



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : VF2-L106-750-HS\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]ATAL009604-R2  
 [TESTLAB]ATAL-LABS  
 [ISSUE DATE]28 NOV 2022  
 [MANUFACTURER]WILLIAMS OUTDOOR  
 [OTHER]H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMEN CATEGORY]VF2-L106-750-HS-MTG-CLR-OPT-DIM-UNV  
 [LUMINAIRE]VOLTAIRE MEDIUM ARCHITECTURAL FLOOD LIGHT WITH  
 [MORE]HORIZONTAL SPOT MOLDED REFRACTIVE CLEAR ACRYLIC LENS AND A  
 [MORE]CLEAR GLASS LENS.  
 [LAMP CATEGORY]LUXEON TX 5000K LEDS  
 [BALLAST](1) PHILIPS ELECTRONIC DRIVER  
 [OTHER]INPUT WATTS: 9843, AMPS: 0.4454, VAC: 120.05, TEMP: 25.4 C  
 [SEARCH\_SOURCE TYPE] LED  
 [SEARCH\_APPLICATION] Outdoor, Architectural, Facade, Landscape, Parking, Site, Flood, Wet Location  
 [SEARCH\_MOUNTING] Arm, Ground, Pole, Post Top, Wall  
 [SEARCH\_CERTIFICATION] DLC  
 [SEARCH\_CLASSIFICATION] IP66

Note: Candela values converted from Type-B to Type-C

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9981
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	98
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.40
Spacing Criterion (90-270)	3.40
Spacing Criterion (Diagonal)	1.78
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.69 ft (Diameter)
Luminous Height	0.00 ft

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	47176	97812	242355
55	27141	71452	446454
65	26621	29124	420511
75	23250	18828	23503
85	0	6867	7505

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**CANDELA TABULATION**

	<u>0.0</u>	<u>2.5</u>	<u>5.0</u>	<u>7.5</u>	<u>10.0</u>	<u>12.5</u>	<u>15.0</u>	<u>17.5</u>	<u>20.0</u>	<u>22.5</u>
<b>0.0</b>	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548
<b>2.5</b>	2033.256	2033.229	2033.149	2033.015	2032.828	2032.588	2032.296	2031.952	2031.556	2031.110
<b>5.0</b>	2059.222	2059.174	2059.030	2058.790	2058.454	2058.024	2058.132	2057.950	2057.651	2057.235
<b>7.5</b>	2068.819	2068.842	2068.914	2069.033	2069.940	2070.925	2071.919	2072.913	2074.032	2074.351
<b>10.0</b>	2056.965	2057.028	2057.217	2058.390	2060.089	2061.947	2063.973	2066.177	2069.573	2073.090
<b>12.5</b>	2045.111	2045.150	2045.267	2046.859	2048.339	2049.888	2052.089	2055.271	2058.596	2062.074
<b>15.0</b>	2047.933	2047.902	2048.149	2048.778	2049.414	2050.959	2054.153	2057.153	2059.522	2064.762
<b>17.5</b>	2079.092	2080.779	2081.522	2081.446	2080.658	2081.671	2082.525	2084.925	2089.077	2092.537
<b>20.0</b>	2131.852	2134.762	2136.345	2137.007	2138.585	2139.911	2141.972	2146.694	2149.417	2154.448
<b>22.5</b>	2178.892	2178.557	2182.622	2186.041	2191.276	2195.933	2203.133	2210.240	2219.186	2229.268
<b>25.0</b>	2177.010	2177.026	2183.344	2190.330	2202.422	2215.235	2231.340	2248.160	2267.736	2288.835
<b>27.5</b>	2123.734	2128.727	2134.755	2145.470	2162.648	2184.907	2210.466	2240.934	2271.188	2314.707
<b>30.0</b>	2043.417	2051.645	2057.030	2069.786	2088.469	2116.386	2149.180	2185.344	2220.029	2257.320
<b>32.5</b>	1941.810	1950.027	1954.790	1966.900	1984.802	2010.180	2041.704	2077.643	2116.640	2170.064
<b>35.0</b>	1823.144	1831.238	1835.292	1847.337	1865.254	1889.373	1920.917	1955.645	1997.458	2056.921
<b>37.5</b>	1700.213	1707.701	1710.020	1720.440	1735.391	1757.103	1785.964	1821.928	1870.033	1926.540
<b>40.0</b>	1539.901	1547.035	1549.400	1560.155	1578.282	1603.188	1634.367	1672.581	1726.593	1784.392
<b>42.5</b>	1379.589	1385.781	1386.682	1395.749	1416.047	1440.410	1467.752	1505.844	1555.907	1607.537
<b>45.0</b>	1151.539	1159.059	1162.798	1174.008	1197.782	1225.991	1256.277	1301.516	1354.864	1421.403
<b>47.5</b>	923.489	931.780	935.567	944.955	966.358	989.948	1014.713	1049.467	1091.649	1150.687
<b>50.0</b>	794.788	800.763	801.914	806.110	816.619	827.820	838.183	849.349	863.010	881.331
<b>52.5</b>	666.086	670.848	672.716	676.263	684.052	694.829	706.453	718.813	733.210	755.697
<b>55.0</b>	537.385	540.974	543.692	545.585	551.123	562.354	575.315	588.562	602.827	624.981
<b>57.5</b>	500.129	501.887	501.078	498.125	497.555	500.426	502.502	503.491	502.717	505.234
<b>60.0</b>	462.874	463.706	462.091	459.377	459.736	462.764	463.654	464.793	463.085	464.601
<b>62.5</b>	425.618	425.493	423.046	420.819	422.008	425.033	424.655	425.017	423.264	423.411
<b>65.0</b>	388.362	387.252	383.949	382.432	384.361	386.549	385.764	385.529	382.974	382.204
<b>67.5</b>	343.204	343.000	339.339	337.934	341.000	341.030	340.646	340.409	338.636	338.421
<b>70.0</b>	298.046	298.723	294.505	292.974	296.289	293.728	292.399	291.757	290.079	288.769
<b>72.5</b>	252.887	254.466	249.644	248.327	251.157	246.509	243.730	243.506	241.614	238.593
<b>75.0</b>	207.729	210.227	204.766	203.700	205.688	199.362	194.722	195.589	193.234	187.991
<b>77.5</b>	155.797	158.137	154.207	154.448	155.682	151.577	148.056	149.186	147.290	141.595
<b>80.0</b>	103.865	106.013	103.617	104.838	105.568	103.787	102.405	102.952	102.595	99.108
<b>82.5</b>	51.932	53.896	53.103	55.135	55.704	56.074	57.098	57.090	58.313	57.068
<b>85.0</b>	0.000	1.781	2.640	5.364	6.016	8.406	12.022	11.376	14.303	15.338
<b>87.5</b>	0.000	0.846	1.133	2.277	2.293	3.173	4.667	3.780	4.805	4.888
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.  
Angles**

**Horizontal Angles**

	<u>25.0</u>	<u>27.5</u>	<u>30.0</u>	<u>32.5</u>	<u>35.0</u>	<u>37.5</u>	<u>40.0</u>	<u>42.5</u>	<u>45.0</u>	<u>47.5</u>
<b>0.0</b>	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548
<b>2.5</b>	2030.615	2030.245	2029.761	2029.228	2028.646	2028.018	2027.344	2026.625	2025.863	2025.058
<b>5.0</b>	2056.699	2056.041	2055.261	2054.358	2053.333	2052.115	2051.871	2051.223	2050.428	2049.489
<b>7.5</b>	2074.856	2075.770	2076.626	2077.428	2078.178	2078.876	2079.525	2079.743	2081.501	2082.004
<b>10.0</b>	2077.334	2079.788	2082.411	2086.724	2091.157	2095.619	2100.105	2104.611	2108.533	2112.313
<b>12.5</b>	2066.558	2072.025	2078.081	2084.776	2092.226	2101.054	2109.866	2118.645	2126.863	2134.299
<b>15.0</b>	2069.013	2072.917	2078.670	2087.732	2097.098	2105.503	2118.836	2130.707	2143.263	2156.215
<b>17.5</b>	2096.443	2100.888	2104.203	2110.173	2121.876	2132.843	2143.854	2156.168	2172.392	2188.686
<b>20.0</b>	2159.483	2160.978	2168.395	2170.082	2181.135	2192.084	2200.645	2209.141	2227.471	2243.833
<b>22.5</b>	2239.445	2250.739	2259.388	2273.318	2282.763	2291.764	2300.105	2306.625	2320.244	2332.641
<b>25.0</b>	2313.331	2337.147	2353.916	2369.889	2387.532	2403.327	2421.436	2433.812	2444.132	2455.282
<b>27.5</b>	2350.078	2379.315	2409.521	2442.199	2475.813	2510.590	2531.302	2553.329	2575.125	2598.031
<b>30.0</b>	2307.761	2358.842	2413.041	2470.299	2522.608	2561.735	2603.294	2647.150	2688.989	2718.188

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**CANDELA TABULATION - (Cont.)**

32.5	2231.835	2296.086	2364.686	2426.853	2489.811	2556.568	2628.264	2692.974	2744.382	2804.216
35.0	2117.221	2182.026	2254.230	2333.937	2418.002	2511.061	2583.638	2663.607	2750.722	2838.842
37.5	1986.835	2053.626	2129.605	2214.041	2304.131	2398.992	2497.891	2600.975	2699.924	2792.921
40.0	1847.372	1915.631	1996.708	2085.031	2180.936	2283.022	2390.081	2498.164	2608.524	2720.590
42.5	1676.178	1755.175	1844.442	1946.149	2047.359	2153.051	2265.142	2384.548	2508.694	2629.417
45.0	1498.047	1574.225	1661.379	1759.497	1874.755	1998.418	2132.668	2256.220	2387.537	2525.901
47.5	1230.662	1324.616	1431.037	1560.637	1683.257	1805.550	1939.108	2089.466	2253.905	2400.939
50.0	942.517	1026.190	1122.131	1247.663	1391.927	1552.264	1728.860	1883.392	2049.958	2224.726
52.5	791.786	826.632	871.332	927.622	1047.577	1202.154	1386.946	1593.123	1811.033	1990.702
55.0	653.566	684.555	728.284	781.555	846.349	925.519	1028.444	1210.711	1414.744	1648.850
57.5	511.833	539.794	579.123	627.602	685.691	757.691	845.161	930.216	1026.728	1196.593
60.0	466.326	471.438	480.576	492.594	513.770	572.635	642.441	719.005	806.918	890.870
62.5	424.956	430.046	437.451	446.958	455.461	465.460	472.562	495.194	571.487	653.954
65.0	383.659	387.621	392.545	398.963	403.589	409.206	412.195	418.274	424.884	434.339
67.5	340.664	344.260	346.024	348.195	349.827	349.831	349.390	351.795	356.487	363.038
70.0	289.270	291.526	293.616	294.377	294.426	289.245	284.386	284.269	286.775	291.986
72.5	237.530	238.379	239.819	239.196	238.287	233.253	228.288	224.216	220.882	223.358
75.0	185.505	185.175	185.918	184.087	182.148	178.579	174.577	170.312	168.221	171.228
77.5	138.211	136.323	134.875	130.653	127.028	125.036	121.405	116.963	116.469	119.926
80.0	96.884	95.907	95.232	93.154	90.375	87.082	81.823	75.275	72.482	71.794
82.5	55.779	55.745	56.187	56.332	55.224	53.474	50.745	47.356	46.432	46.161
85.0	14.838	15.757	17.551	19.975	20.513	20.363	20.611	20.533	20.659	20.838
87.5	3.955	3.818	4.226	5.174	4.911	4.281	4.419	4.591	4.006	3.360
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.  
Angles**

**Horizontal Angles**

	<u>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>57.5</u>	<u>60.0</u>	<u>62.5</u>	<u>65.0</u>	<u>67.5</u>	<u>70.0</u>	<u>72.5</u>
0.0	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548
2.5	2024.214	2023.331	2022.411	2021.455	2020.466	2019.446	2017.751	2017.414	2016.540	2015.647
5.0	2048.406	2046.605	2045.819	2044.323	2042.697	2040.945	2039.073	2037.086	2034.991	2032.793
7.5	2081.933	2080.621	2079.097	2077.364	2075.425	2073.283	2070.942	2068.281	2064.797	2062.225
10.0	2114.010	2115.424	2116.554	2117.397	2117.691	2115.539	2111.609	2109.644	2106.339	2102.113
12.5	2142.396	2150.041	2157.223	2161.830	2163.312	2162.989	2165.865	2165.437	2161.510	2156.652
15.0	2171.144	2185.472	2197.417	2206.824	2215.476	2225.263	2228.855	2230.886	2231.861	2228.533
17.5	2206.406	2224.722	2243.542	2261.714	2275.982	2293.633	2305.968	2315.430	2317.120	2317.090
20.0	2259.747	2282.839	2306.788	2329.942	2354.760	2380.273	2401.852	2417.039	2430.295	2433.186
22.5	2343.105	2369.898	2393.170	2419.789	2448.748	2479.748	2511.222	2540.893	2560.565	2577.532
25.0	2468.149	2479.314	2503.568	2533.828	2561.691	2597.311	2631.729	2674.857	2713.264	2738.088
27.5	2615.049	2631.004	2648.131	2672.594	2705.401	2745.840	2790.535	2837.778	2886.411	2936.330
30.0	2747.609	2785.799	2812.158	2839.264	2874.541	2925.685	2989.211	3054.816	3122.069	3180.640
32.5	2864.413	2907.633	2960.624	3016.224	3070.619	3132.512	3202.307	3291.793	3389.047	3489.922
35.0	2907.710	2986.095	3062.838	3140.440	3229.948	3316.227	3418.727	3534.743	3657.427	3785.801
37.5	2891.404	2989.058	3088.958	3200.952	3310.793	3440.323	3567.744	3707.652	3859.585	4022.533
40.0	2831.114	2944.129	3062.096	3187.010	3333.564	3484.794	3648.469	3815.330	4001.765	4205.289
42.5	2753.902	2881.066	3009.374	3149.474	3307.578	3487.666	3681.944	3905.669	4130.122	4351.279
45.0	2667.540	2802.444	2942.369	3090.243	3259.231	3476.583	3731.328	3987.261	4245.618	4493.441
47.5	2550.528	2708.600	2862.752	3029.171	3218.875	3446.928	3712.288	4045.545	4400.564	4756.125
50.0	2417.374	2580.712	2762.018	2958.689	3154.947	3377.197	3690.698	4076.953	4527.895	4968.609
52.5	2184.626	2397.071	2618.801	2827.498	3062.980	3296.302	3592.402	4014.101	4525.320	5081.364
55.0	1901.995	2100.495	2352.081	2631.002	2858.612	3134.076	3446.062	3841.875	4404.960	5069.097
57.5	1428.663	1696.785	1963.118	2231.789	2563.789	2774.257	3122.940	3583.791	4156.324	4899.617
60.0	983.366	1155.287	1411.092	1739.487	1912.922	2056.501	2387.984	3097.450	3782.134	4334.509
62.5	738.151	779.304	802.636	1027.680	1163.503	1233.313	1453.603	1996.842	2852.601	3194.183
65.0	488.018	544.903	582.460	601.883	633.808	653.655	574.990	1042.759	1592.161	2224.770
67.5	366.887	370.258	395.460	428.104	437.306	421.293	435.830	463.164	817.968	1214.497

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**CANDELA TABULATION - (Cont.)**

<b>70.0</b>	297.364	301.274	302.677	303.160	312.770	327.323	344.239	365.342	407.226	620.711
<b>72.5</b>	230.559	235.029	237.939	239.758	240.926	242.813	255.406	271.789	288.870	344.301
<b>75.0</b>	174.286	175.206	176.490	180.132	182.932	185.287	187.042	188.087	203.402	215.010
<b>77.5</b>	122.621	123.905	125.386	127.232	129.163	130.715	133.178	134.681	136.263	140.655
<b>80.0</b>	71.811	73.551	75.423	78.913	83.149	85.965	86.966	86.266	89.603	90.626
<b>82.5</b>	44.874	42.893	40.345	40.113	40.875	45.367	49.551	51.996	53.286	53.055
<b>85.0</b>	21.108	21.080	20.649	21.779	23.089	24.278	25.303	25.302	24.658	25.434
<b>87.5</b>	3.510	3.705	3.932	4.703	5.624	7.439	9.198	10.217	10.944	11.294
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.  
Angles**

**Horizontal Angles**

	<u><b>75.0</b></u>	<u><b>77.5</b></u>	<u><b>80.0</b></u>	<u><b>82.5</b></u>	<u><b>85.0</b></u>	<u><b>87.5</b></u>	<u><b>90.0</b></u>	<u><b>92.5</b></u>	<u><b>95.0</b></u>	<u><b>97.5</b></u>
<b>0.0</b>	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548
<b>2.5</b>	2014.735	2013.807	2012.864	2011.908	2010.942	2009.966	2008.984	2008.242	2007.496	2006.748
<b>5.0</b>	2030.502	2027.075	2026.097	2024.295	2022.439	2020.533	2018.580	2016.092	2013.580	2011.063
<b>7.5</b>	2058.908	2055.360	2051.595	2047.639	2043.746	2039.707	2035.514	2032.278	2028.903	2025.263
<b>10.0</b>	2098.232	2093.319	2087.946	2082.148	2076.371	2071.333	2065.996	2060.398	2054.580	2050.511
<b>12.5</b>	2150.924	2144.337	2137.101	2129.358	2121.124	2113.926	2106.638	2098.914	2091.615	2087.417
<b>15.0</b>	2222.257	2215.036	2206.930	2197.894	2187.916	2177.796	2167.602	2159.652	2152.453	2146.035
<b>17.5</b>	2313.474	2303.601	2300.075	2297.477	2294.536	2289.011	2279.143	2262.668	2249.167	2235.928
<b>20.0</b>	2432.384	2427.901	2423.585	2418.551	2415.770	2409.969	2398.663	2381.029	2366.851	2348.865
<b>22.5</b>	2582.226	2582.981	2576.497	2564.528	2554.496	2539.003	2526.611	2516.156	2506.371	2494.808
<b>25.0</b>	2757.868	2765.422	2767.670	2762.129	2753.080	2740.257	2729.824	2717.793	2705.039	2693.932
<b>27.5</b>	2970.943	2996.657	3012.900	3017.899	3016.526	3009.699	3001.420	2989.449	2975.375	2961.804
<b>30.0</b>	3228.351	3273.124	3311.681	3338.869	3353.786	3359.643	3358.090	3347.470	3329.017	3304.232
<b>32.5</b>	3580.710	3653.947	3713.668	3760.501	3789.886	3807.576	3816.730	3811.898	3793.579	3761.336
<b>35.0</b>	3909.888	4024.087	4123.196	4214.801	4293.318	4355.300	4397.172	4400.914	4369.738	4301.745
<b>37.5</b>	4196.365	4362.784	4516.709	4664.501	4804.233	4923.212	5008.065	5024.345	4976.248	4859.260
<b>40.0</b>	4404.339	4585.281	4742.552	4883.528	5016.093	5131.948	5220.309	5242.846	5205.173	5100.353
<b>42.5</b>	4559.441	4747.607	4916.046	5062.971	5206.094	5334.005	5432.553	5454.477	5407.720	5290.352
<b>45.0</b>	4764.556	5015.028	5237.620	5437.823	5623.643	5791.250	5915.748	5938.368	5861.808	5681.758
<b>47.5</b>	5088.632	5382.646	5632.014	5851.790	6056.903	6251.009	6398.943	6428.333	6324.583	6106.018
<b>50.0</b>	5382.191	5767.120	6121.918	6450.366	6752.389	7022.542	7212.546	7234.311	7069.397	6763.306
<b>52.5</b>	5625.989	6143.952	6626.621	7061.685	7458.196	7792.079	8026.150	8039.366	7838.689	7457.832
<b>55.0</b>	5748.931	6417.233	7045.334	7619.933	8151.308	8551.708	8839.753	8842.054	8597.498	8117.795
<b>57.5</b>	5733.657	6355.967	6763.171	7142.342	7515.512	7865.550	8163.505	8221.456	8060.115	7725.753
<b>60.0</b>	4850.621	5330.342	5788.299	6239.543	6692.449	7122.008	7487.260	7555.297	7326.975	6891.908
<b>62.5</b>	3736.599	4311.664	4782.061	5294.144	5839.612	6364.488	6811.013	6889.428	6561.548	6006.790
<b>65.0</b>	2432.215	3260.209	3758.104	4310.271	4944.820	5584.026	6134.766	6208.791	5753.765	5055.708
<b>67.5</b>	1534.825	1933.976	2737.673	3224.135	3727.327	4211.850	4653.571	4731.388	4391.105	3842.401
<b>70.0</b>	811.357	1028.143	1820.614	2170.857	2512.739	2847.750	3172.376	3232.773	2971.205	2576.199
<b>72.5</b>	461.154	622.559	770.899	1261.486	1406.639	1537.067	1691.181	1748.971	1657.959	1480.748
<b>75.0</b>	247.847	320.031	398.491	526.970	452.394	295.802	209.986	320.613	515.860	623.146
<b>77.5</b>	146.465	156.544	166.062	138.376	146.951	156.948	163.134	162.341	154.703	144.842
<b>80.0</b>	87.991	84.350	84.369	96.758	104.010	110.279	116.283	116.130	109.263	100.951
<b>82.5</b>	51.780	48.771	52.274	57.942	65.588	66.475	69.431	70.700	68.352	59.654
<b>85.0</b>	25.764	27.384	30.051	31.778	31.997	28.278	22.579	28.772	33.320	32.682
<b>87.5</b>	11.073	11.906	13.072	15.223	15.433	11.981	11.290	12.770	15.566	15.879
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.  
Angles**

**Horizontal Angles**

	<u><b>100.0</b></u>	<u><b>102.5</b></u>	<u><b>105.0</b></u>	<u><b>107.5</b></u>	<u><b>110.0</b></u>	<u><b>112.5</b></u>	<u><b>115.0</b></u>	<u><b>117.5</b></u>	<u><b>120.0</b></u>	<u><b>122.5</b></u>
<b>0.0</b>	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548
<b>2.5</b>	2005.998	2005.249	2004.502	2003.757	2003.018	2001.995	2001.752	2001.366	2000.982	2000.603

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**CANDELA TABULATION - (Cont.)**

5.0	2008.559	2006.734	2005.898	2005.049	2004.189	2003.321	2002.445	2001.563	2000.678	1999.790
7.5	2023.221	2021.018	2018.749	2016.434	2013.711	2011.907	2011.476	2011.984	2012.390	2012.693
10.0	2046.926	2043.083	2038.976	2034.987	2034.949	2034.637	2033.309	2033.981	2034.289	2036.454
12.5	2082.807	2077.793	2075.443	2075.289	2074.572	2073.277	2073.779	2073.276	2076.038	2077.448
15.0	2138.944	2135.125	2134.658	2133.414	2133.142	2134.807	2135.433	2135.111	2135.236	2136.240
17.5	2223.711	2217.864	2218.152	2217.990	2219.177	2219.068	2218.875	2217.106	2210.503	2208.872
20.0	2340.270	2334.148	2333.466	2335.244	2334.829	2333.589	2330.368	2322.901	2312.243	2301.139
22.5	2493.111	2489.278	2489.095	2486.510	2483.270	2476.876	2463.708	2448.122	2425.726	2404.409
25.0	2686.871	2682.350	2676.797	2669.999	2659.362	2639.377	2612.915	2587.020	2555.755	2510.338
27.5	2946.341	2933.521	2915.880	2893.908	2861.117	2828.450	2791.255	2742.809	2682.991	2612.730
30.0	3273.367	3237.268	3200.387	3168.272	3127.027	3069.086	2995.918	2910.631	2810.905	2723.771
32.5	3718.687	3663.142	3596.178	3519.496	3424.748	3318.354	3203.598	3085.370	2971.209	2860.723
35.0	4205.995	4096.309	3977.742	3852.822	3717.479	3569.148	3406.733	3252.830	3110.365	3005.291
37.5	4696.881	4514.760	4322.558	4134.629	3940.703	3744.548	3555.231	3374.522	3235.427	3113.019
40.0	4949.644	4767.563	4563.271	4340.191	4099.224	3867.439	3651.626	3477.576	3316.900	3188.118
42.5	5126.265	4941.245	4726.337	4492.851	4242.612	3985.919	3750.592	3553.089	3396.185	3244.356
45.0	5453.430	5202.454	4933.554	4655.241	4400.184	4143.499	3892.527	3660.770	3436.205	3252.638
47.5	5832.822	5545.462	5254.717	4953.931	4634.119	4304.244	3999.794	3723.618	3466.644	3243.997
50.0	6370.629	5968.820	5587.347	5252.412	4885.342	4486.559	4087.328	3720.455	3437.057	3200.289
52.5	6978.624	6484.528	6008.345	5531.579	5046.625	4555.464	4077.569	3683.646	3355.097	3102.467
55.0	7523.344	6910.703	6304.085	5687.793	5069.190	4462.102	3960.515	3545.732	3221.388	2957.664
57.5	7346.205	6999.095	6450.514	5674.202	4903.359	4238.889	3693.342	3291.460	2978.371	2653.034
60.0	6426.405	6000.185	5591.474	5171.751	4582.398	3846.167	3243.306	2775.978	2457.112	2230.497
62.5	5442.987	4939.159	4473.994	4010.664	3586.786	3202.954	2485.703	1957.071	1696.728	1508.784
65.0	4384.406	3821.750	3338.804	2759.708	2457.297	2001.054	1383.189	1122.306	926.265	897.960
67.5	3242.315	2688.827	2018.490	1736.530	1424.179	957.489	713.886	465.357	547.850	542.958
70.0	2145.692	1570.818	1027.805	888.222	634.155	486.004	385.401	363.026	349.988	327.683
72.5	1247.662	768.673	574.045	376.881	340.763	306.567	281.434	266.434	265.022	258.939
75.0	470.834	392.376	270.338	251.105	227.361	199.383	201.200	200.419	197.482	192.193
77.5	188.052	167.787	164.880	150.915	142.337	142.252	142.254	139.350	137.334	135.586
80.0	86.508	89.325	91.587	95.177	95.143	92.765	93.616	92.746	90.126	86.141
82.5	54.127	50.926	54.820	56.994	57.830	56.987	54.820	50.863	46.621	45.986
85.0	31.444	29.291	28.266	28.497	28.096	28.986	29.143	28.207	27.057	25.748
87.5	14.270	13.654	13.352	13.748	13.467	12.735	11.661	9.812	7.867	6.800
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Horizontal Angles**

	<u>125.0</u>	<u>127.5</u>	<u>130.0</u>	<u>132.5</u>	<u>135.0</u>	<u>137.5</u>	<u>140.0</u>	<u>142.5</u>	<u>145.0</u>	<u>147.5</u>
0.0	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548
2.5	2000.227	1999.856	1999.491	1999.132	1998.780	1998.436	1998.100	1997.773	1997.455	1997.148
5.0	1998.901	1998.370	1998.713	1998.989	1999.196	1999.334	1999.403	1999.287	1999.655	1999.993
7.5	2012.893	2012.989	2012.981	2013.243	2014.094	2014.461	2015.768	2016.744	2017.589	2018.299
10.0	2038.176	2039.441	2040.239	2040.564	2040.110	2041.952	2043.151	2044.010	2044.531	2044.719
12.5	2078.880	2080.109	2080.718	2080.701	2081.840	2078.975	2076.342	2073.435	2070.261	2067.990
15.0	2136.275	2133.841	2129.051	2123.376	2119.512	2113.276	2104.436	2094.219	2088.207	2081.045
17.5	2203.533	2196.576	2183.954	2169.955	2157.402	2143.219	2124.561	2108.430	2092.924	2077.101
20.0	2285.086	2267.332	2245.805	2219.585	2194.027	2167.665	2137.088	2109.423	2081.871	2057.686
22.5	2376.116	2340.393	2300.820	2263.987	2223.494	2182.842	2149.346	2116.069	2085.429	2057.804
25.0	2463.085	2400.049	2353.873	2306.145	2259.813	2215.920	2178.852	2155.795	2135.644	2113.378
27.5	2540.396	2479.121	2420.138	2361.060	2327.597	2299.733	2269.791	2242.559	2217.829	2195.847
30.0	2644.748	2565.983	2512.137	2477.419	2440.626	2407.130	2379.096	2350.531	2321.239	2286.343
32.5	2770.251	2706.123	2652.796	2604.903	2562.344	2528.856	2486.149	2440.951	2398.629	2357.045
35.0	2918.521	2844.372	2783.362	2732.466	2667.346	2606.245	2555.222	2506.961	2428.340	2351.543
37.5	3024.149	2945.401	2864.414	2785.597	2717.028	2638.483	2548.091	2462.837	2382.434	2301.520
40.0	3084.347	2979.184	2883.893	2789.704	2688.667	2589.954	2496.319	2392.801	2287.789	2188.223

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**CANDELA TABULATION - (Cont.)**

42.5	3098.699	2975.364	2857.298	2745.142	2635.702	2515.271	2394.183	2278.417	2165.511	2059.835
45.0	3093.736	2944.141	2806.235	2673.700	2541.191	2411.959	2282.438	2150.267	2022.917	1903.056
47.5	3056.944	2892.956	2728.572	2575.319	2434.274	2278.699	2131.195	1994.319	1866.117	1738.354
50.0	2990.976	2799.465	2626.924	2446.546	2276.380	2116.598	1964.220	1782.141	1613.562	1462.545
52.5	2884.878	2667.064	2461.657	2275.066	2094.914	1867.875	1660.067	1473.963	1310.275	1170.390
55.0	2694.432	2457.548	2252.328	1991.917	1745.897	1524.991	1327.305	1176.604	1045.944	932.896
57.5	2401.092	2121.972	1830.264	1588.143	1379.793	1196.707	1038.886	900.085	781.565	680.765
60.0	1882.667	1600.158	1373.984	1192.899	1031.666	866.527	724.053	602.254	499.079	465.699
62.5	1284.322	1126.898	973.298	803.312	648.698	508.655	467.609	453.937	437.839	423.732
65.0	857.184	713.424	554.311	440.536	429.593	422.206	410.350	401.346	390.044	379.982
67.5	458.257	384.551	376.026	367.378	359.374	354.675	349.723	344.825	339.765	333.165
70.0	320.403	313.466	304.710	294.756	287.052	285.420	286.031	286.571	287.915	282.933
72.5	251.290	243.835	235.555	223.703	219.575	225.381	231.527	233.988	236.201	231.491
75.0	183.334	181.334	179.441	174.625	170.250	173.387	179.078	182.138	183.774	180.276
77.5	132.845	130.532	128.705	125.357	121.446	122.362	127.523	130.919	131.934	130.582
80.0	82.514	80.334	78.538	78.384	78.654	81.054	87.514	92.408	94.301	93.990
82.5	46.183	48.404	50.101	51.046	50.594	50.926	54.653	57.541	57.921	57.296
85.0	24.565	24.774	24.608	24.088	22.869	21.804	22.665	23.121	21.935	20.520
87.5	5.897	5.558	5.265	5.010	4.787	4.607	5.170	5.690	5.511	5.353
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.  
Angles**

**Horizontal Angles**

	<u>150.0</u>	<u>152.5</u>	<u>155.0</u>	<u>157.5</u>	<u>160.0</u>	<u>162.5</u>	<u>165.0</u>	<u>167.5</u>	<u>170.0</u>	<u>172.5</u>
0.0	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548	2009.548
2.5	1996.851	1996.566	1996.229	1996.114	1996.053	1996.000	1995.958	1995.927	1995.908	1995.905
5.0	2000.325	2000.649	2000.960	2001.258	2001.539	2001.799	2002.036	2002.241	2002.774	2002.774
7.5	2018.875	2019.315	2019.619	2020.683	2020.826	2021.471	2022.018	2022.459	2022.787	2023.016
10.0	2044.621	2045.022	2044.718	2043.700	2042.572	2041.366	2041.908	2042.367	2042.744	2043.038
12.5	2065.862	2062.407	2057.755	2053.812	2050.629	2047.387	2044.109	2042.456	2041.990	2041.627
15.0	2072.936	2062.851	2054.413	2046.162	2037.403	2031.688	2025.603	2019.678	2016.343	2014.459
17.5	2060.592	2045.163	2030.156	2017.195	2006.142	1995.801	1986.200	1980.420	1974.084	1970.847
20.0	2038.194	2016.973	2003.159	1988.581	1975.609	1965.394	1954.978	1948.316	1943.452	1940.687
22.5	2034.768	2023.330	2009.735	1998.626	1988.386	1979.128	1971.846	1964.681	1959.221	1953.852
25.0	2093.628	2073.140	2058.240	2043.240	2031.515	2020.814	2012.530	2004.543	1998.114	1991.540
27.5	2174.147	2153.397	2131.780	2109.517	2082.769	2068.182	2051.744	2039.801	2028.519	2018.819
30.0	2250.678	2216.099	2183.557	2150.818	2126.488	2102.860	2077.697	2053.813	2034.415	2019.101
32.5	2315.968	2255.580	2195.109	2144.241	2099.348	2063.152	2030.783	2002.897	1984.817	1970.407
35.0	2278.377	2212.776	2153.081	2098.928	2041.257	1992.613	1950.059	1912.173	1888.015	1869.837
37.5	2212.186	2126.121	2048.564	1979.576	1919.000	1866.942	1822.432	1788.846	1763.922	1747.152
40.0	2092.886	2002.976	1922.267	1849.270	1785.463	1730.049	1687.119	1652.184	1625.544	1608.470
42.5	1956.004	1861.924	1776.642	1698.730	1636.665	1581.418	1540.071	1509.925	1483.181	1467.936
45.0	1798.593	1703.206	1622.089	1538.860	1461.628	1397.813	1347.115	1313.555	1280.811	1262.968
47.5	1600.396	1480.017	1379.398	1294.573	1227.085	1169.728	1124.966	1094.763	1066.405	1049.933
50.0	1329.912	1215.207	1115.707	1040.948	998.338	954.978	921.295	896.226	874.367	859.377
52.5	1070.080	980.597	901.161	842.645	797.470	759.562	728.530	705.155	686.314	671.492
55.0	838.111	757.064	689.952	636.938	595.059	560.761	533.952	513.191	497.202	483.770
57.5	595.683	523.276	467.515	453.018	447.904	441.057	438.391	436.658	435.283	433.560
60.0	449.609	433.289	421.840	415.167	410.795	405.013	401.884	400.390	398.601	397.117
62.5	408.982	394.955	383.288	377.281	373.104	368.996	365.514	364.250	362.011	360.465
65.0	367.121	355.204	344.269	339.102	335.272	332.420	329.260	327.819	325.504	323.624
67.5	324.115	313.664	304.970	299.604	296.058	293.543	290.964	289.282	287.901	284.946
70.0	276.498	268.819	262.116	257.758	255.165	253.372	251.455	250.249	249.923	246.293
72.5	226.558	222.181	218.376	215.618	214.023	213.268	211.630	211.284	211.758	207.897
75.0	175.360	174.488	173.885	173.229	172.674	173.217	171.544	172.375	173.443	169.525
77.5	127.252	129.668	131.719	132.487	132.342	133.186	131.383	132.213	132.350	129.234

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**CANDELA TABULATION - (Cont.)**

<b>80.0</b>	91.143	91.904	93.033	93.236	92.740	92.868	91.384	91.816	91.157	88.728
<b>82.5</b>	54.959	54.507	54.540	54.069	53.227	52.758	51.512	51.390	50.088	48.130
<b>85.0</b>	18.713	17.366	16.179	14.957	13.767	12.718	11.728	10.941	7.860	6.774
<b>87.5</b>	5.214	5.090	4.982	4.888	4.805	4.735	4.675	4.626	4.007	3.416
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.  
Angles**

**Horizontal Angles**

	<u><b>175.0</b></u>	<u><b>177.5</b></u>	<u><b>180.0</b></u>
<b>0.0</b>	2009.548	2009.548	2009.548
<b>2.5</b>	1995.918	1995.950	1996.001
<b>5.0</b>	2002.774	2002.774	2002.774
<b>7.5</b>	2023.374	2023.589	2023.660
<b>10.0</b>	2043.249	2043.375	2043.417
<b>12.5</b>	2041.367	2041.211	2041.159
<b>15.0</b>	2012.136	2011.806	2011.806
<b>17.5</b>	1968.134	1966.313	1965.744
<b>20.0</b>	1939.732	1938.420	1936.542
<b>22.5</b>	1950.442	1946.228	1944.068
<b>25.0</b>	1989.334	1987.375	1987.345
<b>27.5</b>	2013.314	2010.481	2010.193
<b>30.0</b>	2008.148	2002.876	1999.952
<b>32.5</b>	1959.650	1954.964	1947.738
<b>35.0</b>	1856.883	1849.944	1840.957
<b>37.5</b>	1736.903	1728.486	1720.534
<b>40.0</b>	1597.251	1589.852	1579.414
<b>42.5</b>	1456.573	1448.104	1438.294
<b>45.0</b>	1248.608	1239.381	1224.921
<b>47.5</b>	1037.332	1026.047	1011.548
<b>50.0</b>	848.226	840.394	829.409
<b>52.5</b>	660.067	652.630	647.270
<b>55.0</b>	471.838	462.873	465.131
<b>57.5</b>	430.305	428.471	430.698
<b>60.0</b>	394.967	393.678	396.265
<b>62.5</b>	359.553	358.853	361.831
<b>65.0</b>	322.882	323.711	327.398
<b>67.5</b>	284.148	284.260	287.885
<b>70.0</b>	244.021	244.501	248.371
<b>72.5</b>	203.849	204.764	208.858
<b>75.0</b>	162.763	164.828	169.344
<b>77.5</b>	124.443	125.183	127.573
<b>80.0</b>	85.298	85.342	85.801
<b>82.5</b>	46.176	45.517	44.030
<b>85.0</b>	6.774	5.624	2.258
<b>87.5</b>	3.400	2.823	1.129
<b>90.0</b>	0.000	0.000	0.000



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VF2-L106-750-HS\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	799.32	N.A.	8.00
0-30	1918.27	N.A.	19.20
0-40	3699.16	N.A.	37.10
0-60	8304.12	N.A.	83.20
0-80	9946.73	N.A.	99.70
0-90	9980.92	N.A.	100.00
10-90	9786.3	N.A.	98.10
20-40	2899.84	N.A.	29.10
20-50	5126.7	N.A.	51.40
40-70	5947.85	N.A.	59.60
60-80	1642.62	N.A.	16.50
70-80	299.72	N.A.	3.00
80-90	34.19	N.A.	0.30
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	9980.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	194.62
10-20	604.70
20-30	1118.95
30-40	1780.9
40-50	2226.86
50-60	2378.1
60-70	1342.9
70-80	299.72
80-90	34.19
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

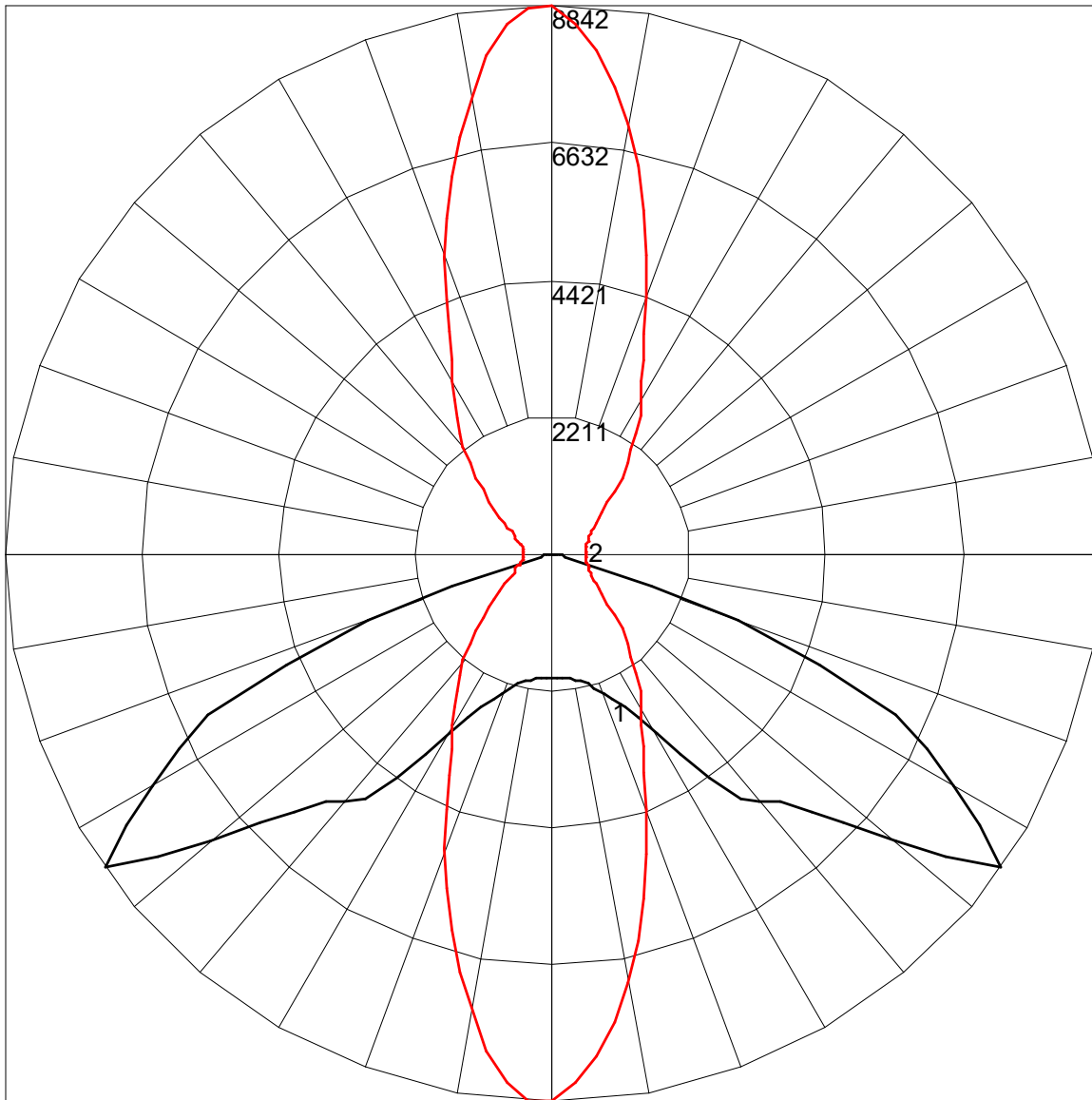
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VF2-L106-750-HS\_.IES**

**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	10	0
0	223	223	223	223	218	218	218	218	208	208	208	199	199	199	191	191	191	187
1	205	196	189	182	200	192	185	179	184	178	173	177	172	168	170	166	163	159
2	186	170	158	147	181	167	155	145	160	150	142	154	146	139	148	142	136	131
3	168	148	132	120	163	145	131	119	139	127	117	134	124	115	129	120	113	109
4	152	129	112	99	148	127	111	99	122	108	97	118	106	96	113	103	95	90
5	139	114	96	83	135	112	95	83	108	93	82	104	91	81	100	89	80	76
6	127	101	84	71	123	99	83	71	96	81	70	92	79	69	89	78	69	65
7	117	90	73	61	113	89	72	61	86	71	60	83	70	60	80	68	59	55
8	108	81	65	53	105	80	64	53	77	63	53	75	62	52	73	61	52	48
9	100	74	58	47	97	73	57	47	70	56	46	68	55	46	66	54	46	42
10	93	67	52	41	91	66	51	41	64	51	41	63	50	41	61	49	41	37

POLAR GRAPH



Maximum Candela = 8842.054 Located At Horizontal Angle = 92.5, Vertical Angle = 55  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (55) (Through Max. Cd.)