52.4 Lumens/Watt



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Lamp Input Voltage	Lamp Current	Lamp Watts	Power Factor
120.0VAC	0.0888A	9.890W	0.928
Radiant Flux mW	Luminous Flux lumen	Corr. Color Temperature K	Color Rend. Index Ra
1706.44	518.326	2802	80.4
Chroma x	Chroma y	Chroma u	Chroma v
0.4537	0.4125	0.2577	0.3514

Wavelength in nm	Spectral Flux in mW/nm	Wavelength in nm	Spectral Flux in mW/nm
350	0.0654	610	10.4390
360	0.0553	620	10.0410
370	0.0622	630	9.2730
380	0.0510	640	8.3424
390	0.0479	650	7.3527
400	0.0541	660	6.2887
410	0.0726	670	5.3067
420	0.1904	680	4.4076
430	0.5245	690	3.6116
440	1.2122	700	2.9236
450	2.6654	710	2.3531
460	4.1124	720	1.8806
470	3.5513	730	1.5058
480	2.8745	740	1.2017
490	2.4099	750	0.9724
500	2.5466	760	0.7723
510	3.1621	770	0.6105
520	3.9624	780	0.5080
530	4.8025	790	0.4109
540	5.7092	800	0.3166
550	6.6239	810	0.2950
560	7.6620	820	0.2534
570	8.6311	830	0.2134
580	9.4814	840	0.1333
590	10.2090	850	0.1349
600	10.5040		





LTL Number: 16706

Date: 09-24-2009

Prepared For: LEDnovation

Catalog Number: LEDA-19-60-1N-I

Lamp: One VBU 60 Watt A19 LED Replacement Lamp

Lamp Catalog Number: LEDA-19-60-1N-I

LED Power Supply: Internal

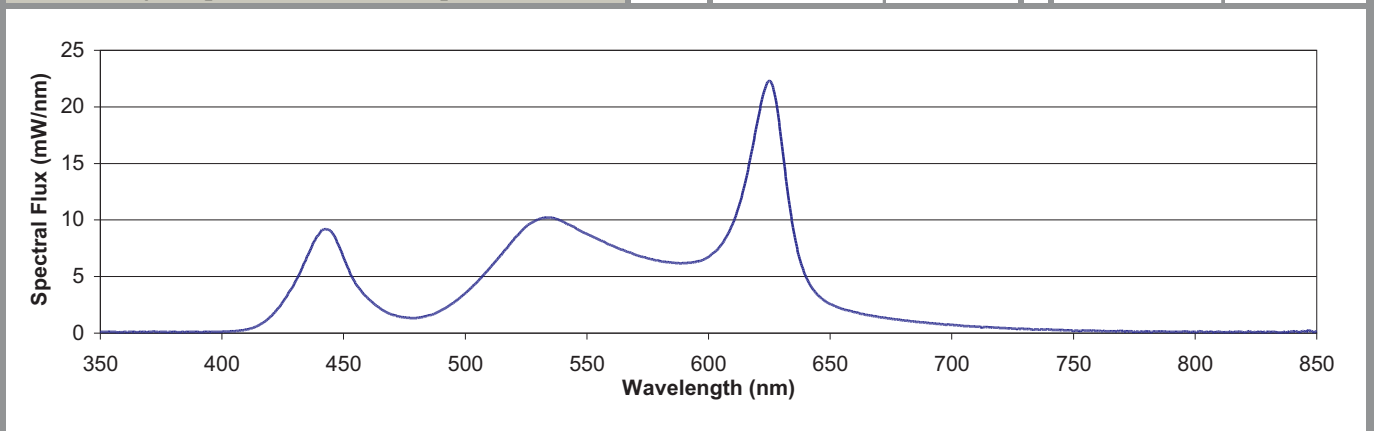
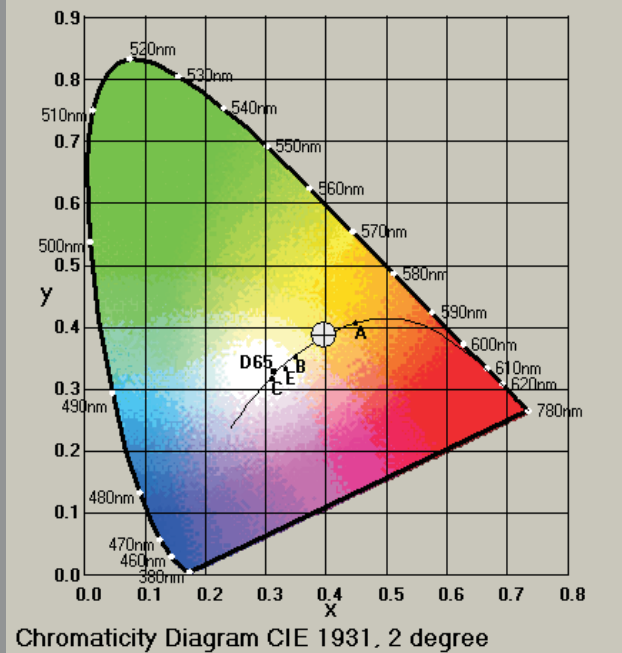
Lamp Efficacy: 76.6 Lumens/Watt



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Lamp Input Voltage	Lamp Current	Lamp Watts	Power Factor
120.0VAC	0.0685A	7.563W	0.920
Radiant Flux mW	Luminous Flux lumen	Corr.Color Temperature K	Color Rend. Index Ra
1727.501	579.550	3686	86.1
Chroma x	Chroma y	Chroma u	Chroma v
0.3962	0.3883	0.2308	0.3393

Wavelength in nm	Spectral Flux in mW/nm	Wavelength in nm	Spectral Flux in mW/nm
350	0.0905	610	9.6903
360	0.1003	620	18.5580
370	0.1020	630	16.9280
380	0.1027	640	5.0104
390	0.1097	650	2.5851
400	0.1195	660	1.8447
410	0.2998	670	1.4170
420	1.4812	680	1.1229
430	4.4661	690	0.9034
440	8.7557	700	0.7241
450	6.7001	710	0.5795
460	3.0766	720	0.4520
470	1.6234	730	0.3804
480	1.3364	740	0.3087
490	1.9998	750	0.2113
500	3.5331	760	0.1695
510	5.7421	770	0.1700
520	8.2898	780	0.1265
530	10.0530	790	0.1056
540	9.8674	800	0.1182
550	8.7759	810	0.1344
560	7.7711	820	0.0522
570	6.9158	830	0.0898
580	6.3588	840	0.1311
590	6.1946	850	0.1781
600	6.7398		





LTL Number: 16890

Date: 10-09-2009

Prepared For: LEDnovation

Catalog Number: LED A19-60-1D-I

Lamp: One VBU 60 Watt A19 LED Replacement Lamp

Lamp Catalog Number: LED A19-60-1D-I

LED Power Supply: Internal

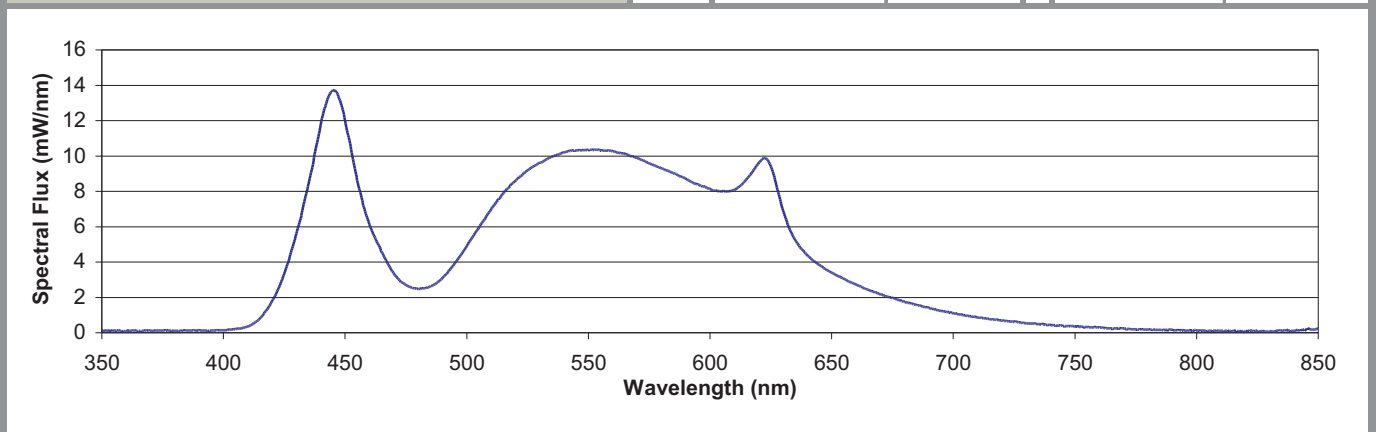
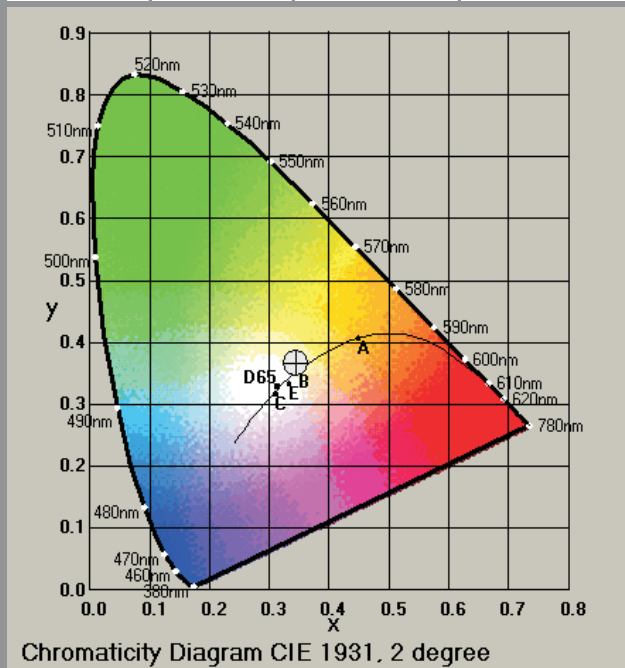
Lamp Efficacy: 91.2 Lumens/Watt



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Lamp Input Voltage	Lamp Current	Lamp Watts	Power Factor
120.0VAC	0.0629a	6.919W	0.918
Radiant Flux mW	Luminous Flux lumen	Corr. Color Temperature K	Color Rend. Index Ra
1903.353	631.280	5078	76.4
Chroma x	Chroma y	Chroma u	Chroma v
0.3442	0.3666	0.2051	0.3278

Wavelength in nm	Spectral Flux in mW/nm	Wavelength in nm	Spectral Flux in mW/nm
350	0.1640	610	8.0696
360	0.0927	620	9.5863
370	0.1094	630	6.9326
380	0.1080	640	4.3742
390	0.1366	650	3.4019
400	0.1520	660	2.7357
410	0.3516	670	2.1748
420	1.7981	680	1.7401
430	5.6057	690	1.4002
440	11.7490	700	1.1016
450	12.0110	710	0.8552
460	6.1370	720	0.6911
470	3.3589	730	0.5379
480	2.4827	740	0.4317
490	3.0906	750	0.3555
500	4.9022	760	0.3000
510	6.9803	770	0.2363
520	8.5996	780	0.1832
530	9.6210	790	0.1547
540	10.1920	800	0.1301
550	10.3450	810	0.1111
560	10.2640	820	0.0798
570	9.8894	830	0.0949
580	9.3092	840	0.1087
590	8.7161	850	0.2425
600	8.1302		





LTL Number: 16705

Date: 09-24-2009

Prepared For: LEDnovation

Catalog Number: LEDA-19-75-1N-I

Lamp: One VBU 75 Watt A19 LED Replacement Lamp

Lamp Catalog Number: LEDA-19-75-1N-I

LED Power Supply: Internal

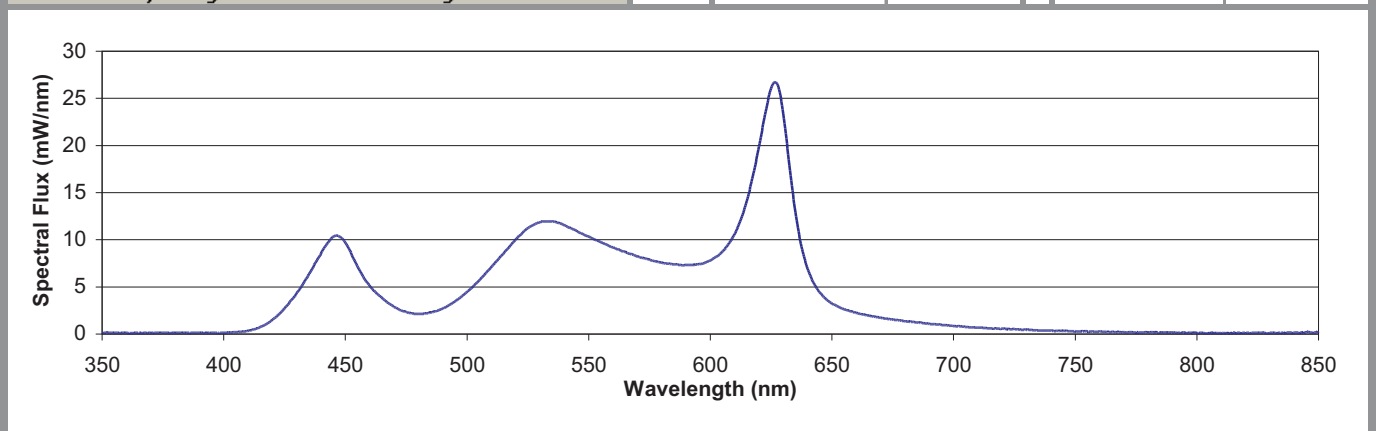
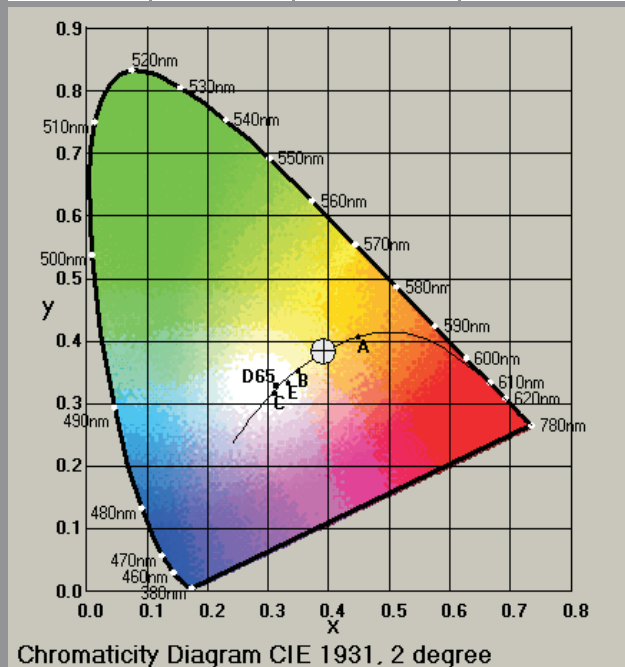
Lamp Efficacy: 69.8 Lumens/Watt



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Lamp Input Voltage	Lamp Current	Lamp Watts	Power Factor
120.0VAC	0.0885A	9.841W	0.927
Radiant Flux mW	Luminous Flux lumen	Corr.Color Temperature K	Color Rend. Index Ra
2082.952	687.236	3778	86.6
Chroma x	Chroma y	Chroma u	Chroma v
0.3913	0.3848	0.229	0.3378

Wavelength in nm	Spectral Flux in mW/nm	Wavelength in nm	Spectral Flux in mW/nm
350	0.1331	610	10.6080
360	0.1451	620	19.8760
370	0.0948	630	23.3420
380	0.1046	640	6.9358
390	0.1198	650	3.2386
400	0.1481	660	2.2401
410	0.3299	670	1.7144
420	1.5149	680	1.3647
430	4.3274	690	1.0820
440	8.5267	700	0.8484
450	9.7189	710	0.6822
460	5.1100	720	0.5602
470	2.8954	730	0.4349
480	2.1228	740	0.3570
490	2.7155	750	0.3032
500	4.4738	760	0.2640
510	7.1162	770	0.1892
520	10.0310	780	0.1496
530	11.8560	790	0.1309
540	11.5470	800	0.0976
550	10.3400	810	0.1111
560	9.1857	820	0.0734
570	8.2286	830	0.1446
580	7.5523	840	0.1625
590	7.3223	850	0.2207
600	7.8061		





LTL Number: 16892

Date: 10-09-2009

Prepared For: LEDnovation

Catalog Number: LED A19-75-1D-I

Lamp: One VBU 75 Watt A19 LED Replacement Lamp

Lamp Catalog Number: LED A19-75-1D-I

LED Power Supply: Internal

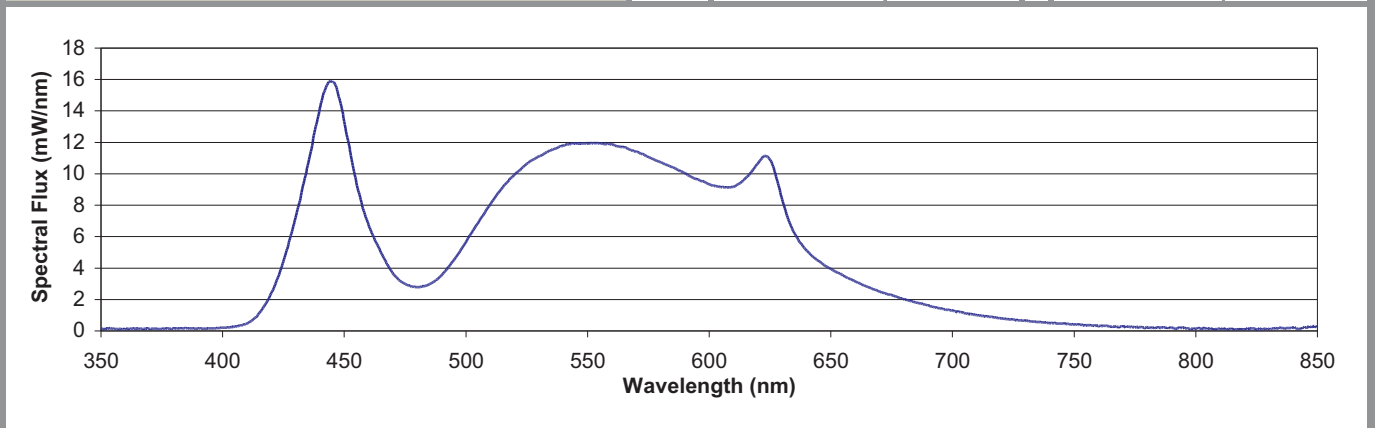
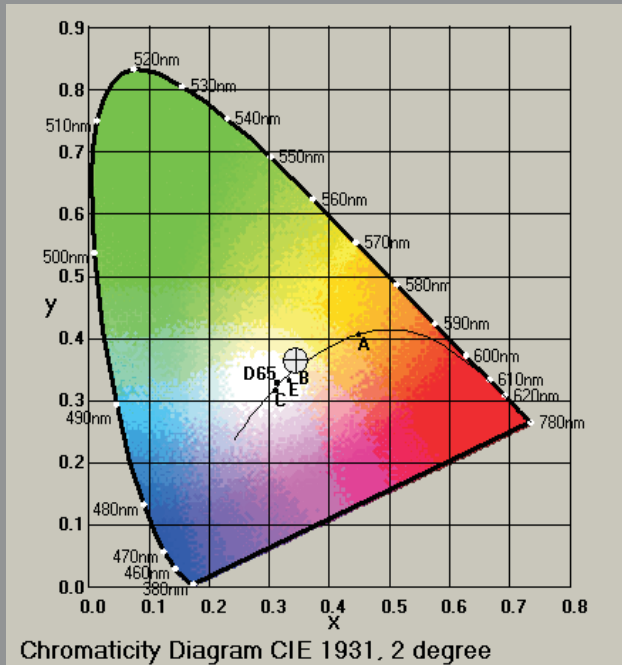
Lamp Efficacy: 88.0 Lumens/Watt



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Lamp Input Voltage	Lamp Current	Lamp Watts	Power Factor
120.0VAC	0.0747A	8.271W	0.923
Radiant Flux mW	Luminous Flux lumen	Corr.Color Temperature K	Color Rend. Index Ra
2204.605	727.660	5102	76
Chroma x	Chroma y	Chroma u	Chroma v
0.3434	0.3657	0.205	0.3274

Wavelength in nm	Spectral Flux in mW/nm	Wavelength in nm	Spectral Flux in mW/nm
350	0.1562	610	9.1679
360	0.1047	620	10.6540
370	0.1346	630	8.3682
380	0.1616	640	5.1229
390	0.1508	650	3.9476
400	0.2026	660	3.1590
410	0.4743	670	2.5026
420	2.4027	680	2.0146
430	7.1984	690	1.6144
440	14.1370	700	1.2863
450	13.3330	710	1.0021
460	6.7567	720	0.7844
470	3.6698	730	0.6404
480	2.7854	740	0.4987
490	3.5496	750	0.4011
500	5.6659	760	0.3153
510	8.0676	770	0.2740
520	9.9502	780	0.2177
530	11.1180	790	0.2016
540	11.7890	800	0.1502
550	11.9470	810	0.1286
560	11.8460	820	0.0989
570	11.4060	830	0.1354
580	10.7340	840	0.1888
590	10.0440	850	0.2390
600	9.3339		





LTL Number: 16894

Date: 10-09-2009

Prepared For: LEDnovation

Catalog Number: LED A19-100-1D-I

Lamp: One VBU 100 Watt A19 LED Replacement Lamp

Lamp Catalog Number: LED A19-100-1D-I

LED Power Supply: Internal

Lamp Efficacy: 83.7 Lumens/Watt



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Lamp Input Voltage	Lamp Current	Lamp Watts	Power Factor
120.0VAC	0.0881A	9.843W	0.931
Radiant Flux mW	Luminous Flux lumen	Corr. Color Temperature K	Color Rend. Index Ra
2516.84	823.908	5145	75.5
Chroma x	Chroma y	Chroma u	Chroma v
0.342	0.3626	0.2052	0.3263

Wavelength in nm	Spectral Flux in mW/nm	Wavelength in nm	Spectral Flux in mW/nm
350	0.2385	610	10.2550
360	0.1212	620	11.6260
370	0.1718	630	10.0630
380	0.1648	640	5.9354
390	0.1922	650	4.4996
400	0.2320	660	3.5981
410	0.6299	670	2.8544
420	3.1968	680	2.2998
430	9.4303	690	1.8386
440	17.5600	700	1.4417
450	14.6550	710	1.1502
460	7.1489	720	0.9053
470	3.7787	730	0.7237
480	2.9535	740	0.5869
490	3.9419	750	0.4469
500	6.3969	760	0.3742
510	9.1465	770	0.2901
520	11.2820	780	0.2397
530	12.6100	790	0.2024
540	13.3580	800	0.1702
550	13.5670	810	0.1453
560	13.4530	820	0.2163
570	12.9270	830	0.0906
580	12.1730	840	0.1625
590	11.3830	850	0.3173
600	10.5340		

