



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VF2-L57-750-VF_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]ATAL009605-R2
 [TESTLAB]ATAL-LABS
 [ISSUE DATE]30 NOV 2022
 [MANUFACTURER]WILLIAMS OUTDOOR
 [OTHER]H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMEN CATEGORY]VF2-L57-750-VF-MTG-CLR-OPT-DIM-UNV
 [LUMINAIRE]VOLTAIRE MEDIUM ARCHITECTURAL FLOOD LIGHT WITH
 [MORE]VERTICAL FLOOD MOLDED REFRACTIVE CLEAR ACRYLIC LENS AND A
 [MORE]CLEAR GLASS LENS.
 [LAMP CATEGORY]LUXEON TX 5000K LEDS
 [BALLAST](1) PHILIPS ELECTRONIC DRIVER
 [OTHER]INPUT WATTS: 43, VAC: 120.05, TEMP: 25.6 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	5360
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	43
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.62
Spacing Criterion (90-270)	1.50
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Unknown
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.69 ft
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	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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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	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517
2.5	1847.549	1846.573	1846.191	1846.406	1847.220	1848.636	1850.652	1853.267	1856.478	1860.282
5.0	1574.997	1573.511	1573.013	1573.496	1574.947	1578.107	1586.129	1594.346	1603.483	1613.525
7.5	1456.645	1456.952	1457.298	1457.661	1461.554	1465.679	1469.731	1473.683	1477.546	1484.494
10.0	1478.267	1479.973	1481.117	1485.147	1490.063	1494.273	1497.738	1500.418	1508.822	1516.311
12.5	1575.851	1579.314	1581.072	1589.763	1595.774	1600.565	1608.041	1619.838	1629.949	1638.290
15.0	1697.902	1702.380	1709.472	1719.873	1728.671	1740.285	1758.935	1775.384	1786.252	1810.288
17.5	1817.165	1819.191	1830.757	1846.292	1860.349	1888.467	1914.314	1941.003	1975.397	2005.977
20.0	1934.038	1936.992	1951.993	1968.167	1993.122	2024.982	2056.931	2107.577	2150.413	2192.636
22.5	2067.753	2071.075	2085.944	2099.681	2131.325	2164.860	2205.672	2249.352	2294.848	2341.929
25.0	2112.325	2116.504	2131.787	2148.611	2180.749	2217.574	2266.740	2319.541	2378.285	2434.728
27.5	2152.453	2156.435	2168.341	2186.367	2214.084	2254.619	2301.762	2361.198	2417.022	2481.737
30.0	2252.395	2253.061	2257.298	2267.609	2281.718	2317.432	2357.429	2413.937	2485.816	2555.679
32.5	2443.722	2442.248	2441.724	2446.678	2458.814	2488.018	2528.697	2575.939	2634.085	2700.184
35.0	2432.926	2435.305	2435.362	2446.131	2470.273	2510.628	2573.919	2659.507	2763.183	2879.052
37.5	2371.600	2375.496	2367.625	2370.361	2381.246	2406.850	2449.830	2546.051	2669.854	2818.866
40.0	2151.966	2157.011	2153.249	2155.505	2170.703	2199.564	2260.401	2368.009	2523.537	2733.892
42.5	1932.331	1936.844	1930.661	1924.199	1934.075	1949.479	2010.629	2108.619	2239.558	2421.356
45.0	1379.830	1397.053	1403.174	1415.797	1453.611	1493.157	1586.286	1697.801	1846.583	2042.539
47.5	827.329	854.069	862.009	878.866	920.160	963.331	1042.633	1118.093	1234.536	1391.806
50.0	670.284	686.207	683.879	685.107	696.279	706.737	724.533	726.924	738.547	753.608
52.5	513.240	522.563	523.147	528.145	538.867	552.388	567.351	579.207	597.044	626.612
55.0	356.195	359.009	363.251	370.756	382.503	396.808	413.848	434.232	458.617	492.929
57.5	320.348	321.152	321.834	323.293	326.295	328.634	333.688	342.153	354.387	369.113
60.0	284.501	284.609	285.495	287.019	289.514	290.792	294.974	301.445	311.686	323.716
62.5	248.654	248.078	249.178	250.722	252.562	252.836	255.766	260.279	267.598	276.655
65.0	212.807	211.557	212.882	214.402	215.487	214.708	215.866	217.951	222.208	228.309
67.5	183.503	182.383	183.547	183.912	184.706	183.010	182.649	182.647	183.337	184.921
70.0	154.200	153.279	154.447	153.820	155.011	153.089	152.475	152.755	152.907	153.713
72.5	124.896	124.180	125.340	123.847	125.282	123.202	122.287	122.960	122.350	122.195
75.0	95.592	95.085	96.227	93.926	95.532	93.343	92.093	93.244	91.690	90.419
77.5	71.694	71.530	72.941	71.465	72.426	70.940	69.560	70.322	68.035	65.727
80.0	47.796	47.994	49.805	49.329	50.102	49.763	49.013	49.592	48.259	46.863
82.5	23.898	24.447	26.683	27.146	27.896	28.626	28.573	29.102	28.655	28.183
85.0	0.000	0.893	3.568	4.930	5.768	7.513	8.207	8.704	9.163	9.632
87.5	0.000	0.426	1.711	2.296	2.597	3.348	3.534	3.579	3.633	3.695
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	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517
2.5	1865.307	1872.927	1880.494	1888.561	1897.114	1906.137	1915.614	1925.525	1935.854	1946.580
5.0	1624.454	1636.252	1648.898	1662.369	1676.642	1691.300	1708.729	1726.085	1743.981	1762.381
7.5	1496.676	1510.831	1525.130	1539.518	1553.946	1568.365	1582.734	1595.854	1610.599	1627.108
10.0	1519.953	1531.447	1541.894	1552.955	1563.023	1571.959	1579.716	1586.257	1590.055	1604.403
12.5	1646.776	1654.968	1662.819	1670.513	1676.741	1682.295	1685.054	1684.965	1684.496	1689.832
15.0	1826.375	1838.624	1846.824	1862.861	1870.429	1869.825	1873.369	1868.916	1864.720	1859.172
17.5	2034.971	2063.394	2088.038	2105.772	2114.055	2118.086	2115.204	2094.903	2085.823	2066.350
20.0	2233.894	2266.966	2300.255	2324.504	2335.630	2330.480	2325.290	2308.757	2275.353	2240.437
22.5	2386.137	2423.611	2458.861	2469.350	2473.582	2464.471	2444.995	2423.028	2382.544	2343.792
25.0	2485.859	2529.928	2550.798	2566.095	2562.250	2552.318	2523.526	2485.877	2437.903	2378.358
27.5	2537.831	2583.840	2620.164	2640.872	2647.801	2634.227	2604.074	2557.827	2499.592	2429.717
30.0	2624.358	2680.595	2721.292	2744.475	2749.872	2749.699	2727.359	2679.435	2610.803	2535.028

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CANDELA TABULATION - (Cont.)

32.5	2767.304	2834.610	2896.387	2949.515	2985.603	2989.483	2944.962	2879.061	2807.848	2690.809
35.0	2972.411	3065.865	3158.260	3243.069	3312.395	3320.643	3286.387	3197.041	3039.396	2880.637
37.5	2991.821	3184.958	3383.800	3581.296	3616.880	3619.035	3565.855	3453.437	3317.750	3080.981
40.0	2958.624	3161.549	3355.120	3508.908	3630.661	3727.211	3707.974	3560.362	3356.124	3181.356
42.5	2648.667	2882.938	3129.051	3306.343	3407.132	3406.267	3410.008	3347.325	3293.491	3043.442
45.0	2242.373	2421.684	2573.098	2732.041	2842.303	2951.983	2965.402	2892.207	2777.841	2657.633
47.5	1582.504	1778.977	1939.008	2092.582	2209.899	2259.018	2284.515	2271.334	2207.579	2082.401
50.0	879.417	1052.653	1224.107	1394.219	1533.491	1595.473	1612.428	1594.652	1550.992	1481.060
52.5	677.054	701.733	732.675	772.333	892.072	1011.398	1065.944	1059.654	1010.819	969.394
55.0	531.096	561.558	597.583	630.032	644.857	650.280	647.192	696.002	695.016	639.558
57.5	388.880	424.794	461.610	493.184	518.297	529.252	533.272	515.545	488.565	479.815
60.0	337.232	351.457	366.302	381.677	399.379	421.600	429.491	419.452	402.950	394.821
62.5	287.748	299.487	312.352	326.470	337.592	348.158	344.654	338.680	334.993	329.814
65.0	236.787	246.303	257.337	269.737	279.610	287.174	283.453	278.946	275.278	271.548
67.5	187.887	192.006	201.332	211.672	221.820	226.446	225.398	223.169	220.461	217.352
70.0	155.536	158.214	161.981	166.594	171.833	170.644	170.208	169.205	167.637	166.963
72.5	122.805	124.194	126.492	130.431	134.821	133.852	132.142	127.374	122.033	121.024
75.0	89.754	89.745	90.482	94.125	97.468	98.218	97.500	94.434	91.787	91.755
77.5	63.354	61.012	58.898	59.611	60.969	63.548	64.076	62.878	62.588	63.522
80.0	45.157	43.780	42.935	43.653	43.952	43.945	42.264	39.762	38.396	37.563
82.5	27.135	26.828	26.998	27.718	27.981	28.053	26.972	25.534	25.121	24.881
85.0	9.240	10.066	11.076	11.795	12.071	12.223	12.031	11.709	12.090	12.479
87.5	3.249	3.568	3.941	4.047	3.864	3.591	3.348	3.093	3.217	3.366
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	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517
2.5	1957.682	1969.140	1980.932	1993.034	2005.424	2018.078	2038.192	2043.956	2056.962	2070.125
5.0	1781.251	1805.533	1823.360	1847.903	1872.966	1898.502	1924.465	1950.808	1977.483	2004.440
7.5	1646.037	1673.278	1700.724	1728.340	1756.100	1783.983	1811.971	1843.841	1881.996	1920.848
10.0	1620.852	1636.262	1650.632	1663.972	1677.119	1708.494	1741.917	1776.388	1809.646	1845.156
12.5	1693.113	1693.668	1691.532	1695.418	1707.309	1715.198	1724.277	1739.027	1774.053	1807.921
15.0	1846.752	1831.218	1818.960	1810.004	1797.902	1776.671	1777.176	1775.944	1773.486	1792.396
17.5	2035.974	2000.986	1969.760	1936.358	1899.664	1873.795	1844.837	1817.996	1808.042	1795.922
20.0	2202.865	2156.333	2109.069	2057.991	2012.852	1958.597	1909.549	1868.992	1824.343	1808.323
22.5	2306.223	2242.516	2184.388	2124.735	2064.821	2002.132	1940.807	1883.511	1839.680	1795.195
25.0	2316.009	2258.523	2186.768	2119.391	2052.513	1985.918	1924.840	1871.759	1821.853	1789.671
27.5	2356.198	2274.738	2190.113	2112.137	2038.927	1970.170	1904.407	1845.119	1805.691	1781.302
30.0	2444.883	2343.883	2252.745	2158.168	2069.371	1990.263	1928.041	1876.627	1838.278	1817.775
32.5	2565.748	2455.094	2334.212	2223.076	2125.816	2039.829	1962.431	1910.316	1872.466	1851.329
35.0	2723.482	2553.378	2405.479	2280.878	2158.679	2063.318	1985.014	1926.644	1892.753	1874.171
37.5	2858.622	2660.196	2464.353	2289.661	2162.682	2052.144	1964.536	1892.296	1845.486	1820.919
40.0	2957.676	2690.260	2467.470	2285.073	2101.658	1966.348	1865.643	1801.928	1764.423	1734.511
42.5	2807.071	2614.984	2359.266	2124.036	1941.591	1807.188	1709.900	1618.855	1554.605	1516.148
45.0	2529.961	2257.456	2033.128	1833.957	1664.191	1533.099	1424.720	1345.234	1296.218	1273.613
47.5	1927.840	1754.058	1540.544	1407.227	1296.978	1173.390	1083.375	1031.558	991.184	956.395
50.0	1356.893	1179.908	1086.888	966.587	857.686	788.138	772.688	731.637	679.663	638.925
52.5	870.501	820.941	731.659	601.092	539.388	561.154	540.130	475.374	456.086	476.451
55.0	601.970	573.943	489.872	451.225	443.366	422.134	397.995	389.929	384.375	387.255
57.5	469.839	432.665	401.841	385.354	372.410	359.911	348.523	338.348	329.026	320.294
60.0	383.906	365.757	343.565	320.488	313.319	310.601	301.652	290.119	278.797	274.111
62.5	321.064	307.177	290.424	275.748	268.181	262.191	255.174	244.349	244.645	245.079
65.0	263.741	251.879	239.715	235.948	230.521	222.635	215.729	214.324	214.486	215.784
67.5	211.664	203.034	199.553	196.353	191.917	186.460	184.783	184.343	184.185	185.474

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CANDELA TABULATION - (Cont.)

70.0	164.797	161.478	160.719	159.411	156.415	154.104	153.202	152.724	153.092	154.493
72.5	123.043	123.494	123.580	123.015	122.426	122.662	121.647	120.856	120.815	122.496
75.0	91.408	90.132	88.436	88.907	90.244	91.174	91.106	89.837	89.431	92.187
77.5	64.009	63.807	63.105	62.105	61.926	62.046	62.951	62.505	63.407	65.114
80.0	37.610	38.647	39.226	39.934	40.817	41.029	40.385	39.176	41.306	42.785
82.5	24.336	23.552	22.527	21.948	21.480	22.514	23.348	23.891	24.415	24.423
85.0	12.695	12.766	12.666	12.798	12.868	12.782	12.490	12.097	11.438	11.548
87.5	3.538	3.735	3.963	4.229	4.552	5.116	5.585	5.944	6.136	6.088
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	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517
2.5	2083.420	2096.821	2110.302	2123.835	2137.394	2150.953	2164.484	2176.657	2188.754	2200.752
5.0	2031.631	2069.680	2086.150	2113.131	2140.145	2167.141	2194.072	2218.896	2243.552	2267.983
7.5	1959.727	1998.809	2038.073	2077.503	2117.072	2156.792	2196.633	2232.443	2268.322	2305.936
10.0	1888.533	1935.767	1982.989	2030.247	2077.890	2126.493	2175.295	2219.058	2263.078	2301.815
12.5	1840.781	1882.732	1935.646	1988.531	2041.440	2096.517	2152.250	2203.733	2253.718	2297.033
15.0	1823.970	1854.745	1897.310	1951.157	2004.632	2063.059	2126.929	2188.056	2244.215	2295.486
17.5	1798.433	1820.123	1840.170	1892.611	1951.978	2014.495	2085.051	2153.197	2216.893	2279.197
20.0	1790.301	1792.550	1808.640	1837.978	1896.353	1956.054	2027.354	2111.902	2178.428	2252.354
22.5	1777.277	1759.019	1767.074	1779.656	1821.509	1869.322	1939.159	2025.100	2121.081	2217.990
25.0	1762.022	1752.043	1752.144	1769.129	1804.674	1853.236	1924.934	2021.111	2133.712	2252.510
27.5	1771.669	1770.522	1778.357	1802.453	1837.065	1890.112	1964.358	2071.028	2196.639	2331.674
30.0	1808.037	1811.190	1828.785	1854.656	1889.416	1946.977	2023.940	2137.862	2273.881	2420.746
32.5	1849.437	1860.983	1882.598	1912.732	1953.014	2013.744	2093.643	2207.828	2348.867	2501.599
35.0	1864.020	1869.515	1888.020	1916.577	1957.212	2016.181	2096.962	2211.558	2346.412	2484.995
37.5	1818.670	1832.518	1858.598	1893.215	1938.891	2000.985	2083.685	2193.608	2304.216	2397.185
40.0	1709.102	1703.419	1712.068	1731.602	1763.158	1811.835	1878.845	1961.457	2043.296	2109.726
42.5	1500.003	1503.352	1521.021	1544.648	1576.783	1621.526	1674.004	1717.842	1750.862	1770.649
45.0	1251.739	1237.870	1233.319	1237.017	1248.709	1273.069	1305.860	1336.489	1363.340	1378.158
47.5	930.061	913.432	905.506	904.621	911.329	924.533	937.715	949.413	963.646	980.537
50.0	627.206	656.880	679.350	696.930	712.647	729.121	763.221	771.877	774.158	771.244
52.5	500.650	517.249	526.028	529.689	532.415	537.651	588.727	599.633	610.530	618.089
55.0	394.341	394.251	385.523	371.358	357.220	348.558	414.233	428.812	451.217	473.813
57.5	310.732	303.796	305.845	308.086	311.509	316.283	370.989	381.044	392.542	402.470
60.0	274.570	275.551	277.484	280.155	284.063	288.946	327.745	337.009	347.961	357.523
62.5	246.075	247.562	249.243	251.930	256.175	261.512	284.501	292.724	303.064	311.974
65.0	217.129	218.817	220.901	223.579	227.757	233.950	241.257	248.317	257.811	266.373
67.5	187.386	189.537	191.711	192.702	194.474	198.681	204.841	211.375	219.265	225.193
70.0	156.961	158.228	159.276	159.856	160.466	163.275	168.425	174.570	182.220	188.234
72.5	125.383	127.024	127.483	127.622	126.583	128.208	132.008	137.673	144.503	151.252
75.0	94.686	96.628	96.928	96.150	94.669	93.630	95.592	100.928	107.007	113.522
77.5	66.640	67.493	67.871	67.715	69.964	70.346	72.832	76.813	79.245	78.579
80.0	43.057	42.611	43.621	47.368	48.838	48.684	50.072	53.783	55.858	55.877
82.5	24.660	24.730	26.582	28.346	29.318	27.835	27.312	30.809	33.877	34.287
85.0	11.747	12.487	13.740	14.399	13.295	8.763	4.552	9.433	16.202	18.112
87.5	5.678	5.424	5.118	5.727	5.418	3.218	2.276	4.023	6.790	7.426
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	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517
2.5	2212.629	2224.363	2235.934	2247.318	2258.496	2274.234	2279.034	2287.554	2295.829	2303.841

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CANDELA TABULATION - (Cont.)

5.0	2292.136	2314.136	2333.030	2351.572	2369.727	2387.460	2404.738	2421.527	2437.795	2453.511
7.5	2334.092	2363.658	2393.227	2422.777	2452.927	2480.648	2503.739	2523.851	2543.590	2562.923
10.0	2338.743	2375.944	2413.418	2450.415	2479.553	2508.971	2540.056	2567.543	2595.606	2619.109
12.5	2340.337	2383.563	2421.074	2453.508	2485.760	2517.772	2545.940	2572.920	2601.743	2632.675
15.0	2346.879	2394.834	2438.391	2480.701	2519.030	2551.829	2583.062	2612.416	2638.879	2666.732
17.5	2341.159	2400.619	2456.223	2509.282	2558.147	2604.217	2647.031	2686.030	2722.105	2752.142
20.0	2329.839	2407.806	2482.409	2553.459	2620.387	2682.510	2739.519	2789.001	2833.131	2872.195
22.5	2322.578	2425.218	2526.556	2622.513	2709.746	2791.217	2856.742	2917.574	2963.758	3002.120
25.0	2378.835	2503.487	2624.527	2730.454	2830.416	2909.558	2983.695	3036.101	3082.359	3104.458
27.5	2470.874	2612.222	2739.802	2856.926	2947.917	3027.844	3080.552	3121.336	3149.669	3165.418
30.0	2569.704	2719.946	2844.014	2938.508	3016.371	3066.182	3104.263	3137.899	3153.071	3152.975
32.5	2641.010	2759.160	2855.649	2927.583	2975.412	3016.337	3054.013	3054.429	3043.954	3030.525
35.0	2612.078	2699.258	2768.871	2822.301	2842.774	2848.139	2843.708	2839.291	2841.695	2820.103
37.5	2462.759	2503.941	2528.968	2544.516	2550.894	2555.054	2557.597	2553.651	2513.408	2478.944
40.0	2155.118	2182.853	2199.727	2207.893	2199.200	2183.265	2174.725	2154.424	2136.915	2080.868
42.5	1780.410	1783.090	1786.918	1788.595	1787.009	1783.204	1766.452	1743.810	1703.168	1639.960
45.0	1384.695	1385.783	1382.249	1373.712	1378.678	1379.014	1371.930	1347.844	1296.349	1219.886
47.5	997.954	1016.184	1030.610	1038.636	1036.869	1022.294	1012.311	995.453	947.904	878.099
50.0	760.500	745.723	725.251	740.586	760.462	770.993	759.776	719.080	688.811	625.936
52.5	621.401	618.760	610.223	593.741	577.708	581.733	594.004	579.023	534.939	523.473
55.0	493.333	506.633	511.409	508.009	504.953	504.670	505.256	500.478	491.016	475.596
57.5	410.808	419.156	431.133	440.481	446.362	450.367	452.930	457.193	458.608	450.506
60.0	365.475	373.637	381.087	388.065	395.546	400.178	399.555	407.379	419.000	423.536
62.5	320.048	328.777	336.468	343.994	350.043	342.791	349.877	363.483	374.248	383.711
65.0	275.110	284.395	293.067	301.187	298.070	300.408	310.144	320.545	330.707	330.834
67.5	232.596	241.231	250.762	254.281	256.839	264.240	270.810	278.304	278.728	274.093
70.0	195.462	202.589	209.748	213.512	217.932	223.370	227.909	231.362	233.046	226.109
72.5	157.854	165.063	170.138	172.206	175.796	179.253	182.968	186.313	187.742	183.753
75.0	120.346	126.710	129.812	131.948	132.343	136.095	138.999	140.765	141.586	140.756
77.5	83.251	88.085	92.208	94.608	95.033	95.173	97.380	98.239	99.268	99.633
80.0	52.622	54.686	59.894	61.890	61.486	59.601	62.334	63.731	63.335	61.531
82.5	33.071	31.184	33.340	34.806	35.718	35.331	34.565	32.931	30.775	31.488
85.0	17.351	15.934	15.586	16.036	15.986	16.960	17.597	18.082	18.324	18.383
87.5	6.705	6.717	6.773	7.432	7.640	7.549	7.251	6.815	6.258	6.089
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	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517
2.5	2311.576	2319.020	2326.159	2332.978	2339.466	2345.609	2351.397	2356.818	2361.862	2366.519
5.0	2468.645	2482.062	2492.078	2501.570	2510.522	2518.915	2526.735	2533.425	2541.022	2547.622
7.5	2581.820	2600.249	2618.179	2634.135	2646.755	2658.924	2667.721	2675.303	2682.370	2688.901
10.0	2642.594	2666.025	2689.368	2712.583	2735.413	2747.427	2758.843	2769.583	2779.635	2788.984
12.5	2661.364	2687.970	2714.345	2740.435	2768.685	2787.091	2807.374	2826.378	2844.103	2853.529
15.0	2692.735	2717.168	2740.004	2760.819	2790.468	2817.546	2841.560	2864.961	2880.476	2894.161
17.5	2779.888	2803.886	2821.040	2837.244	2856.429	2871.417	2875.130	2886.687	2900.064	2912.245
20.0	2899.919	2922.684	2936.977	2938.174	2935.357	2927.087	2902.323	2886.295	2870.806	2862.576
22.5	3027.078	3037.849	3047.575	3023.316	2992.529	2957.025	2893.879	2832.430	2783.797	2754.209
25.0	3125.884	3117.438	3101.621	3054.990	2989.231	2917.130	2836.474	2747.888	2679.416	2619.541
27.5	3167.940	3137.455	3088.350	3034.782	2940.083	2835.849	2734.797	2634.174	2548.376	2484.804
30.0	3124.174	3097.307	3029.252	2927.827	2826.811	2712.687	2593.738	2486.200	2394.280	2314.307
32.5	3004.559	2949.296	2869.091	2757.337	2641.328	2512.248	2384.864	2267.738	2165.690	2084.496
35.0	2765.178	2690.425	2596.209	2491.954	2344.182	2211.459	2083.452	1974.173	1870.958	1779.046
37.5	2417.012	2344.237	2212.253	2076.328	1956.527	1816.658	1690.831	1578.879	1489.547	1407.286
40.0	1999.720	1877.911	1751.326	1617.530	1487.482	1364.587	1241.444	1166.670	1109.167	1052.966

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CANDELA TABULATION - (Cont.)

42.5	1544.347	1427.712	1297.464	1161.660	1013.299	963.317	900.513	832.785	765.119	712.569
45.0	1127.631	1015.691	882.180	812.192	747.357	673.329	593.201	585.089	574.417	557.512
47.5	779.609	700.315	657.410	594.029	526.842	512.940	496.784	476.152	448.408	425.067
50.0	589.737	550.926	497.324	486.953	470.925	451.099	423.912	414.820	408.129	404.660
52.5	501.035	478.001	465.991	451.638	432.678	423.718	415.247	407.074	399.296	391.852
55.0	468.064	456.311	443.387	435.417	425.693	416.992	408.613	401.646	395.948	391.485
57.5	444.398	440.082	431.952	424.890	416.901	408.778	402.892	397.047	392.519	389.525
60.0	419.187	420.550	416.782	406.957	402.959	397.623	393.975	390.676	387.535	379.465
62.5	386.319	379.851	383.502	380.526	380.994	383.388	373.321	363.778	353.480	345.499
65.0	324.204	322.945	333.366	344.475	338.455	335.073	327.147	321.881	315.421	310.072
67.5	264.632	259.725	273.752	282.589	280.836	279.404	277.706	276.518	275.425	272.942
70.0	220.180	215.870	219.778	222.761	221.920	222.696	225.305	228.615	231.336	228.546
72.5	178.879	175.560	173.792	169.588	167.196	172.775	177.744	180.380	182.361	179.949
75.0	136.735	135.193	133.563	130.409	127.542	129.530	132.499	133.600	133.504	131.514
77.5	97.725	95.681	93.854	91.289	88.510	87.918	88.696	88.040	85.729	85.523
80.0	59.023	56.785	54.706	54.418	55.217	56.618	59.219	61.170	61.741	62.146
82.5	32.394	33.832	34.801	35.363	35.647	36.156	37.739	39.010	39.139	39.023
85.0	18.312	18.031	17.416	16.607	16.340	16.118	16.632	17.017	16.688	16.072
87.5	5.924	4.962	4.112	3.376	3.628	3.872	4.468	5.025	5.253	5.306
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	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517	2156.517
2.5	2370.781	2374.638	2377.496	2381.898	2386.328	2390.348	2393.952	2397.134	2399.890	2402.216
5.0	2553.625	2559.020	2563.795	2567.941	2571.450	2574.312	2576.523	2577.291	2586.301	2587.526
7.5	2694.875	2700.272	2705.069	2712.737	2711.451	2711.953	2711.971	2711.500	2710.534	2709.401
10.0	2797.377	2800.339	2801.076	2799.395	2797.033	2794.054	2792.417	2790.335	2787.826	2784.907
12.5	2858.696	2861.209	2860.973	2856.794	2848.792	2839.729	2829.744	2821.388	2814.161	2806.591
15.0	2904.336	2905.704	2896.396	2885.521	2871.718	2854.418	2833.668	2812.039	2794.911	2780.236
17.5	2911.776	2905.052	2898.675	2884.379	2864.110	2844.307	2820.040	2796.199	2772.514	2758.035
20.0	2852.122	2846.734	2833.251	2822.956	2810.487	2791.530	2774.412	2756.801	2740.265	2727.806
22.5	2728.957	2727.959	2734.893	2738.368	2740.957	2740.004	2732.206	2724.849	2714.020	2704.852
25.0	2597.643	2589.032	2608.292	2638.142	2656.978	2671.745	2675.800	2676.644	2672.376	2667.409
27.5	2442.764	2440.350	2464.472	2504.296	2555.818	2569.560	2587.041	2590.033	2591.545	2586.996
30.0	2262.227	2242.315	2266.431	2317.830	2377.736	2433.470	2454.664	2461.788	2466.513	2459.032
32.5	2033.290	2003.064	2002.521	2054.866	2122.563	2192.368	2225.982	2247.585	2259.772	2262.480
35.0	1710.623	1673.154	1683.216	1732.865	1815.241	1876.100	1915.503	1924.042	1923.540	1919.731
37.5	1361.199	1322.395	1304.536	1334.358	1393.811	1457.732	1505.629	1511.079	1515.966	1517.086
40.0	999.405	957.630	936.647	960.743	1020.982	1095.152	1136.292	1156.550	1163.679	1163.775
42.5	701.437	699.570	699.567	708.544	748.693	792.576	820.138	829.479	827.145	817.892
45.0	535.864	513.239	494.345	500.870	540.733	585.848	622.168	641.556	648.780	645.733
47.5	426.276	425.764	428.541	435.640	453.611	479.595	501.447	507.943	503.858	494.926
50.0	399.944	394.602	388.198	385.783	399.906	423.420	448.175	464.753	471.918	473.261
52.5	387.347	384.519	382.825	384.941	394.853	414.727	438.032	455.280	463.364	465.446
55.0	387.625	384.296	382.619	383.805	390.632	407.246	429.222	446.559	454.939	457.554
57.5	387.188	384.236	382.311	377.898	377.817	390.144	408.959	424.920	432.232	433.929
60.0	371.513	362.269	354.365	348.383	347.112	363.609	381.813	398.853	406.766	408.697
62.5	339.294	332.049	324.580	319.377	317.684	334.275	354.868	373.343	381.366	383.455
65.0	305.868	301.274	294.159	290.121	288.274	304.305	328.258	346.113	356.124	358.206
67.5	271.347	269.613	262.051	257.162	254.426	264.305	285.943	299.986	307.956	308.554
70.0	226.437	225.564	220.733	217.089	215.211	220.203	237.316	249.320	256.745	257.027
72.5	178.338	179.635	178.478	176.730	175.703	178.519	189.278	199.317	205.649	205.462
75.0	129.598	133.186	135.433	136.128	135.955	138.878	141.759	149.878	154.658	154.017
77.5	86.433	93.098	98.549	101.480	102.131	105.508	106.358	113.508	117.426	117.188

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CANDELA TABULATION - (Cont.)

80.0	62.270	66.089	69.800	71.704	71.851	73.670	74.292	79.260	81.710	81.092
82.5	38.335	39.705	41.386	42.038	41.680	42.190	42.621	45.106	46.159	44.978
85.0	14.554	13.762	13.206	12.446	11.577	10.849	11.226	11.021	9.651	8.234
87.5	4.757	4.490	4.394	4.311	4.238	4.176	4.712	4.812	4.908	4.159
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	2156.517	2156.517	2156.517
2.5	2404.110	2405.570	2406.594
5.0	2588.759	2589.996	2591.235
7.5	2711.965	2714.015	2715.562
10.0	2782.890	2783.400	2783.558
12.5	2797.630	2795.320	2792.662
15.0	2764.681	2756.111	2751.694
17.5	2744.370	2734.159	2730.071
20.0	2718.701	2710.965	2708.070
22.5	2697.083	2691.280	2689.103
25.0	2663.908	2661.286	2660.653
27.5	2584.100	2582.785	2582.781
30.0	2455.254	2454.612	2453.821
32.5	2264.100	2268.783	2266.762
35.0	1914.450	1918.698	1910.709
37.5	1514.440	1520.326	1512.407
40.0	1157.310	1164.197	1155.074
42.5	804.033	800.967	797.741
45.0	640.976	642.359	638.421
47.5	486.933	480.896	479.100
50.0	472.978	473.350	472.272
52.5	465.385	465.723	465.444
55.0	457.790	458.020	458.616
57.5	433.648	433.760	434.718
60.0	408.728	409.250	410.820
62.5	383.744	384.740	386.921
65.0	357.867	360.027	363.023
67.5	306.815	307.960	310.391
70.0	253.977	255.466	257.758
72.5	201.119	202.981	205.126
75.0	147.095	150.217	152.493
77.5	112.297	113.527	114.654
80.0	76.797	76.647	76.816
82.5	41.350	39.774	38.977
85.0	5.668	2.834	1.138
87.5	2.853	1.423	0.569
90.0	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	848.60	N.A.	15.80
0-30	1977.94	N.A.	36.90
0-40	3438.9	N.A.	64.20
0-60	4944.84	N.A.	92.30
0-80	5339.18	N.A.	99.60
0-90	5359.64	N.A.	100.00
10-90	5155.51	N.A.	96.20
20-40	2590.3	N.A.	48.30
20-50	3652.77	N.A.	68.20
40-70	1777.1	N.A.	33.20
60-80	394.34	N.A.	7.40
70-80	123.17	N.A.	2.30
80-90	20.46	N.A.	0.40
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	5359.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	204.13
10-20	644.47
20-30	1129.34
30-40	1460.96
40-50	1062.47
50-60	443.47
60-70	271.17
70-80	123.17
80-90	20.46
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-L57-750-VF_.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	136	136	136	136	133	133	133	133	127	127	127	121	121	121	116	116	116	114
1	127	122	119	115	124	120	116	113	115	112	110	111	109	106	107	105	103	101
2	118	110	104	98	115	108	102	97	104	99	95	100	96	93	97	94	91	89
3	109	99	91	85	106	97	90	84	94	88	83	91	86	82	88	84	80	78
4	101	89	81	74	99	88	80	74	85	78	73	83	77	72	80	75	71	69
5	94	81	72	66	91	80	71	65	78	70	65	75	69	64	73	68	63	61
6	87	74	65	58	85	73	64	58	71	63	58	69	62	57	67	61	57	55
7	81	67	58	52	79	67	58	52	65	57	52	63	56	51	62	56	51	49
8	76	62	53	47	74	61	53	47	60	52	47	58	51	46	57	51	46	44
9	71	57	48	43	69	56	48	42	55	48	42	54	47	42	53	46	42	40
10	67	53	44	39	65	52	44	39	51	44	39	50	43	38	49	43	38	36

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VF2-L57-750-VF_.IES

UGR TABLE - CORRECTED

Reflectances

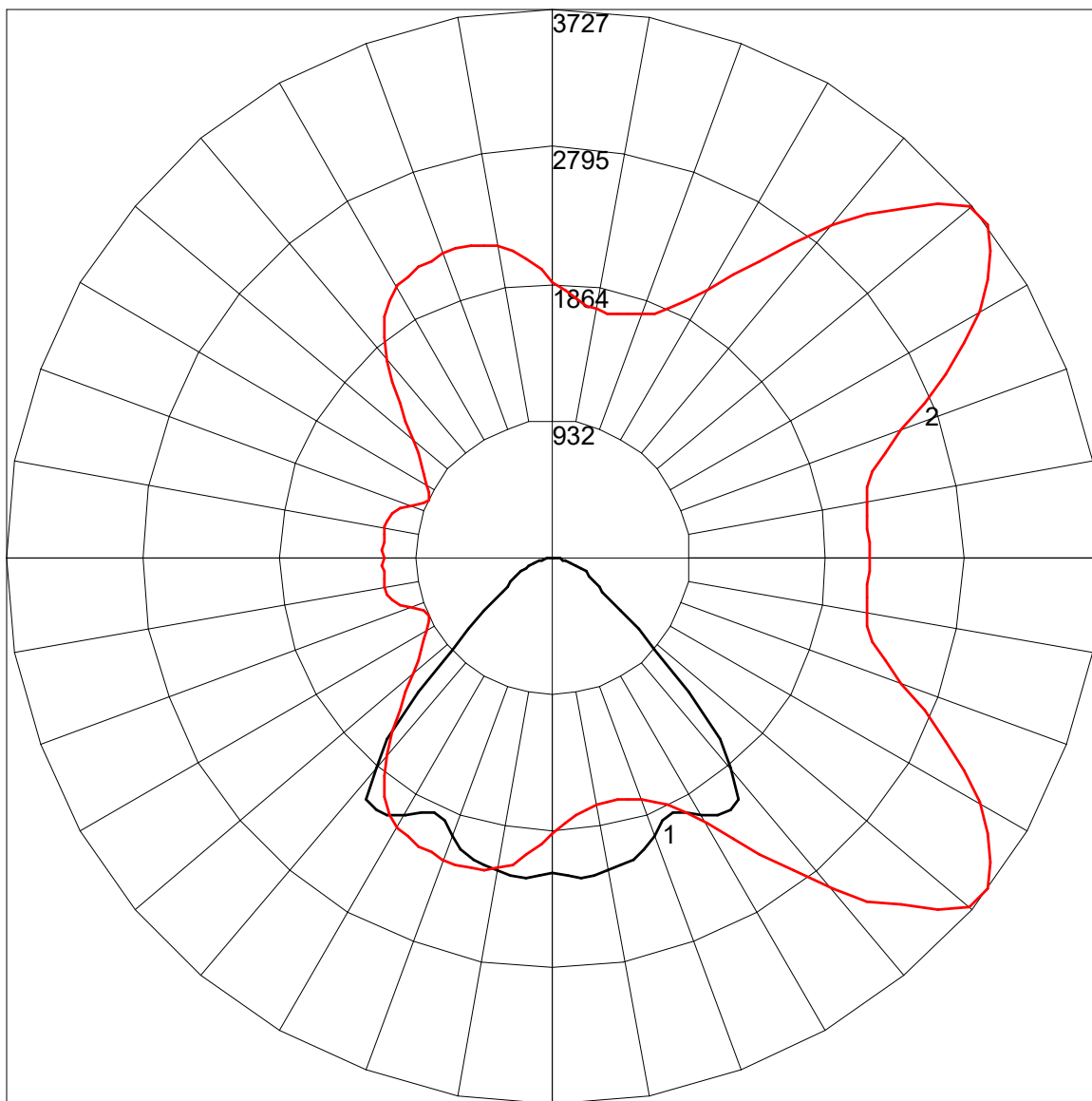
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	20.2	21.6	20.5	21.9	22.3	UGR Viewed Endwise				
	3H	21.4	22.7	21.8	23.0	23.4	5.4	5.4	5.4	5.4	5.4
	4H	21.8	23.0	22.2	23.4	23.8	5.4	5.4	5.4	5.4	5.4
	6H	22.1	23.2	22.5	23.6	24.0	5.4	5.4	5.4	5.4	5.4
	8H	22.1	23.2	22.6	23.6	24.0	5.4	5.4	5.4	5.4	5.4
	12H	22.1	23.1	22.5	23.5	23.9	5.4	5.4	5.4	5.4	5.4
4H	2H	20.1	21.2	20.5	21.6	22.0	7.5	8.7	7.9	9.0	9.4
	3H	21.4	22.4	21.8	22.8	23.2	7.7	8.7	8.2	9.1	9.5
	4H	21.8	22.7	22.3	23.1	23.6	7.7	8.6	8.2	9.0	9.5
	6H	22.1	22.9	22.6	23.3	23.8	7.7	8.4	8.2	8.9	9.3
	8H	22.1	22.8	22.6	23.3	23.8	7.6	8.3	8.1	8.8	9.3
	12H	22.1	22.7	22.6	23.2	23.7	7.6	8.2	8.1	8.7	9.2
8H	4H	21.7	22.4	22.2	22.9	23.3	9.0	9.7	9.4	10.1	10.6
	6H	22.0	22.6	22.5	23.1	23.5	8.9	9.5	9.4	10.0	10.5
	8H	22.0	22.6	22.6	23.1	23.6	8.9	9.4	9.4	9.9	10.4
	12H	22.0	22.5	22.5	23.0	23.5	8.9	9.3	9.4	9.8	10.4
12H	4H	21.7	22.3	22.2	22.8	23.3	9.1	9.7	9.6	10.2	10.7
	6H	22.0	22.5	22.5	22.9	23.5	9.1	9.6	9.6	10.1	10.6
	8H	22.0	22.5	22.5	23.0	23.5	9.1	9.5	9.6	10.0	10.6

Maximum UGR = 24.0

POLAR GRAPH



Maximum Candela = 3727.211 Located At Horizontal Angle = 37.5, Vertical Angle = 40
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (40) (Through Max. Cd.)