



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : VF2-L106-740-HS\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from ATAL009604-R2

[TESTLAB]ATAL-LABS

[ISSUE DATE]16 DEC 2022

[MANUFAC]WILLIAMS OUTDOOR

[OTHER]H.E. WILLIAMS, INC. - CARTHAGE, MO.

[LUMCAT]VF2-L106-740-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.

[LAMPCAT]LUXEON TX 4000K LEDS

[BALLAST](1) PHILIPS ELECTRONIC DRIVER

[OTHER]INPUT WATTS: 98, 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	9581
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
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	45285	93891	232639
55	26053	68588	428556
65	25553	27956	403653
75	22318	18074	22561
85	0	6591	7204

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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>	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986
<b>2.5</b>	1951.744	1951.718	1951.641	1951.512	1951.332	1951.102	1950.821	1950.491	1950.112	1949.684
<b>5.0</b>	1976.669	1976.623	1976.484	1976.254	1975.932	1975.519	1975.622	1975.447	1975.161	1974.761
<b>7.5</b>	1985.880	1985.903	1985.972	1986.087	1986.957	1987.902	1988.856	1989.811	1990.884	1991.191
<b>10.0</b>	1974.501	1974.562	1974.743	1975.869	1977.500	1979.284	1981.229	1983.345	1986.604	1989.981
<b>12.5</b>	1963.123	1963.160	1963.272	1964.801	1966.222	1967.709	1969.821	1972.876	1976.067	1979.407
<b>15.0</b>	1965.832	1965.802	1966.039	1966.643	1967.253	1968.737	1971.803	1974.682	1976.956	1981.987
<b>17.5</b>	1995.742	1997.361	1998.075	1998.001	1997.244	1998.217	1999.037	2001.341	2005.327	2008.648
<b>20.0</b>	2046.387	2049.180	2050.699	2051.335	2052.850	2054.123	2056.101	2060.634	2063.248	2068.077
<b>22.5</b>	2091.541	2091.219	2095.121	2098.403	2103.428	2107.899	2114.810	2121.632	2130.219	2139.897
<b>25.0</b>	2089.734	2089.749	2095.814	2102.520	2114.127	2126.427	2141.886	2158.032	2176.823	2197.076
<b>27.5</b>	2038.594	2043.387	2049.173	2059.458	2075.948	2097.315	2121.850	2151.096	2180.137	2221.911
<b>30.0</b>	1961.497	1969.396	1974.564	1986.809	2004.744	2031.541	2063.019	2097.734	2131.029	2166.824
<b>32.5</b>	1863.964	1871.851	1876.423	1888.048	1905.232	1929.592	1959.853	1994.351	2031.784	2083.067
<b>35.0</b>	1750.055	1757.825	1761.715	1773.278	1790.477	1813.628	1843.908	1877.244	1917.381	1974.460
<b>37.5</b>	1632.052	1639.239	1641.466	1651.469	1665.820	1686.662	1714.365	1748.888	1795.064	1849.305
<b>40.0</b>	1478.167	1485.015	1487.285	1497.609	1515.010	1538.917	1568.846	1605.528	1657.374	1712.856
<b>42.5</b>	1324.281	1330.226	1331.089	1339.794	1359.278	1382.665	1408.910	1445.475	1493.530	1543.091
<b>45.0</b>	1105.374	1112.592	1116.181	1126.942	1149.763	1176.841	1205.913	1249.338	1300.548	1364.419
<b>47.5</b>	886.467	894.425	898.060	907.072	927.617	950.262	974.033	1007.395	1047.885	1104.557
<b>50.0</b>	762.925	768.661	769.765	773.793	783.881	794.633	804.581	815.299	828.412	845.998
<b>52.5</b>	639.383	643.954	645.747	649.152	656.629	666.974	678.132	689.996	703.816	725.401
<b>55.0</b>	515.841	519.287	521.896	523.712	529.029	539.810	552.251	564.967	578.660	599.925
<b>57.5</b>	480.079	481.767	480.990	478.155	477.609	480.364	482.357	483.306	482.563	484.979
<b>60.0</b>	444.317	445.116	443.566	440.961	441.306	444.212	445.066	446.159	444.520	445.975
<b>62.5</b>	408.555	408.435	406.086	403.949	405.090	407.993	407.630	407.978	406.295	406.437
<b>65.0</b>	372.793	371.727	368.557	367.101	368.952	371.052	370.298	370.073	367.621	366.881
<b>67.5</b>	329.445	329.250	325.736	324.386	327.329	327.359	326.989	326.762	325.060	324.854
<b>70.0</b>	286.097	286.747	282.699	281.229	284.410	281.953	280.676	280.060	278.450	277.193
<b>72.5</b>	242.749	244.265	239.636	238.372	241.088	236.627	233.959	233.744	231.927	229.028
<b>75.0</b>	199.401	201.800	196.557	195.534	197.441	191.370	186.916	187.748	185.487	180.454
<b>77.5</b>	149.551	151.797	148.025	148.257	149.441	145.500	142.120	143.205	141.384	135.918
<b>80.0</b>	99.701	101.763	99.463	100.636	101.336	99.626	98.299	98.824	98.482	95.135
<b>82.5</b>	49.850	51.735	50.973	52.924	53.471	53.826	54.809	54.801	55.975	54.780
<b>85.0</b>	0.000	1.710	2.534	5.149	5.775	8.068	11.540	10.920	13.730	14.723
<b>87.5</b>	0.000	0.812	1.088	2.186	2.201	3.046	4.480	3.628	4.613	4.692
<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>	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986
<b>2.5</b>	1949.208	1948.853	1948.388	1947.876	1947.318	1946.715	1946.068	1945.378	1944.646	1943.874
<b>5.0</b>	1974.247	1973.615	1972.866	1972.000	1971.015	1969.846	1969.612	1968.990	1968.227	1967.325
<b>7.5</b>	1991.675	1992.552	1993.374	1994.144	1994.864	1995.535	1996.157	1996.366	1998.054	1998.537
<b>10.0</b>	1994.054	1996.410	1998.928	2003.068	2007.324	2011.607	2015.913	2020.237	2024.003	2027.632
<b>12.5</b>	1983.711	1988.958	1994.771	2001.198	2008.349	2016.823	2025.282	2033.709	2041.597	2048.735
<b>15.0</b>	1986.067	1989.814	1995.336	2004.035	2013.026	2021.094	2033.893	2045.288	2057.341	2069.774
<b>17.5</b>	2012.398	2016.664	2019.846	2025.577	2036.810	2047.338	2057.908	2069.728	2085.301	2100.942
<b>20.0</b>	2072.910	2074.345	2081.464	2083.084	2093.694	2104.204	2112.422	2120.578	2138.172	2153.879
<b>22.5</b>	2149.666	2160.508	2168.810	2182.181	2191.247	2199.888	2207.895	2214.154	2227.226	2239.126
<b>25.0</b>	2220.590	2243.452	2259.548	2274.881	2291.817	2306.979	2324.362	2336.241	2346.147	2356.850
<b>27.5</b>	2255.864	2283.929	2312.924	2344.292	2376.558	2409.941	2429.823	2450.966	2471.889	2493.877
<b>30.0</b>	2215.243	2264.277	2316.303	2371.266	2421.478	2459.036	2498.929	2541.026	2581.188	2609.216

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**CANDELA TABULATION - (Cont.)**

32.5	2142.362	2204.037	2269.886	2329.561	2389.995	2454.076	2522.898	2585.014	2634.360	2691.795
35.0	2032.343	2094.549	2163.859	2240.370	2321.065	2410.393	2480.060	2556.823	2640.446	2725.033
37.5	1907.183	1971.297	2044.230	2125.281	2211.760	2302.817	2397.751	2496.702	2591.685	2680.954
40.0	1773.312	1838.834	1916.661	2001.443	2093.503	2191.496	2294.263	2398.013	2503.949	2611.522
42.5	1608.980	1684.811	1770.499	1868.128	1965.281	2066.736	2174.333	2288.952	2408.121	2524.005
45.0	1437.991	1511.115	1594.775	1688.960	1799.598	1918.303	2047.170	2165.769	2291.821	2424.638
47.5	1181.326	1271.513	1373.668	1498.072	1615.777	1733.166	1861.370	2005.700	2163.547	2304.686
50.0	904.732	985.051	1077.145	1197.645	1336.126	1490.034	1659.551	1807.888	1967.776	2135.537
52.5	760.044	793.492	836.401	890.435	1005.580	1153.960	1331.344	1529.255	1738.430	1910.895
55.0	627.364	657.112	699.088	750.223	812.419	888.415	987.214	1162.174	1358.027	1582.748
57.5	491.314	518.154	555.906	602.441	658.201	727.315	811.279	892.924	985.567	1148.621
60.0	447.631	452.539	461.310	472.846	493.173	549.679	616.686	690.180	774.569	855.155
62.5	407.920	412.806	419.913	429.040	437.201	446.800	453.617	475.342	548.577	627.738
65.0	368.278	372.081	376.808	382.969	387.410	392.801	395.670	401.506	407.851	416.927
67.5	327.007	330.459	332.152	334.236	335.803	335.806	335.382	337.691	342.196	348.484
70.0	277.673	279.839	281.845	282.576	282.623	277.649	272.985	272.872	275.279	280.281
72.5	228.008	228.823	230.205	229.607	228.734	223.902	219.136	215.227	212.027	214.404
75.0	178.068	177.752	178.465	176.707	174.846	171.421	167.578	163.485	161.477	164.363
77.5	132.671	130.858	129.468	125.416	121.936	120.024	116.538	112.274	111.800	115.119
80.0	93.000	92.063	91.414	89.420	86.752	83.592	78.543	72.257	69.576	68.916
82.5	53.543	53.510	53.934	54.073	53.010	51.330	48.710	45.457	44.571	44.311
85.0	14.243	15.125	16.847	19.174	19.691	19.547	19.784	19.709	19.831	20.003
87.5	3.796	3.664	4.056	4.967	4.714	4.109	4.242	4.407	3.846	3.225
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	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986
2.5	1943.063	1942.216	1941.332	1940.415	1939.466	1938.486	1936.859	1936.536	1935.697	1934.840
5.0	1966.285	1964.557	1963.803	1962.367	1960.806	1959.124	1957.327	1955.420	1953.408	1951.300
7.5	1998.469	1997.210	1995.747	1994.083	1992.222	1990.166	1987.919	1985.365	1982.020	1979.551
10.0	2029.260	2030.618	2031.702	2032.512	2032.794	2030.728	2026.956	2025.069	2021.897	2017.840
12.5	2056.508	2063.847	2070.741	2075.163	2076.586	2076.276	2079.036	2078.626	2074.856	2070.192
15.0	2084.104	2097.858	2109.323	2118.353	2126.658	2136.053	2139.500	2141.451	2142.387	2139.191
17.5	2117.952	2135.533	2153.599	2171.043	2184.739	2201.682	2213.523	2222.605	2224.227	2224.198
20.0	2169.155	2191.321	2214.310	2236.535	2260.358	2284.848	2305.563	2320.141	2332.865	2335.640
22.5	2249.171	2274.890	2297.229	2322.780	2350.579	2380.335	2410.548	2439.029	2457.913	2474.200
25.0	2369.201	2379.919	2403.201	2432.248	2458.994	2493.185	2526.223	2567.622	2604.490	2628.320
27.5	2510.212	2525.528	2541.968	2565.450	2596.943	2635.760	2678.663	2724.012	2770.696	2818.614
30.0	2637.458	2674.117	2699.420	2725.439	2759.302	2808.396	2869.374	2932.349	2996.907	3053.129
32.5	2749.579	2791.067	2841.934	2895.305	2947.519	3006.930	3073.927	3159.826	3253.182	3350.012
35.0	2791.141	2866.383	2940.050	3014.540	3100.460	3183.280	3281.671	3393.037	3510.801	3634.030
37.5	2775.489	2869.228	2965.122	3072.626	3178.064	3302.401	3424.714	3559.014	3704.856	3861.271
40.0	2717.616	2826.100	2939.338	3059.244	3199.922	3345.090	3502.203	3662.374	3841.335	4036.700
42.5	2643.499	2765.565	2888.729	3023.213	3174.978	3347.847	3534.336	3749.092	3964.547	4176.837
45.0	2560.599	2690.095	2824.410	2966.356	3128.569	3337.208	3581.741	3827.414	4075.413	4313.300
47.5	2448.278	2600.013	2747.985	2907.732	3089.831	3308.742	3563.464	3883.360	4224.147	4565.453
50.0	2320.461	2477.252	2651.290	2840.077	3028.466	3241.807	3542.740	3913.510	4346.373	4769.419
52.5	2097.044	2300.973	2513.814	2714.145	2940.187	3164.154	3448.384	3853.178	4343.901	4877.654
55.0	1825.745	2016.286	2257.786	2525.526	2744.011	3008.432	3307.911	3687.856	4228.367	4865.878
57.5	1371.387	1628.760	1884.417	2142.317	2461.008	2663.038	2997.742	3440.118	3989.698	4703.193
60.0	943.943	1108.971	1354.521	1669.751	1836.234	1974.056	2292.250	2973.275	3630.510	4160.739
62.5	708.559	748.062	770.459	986.481	1116.858	1183.869	1395.328	1916.789	2738.241	3066.129
65.0	468.454	523.058	559.109	577.754	608.399	627.450	551.938	1000.955	1528.332	2135.579
67.5	352.179	355.415	379.607	410.942	419.775	404.404	418.357	444.595	785.175	1165.808

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**CANDELA TABULATION - (Cont.)**

<b>70.0</b>	285.443	289.196	290.543	291.007	300.231	314.201	330.439	350.695	390.900	595.827
<b>72.5</b>	221.316	225.607	228.400	230.146	231.267	233.079	245.167	260.893	277.289	330.498
<b>75.0</b>	167.299	168.182	169.415	172.911	175.598	177.859	179.544	180.547	195.248	206.390
<b>77.5</b>	117.705	118.938	120.359	122.132	123.985	125.475	127.839	129.281	130.801	135.016
<b>80.0</b>	68.933	70.602	72.399	75.750	79.815	82.519	83.479	82.807	86.010	86.993
<b>82.5</b>	43.075	41.174	38.728	38.505	39.237	43.548	47.564	49.911	51.150	50.928
<b>85.0</b>	20.262	20.235	19.821	20.906	22.163	23.304	24.288	24.287	23.669	24.415
<b>87.5</b>	3.369	3.557	3.774	4.514	5.398	7.141	8.829	9.807	10.505	10.841
<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. Horizontal Angles**  
**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>	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986
<b>2.5</b>	1933.964	1933.074	1932.169	1931.251	1930.324	1929.387	1928.444	1927.732	1927.016	1926.298
<b>5.0</b>	1949.100	1945.810	1944.871	1943.142	1941.360	1939.530	1937.655	1935.267	1932.856	1930.440
<b>7.5</b>	1976.367	1972.961	1969.347	1965.550	1961.813	1957.936	1953.911	1950.805	1947.565	1944.070
<b>10.0</b>	2014.115	2009.399	2004.241	1998.676	1993.130	1988.294	1983.171	1977.797	1972.212	1968.307
<b>12.5</b>	2064.694	2058.372	2051.425	2043.993	2036.089	2029.180	2022.184	2014.769	2007.762	2003.733
<b>15.0</b>	2133.168	2126.237	2118.455	2109.782	2100.203	2090.489	2080.704	2073.072	2066.162	2060.001
<b>17.5</b>	2220.727	2211.250	2207.866	2205.372	2202.549	2197.245	2187.773	2171.958	2158.999	2146.290
<b>20.0</b>	2334.870	2330.566	2326.423	2321.592	2318.922	2313.355	2302.501	2285.574	2271.964	2254.700
<b>22.5</b>	2478.706	2479.430	2473.206	2461.716	2452.087	2437.215	2425.320	2415.284	2405.892	2394.792
<b>25.0</b>	2647.306	2654.557	2656.715	2651.396	2642.710	2630.401	2620.387	2608.838	2596.595	2585.933
<b>27.5</b>	2851.839	2876.522	2892.114	2896.913	2895.595	2889.041	2881.094	2869.603	2856.094	2843.066
<b>30.0</b>	3098.927	3141.905	3178.917	3205.015	3219.334	3224.955	3223.465	3213.272	3195.558	3171.766
<b>32.5</b>	3437.160	3507.461	3564.789	3609.744	3637.951	3654.932	3663.718	3659.081	3641.496	3610.545
<b>35.0</b>	3753.142	3862.763	3957.899	4045.831	4121.200	4180.698	4220.891	4224.483	4194.557	4129.290
<b>37.5</b>	4028.134	4187.881	4335.636	4477.503	4611.633	4725.842	4807.293	4822.921	4776.753	4664.454
<b>40.0</b>	4227.771	4401.459	4552.424	4687.749	4814.999	4926.210	5011.029	5032.663	4996.499	4895.882
<b>42.5</b>	4376.655	4557.277	4718.963	4859.998	4997.383	5120.167	5214.764	5235.809	5190.926	5078.264
<b>45.0</b>	4573.547	4813.978	5027.646	5219.822	5398.193	5559.081	5678.588	5700.301	5626.810	5453.979
<b>47.5</b>	4884.631	5166.857	5406.228	5617.193	5814.084	6000.408	6142.411	6170.623	6071.032	5861.229
<b>50.0</b>	5166.421	5535.918	5876.492	6191.773	6481.688	6741.011	6923.398	6944.290	6785.987	6492.167
<b>52.5</b>	5400.444	5897.644	6360.962	6778.584	7159.199	7479.697	7704.384	7717.070	7524.439	7158.850
<b>55.0</b>	5518.458	6159.968	6762.889	7314.452	7824.525	8208.873	8485.371	8487.579	8252.828	7792.355
<b>57.5</b>	5503.796	6101.158	6492.038	6856.008	7214.217	7550.223	7836.234	7891.860	7736.988	7416.030
<b>60.0</b>	4656.162	5116.651	5556.248	5989.402	6424.151	6836.490	7187.098	7252.407	7033.239	6615.614
<b>62.5</b>	3586.800	4138.811	4590.350	5081.904	5605.504	6109.338	6537.962	6613.233	6298.497	5765.980
<b>65.0</b>	2334.708	3129.509	3607.443	4137.474	4746.584	5360.165	5888.825	5959.882	5523.100	4853.027
<b>67.5</b>	1473.294	1856.443	2627.921	3094.880	3577.900	4042.999	4467.011	4541.708	4215.067	3688.360
<b>70.0</b>	778.829	986.924	1747.626	2083.828	2412.004	2733.585	3045.197	3103.172	2852.090	2472.920
<b>72.5</b>	442.667	597.600	739.993	1210.914	1350.247	1475.447	1623.382	1678.856	1591.492	1421.385
<b>75.0</b>	237.911	307.201	382.516	505.844	434.257	283.943	201.568	307.759	495.180	598.164
<b>77.5</b>	140.593	150.269	159.404	132.828	141.060	150.656	156.595	155.833	148.501	139.036
<b>80.0</b>	84.463	80.968	80.987	92.879	99.841	105.858	111.621	111.475	104.883	96.903
<b>82.5</b>	49.704	46.815	50.178	55.620	62.959	63.810	66.648	67.866	65.613	57.262
<b>85.0</b>	24.731	26.286	28.846	30.504	30.714	27.145	21.674	27.619	31.984	31.372
<b>87.5</b>	10.629	11.429	12.548	14.613	14.814	11.501	10.837	12.259	14.941	15.242
<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. Horizontal Angles**  
**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>	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986
<b>2.5</b>	1925.578	1924.859	1924.142	1923.428	1922.718	1921.736	1921.502	1921.132	1920.764	1920.399

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**CANDELA TABULATION - (Cont.)**

5.0	1928.036	1926.285	1925.482	1924.667	1923.842	1923.008	1922.167	1921.321	1920.471	1919.619
7.5	1942.110	1939.995	1937.818	1935.596	1932.982	1931.250	1930.836	1931.324	1931.714	1932.005
10.0	1964.865	1961.176	1957.234	1953.405	1953.369	1953.070	1951.795	1952.439	1952.735	1954.813
12.5	1999.308	1994.495	1992.239	1992.091	1991.403	1990.160	1990.641	1990.159	1992.810	1994.164
15.0	2053.194	2049.528	2049.079	2047.886	2047.624	2049.223	2049.824	2049.515	2049.635	2050.599
17.5	2134.563	2128.950	2129.228	2129.072	2130.212	2130.107	2129.921	2128.223	2121.884	2120.319
20.0	2246.450	2240.573	2239.918	2241.625	2241.226	2240.037	2236.945	2229.777	2219.546	2208.887
22.5	2393.163	2389.483	2389.308	2386.826	2383.717	2377.579	2364.939	2349.977	2328.479	2308.017
25.0	2579.155	2574.815	2569.485	2562.960	2552.749	2533.565	2508.165	2483.308	2453.296	2409.700
27.5	2828.223	2815.917	2798.983	2777.892	2746.415	2715.058	2679.354	2632.850	2575.431	2507.986
30.0	3142.139	3107.487	3072.084	3041.256	3001.666	2946.048	2875.813	2793.945	2698.216	2614.576
32.5	3569.606	3516.288	3452.008	3378.400	3287.451	3185.322	3075.167	2961.679	2852.094	2746.038
35.0	4037.379	3932.089	3818.276	3698.364	3568.447	3426.062	3270.158	3122.425	2985.672	2884.810
37.5	4508.585	4333.765	4149.268	3968.873	3782.722	3594.431	3412.703	3239.239	3105.720	2988.219
40.0	4751.215	4576.433	4380.331	4166.194	3934.888	3712.395	3505.234	3338.161	3183.927	3060.307
42.5	4920.754	4743.152	4536.860	4312.734	4072.527	3826.125	3600.232	3410.647	3260.033	3114.291
45.0	5234.803	4993.889	4735.769	4468.615	4223.782	3977.387	3736.477	3514.011	3298.449	3122.241
47.5	5598.986	5323.147	5044.057	4755.330	4448.339	4131.688	3839.443	3574.339	3327.668	3113.946
50.0	6115.232	5729.532	5363.353	5041.845	4689.490	4306.695	3923.469	3571.304	3299.267	3071.991
52.5	6698.854	6224.566	5767.473	5309.820	4844.308	4372.837	3914.101	3535.970	3220.592	2978.090
55.0	7221.736	6633.655	6051.356	5459.771	4865.968	4283.218	3801.739	3403.585	3092.244	2839.092
57.5	7051.698	6718.503	6191.915	5446.725	4706.785	4068.954	3545.277	3159.506	2858.969	2546.674
60.0	6168.773	5759.640	5367.314	4964.417	4398.692	3691.976	3113.283	2664.690	2358.608	2141.077
62.5	5224.779	4741.150	4294.634	3849.878	3442.993	3074.550	2386.052	1878.613	1628.706	1448.297
65.0	4208.636	3668.537	3204.952	2649.072	2358.786	1920.833	1327.738	1077.313	889.132	861.961
67.5	3112.332	2581.033	1937.570	1666.914	1367.084	919.103	685.267	446.701	525.887	521.191
70.0	2059.672	1507.844	986.601	852.614	608.732	466.520	369.950	348.472	335.957	314.546
72.5	1197.644	737.858	551.032	361.771	327.102	294.277	270.151	255.753	254.398	248.558
75.0	451.958	376.646	259.500	241.038	218.246	191.390	193.134	192.384	189.565	184.488
77.5	180.513	161.060	158.270	144.865	136.630	136.549	136.551	133.763	131.829	130.151
80.0	83.040	85.744	87.915	91.362	91.329	89.045	89.863	89.027	86.513	82.688
82.5	51.957	48.885	52.622	54.709	55.511	54.702	52.622	48.824	44.752	44.143
85.0	30.183	28.117	27.133	27.355	26.970	27.824	27.974	27.076	25.972	24.716
87.5	13.698	13.107	12.817	13.197	12.927	12.224	11.194	9.418	7.551	6.528
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	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986
2.5	1920.039	1919.683	1919.332	1918.988	1918.650	1918.319	1917.997	1917.683	1917.378	1917.083
5.0	1918.766	1918.256	1918.586	1918.850	1919.049	1919.181	1919.248	1919.137	1919.489	1919.815
7.5	1932.197	1932.289	1932.282	1932.533	1933.349	1933.702	1934.957	1935.894	1936.704	1937.386
10.0	1956.466	1957.681	1958.447	1958.759	1958.322	1960.091	1961.242	1962.067	1962.567	1962.747
12.5	1995.538	1996.719	1997.303	1997.286	1998.380	1995.630	1993.102	1990.312	1987.265	1985.085
15.0	2050.633	2048.296	2043.698	2038.250	2034.541	2028.555	2020.070	2010.262	2004.491	1997.616
17.5	2115.194	2108.516	2096.400	2082.963	2070.912	2057.298	2039.388	2023.904	2009.019	1993.831
20.0	2193.478	2176.436	2155.772	2130.603	2106.069	2080.764	2051.413	2024.857	1998.410	1975.194
22.5	2280.858	2246.567	2208.580	2173.224	2134.355	2095.332	2063.180	2031.237	2001.825	1975.308
25.0	2364.341	2303.832	2259.507	2213.693	2169.218	2127.084	2091.503	2069.369	2050.027	2028.654
27.5	2438.552	2379.734	2323.115	2266.406	2234.285	2207.537	2178.795	2152.656	2128.917	2107.816
30.0	2538.721	2463.113	2411.427	2378.100	2342.782	2310.629	2283.719	2256.299	2228.182	2194.684
32.5	2659.193	2597.636	2546.446	2500.473	2459.620	2427.475	2386.481	2343.095	2302.468	2262.551
35.0	2801.518	2730.342	2671.778	2622.922	2560.413	2501.762	2452.785	2406.458	2330.989	2257.270
37.5	2902.912	2827.322	2749.581	2673.923	2608.104	2532.708	2445.939	2364.103	2286.923	2209.252
40.0	2960.696	2859.749	2768.279	2677.865	2580.880	2486.124	2396.242	2296.874	2196.072	2100.498

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**CANDELA TABULATION - (Cont.)**

42.5	2974.473	2856.083	2742.750	2635.090	2530.038	2414.435	2298.201	2187.076	2078.696	1977.257
45.0	2969.709	2826.112	2693.734	2566.512	2439.315	2315.264	2190.936	2064.063	1941.819	1826.764
47.5	2934.392	2776.978	2619.184	2472.075	2336.685	2187.346	2045.756	1914.368	1791.305	1668.665
50.0	2871.069	2687.235	2521.611	2348.465	2185.121	2031.744	1885.474	1710.696	1548.875	1403.912
52.5	2769.223	2560.142	2362.970	2183.860	2010.931	1792.993	1593.516	1414.873	1257.747	1123.470
55.0	2586.412	2359.025	2162.033	1912.062	1675.905	1463.855	1274.094	1129.435	1004.013	895.497
57.5	2304.833	2036.903	1756.889	1524.475	1324.478	1148.732	997.237	864.001	750.232	653.474
60.0	1807.191	1536.008	1318.901	1145.076	990.307	831.788	695.026	578.110	479.071	447.029
62.5	1232.833	1081.721	934.279	771.108	622.692	488.263	448.862	435.738	420.286	406.745
65.0	822.819	684.823	532.089	422.876	412.371	405.280	393.900	385.256	374.407	364.749
67.5	439.885	369.135	360.952	352.650	344.967	340.456	335.703	331.002	326.144	319.808
70.0	307.558	300.900	292.495	282.940	275.544	273.978	274.564	275.083	276.372	271.590
72.5	241.216	234.061	226.112	214.735	210.772	216.346	222.246	224.608	226.732	222.211
75.0	175.984	174.065	172.248	167.625	163.425	166.436	171.899	174.836	176.407	173.049
77.5	127.519	125.300	123.546	120.332	116.577	117.456	122.410	125.670	126.645	125.348
80.0	79.207	77.114	75.390	75.242	75.500	77.805	84.005	88.703	90.521	90.223
82.5	44.332	46.464	48.092	48.999	48.566	48.884	52.462	55.234	55.599	55.000
85.0	23.580	23.780	23.621	23.122	21.952	20.930	21.757	22.194	21.056	19.697
87.5	5.661	5.335	5.053	4.808	4.595	4.422	4.962	5.462	5.290	5.139
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	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986	1928.986
2.5	1916.798	1916.524	1916.200	1916.090	1916.031	1915.981	1915.940	1915.910	1915.893	1915.890
5.0	1920.133	1920.444	1920.743	1921.029	1921.298	1921.548	1921.776	1921.973	1922.484	1922.484
7.5	1937.939	1938.361	1938.653	1939.675	1939.811	1940.430	1940.955	1941.379	1941.694	1941.913
10.0	1962.653	1963.038	1962.746	1961.769	1960.686	1959.528	1960.048	1960.489	1960.851	1961.134
12.5	1983.042	1979.726	1975.260	1971.475	1968.420	1965.308	1962.161	1960.575	1960.127	1959.779
15.0	1989.832	1980.151	1972.052	1964.132	1955.724	1950.238	1944.397	1938.710	1935.508	1933.700
17.5	1977.983	1963.173	1948.767	1936.326	1925.716	1915.789	1906.573	1901.025	1894.943	1891.836
20.0	1956.483	1936.113	1922.853	1908.859	1896.408	1886.602	1876.604	1870.209	1865.540	1862.885
22.5	1953.195	1942.216	1929.165	1918.502	1908.672	1899.786	1892.795	1885.918	1880.677	1875.523
25.0	2009.695	1990.028	1975.726	1961.327	1950.072	1939.800	1931.848	1924.181	1918.010	1911.700
27.5	2086.986	2067.068	2046.317	2024.947	1999.271	1985.269	1969.490	1958.026	1947.196	1937.885
30.0	2160.449	2127.257	2096.019	2064.592	2041.238	2018.557	1994.403	1971.476	1952.855	1938.156
32.5	2223.121	2165.154	2107.108	2058.279	2015.186	1980.441	1949.370	1922.601	1905.246	1891.414
35.0	2187.038	2124.066	2066.765	2014.782	1959.424	1912.730	1871.882	1835.516	1812.325	1794.876
37.5	2123.500	2040.886	1966.439	1900.215	1842.068	1792.097	1749.371	1717.133	1693.207	1677.109
40.0	2008.983	1922.678	1845.205	1775.133	1713.885	1660.693	1619.483	1585.949	1560.377	1543.987
42.5	1877.588	1787.280	1705.417	1630.629	1571.051	1518.020	1478.330	1449.393	1423.720	1409.087
45.0	1726.489	1634.925	1557.060	1477.167	1403.031	1341.774	1293.110	1260.895	1229.463	1212.337
47.5	1536.237	1420.684	1324.098	1242.674	1177.891	1122.834	1079.867	1050.874	1023.653	1007.841
50.0	1276.597	1166.490	1070.978	999.216	958.315	916.693	884.361	860.297	839.314	824.925
52.5	1027.181	941.285	865.033	808.864	765.499	729.112	699.324	676.885	658.800	644.573
55.0	804.511	726.714	662.292	611.403	571.204	538.280	512.546	492.617	477.269	464.376
57.5	571.803	502.298	448.772	434.857	429.949	423.375	420.817	419.152	417.832	416.179
60.0	431.584	415.918	404.928	398.523	394.326	388.775	385.773	384.338	382.621	381.197
62.5	392.586	379.121	367.922	362.156	358.146	354.203	350.860	349.647	347.498	346.014
65.0	352.403	340.964	330.467	325.507	321.831	319.093	316.060	314.676	312.454	310.650
67.5	311.121	301.090	292.744	287.593	284.189	281.774	279.299	277.685	276.359	273.522
70.0	265.413	258.042	251.608	247.425	244.936	243.214	241.374	240.216	239.903	236.419
72.5	217.475	213.274	209.622	206.974	205.443	204.719	203.146	202.814	203.269	199.563
75.0	168.330	167.492	166.914	166.285	165.752	166.273	164.667	165.465	166.490	162.729
77.5	122.151	124.470	126.439	127.176	127.037	127.847	126.116	126.913	127.044	124.053

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**CANDELA TABULATION - (Cont.)**

<b>80.0</b>	87.489	88.219	89.303	89.498	89.022	89.145	87.720	88.136	87.502	85.170
<b>82.5</b>	52.756	52.322	52.354	51.901	51.093	50.643	49.447	49.330	48.080	46.200
<b>85.0</b>	17.963	16.670	15.531	14.357	13.215	12.209	11.258	10.502	7.544	6.502
<b>87.5</b>	5.005	4.886	4.782	4.692	4.613	4.545	4.488	4.440	3.846	3.279
<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>	1928.986	1928.986	1928.986
<b>2.5</b>	1915.902	1915.932	1915.982
<b>5.0</b>	1922.484	1922.484	1922.484
<b>7.5</b>	1942.257	1942.463	1942.532
<b>10.0</b>	1961.335	1961.457	1961.497
<b>12.5</b>	1959.529	1959.379	1959.330
<b>15.0</b>	1931.470	1931.153	1931.153
<b>17.5</b>	1889.232	1887.484	1886.938
<b>20.0</b>	1861.969	1860.709	1858.907
<b>22.5</b>	1872.249	1868.205	1866.131
<b>25.0</b>	1909.582	1907.702	1907.673
<b>27.5</b>	1932.601	1929.881	1929.605
<b>30.0</b>	1927.642	1922.581	1919.775
<b>32.5</b>	1881.088	1876.590	1869.653
<b>35.0</b>	1782.441	1775.780	1767.153
<b>37.5</b>	1667.272	1659.192	1651.559
<b>40.0</b>	1533.218	1526.116	1516.097
<b>42.5</b>	1398.180	1390.050	1380.634
<b>45.0</b>	1198.552	1189.695	1175.815
<b>47.5</b>	995.746	984.913	970.995
<b>50.0</b>	814.221	806.703	796.158
<b>52.5</b>	633.605	626.466	621.321
<b>55.0</b>	452.922	444.317	446.484
<b>57.5</b>	413.054	411.294	413.431
<b>60.0</b>	379.133	377.896	380.379
<b>62.5</b>	345.139	344.467	347.326
<b>65.0</b>	309.938	310.734	314.273
<b>67.5</b>	272.757	272.864	276.344
<b>70.0</b>	234.239	234.699	238.414
<b>72.5</b>	195.677	196.555	200.485
<b>75.0</b>	156.238	158.220	162.555
<b>77.5</b>	119.454	120.164	122.458
<b>80.0</b>	81.879	81.921	82.361
<b>82.5</b>	44.325	43.692	42.264
<b>85.0</b>	6.502	5.398	2.167
<b>87.5</b>	3.263	2.709	1.084
<b>90.0</b>	0.000	0.000	0.000



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VF2-L106-740-HS\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	767.27	N.A.	8.00
0-30	1841.37	N.A.	19.20
0-40	3550.87	N.A.	37.10
0-60	7971.21	N.A.	83.20
0-80	9547.97	N.A.	99.70
0-90	9580.79	N.A.	100.00
10-90	9393.97	N.A.	98.10
20-40	2783.59	N.A.	29.10
20-50	4921.17	N.A.	51.40
40-70	5709.41	N.A.	59.60
60-80	1576.77	N.A.	16.50
70-80	287.70	N.A.	3.00
80-90	32.81	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	9580.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	186.82
10-20	580.46
20-30	1074.09
30-40	1709.5
40-50	2137.58
50-60	2282.76
60-70	1289.07
70-80	287.70
80-90	32.81
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

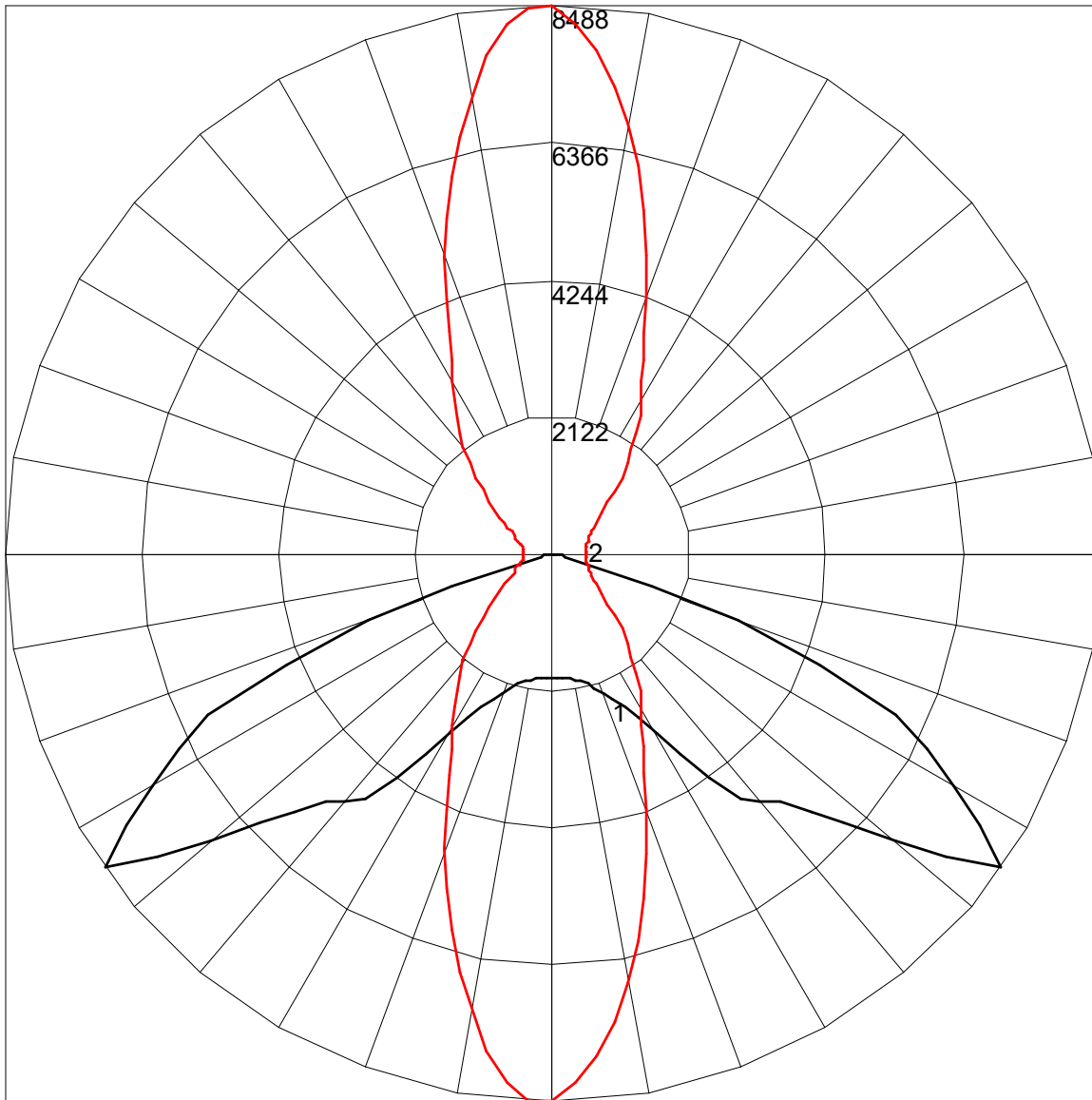
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VF2-L106-740-HS\_.IES**

**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	214	214	214	214	209	209	209	209	200	200	200	191	191	191	183	183	183	180
1	196	188	181	174	192	184	178	172	177	171	166	170	165	161	163	160	156	153
2	178	163	151	141	173	160	149	139	154	144	136	148	140	133	142	136	130	126
3	161	142	127	115	157	139	125	114	134	122	112	129	119	110	124	116	108	104
4	146	124	108	95	142	122	107	95	117	104	93	113	101	92	109	99	91	87
5	133	109	93	80	129	107	91	80	103	89	79	100	87	78	96	86	77	73
6	122	97	80	68	118	95	79	68	92	78	67	89	76	67	86	75	66	62
7	112	87	70	59	109	85	70	58	82	68	58	80	67	57	77	66	57	53
8	104	78	62	51	101	77	61	51	74	60	50	72	59	50	70	58	50	46
9	96	71	55	45	93	70	55	45	68	54	44	66	53	44	64	52	44	40
10	89	65	50	40	87	64	49	40	62	49	39	60	48	39	58	47	39	36

POLAR GRAPH



Maximum Candela = 8487.579 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.)