



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VF2-L106-750-HF_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]ATAL009606-R2
 [TESTLAB]ATAL-LABS
 [ISSUEDATE]28 NOV 2022
 [MANUFAC]WILLIAMS OUTDOOR
 [OTHER]H.E. WILLIAMS. INC. - CARTHAGE, MO.
 [LUMCAT]VF2-L106-750-HF-MTG-CLR-OPT-DIM-UNV
 [LUMINAIRE] MEDIUM ARCHITECTURAL FLOOD LIGHT WITH
 [MORE]HORIZONTAL FLOOD MOLDED REFRACTIVE CLEAR ACRYLIC LENS AND A
 [MORE]CLEAR GLASS LENS.
 [LAMP](32) LUXEON TX 5000K LEDS
 [BALLAST](1) PHILIPS ELECTRONIC DRIVER
 [OTHER]INPUT WATTS: 98, AMPS: 0.4433, VAC: 120.02, TEMP: 24.9 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	9786
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	98
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.72
Spacing Criterion (90-270)	3.16
Spacing Criterion (Diagonal)	2.10
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	60433	124263	169723
55	23783	89375	289821
65	21619	25614	240361
75	17405	16222	17160
85	0	5966	5824

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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>
0.0	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306
2.5	1630.635	1630.360	1630.013	1629.593	1629.103	1628.543	1627.914	1627.217	1626.454	1625.626
5.0	1675.535	1674.494	1673.285	1671.918	1670.401	1669.088	1668.505	1667.669	1666.671	1665.514
7.5	1731.386	1730.502	1729.279	1727.720	1726.809	1725.638	1724.131	1722.290	1718.857	1717.693
10.0	1793.808	1792.612	1790.929	1789.741	1788.501	1786.773	1784.560	1781.865	1778.693	1775.049
12.5	1849.660	1848.248	1846.561	1846.104	1845.105	1843.651	1841.872	1839.767	1837.114	1833.898
15.0	1879.228	1879.084	1878.951	1878.910	1878.568	1878.157	1877.903	1877.341	1876.300	1877.883
17.5	1902.882	1900.976	1900.200	1899.718	1898.713	1899.590	1900.467	1902.245	1904.907	1907.234
20.0	1944.205	1942.955	1942.717	1942.133	1942.184	1941.629	1942.772	1946.625	1948.762	1954.348
22.5	1984.359	1988.199	1989.302	1989.535	1992.407	1994.864	1999.804	2004.675	2013.604	2024.456
25.0	2035.465	2039.419	2042.530	2045.235	2051.362	2057.615	2067.049	2078.451	2096.673	2115.948
27.5	2100.755	2105.291	2109.179	2114.741	2123.301	2135.566	2148.521	2173.381	2193.995	2233.088
30.0	2153.008	2157.494	2163.933	2175.489	2190.225	2215.247	2246.158	2284.678	2328.984	2372.118
32.5	2180.386	2182.894	2190.748	2205.826	2226.607	2257.265	2301.944	2354.238	2419.267	2489.442
35.0	2099.226	2100.719	2114.878	2137.698	2172.493	2220.613	2291.257	2378.164	2477.679	2583.546
37.5	1990.930	1990.102	2006.500	2027.995	2064.769	2118.601	2187.271	2286.184	2394.240	2511.036
40.0	1833.233	1834.524	1850.955	1875.352	1916.952	1979.045	2063.029	2167.617	2287.873	2421.171
42.5	1675.535	1678.069	1692.766	1717.494	1759.107	1823.020	1912.553	2018.660	2137.328	2273.392
45.0	1475.128	1481.157	1494.873	1522.016	1560.390	1627.575	1724.752	1835.715	1965.779	2110.424
47.5	1274.721	1283.443	1294.561	1319.191	1355.875	1416.444	1508.200	1616.119	1746.053	1876.614
50.0	1006.781	1014.457	1026.494	1051.325	1089.781	1151.833	1241.477	1351.062	1483.029	1612.553
52.5	738.842	744.618	754.640	775.222	808.082	861.111	934.975	1024.439	1126.305	1231.960
55.0	470.902	474.712	482.098	497.852	522.952	563.557	618.184	681.207	754.230	841.611
57.5	432.025	433.445	433.772	436.946	443.203	456.336	471.706	479.995	485.365	500.301
60.0	393.149	394.610	394.981	398.103	404.045	415.570	428.960	436.465	443.637	457.350
62.5	354.272	355.832	356.124	359.220	364.693	373.687	384.945	393.159	401.727	411.973
65.0	315.395	317.105	317.207	320.299	325.099	331.652	340.970	350.265	358.621	366.113
67.5	275.423	277.166	277.507	280.342	285.299	289.681	297.575	306.165	313.148	319.145
70.0	235.451	237.209	237.823	240.179	245.018	247.768	253.677	260.881	265.452	269.148
72.5	195.479	197.245	198.176	200.221	204.386	205.747	209.055	215.402	217.193	218.415
75.0	155.507	157.274	158.561	160.201	163.467	163.625	163.832	169.738	168.465	167.063
77.5	116.630	118.387	119.539	120.979	123.362	124.210	123.752	128.355	125.808	123.241
80.0	77.754	79.499	80.525	81.687	83.566	85.036	85.301	87.993	86.720	85.903
82.5	38.877	40.606	41.507	42.306	43.944	45.698	47.108	47.962	47.928	48.886
85.0	0.000	1.706	2.486	2.862	4.438	6.243	9.086	8.053	9.321	12.081
87.5	0.000	0.821	1.099	1.104	1.662	2.243	3.393	2.296	2.517	3.547
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>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>
0.0	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306
2.5	1624.858	1624.221	1623.474	1622.656	1621.769	1620.812	1619.789	1618.701	1617.550	1616.338
5.0	1664.199	1662.729	1661.106	1659.333	1657.414	1655.306	1653.247	1650.956	1648.505	1645.898
7.5	1715.033	1712.120	1708.958	1705.557	1701.926	1698.076	1694.015	1689.640	1685.400	1678.869
10.0	1768.849	1766.609	1762.038	1758.116	1753.727	1748.814	1743.380	1737.431	1730.798	1726.034
12.5	1830.925	1828.156	1824.128	1818.873	1813.793	1809.725	1804.691	1798.686	1791.902	1785.833
15.0	1878.473	1878.527	1879.616	1879.906	1878.094	1874.874	1876.746	1875.840	1871.605	1864.513
17.5	1911.512	1917.982	1923.470	1929.878	1937.235	1943.820	1950.911	1958.906	1962.639	1961.454
20.0	1961.113	1965.108	1979.346	1987.156	2002.515	2019.075	2033.190	2046.336	2059.211	2068.891
22.5	2036.724	2053.560	2066.171	2088.414	2107.347	2124.834	2140.173	2151.922	2166.571	2177.736
25.0	2140.734	2164.551	2194.545	2220.111	2243.313	2261.893	2275.621	2288.612	2296.723	2299.623
27.5	2267.675	2307.570	2343.326	2375.225	2400.508	2418.773	2434.386	2441.552	2443.375	2439.046
30.0	2423.730	2470.676	2515.667	2551.870	2581.403	2600.576	2610.140	2610.408	2601.856	2594.105

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CANDELA TABULATION - (Cont.)

32.5	2560.916	2638.890	2708.747	2751.429	2778.711	2796.984	2799.714	2793.095	2781.927	2770.565
35.0	2663.958	2743.042	2818.121	2883.914	2945.117	2989.234	2991.200	2984.172	2974.804	2965.953
37.5	2632.822	2753.187	2870.799	2980.889	3031.300	3073.972	3108.420	3139.702	3153.282	3151.139
40.0	2552.072	2673.561	2787.438	2895.163	2996.817	3092.237	3155.113	3179.530	3212.908	3265.022
42.5	2410.036	2539.095	2666.662	2780.539	2881.154	2957.463	3037.603	3113.485	3197.764	3244.503
45.0	2250.004	2373.825	2486.003	2599.456	2693.089	2791.707	2876.120	2949.831	3033.188	3135.110
47.5	2001.859	2130.656	2258.882	2386.476	2481.849	2562.128	2645.831	2732.667	2829.559	2929.705
50.0	1721.749	1830.344	1950.191	2046.524	2157.018	2272.232	2394.816	2466.243	2557.657	2677.887
52.5	1341.775	1460.262	1575.056	1678.539	1769.281	1874.363	1975.127	2099.532	2250.960	2371.723
55.0	939.259	1045.900	1147.345	1250.472	1352.061	1446.070	1536.605	1634.179	1769.618	1942.974
57.5	525.159	618.354	720.272	825.023	933.580	1029.413	1122.970	1203.043	1277.573	1367.842
60.0	464.341	472.019	480.966	487.733	517.487	627.903	731.447	824.584	904.267	909.496
62.5	418.689	426.267	433.313	439.077	442.165	445.892	443.667	464.731	551.433	595.782
65.0	373.143	380.132	385.068	389.271	388.962	388.654	383.284	379.582	373.678	368.736
67.5	326.267	333.636	336.283	337.122	334.714	329.475	322.259	316.076	310.040	305.456
70.0	273.706	278.628	281.088	281.437	279.488	270.450	260.693	253.710	247.593	245.210
72.5	220.435	222.693	224.042	224.740	224.382	216.454	207.918	199.111	190.072	187.459
75.0	166.565	166.560	166.724	169.243	169.728	164.506	158.200	150.756	144.936	144.339
77.5	120.557	117.657	114.987	116.681	116.621	114.304	109.854	103.933	101.680	103.104
80.0	84.503	82.857	81.767	83.410	82.538	79.444	73.980	67.180	64.892	65.012
82.5	48.744	48.421	48.584	50.169	50.043	48.864	45.621	41.597	41.301	41.904
85.0	13.189	14.239	15.420	16.938	18.028	18.832	18.136	17.024	17.950	19.067
87.5	3.625	3.703	3.793	3.895	4.010	4.140	3.585	2.984	3.095	3.239
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	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306
2.5	1615.067	1613.739	1612.359	1610.928	1609.449	1607.926	1605.447	1604.853	1603.446	1602.024
5.0	1643.140	1639.358	1637.562	1634.973	1632.342	1629.670	1626.960	1624.211	1621.425	1618.603
7.5	1676.376	1672.230	1667.952	1663.549	1659.026	1654.388	1649.640	1645.293	1641.518	1638.423
10.0	1720.579	1714.620	1708.169	1701.243	1692.942	1688.279	1682.311	1677.817	1672.394	1666.037
12.5	1779.824	1772.824	1764.851	1756.555	1748.236	1738.430	1731.284	1723.251	1717.325	1710.769
15.0	1858.620	1850.903	1842.445	1833.523	1823.183	1812.208	1805.329	1795.724	1784.892	1776.044
17.5	1960.289	1957.681	1950.292	1940.648	1926.018	1917.451	1903.541	1888.197	1875.052	1860.403
20.0	2075.936	2075.579	2070.414	2059.887	2050.066	2035.982	2019.301	2001.420	1977.691	1964.905
22.5	2183.674	2191.431	2195.375	2192.688	2184.257	2171.837	2150.852	2127.349	2106.349	2079.208
25.0	2302.546	2304.511	2309.151	2310.616	2310.266	2299.696	2284.918	2269.352	2246.037	2228.424
27.5	2435.695	2429.401	2424.406	2428.124	2434.232	2440.295	2439.864	2434.130	2421.019	2407.144
30.0	2580.586	2572.846	2570.673	2565.279	2573.534	2596.411	2616.618	2629.831	2636.773	2627.465
32.5	2758.085	2747.397	2748.743	2760.661	2774.400	2790.252	2813.217	2858.170	2894.230	2918.753
35.0	2962.055	2968.445	2977.547	2984.191	3002.760	3040.834	3088.633	3143.516	3190.093	3224.050
37.5	3162.887	3180.990	3188.381	3205.798	3234.433	3275.835	3330.638	3389.779	3457.806	3527.962
40.0	3299.626	3317.141	3350.143	3377.715	3415.868	3459.604	3507.407	3585.123	3677.557	3769.951
42.5	3309.096	3391.409	3447.080	3518.963	3578.289	3619.969	3683.091	3766.712	3855.741	3929.079
45.0	3246.904	3350.268	3487.337	3611.465	3710.481	3831.672	3921.302	4002.100	4067.381	4118.491
47.5	3067.077	3236.452	3401.988	3609.353	3833.873	3998.318	4152.814	4278.838	4409.548	4526.735
50.0	2827.596	2995.965	3248.803	3528.636	3792.142	4091.557	4346.814	4586.558	4791.849	4945.783
52.5	2515.705	2738.689	3008.998	3311.630	3710.790	4069.078	4461.593	4776.575	5035.715	5244.848
55.0	2182.243	2386.650	2663.922	3070.439	3494.713	3960.540	4376.325	4753.284	5085.010	5406.043
57.5	1543.935	1839.257	2257.340	2675.451	3192.800	3641.955	4099.173	4544.988	4992.701	5428.956
60.0	873.581	1077.480	1547.831	2113.071	2591.745	3089.886	3622.747	4212.546	4755.215	4982.961
62.5	608.176	674.866	750.048	1204.178	1767.291	2346.231	2947.366	3622.791	3831.520	3852.035
65.0	408.052	472.517	542.853	600.842	774.999	1400.519	2060.111	2415.353	2643.196	2762.783
67.5	303.217	300.352	340.606	407.559	461.592	501.871	952.160	1376.595	1601.406	1686.135

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CANDELA TABULATION - (Cont.)

70.0	244.355	245.244	252.353	261.727	299.107	346.743	388.120	556.903	788.895	818.354
72.5	188.294	191.414	197.137	205.045	213.078	215.821	247.023	285.303	322.395	337.542
75.0	143.060	141.932	141.138	147.294	153.683	158.076	160.188	159.555	193.783	222.883
77.5	103.307	102.500	101.795	101.550	102.567	104.960	109.329	110.676	112.321	124.382
80.0	64.340	63.943	63.601	64.843	67.234	68.819	69.367	68.995	72.530	74.494
82.5	40.648	38.453	35.664	34.737	34.490	36.907	39.340	41.200	42.413	42.226
85.0	19.270	19.056	18.421	19.064	19.740	20.152	20.212	20.050	19.582	20.383
87.5	3.404	3.594	3.813	4.561	5.455	6.975	8.335	9.076	9.605	9.859
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>75.0</u>	<u>77.5</u>	<u>80.0</u>	<u>82.5</u>	<u>85.0</u>	<u>87.5</u>	<u>90.0</u>	<u>92.5</u>	<u>95.0</u>	<u>97.5</u>
0.0	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306
2.5	1600.588	1599.140	1597.681	1596.212	1594.735	1593.250	1591.759	1590.143	1588.527	1586.915
5.0	1615.743	1611.628	1610.065	1607.334	1604.555	1601.735	1598.877	1595.987	1593.064	1590.107
7.5	1634.881	1631.198	1627.380	1623.444	1619.551	1615.562	1611.471	1607.812	1604.051	1600.024
10.0	1662.301	1657.830	1653.097	1648.110	1643.268	1639.248	1635.016	1630.552	1625.838	1622.250
12.5	1703.615	1697.499	1692.832	1687.841	1682.494	1677.261	1671.703	1668.455	1664.858	1661.324
15.0	1767.936	1758.708	1751.009	1744.834	1737.810	1731.452	1725.911	1721.186	1717.299	1714.123
17.5	1847.225	1834.520	1826.026	1821.772	1818.115	1813.251	1806.950	1798.052	1790.607	1783.048
20.0	1947.267	1931.888	1919.769	1909.820	1906.968	1902.214	1895.289	1886.505	1878.862	1868.718
22.5	2063.544	2042.656	2028.271	2011.256	2003.708	1992.312	1986.550	1981.309	1978.495	1974.045
25.0	2205.940	2186.721	2167.440	2151.324	2138.975	2128.834	2119.789	2116.010	2112.906	2110.129
27.5	2390.230	2371.563	2351.586	2336.202	2321.543	2310.951	2301.631	2296.334	2291.208	2288.531
30.0	2610.971	2594.790	2579.735	2563.703	2548.544	2538.555	2528.634	2521.787	2512.878	2508.487
32.5	2919.636	2905.239	2880.981	2852.379	2831.272	2818.204	2805.152	2799.476	2791.206	2787.510
35.0	3248.312	3257.192	3248.135	3223.530	3193.365	3162.758	3132.046	3114.276	3099.779	3095.256
37.5	3594.529	3639.692	3654.661	3636.401	3588.841	3529.085	3471.534	3437.359	3418.151	3422.900
40.0	3834.361	3870.273	3869.861	3836.737	3781.888	3726.770	3686.178	3670.734	3665.190	3676.220
42.5	3980.288	4008.330	4012.473	3992.206	3952.681	3917.018	3900.821	3905.364	3906.814	3905.698
45.0	4205.984	4272.399	4310.157	4313.745	4275.565	4210.290	4142.843	4098.456	4071.265	4065.788
47.5	4617.731	4675.325	4698.360	4684.152	4621.802	4514.766	4384.865	4282.116	4223.914	4214.186
50.0	5043.309	5112.292	5150.870	5149.381	5088.338	4979.173	4836.055	4699.234	4612.047	4571.158
52.5	5420.225	5557.427	5634.383	5640.247	5572.222	5448.490	5287.244	5123.664	5021.837	4994.325
55.0	5698.564	5951.536	6100.225	6135.591	6057.545	5919.741	5738.434	5543.192	5429.101	5420.190
57.5	5852.752	5996.745	5831.649	5576.515	5295.300	5034.862	5180.469	4699.567	4731.633	4999.465
60.0	4951.958	4885.153	4775.649	4579.562	4336.861	4101.050	4622.506	3817.628	3869.241	4521.543
62.5	3822.812	3775.722	3680.292	3548.788	3359.583	3160.773	4064.542	2938.535	3003.268	4001.644
65.0	2727.336	2650.118	2568.742	2483.897	2361.008	2211.636	3506.578	2064.230	2126.123	3379.128
67.5	1668.775	1565.449	1588.194	1717.018	1757.097	1693.614	2668.263	1573.143	2020.214	2685.740
70.0	757.118	960.865	1114.296	1214.587	1251.753	1195.895	1829.948	1104.284	1821.018	1972.557
72.5	431.764	576.776	697.703	754.419	754.704	694.941	991.632	641.247	1086.950	1274.506
75.0	239.432	294.349	363.145	360.670	288.812	194.291	153.317	185.594	374.015	599.897
77.5	142.543	144.844	145.379	115.989	122.082	122.677	119.368	117.588	118.721	118.957
80.0	73.780	74.053	70.385	81.361	87.055	89.037	85.420	85.551	87.162	86.035
82.5	41.842	40.874	43.902	47.914	54.224	53.446	51.471	53.431	57.243	53.226
85.0	20.715	21.779	24.112	25.721	25.894	22.148	17.522	24.154	29.226	29.512
87.5	9.699	10.146	10.684	12.132	12.190	9.291	8.761	10.840	12.909	13.626
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>100.0</u>	<u>102.5</u>	<u>105.0</u>	<u>107.5</u>	<u>110.0</u>	<u>112.5</u>	<u>115.0</u>	<u>117.5</u>	<u>120.0</u>	<u>122.5</u>
0.0	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306
2.5	1585.313	1583.724	1582.154	1580.606	1579.086	1576.974	1576.138	1574.702	1573.292	1571.911

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CANDELA TABULATION - (Cont.)

5.0	1587.116	1584.094	1581.054	1577.992	1574.911	1571.814	1568.705	1565.588	1562.467	1559.345
7.5	1596.785	1593.251	1589.551	1585.670	1581.132	1577.483	1573.509	1569.516	1565.371	1561.074
10.0	1618.889	1615.211	1611.198	1606.911	1603.093	1598.882	1593.350	1589.594	1584.792	1581.626
12.5	1657.358	1652.971	1649.125	1645.564	1641.374	1636.531	1633.389	1628.861	1627.238	1623.620
15.0	1710.165	1706.486	1703.154	1699.004	1695.689	1694.344	1692.234	1689.448	1686.456	1682.607
17.5	1775.705	1770.495	1769.777	1768.529	1768.044	1766.059	1765.106	1763.006	1756.574	1754.108
20.0	1864.266	1861.182	1860.532	1860.684	1859.613	1860.459	1859.185	1856.056	1850.361	1842.964
22.5	1973.832	1972.283	1974.036	1973.987	1977.048	1976.846	1974.725	1969.666	1961.062	1950.828
25.0	2108.822	2110.567	2111.707	2116.613	2118.429	2116.528	2108.399	2107.112	2098.631	2080.343
27.5	2285.877	2288.867	2291.461	2292.504	2291.319	2290.194	2291.789	2283.642	2265.000	2239.351
30.0	2506.070	2505.034	2509.852	2520.447	2527.101	2531.322	2524.271	2506.841	2476.909	2452.216
32.5	2790.454	2797.786	2806.505	2814.274	2822.395	2819.176	2801.646	2792.548	2773.294	2740.668
35.0	3103.454	3117.982	3131.445	3146.784	3167.011	3176.939	3169.085	3140.940	3106.013	3057.791
37.5	3446.999	3476.270	3497.656	3515.471	3523.807	3521.900	3508.135	3480.015	3404.113	3342.162
40.0	3704.617	3741.925	3787.937	3835.355	3834.307	3786.773	3736.309	3679.468	3622.437	3545.147
42.5	3906.458	3906.825	3925.281	3956.348	3972.961	3956.036	3913.079	3853.644	3800.701	3730.541
45.0	4069.786	4073.181	4076.368	4079.564	4119.568	4137.558	4123.274	4090.754	4033.350	3968.196
47.5	4240.670	4301.111	4363.712	4406.232	4423.494	4415.452	4416.350	4400.566	4351.615	4260.051
50.0	4585.565	4643.989	4713.710	4787.914	4829.569	4840.610	4820.536	4766.927	4686.539	4585.227
52.5	5024.820	5089.808	5151.850	5207.216	5257.095	5292.421	5276.398	5188.719	5064.073	4849.159
55.0	5467.582	5523.247	5570.912	5611.552	5649.404	5688.117	5690.668	5602.199	5366.454	5126.642
57.5	5420.701	5758.460	5968.371	5993.652	6013.627	5993.352	5926.848	5776.357	5568.792	5082.014
60.0	4837.857	5159.886	5552.628	6023.625	6299.442	6173.101	5861.078	5562.871	5253.458	4908.179
62.5	4221.572	4517.944	4869.530	5282.961	5732.357	5935.244	5439.768	4994.014	4592.644	4213.838
65.0	3558.987	3797.425	4073.487	4383.605	4519.461	4566.542	4608.212	4154.203	3706.566	3054.474
67.5	2840.511	2934.401	3053.838	3136.881	3106.164	3085.597	3190.276	3096.562	2323.389	1576.138
70.0	2122.768	2087.317	1831.762	1669.061	1635.824	1907.920	1855.379	1484.312	863.262	438.493
72.5	1404.845	1319.129	928.266	413.594	754.061	884.461	676.074	355.196	353.849	321.051
75.0	737.569	611.183	290.073	272.651	234.302	214.794	232.752	235.330	225.183	201.164
77.5	233.490	170.775	170.613	147.114	132.179	135.942	142.802	133.563	126.712	124.975
80.0	77.737	84.518	85.353	87.910	86.917	83.683	84.662	83.922	81.284	77.162
82.5	49.368	47.209	50.228	51.643	52.009	50.615	48.118	44.076	39.737	39.404
85.0	28.311	26.777	26.267	25.983	24.965	25.350	25.301	24.759	24.106	23.374
87.5	12.905	12.929	12.911	12.954	12.550	11.848	10.939	9.866	8.744	8.140
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	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306
2.5	1570.561	1569.244	1567.963	1566.720	1565.517	1564.357	1563.240	1562.171	1561.151	1560.182
5.0	1556.226	1553.224	1550.500	1547.782	1545.073	1542.380	1539.706	1536.810	1534.950	1533.036
7.5	1556.626	1552.030	1547.290	1542.888	1539.199	1534.571	1531.931	1528.671	1525.242	1521.659
10.0	1577.811	1573.333	1568.188	1562.373	1555.189	1551.542	1546.515	1540.893	1534.702	1527.969
12.5	1619.697	1615.244	1609.856	1603.532	1596.763	1587.830	1578.051	1567.486	1556.171	1545.765
15.0	1677.578	1670.616	1661.602	1651.204	1640.993	1628.738	1614.163	1596.681	1582.669	1566.212
17.5	1747.179	1737.994	1724.954	1710.064	1694.047	1675.468	1652.695	1630.958	1609.258	1586.925
20.0	1831.786	1817.617	1799.343	1776.836	1752.950	1726.924	1700.235	1673.164	1644.981	1618.338
22.5	1934.387	1911.050	1881.418	1856.781	1827.466	1795.266	1766.012	1734.757	1703.005	1671.427
25.0	2056.354	2020.853	1996.685	1965.443	1930.199	1892.943	1854.477	1812.276	1773.886	1732.625
27.5	2209.878	2184.013	2152.198	2111.276	2066.386	2019.840	1967.285	1915.237	1857.126	1804.086
30.0	2426.694	2389.700	2334.886	2288.720	2232.638	2165.804	2099.362	2029.919	1958.052	1888.678
32.5	2690.857	2634.045	2576.671	2499.570	2413.888	2337.435	2249.878	2160.655	2075.591	1987.090
35.0	3000.348	2922.152	2832.696	2744.230	2636.114	2522.116	2418.934	2313.366	2199.013	2096.423
37.5	3257.236	3174.445	3064.186	2952.099	2846.403	2714.997	2576.505	2447.653	2321.959	2200.811
40.0	3451.231	3350.294	3238.765	3119.901	2992.482	2854.305	2712.196	2552.503	2388.292	2232.081

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CANDELA TABULATION - (Cont.)

42.5	3638.742	3527.292	3415.893	3285.063	3139.945	2963.816	2775.996	2594.212	2411.692	2241.832
45.0	3874.416	3757.381	3621.514	3448.438	3255.211	3054.460	2849.149	2588.217	2359.769	2146.735
47.5	4145.248	3996.392	3798.303	3590.388	3370.832	3069.477	2780.383	2509.265	2258.069	2043.088
50.0	4401.144	4182.891	3971.392	3641.285	3313.524	3000.714	2693.194	2395.735	2123.241	1894.208
52.5	4636.491	4316.679	3936.173	3589.018	3241.865	2872.652	2536.598	2225.871	1960.957	1707.497
55.0	4698.265	4293.558	3895.456	3444.608	3045.198	2673.631	2335.213	1973.380	1644.510	1346.651
57.5	4644.976	4142.112	3639.963	3198.141	2756.318	2315.806	1965.092	1605.425	1266.685	973.543
60.0	4290.332	3763.567	3242.324	2671.114	2151.398	1771.381	1503.157	1213.811	879.811	658.753
62.5	3714.414	2976.237	2509.680	1994.380	1492.960	1104.424	1025.510	956.167	746.814	577.131
65.0	2342.427	1754.878	1454.705	1318.193	1047.914	826.556	762.502	718.462	587.897	463.059
67.5	849.968	529.648	772.189	927.942	775.429	600.428	503.693	455.361	386.841	316.619
70.0	395.890	357.098	438.873	504.634	446.786	325.723	248.506	221.655	223.167	221.865
72.5	280.042	242.703	220.129	178.249	173.680	175.786	178.093	179.408	180.552	180.047
75.0	161.023	152.245	144.915	139.590	135.239	135.540	137.338	138.067	138.073	138.171
77.5	117.238	110.140	104.744	100.476	96.897	96.008	97.238	97.488	96.281	97.590
80.0	71.651	66.964	63.736	62.985	63.140	64.202	67.056	69.114	69.445	70.190
82.5	39.520	40.599	41.256	41.455	41.062	41.040	42.701	43.951	43.614	43.274
85.0	22.644	22.107	21.270	20.216	19.241	18.364	18.772	18.998	17.971	16.686
87.5	7.608	6.572	5.659	4.859	4.643	4.469	5.014	5.519	5.346	5.019
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	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306	1592.306
2.5	1559.266	1558.406	1557.564	1556.891	1556.286	1555.749	1555.281	1554.884	1554.558	1554.304
5.0	1531.161	1529.334	1527.560	1525.848	1524.205	1522.639	1521.159	1519.517	1517.547	1517.075
7.5	1517.937	1514.094	1510.149	1506.287	1504.712	1502.849	1500.999	1499.172	1497.377	1495.724
10.0	1520.867	1516.025	1510.978	1505.728	1500.416	1495.097	1492.003	1488.934	1485.907	1482.940
12.5	1535.662	1524.949	1513.790	1504.411	1496.813	1489.171	1481.514	1475.809	1471.527	1467.395
15.0	1548.979	1532.031	1518.370	1504.682	1489.443	1480.453	1470.354	1460.269	1453.857	1449.498
17.5	1565.827	1545.663	1525.273	1507.696	1492.364	1476.993	1464.796	1455.080	1445.296	1440.313
20.0	1594.453	1566.805	1547.877	1525.886	1505.470	1488.616	1469.766	1459.871	1449.172	1441.109
22.5	1636.965	1610.254	1581.244	1555.190	1530.921	1508.820	1489.517	1471.897	1459.912	1448.378
25.0	1695.102	1657.595	1621.864	1587.475	1558.171	1530.589	1507.722	1487.077	1472.147	1458.823
27.5	1752.619	1705.458	1660.117	1622.265	1584.192	1558.311	1531.594	1512.920	1496.364	1483.565
30.0	1822.923	1763.210	1711.601	1662.146	1625.019	1589.870	1565.052	1546.651	1531.054	1520.997
32.5	1905.450	1832.197	1767.868	1717.628	1672.482	1635.741	1611.442	1593.025	1580.418	1573.606
35.0	1997.336	1910.453	1837.502	1773.353	1717.382	1674.597	1643.679	1625.882	1616.714	1612.562
37.5	2074.861	1960.646	1862.685	1786.882	1728.914	1686.512	1657.415	1646.813	1643.017	1644.988
40.0	2093.021	1970.795	1871.923	1783.530	1709.300	1661.233	1631.518	1614.458	1607.355	1607.107
42.5	2063.625	1920.500	1800.025	1706.854	1638.030	1597.092	1573.115	1560.585	1558.158	1561.664
45.0	1971.643	1817.845	1704.909	1617.135	1547.356	1501.088	1476.011	1459.738	1453.685	1451.459
47.5	1850.674	1687.353	1569.283	1480.113	1418.399	1375.068	1353.989	1341.623	1337.144	1334.742
50.0	1691.343	1539.329	1414.015	1316.492	1250.334	1186.959	1145.132	1129.678	1129.316	1124.898
52.5	1480.855	1299.532	1137.314	1043.435	994.341	934.884	879.338	874.837	897.071	904.800
55.0	1140.772	1003.391	855.490	755.852	717.292	691.250	612.476	611.581	659.588	684.579
57.5	744.714	673.033	557.077	493.686	492.605	537.802	471.347	480.995	537.735	570.606
60.0	493.807	503.579	482.225	426.364	416.329	461.165	404.838	403.459	443.164	467.603
62.5	447.977	411.144	407.031	363.417	348.951	365.683	341.815	332.483	352.545	364.741
65.0	373.270	326.277	322.355	295.473	281.464	280.488	273.073	265.803	265.529	262.005
67.5	272.348	247.316	240.064	234.604	230.287	227.940	227.453	225.142	224.579	222.514
70.0	218.371	212.100	205.922	201.239	197.780	195.107	193.493	191.399	190.626	188.326
72.5	179.068	175.444	171.253	167.591	165.023	162.805	159.497	157.703	156.663	154.267
75.0	138.750	137.936	136.130	133.700	132.056	130.936	125.470	124.040	122.694	120.213
77.5	100.309	102.562	103.066	101.794	100.812	100.438	95.426	94.651	93.475	91.782

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CANDELA TABULATION - (Cont.)

80.0	71.350	72.522	72.781	71.569	70.589	70.016	66.415	65.827	64.760	63.581
82.5	42.817	42.765	42.502	41.357	40.388	39.679	37.456	36.915	36.085	35.333
85.0	14.573	13.205	12.221	11.149	10.196	9.363	8.532	7.939	6.571	6.571
87.5	4.099	3.703	3.625	3.556	3.496	3.445	3.401	3.365	3.336	3.314
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>175.0</u>	<u>177.5</u>	<u>180.0</u>
0.0	1592.306	1592.306	1592.306
2.5	1554.122	1554.013	1553.977
5.0	1516.601	1516.125	1515.648
7.5	1495.363	1495.063	1494.841
10.0	1480.558	1479.425	1478.414
12.5	1462.887	1461.617	1460.344
15.0	1444.972	1442.596	1441.179
17.5	1435.332	1431.450	1429.790
20.0	1435.418	1430.262	1428.403
22.5	1440.402	1432.323	1430.228
25.0	1451.560	1445.088	1443.005
27.5	1475.644	1470.775	1468.088
30.0	1514.065	1511.525	1509.077
32.5	1570.220	1571.100	1569.309
35.0	1612.236	1614.088	1613.479
37.5	1649.852	1653.062	1653.633
40.0	1609.885	1609.963	1613.114
42.5	1566.254	1566.023	1572.594
45.0	1452.675	1451.874	1455.416
47.5	1335.913	1335.125	1338.238
50.0	1118.175	1116.393	1119.944
52.5	896.391	894.947	901.650
55.0	675.119	670.944	683.356
57.5	568.062	568.490	577.129
60.0	465.651	465.220	470.903
62.5	363.026	362.166	364.676
65.0	256.772	258.449	258.449
67.5	221.983	222.421	222.858
70.0	186.081	186.043	187.266
72.5	150.254	149.628	151.675
75.0	113.706	112.984	116.083
77.5	86.923	85.763	87.610
80.0	59.504	58.437	59.137
82.5	32.057	31.145	30.663
85.0	4.380	3.822	2.190
87.5	2.198	1.917	1.095
90.0	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	646.48	N.A.	6.60
0-30	1596.66	N.A.	16.30
0-40	3261.01	N.A.	33.30
0-60	8072.06	N.A.	82.50
0-80	9758.12	N.A.	99.70
0-90	9786.42	N.A.	100.00
10-90	9632.63	N.A.	98.40
20-40	2614.53	N.A.	26.70
20-50	4913.64	N.A.	50.20
40-70	6230.75	N.A.	63.70
60-80	1686.05	N.A.	17.20
70-80	266.35	N.A.	2.70
80-90	28.31	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	9786.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	153.79
10-20	492.69
20-30	950.18
30-40	1664.35
40-50	2299.11
50-60	2511.94
60-70	1419.7
70-80	266.35
80-90	28.31
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
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	120	120	120	120	117	117	117	117	112	112	112	107	107	107	103	103	103	101
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	99	91	84	78	97	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	79	70	63	87	77	69	63	74	67	62	71	65	60	69	64	59	57
4	81	68	59	52	79	67	58	52	64	57	51	62	55	50	60	54	49	47
5	74	60	50	43	71	59	50	43	56	49	42	54	47	42	53	46	41	39
6	67	53	43	36	65	52	43	36	50	42	36	48	41	35	47	40	35	33
7	62	47	38	31	60	46	37	31	45	36	31	43	36	30	42	35	30	28
8	57	42	33	27	55	41	33	27	40	32	26	39	32	26	38	31	26	24
9	52	38	29	23	51	37	29	23	36	29	23	35	28	23	34	28	23	21
10	49	35	26	21	47	34	26	20	33	26	20	32	25	20	31	25	20	18

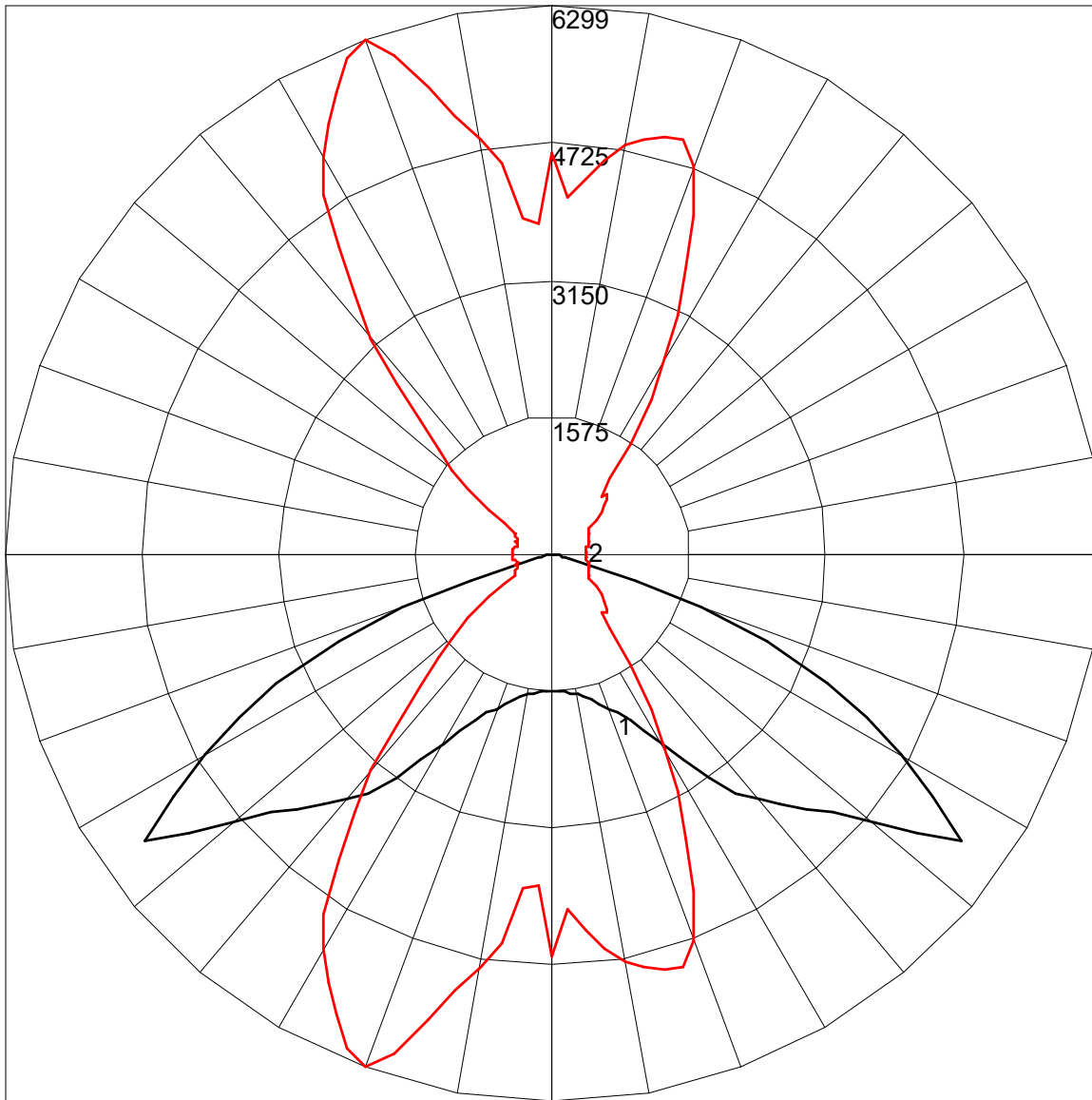
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VF2-L106-750-HF_.IES

UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	18.3	19.8	18.7	20.1	20.4	7.9	7.9	7.9	7.9	7.9
	3H	19.9	21.2	20.3	21.5	21.8	7.9	7.9	7.9	7.9	7.9
	4H	20.4	21.6	20.8	22.0	22.3	7.9	7.9	7.9	7.9	7.9
	6H	20.7	21.8	21.2	22.2	22.6	7.9	7.9	7.9	7.9	7.9
	8H	20.8	21.8	21.2	22.2	22.6	7.9	7.9	7.9	7.9	7.9
	12H	20.8	21.8	21.2	22.1	22.6	7.9	7.9	7.9	7.9	7.9
4H	2H	18.4	19.6	18.8	19.9	20.3	10.2	11.4	10.6	11.8	12.1
	3H	20.3	21.2	20.7	21.6	22.0	10.8	11.8	11.3	12.2	12.6
	4H	20.9	21.8	21.4	22.2	22.7	10.9	11.8	11.4	12.2	12.6
	6H	21.4	22.1	21.8	22.6	23.0	10.9	11.7	11.4	12.1	12.6
	8H	21.4	22.1	21.9	22.6	23.1	10.9	11.6	11.4	12.1	12.5
	12H	21.4	22.0	21.9	22.5	23.0	10.9	11.6	11.4	12.0	12.5
8H	4H	20.9	21.6	21.4	22.0	22.5	12.5	13.2	13.0	13.7	14.2
	6H	21.4	22.0	21.9	22.5	23.0	12.6	13.2	13.1	13.7	14.2
	8H	21.5	22.0	22.0	22.5	23.0	12.6	13.2	13.1	13.7	14.2
	12H	21.5	21.9	22.0	22.4	23.0	12.6	13.1	13.1	13.6	14.2
12H	4H	20.9	21.5	21.3	22.0	22.4	12.8	13.4	13.3	13.9	14.4
	6H	21.3	21.9	21.9	22.3	22.9	12.9	13.5	13.4	13.9	14.5
	8H	21.4	21.9	22.0	22.4	23.0	12.9	13.4	13.5	13.9	14.5

Maximum UGR = 23.1

POLAR GRAPH



Maximum Candela = 6299.442 Located At Horizontal Angle = 110, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)