



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : VF2-L88-750-HS\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]ATAL009604-R2  
 [TESTLAB]ATAL-LABS  
 [ISSUEDATE]28 NOV 2022  
 [MANUFAC]WILLIAMS OUTDOOR  
 [OTHER]H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT]VF2-L88-750-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.  
 [LAMPCAT]LUXEON TX 5000K LEDS  
 [BALLAST](1) PHILIPS ELECTRONIC DRIVER  
 [OTHER]INPUT WATTS: 75, AMPS: 0.4454, VAC: 120.05, TEMP: 25.4 C  
 [ \_SEARCH\_SOURCE] 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	8263
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	75
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	39055	80974	200635
55	22469	59152	369600
65	22038	24110	348123
75	19248	15587	19457
85	0	5685	6213

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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>	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616
<b>2.5</b>	1683.243	1683.221	1683.154	1683.043	1682.888	1682.690	1682.448	1682.163	1681.835	1681.466
<b>5.0</b>	1704.739	1704.699	1704.580	1704.381	1704.103	1703.747	1703.836	1703.686	1703.439	1703.094
<b>7.5</b>	1712.683	1712.703	1712.762	1712.861	1713.611	1714.427	1715.249	1716.073	1716.998	1717.263
<b>10.0</b>	1702.870	1702.922	1703.079	1704.049	1705.456	1706.994	1708.672	1710.496	1713.307	1716.219
<b>12.5</b>	1693.056	1693.088	1693.185	1694.503	1695.729	1697.012	1698.833	1701.467	1704.220	1707.100
<b>15.0</b>	1695.393	1695.368	1695.572	1696.092	1696.619	1697.898	1700.542	1703.026	1704.987	1709.325
<b>17.5</b>	1721.188	1722.584	1723.200	1723.137	1722.484	1723.322	1724.030	1726.017	1729.455	1732.319
<b>20.0</b>	1764.866	1767.275	1768.585	1769.133	1770.440	1771.537	1773.243	1777.153	1779.407	1783.572
<b>22.5</b>	1803.808	1803.531	1806.896	1809.726	1814.060	1817.916	1823.876	1829.759	1837.166	1845.512
<b>25.0</b>	1802.251	1802.264	1807.494	1813.277	1823.287	1833.894	1847.227	1861.152	1877.358	1894.825
<b>27.5</b>	1758.145	1762.279	1767.269	1776.139	1790.359	1808.787	1829.947	1855.170	1880.216	1916.243
<b>30.0</b>	1691.654	1698.466	1702.923	1713.484	1728.951	1752.062	1779.211	1809.149	1837.864	1868.735
<b>32.5</b>	1607.539	1614.340	1618.283	1628.309	1643.130	1664.139	1690.236	1719.988	1752.273	1796.500
<b>35.0</b>	1509.300	1516.001	1519.356	1529.328	1544.161	1564.128	1590.241	1618.991	1653.607	1702.834
<b>37.5</b>	1407.531	1413.730	1415.649	1424.276	1436.654	1454.628	1478.520	1508.294	1548.118	1594.897
<b>40.0</b>	1274.816	1280.721	1282.679	1291.583	1306.590	1327.208	1353.020	1384.655	1429.370	1477.219
<b>42.5</b>	1142.100	1147.227	1147.972	1155.478	1172.282	1192.452	1215.086	1246.621	1288.066	1330.808
<b>45.0</b>	953.308	959.533	962.628	971.909	991.591	1014.943	1040.016	1077.467	1121.632	1176.716
<b>47.5</b>	764.515	771.379	774.514	782.286	800.005	819.534	840.035	868.808	903.728	952.603
<b>50.0</b>	657.969	662.916	663.869	667.343	676.042	685.316	693.894	703.139	714.447	729.614
<b>52.5</b>	551.423	555.365	556.912	559.848	566.296	575.218	584.841	595.074	606.992	625.608
<b>55.0</b>	444.877	447.848	450.098	451.665	456.250	465.548	476.278	487.244	499.054	517.394
<b>57.5</b>	414.035	415.490	414.820	412.375	411.904	414.280	416.000	416.818	416.177	418.261
<b>60.0</b>	383.193	383.881	382.545	380.298	380.595	383.102	383.838	384.781	383.368	384.622
<b>62.5</b>	352.350	352.246	350.221	348.378	349.362	351.866	351.553	351.852	350.401	350.523
<b>65.0</b>	321.508	320.589	317.854	316.599	318.196	320.007	319.356	319.162	317.047	316.409
<b>67.5</b>	284.123	283.955	280.924	279.761	282.299	282.324	282.005	281.809	280.341	280.164
<b>70.0</b>	246.739	247.299	243.808	242.541	245.284	243.165	242.064	241.532	240.143	239.060
<b>72.5</b>	209.354	210.661	206.670	205.579	207.922	204.074	201.774	201.588	200.021	197.521
<b>75.0</b>	171.969	174.038	169.517	168.635	170.280	165.044	161.202	161.920	159.970	155.629
<b>77.5</b>	128.977	130.914	127.661	127.861	128.882	125.484	122.569	123.505	121.934	117.220
<b>80.0</b>	85.985	87.763	85.780	86.791	87.395	85.921	84.776	85.230	84.933	82.048
<b>82.5</b>	42.992	44.618	43.961	45.643	46.115	46.421	47.269	47.263	48.275	47.244
<b>85.0</b>	0.000	1.475	2.185	4.440	4.980	6.959	9.952	9.418	11.841	12.697
<b>87.5</b>	0.000	0.700	0.938	1.885	1.898	2.627	3.863	3.129	3.978	4.046
<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>	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616
<b>2.5</b>	1681.056	1680.749	1680.349	1679.908	1679.426	1678.906	1678.348	1677.753	1677.122	1676.456
<b>5.0</b>	1702.650	1702.105	1701.460	1700.712	1699.863	1698.855	1698.653	1698.116	1697.459	1696.681
<b>7.5</b>	1717.681	1718.437	1719.146	1719.810	1720.431	1721.009	1721.546	1721.727	1723.182	1723.598
<b>10.0</b>	1719.733	1721.764	1723.936	1727.506	1731.176	1734.870	1738.584	1742.314	1745.562	1748.691
<b>12.5</b>	1710.812	1715.337	1720.351	1725.893	1732.061	1739.369	1746.664	1753.932	1760.735	1766.891
<b>15.0</b>	1712.844	1716.076	1720.838	1728.341	1736.094	1743.052	1754.091	1763.918	1774.313	1785.035
<b>17.5</b>	1735.553	1739.232	1741.976	1746.918	1756.606	1765.686	1774.802	1784.996	1798.427	1811.916
<b>20.0</b>	1787.741	1788.978	1795.118	1796.514	1805.665	1814.729	1821.817	1828.850	1844.024	1857.570
<b>22.5</b>	1853.937	1863.287	1870.448	1881.979	1889.798	1897.250	1904.155	1909.553	1920.827	1931.090
<b>25.0</b>	1915.104	1934.820	1948.703	1961.926	1976.532	1989.608	2004.600	2014.844	2023.388	2032.619
<b>27.5</b>	1945.525	1969.730	1994.736	2021.788	2049.616	2078.406	2095.553	2113.788	2131.831	2150.794
<b>30.0</b>	1910.493	1952.781	1997.649	2045.051	2088.355	2120.747	2155.152	2191.458	2226.095	2250.267

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**CANDELA TABULATION - (Cont.)**

32.5	1847.638	1900.828	1957.619	2009.083	2061.204	2116.469	2175.823	2229.394	2271.952	2321.486
35.0	1752.753	1806.402	1866.177	1932.163	2001.756	2078.796	2138.879	2205.082	2277.200	2350.151
37.5	1644.812	1700.106	1763.005	1832.907	1907.488	1986.019	2067.894	2153.231	2235.147	2312.135
40.0	1529.358	1585.866	1652.987	1726.105	1805.501	1890.013	1978.642	2068.118	2159.481	2252.255
42.5	1387.633	1453.032	1526.932	1611.130	1694.918	1782.416	1875.211	1974.062	2076.837	2176.778
45.0	1240.167	1303.231	1375.382	1456.610	1552.027	1654.402	1765.541	1867.824	1976.536	2091.081
47.5	1018.811	1096.590	1184.692	1291.982	1393.495	1494.735	1605.301	1729.776	1865.908	1987.630
50.0	780.268	849.537	928.962	1032.885	1152.315	1285.050	1431.246	1559.176	1697.069	1841.751
52.5	655.484	684.331	721.337	767.937	867.242	995.209	1148.191	1318.876	1499.274	1648.014
55.0	541.058	566.713	602.914	647.015	700.654	766.196	851.403	1002.294	1171.204	1365.009
57.5	423.723	446.871	479.430	519.564	567.653	627.259	699.671	770.084	849.982	990.605
60.0	386.051	390.283	397.847	407.797	425.328	474.060	531.849	595.232	668.012	737.511
62.5	351.802	356.016	362.146	370.017	377.056	385.334	391.213	409.950	473.109	541.380
65.0	317.614	320.894	324.970	330.284	334.114	338.764	341.238	346.271	351.743	359.570
67.5	282.021	284.997	286.458	288.255	289.606	289.609	289.244	291.235	295.120	300.543
70.0	239.474	241.341	243.071	243.702	243.742	239.453	235.431	235.334	237.408	241.722
72.5	196.641	197.344	198.536	198.020	197.267	193.100	188.990	185.618	182.858	184.908
75.0	153.572	153.299	153.913	152.397	150.793	147.838	144.525	140.994	139.263	141.751
77.5	114.420	112.856	111.657	108.162	105.161	103.512	100.506	96.828	96.419	99.281
80.0	80.206	79.398	78.838	77.118	74.817	72.092	67.738	62.317	60.005	59.435
82.5	46.177	46.149	46.514	46.634	45.717	44.269	42.009	39.204	38.439	38.215
85.0	12.284	13.044	14.529	16.536	16.982	16.858	17.063	16.998	17.103	17.250
87.5	3.274	3.161	3.498	4.283	4.065	3.544	3.659	3.801	3.317	2.781
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	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616
2.5	1675.757	1675.026	1674.264	1673.473	1672.654	1671.809	1670.406	1670.128	1669.404	1668.664
5.0	1695.784	1694.294	1693.643	1692.405	1691.058	1689.608	1688.058	1686.413	1684.678	1682.860
7.5	1723.540	1722.454	1721.192	1719.758	1718.152	1716.379	1714.441	1712.238	1709.354	1707.225
10.0	1750.095	1751.266	1752.202	1752.899	1753.142	1751.361	1748.107	1746.480	1743.744	1740.246
12.5	1773.595	1779.924	1785.870	1789.683	1790.910	1790.643	1793.024	1792.670	1789.419	1785.396
15.0	1797.394	1809.256	1819.144	1826.932	1834.094	1842.196	1845.170	1846.852	1847.659	1844.904
17.5	1826.586	1841.748	1857.329	1872.373	1884.185	1898.797	1909.009	1916.842	1918.241	1918.216
20.0	1870.744	1889.861	1909.687	1928.855	1949.401	1970.522	1988.387	2000.959	2011.933	2014.326
22.5	1939.753	1961.934	1981.200	2003.236	2027.211	2052.873	2078.930	2103.493	2119.778	2133.824
25.0	2043.271	2052.514	2072.593	2097.644	2120.711	2150.198	2178.691	2214.395	2246.191	2266.742
27.5	2164.883	2178.092	2192.270	2212.521	2239.682	2273.159	2310.160	2349.270	2389.532	2430.858
30.0	2274.624	2306.239	2328.061	2350.501	2379.705	2422.045	2474.635	2528.947	2584.623	2633.111
32.5	2371.320	2407.100	2450.969	2496.998	2542.029	2593.267	2651.048	2725.130	2805.642	2889.151
35.0	2407.164	2472.055	2535.588	2599.831	2673.930	2745.357	2830.212	2926.257	3027.821	3134.097
37.5	2393.665	2474.508	2557.211	2649.925	2740.858	2848.090	2953.577	3069.401	3195.179	3330.076
40.0	2343.753	2437.314	2534.974	2638.384	2759.709	2884.906	3020.406	3158.542	3312.883	3481.371
42.5	2279.834	2385.107	2491.327	2607.310	2738.197	2887.284	3048.118	3233.330	3419.145	3602.231
45.0	2208.338	2320.019	2435.856	2558.275	2698.172	2878.109	3089.001	3300.877	3514.759	3719.921
47.5	2111.469	2242.330	2369.945	2507.716	2664.764	2853.559	3073.239	3349.128	3643.032	3937.385
50.0	2001.236	2136.457	2286.552	2449.368	2611.841	2795.832	3055.366	3375.129	3748.444	4113.290
52.5	1808.554	1984.429	2167.990	2340.760	2535.706	2728.862	2973.990	3323.097	3746.312	4206.636
55.0	1574.577	1738.906	1947.183	2178.090	2366.518	2594.562	2852.842	3180.518	3646.671	4196.481
57.5	1182.726	1404.692	1625.178	1847.599	2122.448	2296.684	2585.344	2966.862	3440.836	4056.175
60.0	814.085	956.410	1168.180	1440.044	1583.623	1702.486	1976.906	2564.242	3131.061	3588.347
62.5	611.083	645.151	664.467	850.771	963.212	1021.005	1203.373	1653.097	2361.542	2644.322
65.0	404.009	451.101	482.193	498.272	524.701	541.132	476.008	863.254	1318.079	1841.788
67.5	303.730	306.521	327.384	354.409	362.026	348.770	360.804	383.433	677.159	1005.428

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**CANDELA TABULATION - (Cont.)**

<b>70.0</b>	246.175	249.411	250.573	250.973	258.928	270.976	284.980	302.450	337.124	513.859
<b>72.5</b>	190.869	194.570	196.979	198.485	199.452	201.014	211.439	225.002	239.143	285.031
<b>75.0</b>	144.283	145.045	146.108	149.124	151.441	153.391	154.844	155.709	168.387	177.997
<b>77.5</b>	101.512	102.575	103.802	105.330	106.929	108.213	110.252	111.496	112.806	116.442
<b>80.0</b>	59.449	60.890	62.439	65.329	68.835	71.167	71.995	71.415	74.178	75.025
<b>82.5</b>	37.149	35.509	33.400	33.208	33.839	37.557	41.021	43.045	44.113	43.922
<b>85.0</b>	17.474	17.451	17.094	18.030	19.114	20.098	20.946	20.946	20.413	21.056
<b>87.5</b>	2.905	3.067	3.254	3.893	4.655	6.159	7.615	8.458	9.060	9.350
<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>	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616
<b>2.5</b>	1667.910	1667.141	1666.361	1665.570	1664.770	1663.962	1663.149	1662.534	1661.917	1661.297
<b>5.0</b>	1680.962	1678.125	1677.315	1675.824	1674.288	1672.710	1671.093	1669.033	1666.954	1664.870
<b>7.5</b>	1704.479	1701.541	1698.424	1695.149	1691.927	1688.583	1685.112	1682.433	1679.639	1676.625
<b>10.0</b>	1737.033	1732.966	1728.518	1723.718	1718.935	1714.765	1710.347	1705.712	1700.895	1697.527
<b>12.5</b>	1780.655	1775.202	1769.211	1762.801	1755.984	1750.025	1743.992	1737.598	1731.555	1728.080
<b>15.0</b>	1839.708	1833.731	1827.019	1819.539	1811.278	1802.900	1794.462	1787.880	1781.921	1776.607
<b>17.5</b>	1915.223	1907.049	1904.130	1901.979	1899.545	1894.970	1886.802	1873.162	1861.986	1851.025
<b>20.0</b>	2013.662	2009.951	2006.378	2002.211	1999.909	1995.106	1985.747	1971.148	1959.410	1944.521
<b>22.5</b>	2137.710	2138.335	2132.967	2123.059	2114.754	2101.928	2091.669	2083.014	2074.913	2065.341
<b>25.0</b>	2283.117	2289.370	2291.231	2286.644	2279.153	2268.537	2259.900	2249.940	2239.382	2230.186
<b>27.5</b>	2459.512	2480.800	2494.247	2498.385	2497.249	2491.596	2484.742	2474.832	2463.181	2451.946
<b>30.0</b>	2672.609	2709.674	2741.594	2764.102	2776.451	2781.299	2780.014	2771.222	2755.945	2735.427
<b>32.5</b>	2964.311	3024.941	3074.381	3113.152	3137.479	3152.123	3159.702	3155.701	3140.536	3113.843
<b>35.0</b>	3236.823	3331.363	3413.411	3489.247	3554.247	3605.560	3640.223	3643.321	3617.512	3561.224
<b>37.5</b>	3473.984	3611.755	3739.183	3861.534	3977.212	4075.709	4145.954	4159.433	4119.616	4022.766
<b>40.0</b>	3646.157	3795.951	3926.148	4042.856	4152.601	4248.512	4321.662	4340.320	4309.132	4222.356
<b>42.5</b>	3774.559	3930.333	4069.776	4191.409	4309.894	4415.786	4497.370	4515.520	4476.811	4379.647
<b>45.0</b>	3944.365	4151.720	4335.993	4501.732	4655.564	4794.319	4897.386	4916.112	4852.731	4703.675
<b>47.5</b>	4212.653	4456.053	4662.494	4844.437	5014.241	5174.933	5297.401	5321.732	5235.841	5054.901
<b>50.0</b>	4455.677	4774.342	5068.064	5339.972	5590.004	5813.651	5970.947	5988.965	5852.440	5599.041
<b>52.5</b>	4657.506	5086.305	5485.885	5846.055	6174.309	6450.716	6644.493	6655.434	6489.303	6174.008
<b>55.0</b>	4759.285	5312.542	5832.519	6308.204	6748.106	7079.579	7318.039	7319.944	7117.488	6720.362
<b>57.5</b>	4746.640	5261.822	5598.929	5912.828	6221.758	6511.540	6758.204	6806.178	6672.612	6395.808
<b>60.0</b>	4015.614	4412.754	4791.875	5165.440	5540.381	5895.995	6198.370	6254.695	6065.677	5705.505
<b>62.5</b>	3093.365	3569.435	3958.855	4382.787	4834.356	5268.877	5638.536	5703.451	5432.014	4972.755
<b>65.0</b>	2013.523	2698.983	3111.167	3568.282	4093.597	4622.767	5078.701	5139.982	4763.287	4185.396
<b>67.5</b>	1270.613	1601.052	2266.397	2669.118	3085.688	3486.804	3852.485	3916.906	3635.201	3180.953
<b>70.0</b>	671.686	851.153	1507.205	1797.156	2080.185	2357.526	2626.270	2676.269	2459.729	2132.721
<b>72.5</b>	381.769	515.389	638.192	1044.328	1164.494	1272.470	1400.054	1447.896	1372.551	1225.845
<b>75.0</b>	205.181	264.940	329.893	436.255	374.517	244.881	173.838	265.421	427.058	515.875
<b>77.5</b>	121.252	129.596	137.475	114.555	121.654	129.930	135.052	134.395	128.071	119.909
<b>80.0</b>	72.844	69.830	69.846	80.102	86.106	91.295	96.265	96.139	90.454	83.573
<b>82.5</b>	42.867	40.375	43.276	47.968	54.298	55.032	57.479	58.529	56.586	49.385
<b>85.0</b>	21.329	22.670	24.878	26.307	26.489	23.410	18.692	23.819	27.584	27.056
<b>87.5</b>	9.167	9.857	10.822	12.602	12.776	9.919	9.346	10.572	12.886	13.145
<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>	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616
<b>2.5</b>	1660.677	1660.057	1659.438	1658.822	1658.210	1657.363	1657.162	1656.842	1656.525	1656.211

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**CANDELA TABULATION - (Cont.)**

5.0	1662.797	1661.286	1660.594	1659.891	1659.180	1658.461	1657.735	1657.006	1656.273	1655.538
7.5	1674.935	1673.111	1671.233	1669.316	1667.062	1665.569	1665.212	1665.632	1665.968	1666.219
10.0	1694.559	1691.377	1687.977	1684.675	1684.644	1684.386	1683.286	1683.842	1684.097	1685.890
12.5	1724.263	1720.113	1718.167	1718.040	1717.446	1716.374	1716.789	1716.373	1718.660	1719.827
15.0	1770.737	1767.575	1767.188	1766.158	1765.933	1767.311	1767.830	1767.564	1767.667	1768.498
17.5	1840.911	1836.071	1836.310	1836.176	1837.159	1837.068	1836.908	1835.444	1829.977	1828.627
20.0	1937.406	1932.338	1931.773	1933.245	1932.901	1931.875	1929.209	1923.027	1914.203	1905.011
22.5	2063.936	2060.762	2060.611	2058.471	2055.789	2050.496	2039.595	2026.692	2008.151	1990.503
25.0	2224.341	2220.598	2216.001	2210.374	2201.568	2185.023	2163.116	2141.679	2115.796	2078.197
27.5	2439.145	2428.532	2413.928	2395.738	2368.591	2341.548	2310.756	2270.650	2221.129	2162.963
30.0	2709.876	2679.991	2649.458	2622.871	2588.727	2540.760	2480.188	2409.582	2327.023	2254.889
32.5	3078.536	3032.553	2977.116	2913.635	2835.197	2747.118	2652.116	2554.241	2459.732	2368.266
35.0	3481.957	3391.152	3292.996	3189.581	3077.536	2954.739	2820.283	2692.874	2574.934	2487.948
37.5	3888.340	3737.570	3578.454	3422.875	3262.333	3099.945	2943.218	2793.617	2678.466	2577.130
40.0	4097.591	3946.854	3777.730	3593.052	3393.566	3201.681	3023.019	2878.930	2745.914	2639.301
42.5	4243.807	4090.637	3912.724	3719.432	3512.270	3299.765	3104.949	2941.444	2811.551	2685.858
45.0	4514.652	4306.880	4084.271	3853.868	3642.717	3430.219	3222.450	3030.589	2844.682	2692.714
47.5	4828.734	4590.842	4350.147	4101.140	3836.382	3563.292	3311.252	3082.618	2869.880	2685.561
50.0	5273.961	4941.321	4625.517	4348.239	4044.358	3714.223	3383.718	3080.000	2845.387	2649.377
52.5	5777.293	5368.253	4974.042	4579.349	4177.877	3771.266	3375.638	3049.527	2777.535	2568.394
55.0	6228.243	5721.064	5218.872	4708.672	4196.557	3693.976	3278.734	2935.354	2666.844	2448.518
57.5	6081.597	5794.240	5340.095	4697.420	4059.273	3509.188	3057.554	2724.853	2465.661	2196.329
60.0	5320.135	4967.287	4628.933	4281.463	3793.564	3184.071	2684.989	2298.109	2034.134	1846.529
62.5	4506.007	4088.910	3703.821	3320.251	2969.341	2651.584	2057.803	1620.173	1404.646	1249.055
65.0	3629.654	3163.857	2764.048	2284.639	2034.287	1656.584	1145.082	929.108	766.814	743.381
67.5	2684.169	2225.961	1671.019	1437.596	1179.015	792.663	590.995	385.248	453.541	449.490
70.0	1776.323	1300.410	850.874	735.320	524.989	402.341	319.056	300.533	289.739	271.273
72.5	1032.884	636.351	475.226	312.003	282.103	253.793	232.987	220.569	219.400	214.364
75.0	389.783	324.831	223.800	207.878	188.222	165.060	166.565	165.918	163.486	159.108
77.5	155.680	138.903	136.497	124.936	117.834	117.764	117.765	115.361	113.693	112.246
80.0	71.616	73.948	75.821	78.793	78.765	76.796	77.501	76.780	74.612	71.313
82.5	44.809	42.159	45.383	47.183	47.875	47.177	45.383	42.107	38.596	38.070
85.0	26.031	24.249	23.401	23.592	23.259	23.996	24.126	23.351	22.399	21.316
87.5	11.814	11.304	11.054	11.382	11.148	10.542	9.654	8.122	6.513	5.630
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	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616
2.5	1655.900	1655.593	1655.290	1654.993	1654.702	1654.417	1654.139	1653.868	1653.605	1653.350
5.0	1654.802	1654.362	1654.646	1654.874	1655.046	1655.160	1655.217	1655.121	1655.425	1655.706
7.5	1666.385	1666.464	1666.458	1666.675	1667.379	1667.683	1668.765	1669.573	1670.272	1670.860
10.0	1687.315	1688.363	1689.024	1689.293	1688.917	1690.442	1691.434	1692.145	1692.577	1692.732
12.5	1721.012	1722.030	1722.534	1722.520	1723.463	1721.091	1718.911	1716.505	1713.877	1711.997
15.0	1768.528	1766.513	1762.547	1757.849	1754.650	1749.487	1742.169	1733.710	1728.734	1722.805
17.5	1824.207	1818.448	1807.998	1796.410	1786.017	1774.276	1758.830	1745.476	1732.639	1719.540
20.0	1891.721	1877.023	1859.202	1837.496	1816.337	1794.514	1769.200	1746.298	1723.488	1703.467
22.5	1967.081	1937.507	1904.746	1874.254	1840.732	1807.077	1779.348	1751.800	1726.434	1703.565
25.0	2039.079	1986.894	1948.667	1909.155	1870.799	1834.462	1803.776	1784.687	1768.005	1749.572
27.5	2103.081	2052.355	2003.525	1954.617	1926.915	1903.847	1879.059	1856.515	1836.042	1817.844
30.0	2189.469	2124.263	2079.687	2050.946	2020.486	1992.756	1969.548	1945.901	1921.651	1892.762
32.5	2293.368	2240.279	2196.132	2156.484	2121.251	2093.527	2058.173	2020.755	1985.718	1951.293
35.0	2416.114	2354.729	2304.221	2262.086	2208.177	2157.595	2115.355	2075.402	2010.315	1946.738
37.5	2503.559	2438.367	2371.321	2306.072	2249.307	2184.283	2109.451	2038.873	1972.311	1905.326
40.0	2553.394	2466.334	2387.448	2309.472	2225.828	2144.108	2066.591	1980.893	1893.959	1811.533

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

42.5	2565.276	2463.172	2365.430	2272.581	2181.980	2082.281	1982.038	1886.200	1792.730	1705.246
45.0	2561.166	2437.324	2323.157	2213.437	2103.739	1996.753	1889.530	1780.111	1674.683	1575.456
47.5	2530.708	2394.949	2258.863	2131.992	2015.227	1886.433	1764.322	1651.008	1544.876	1439.106
50.0	2476.096	2317.553	2174.713	2025.386	1884.514	1752.237	1626.090	1475.355	1335.797	1210.776
52.5	2388.262	2207.944	2037.896	1883.426	1734.287	1546.331	1374.296	1220.229	1084.719	968.914
55.0	2230.600	2034.495	1864.603	1649.020	1445.351	1262.473	1098.817	974.059	865.891	772.303
57.5	1987.757	1756.687	1515.194	1314.753	1142.269	990.701	860.048	745.140	647.023	563.575
60.0	1558.576	1324.700	1137.460	987.548	854.070	717.359	599.411	498.580	413.165	385.531
62.5	1063.233	932.909	805.750	665.027	537.028	421.093	387.112	375.794	362.467	350.789
65.0	709.624	590.612	458.890	364.701	355.641	349.525	339.711	332.256	322.900	314.570
67.5	379.370	318.352	311.295	304.136	297.510	293.619	289.520	285.466	281.276	275.812
70.0	265.247	259.505	252.256	244.016	237.638	236.286	236.792	237.239	238.352	234.227
72.5	208.032	201.861	195.006	185.194	181.776	186.583	191.671	193.708	195.541	191.641
75.0	151.774	150.118	148.552	144.565	140.942	143.540	148.251	150.784	152.139	149.242
77.5	109.976	108.062	106.549	103.778	100.539	101.298	105.570	108.382	109.223	108.104
80.0	68.310	66.505	65.019	64.891	65.114	67.101	72.449	76.500	78.068	77.811
82.5	38.234	40.072	41.476	42.258	41.885	42.159	45.245	47.635	47.950	47.433
85.0	20.337	20.509	20.372	19.942	18.932	18.051	18.764	19.141	18.159	16.987
87.5	4.882	4.601	4.358	4.147	3.963	3.814	4.280	4.711	4.562	4.432
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	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616	1663.616
2.5	1653.105	1652.868	1652.589	1652.494	1652.444	1652.400	1652.365	1652.339	1652.324	1652.321
5.0	1655.981	1656.248	1656.506	1656.753	1656.985	1657.201	1657.397	1657.567	1658.008	1658.008
7.5	1671.337	1671.701	1671.953	1672.834	1672.952	1673.486	1673.939	1674.304	1674.576	1674.765
10.0	1692.651	1692.983	1692.731	1691.889	1690.955	1689.957	1690.405	1690.786	1691.098	1691.341
12.5	1710.236	1707.375	1703.524	1700.259	1697.624	1694.941	1692.227	1690.859	1690.473	1690.173
15.0	1716.092	1707.743	1700.757	1693.927	1686.675	1681.944	1676.907	1672.002	1669.240	1667.681
17.5	1705.872	1693.100	1680.676	1669.946	1660.796	1652.234	1644.286	1639.501	1634.256	1631.577
20.0	1687.330	1669.763	1658.327	1646.258	1635.519	1627.063	1618.440	1612.924	1608.898	1606.608
22.5	1684.494	1675.025	1663.770	1654.574	1646.096	1638.432	1632.403	1626.472	1621.952	1617.508
25.0	1733.221	1716.260	1703.925	1691.507	1681.801	1672.942	1666.084	1659.472	1654.150	1648.708
27.5	1799.879	1782.702	1764.806	1746.376	1724.232	1712.156	1698.547	1688.661	1679.321	1671.290
30.0	1863.236	1834.610	1807.670	1780.567	1760.425	1740.865	1720.033	1700.260	1684.202	1671.524
32.5	1917.287	1867.295	1817.233	1775.122	1737.957	1707.992	1681.195	1658.110	1643.142	1631.212
35.0	1886.168	1831.859	1782.440	1737.609	1689.866	1649.596	1614.367	1583.004	1563.004	1547.955
37.5	1831.371	1760.122	1695.916	1638.803	1588.655	1545.558	1508.710	1480.907	1460.273	1446.389
40.0	1732.608	1658.176	1591.360	1530.928	1478.105	1432.231	1396.690	1367.770	1345.716	1331.581
42.5	1619.289	1541.404	1470.803	1406.303	1354.922	1309.186	1274.957	1250.000	1227.859	1215.239
45.0	1488.976	1410.008	1342.856	1273.953	1210.016	1157.187	1115.217	1087.434	1060.326	1045.555
47.5	1324.896	1225.240	1141.942	1071.720	1015.849	968.366	931.310	906.306	882.829	869.193
50.0	1100.975	1006.016	923.644	861.755	826.480	790.584	762.699	741.946	723.850	711.440
52.5	885.872	811.793	746.031	697.589	660.190	628.808	603.118	583.767	568.169	555.899
55.0	693.835	626.740	571.181	527.293	492.623	464.229	442.035	424.848	411.612	400.492
57.5	493.140	433.197	387.035	375.034	370.800	365.131	362.925	361.490	360.352	358.925
60.0	372.211	358.700	349.222	343.698	340.079	335.292	332.702	331.465	329.984	328.756
62.5	338.578	326.965	317.307	312.334	308.876	305.476	302.593	301.546	299.693	298.413
65.0	303.923	294.057	285.005	280.727	277.556	275.196	272.580	271.386	269.470	267.914
67.5	268.320	259.668	252.471	248.028	245.093	243.011	240.876	239.484	238.340	235.894
70.0	228.900	222.543	216.994	213.387	211.240	209.755	208.169	207.170	206.900	203.895
72.5	187.557	183.934	180.784	178.501	177.180	176.556	175.199	174.913	175.305	172.109
75.0	145.173	144.450	143.952	143.409	142.949	143.399	142.014	142.702	143.586	140.342
77.5	105.347	107.347	109.045	109.681	109.560	110.259	108.766	109.453	109.567	106.987

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**CANDELA TABULATION - (Cont.)**

<b>80.0</b>	75.453	76.083	77.018	77.186	76.775	76.881	75.653	76.010	75.465	73.454
<b>82.5</b>	45.498	45.124	45.151	44.761	44.064	43.676	42.644	42.543	41.466	39.845
<b>85.0</b>	15.491	14.376	13.394	12.382	11.397	10.529	9.709	9.057	6.507	5.608
<b>87.5</b>	4.316	4.214	4.124	4.046	3.978	3.920	3.870	3.829	3.317	2.828
<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>	1663.616	1663.616	1663.616
<b>2.5</b>	1652.332	1652.358	1652.400
<b>5.0</b>	1658.008	1658.008	1658.008
<b>7.5</b>	1675.061	1675.239	1675.299
<b>10.0</b>	1691.515	1691.620	1691.655
<b>12.5</b>	1689.958	1689.828	1689.785
<b>15.0</b>	1665.758	1665.485	1665.485
<b>17.5</b>	1629.331	1627.824	1627.353
<b>20.0</b>	1605.818	1604.731	1603.177
<b>22.5</b>	1614.684	1611.196	1609.408
<b>25.0</b>	1646.881	1645.260	1645.235
<b>27.5</b>	1666.733	1664.388	1664.150
<b>30.0</b>	1662.457	1658.092	1655.672
<b>32.5</b>	1622.307	1618.428	1612.445
<b>35.0</b>	1537.231	1531.487	1524.046
<b>37.5</b>	1437.905	1430.937	1424.354
<b>40.0</b>	1322.293	1316.168	1307.527
<b>42.5</b>	1205.832	1198.821	1190.700
<b>45.0</b>	1033.667	1026.028	1014.058
<b>47.5</b>	858.761	849.419	837.415
<b>50.0</b>	702.209	695.725	686.631
<b>52.5</b>	546.440	540.283	535.846
<b>55.0</b>	390.614	383.192	385.062
<b>57.5</b>	356.231	354.712	356.556
<b>60.0</b>	326.976	325.908	328.050
<b>62.5</b>	297.658	297.079	299.544
<b>65.0</b>	267.300	267.986	271.038
<b>67.5</b>	235.234	235.326	238.327
<b>70.0</b>	202.015	202.412	205.615
<b>72.5</b>	168.758	169.515	172.904
<b>75.0</b>	134.745	136.454	140.192
<b>77.5</b>	103.021	103.633	105.611
<b>80.0</b>	70.615	70.651	71.031
<b>82.5</b>	38.228	37.682	36.450
<b>85.0</b>	5.608	4.655	1.869
<b>87.5</b>	2.815	2.337	0.935
<b>90.0</b>	0.000	0.000	0.000



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VF2-L88-750-HS\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	661.72	N.A.	8.00
0-30	1588.05	N.A.	19.20
0-40	3062.37	N.A.	37.10
0-60	6874.61	N.A.	83.20
0-80	8234.46	N.A.	99.70
0-90	8262.76	N.A.	100.00
10-90	8101.64	N.A.	98.10
20-40	2400.65	N.A.	29.10
20-50	4244.17	N.A.	51.40
40-70	4923.96	N.A.	59.60
60-80	1359.85	N.A.	16.50
70-80	248.12	N.A.	3.00
80-90	28.30	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	8262.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	161.12
10-20	500.60
20-30	926.33
30-40	1474.33
40-50	1843.52
50-60	1968.72
60-70	1111.73
70-80	248.12
80-90	28.30
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

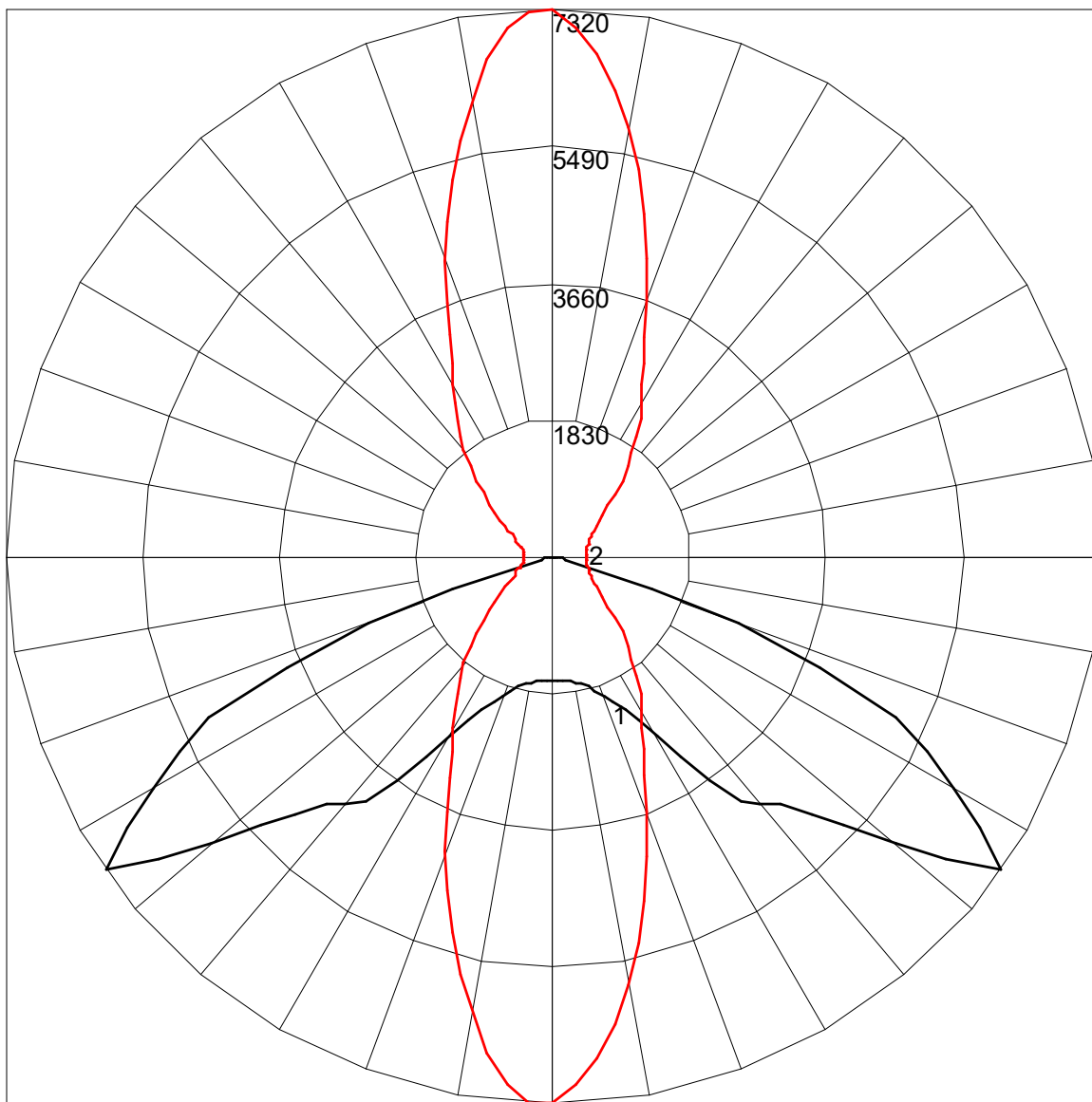
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VF2-L88-750-HS\_.IES**

**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	184	184	184	184	180	180	180	180	172	172	172	165	165	165	158	158	158	155
1	169	162	156	150	165	159	153	148	152	148	143	146	143	139	141	138	135	132
2	154	141	130	122	150	138	128	120	133	124	117	127	121	115	123	117	112	109
3	139	122	110	99	135	120	108	99	115	105	97	111	102	95	107	100	93	90
4	126	107	93	82	123	105	92	82	101	90	81	97	87	79	94	85	78	75
5	115	94	80	69	112	92	79	69	89	77	68	86	75	67	83	74	66	63
6	105	84	69	59	102	82	68	58	79	67	58	77	66	57	74	64	57	53
7	97	75	61	51	94	73	60	50	71	59	50	69	58	50	67	57	49	46
8	89	67	54	44	87	66	53	44	64	52	44	62	51	43	60	50	43	40
9	83	61	48	39	81	60	47	39	58	47	38	57	46	38	55	45	38	35
10	77	56	43	34	75	55	43	34	53	42	34	52	41	34	50	41	34	31

POLAR GRAPH



Maximum Candela = 7319.944 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.)