



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VF2-L70-750-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-L70-750-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: 55, 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	6592
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	55
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	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	69522	139960	65795
55	22125	43170	25730
65	17940	23206	20338
75	13158	12635	13158
85	0	4942	1861

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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	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195
2.5	2272.210	2271.009	2270.539	2270.804	2271.806	2273.547	2276.026	2279.242	2283.191	2287.869
5.0	1937.012	1935.184	1934.572	1935.165	1936.950	1940.836	1950.702	1960.808	1972.045	1984.395
7.5	1791.456	1791.833	1792.259	1792.706	1797.493	1802.566	1807.549	1812.411	1817.161	1825.706
10.0	1818.048	1820.145	1821.552	1826.510	1832.555	1837.733	1841.994	1845.290	1855.626	1864.836
12.5	1938.062	1942.321	1944.482	1955.171	1962.563	1968.456	1977.650	1992.159	2004.594	2014.852
15.0	2088.166	2093.673	2102.396	2115.187	2126.008	2140.290	2163.227	2183.458	2196.823	2226.385
17.5	2234.842	2237.334	2251.558	2270.663	2287.952	2322.532	2354.320	2387.144	2429.444	2467.053
20.0	2378.578	2382.210	2400.660	2420.551	2451.243	2490.426	2529.718	2592.005	2644.686	2696.614
22.5	2543.028	2547.114	2565.400	2582.295	2621.212	2662.454	2712.647	2766.366	2822.321	2880.224
25.0	2597.845	2602.985	2621.780	2642.472	2681.996	2727.285	2787.752	2852.689	2924.936	2994.353
27.5	2647.196	2652.094	2666.736	2688.905	2722.993	2772.844	2830.823	2903.922	2972.577	3052.166
30.0	2770.109	2770.929	2776.139	2788.820	2806.173	2850.096	2899.287	2968.782	3057.184	3143.103
32.5	3005.412	3003.599	3002.956	3009.049	3023.974	3059.892	3109.920	3168.021	3239.532	3320.823
35.0	2992.136	2995.062	2995.131	3008.377	3038.067	3087.697	3165.537	3270.797	3398.302	3540.804
37.5	2916.714	2921.506	2911.826	2915.191	2928.577	2960.066	3012.925	3131.262	3283.522	3466.784
40.0	2646.596	2652.802	2648.175	2650.949	2669.641	2705.136	2779.956	2912.297	3103.574	3362.278
42.5	2376.478	2382.029	2374.424	2366.477	2378.623	2397.568	2472.773	2593.286	2754.322	2977.906
45.0	1696.985	1718.167	1725.695	1741.219	1787.724	1836.360	1950.895	2088.042	2271.022	2512.019
47.5	1017.491	1050.377	1060.142	1080.874	1131.660	1184.753	1282.282	1375.087	1518.295	1711.714
50.0	824.350	843.932	841.069	842.579	856.320	869.182	891.067	894.008	908.302	926.826
52.5	631.208	642.675	643.393	649.539	662.726	679.354	697.757	712.337	734.274	770.640
55.0	438.067	441.529	446.745	455.974	470.422	488.015	508.971	534.041	564.031	606.229
57.5	393.980	394.969	395.809	397.603	401.295	404.172	410.386	420.797	435.843	453.954
60.0	349.894	350.026	351.116	352.991	356.059	357.631	362.773	370.732	383.327	398.122
62.5	305.808	305.098	306.452	308.350	310.614	310.951	314.554	320.105	329.105	340.244
65.0	261.721	260.183	261.813	263.682	265.016	264.058	265.482	268.048	273.283	280.785
67.5	225.682	224.304	225.736	226.184	227.161	225.075	224.631	224.629	225.477	227.425
70.0	189.643	188.510	189.946	189.176	190.640	188.277	187.521	187.866	188.053	189.044
72.5	153.603	152.723	154.149	152.314	154.079	151.520	150.395	151.223	150.472	150.281
75.0	117.564	116.940	118.345	115.515	117.490	114.799	113.261	114.676	112.765	111.202
77.5	88.173	87.972	89.706	87.891	89.073	87.246	85.548	86.486	83.674	80.834
80.0	58.782	59.025	61.253	60.667	61.619	61.201	60.278	60.991	59.352	57.634
82.5	29.391	30.067	32.816	33.386	34.308	35.205	35.140	35.790	35.241	34.661
85.0	0.000	1.098	4.388	6.063	7.094	9.240	10.093	10.704	11.269	11.845
87.5	0.000	0.525	2.104	2.823	3.194	4.117	4.346	4.402	4.468	4.544
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	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195
2.5	2294.049	2303.421	2312.727	2322.648	2333.168	2344.265	2355.919	2368.109	2380.812	2394.003
5.0	1997.837	2012.347	2027.899	2044.466	2062.019	2080.047	2101.482	2122.828	2144.836	2167.465
7.5	1840.688	1858.097	1875.682	1893.378	1911.121	1928.855	1946.527	1962.662	1980.796	2001.099
10.0	1869.315	1883.451	1896.300	1909.903	1922.285	1933.274	1942.815	1950.859	1955.530	1973.176
12.5	2025.288	2035.363	2045.019	2054.481	2062.141	2068.972	2072.365	2072.255	2071.678	2078.241
15.0	2246.169	2261.233	2271.317	2291.041	2300.349	2299.605	2303.964	2298.488	2293.328	2286.504
17.5	2502.710	2537.667	2567.976	2589.786	2599.973	2604.929	2601.385	2576.419	2565.252	2541.302
20.0	2747.356	2788.030	2828.970	2858.793	2872.477	2866.143	2859.759	2839.427	2798.344	2755.403
22.5	2934.593	2980.680	3024.031	3036.932	3042.137	3030.932	3006.979	2979.963	2930.174	2882.514
25.0	3057.235	3111.434	3137.100	3155.914	3151.185	3138.970	3103.560	3057.257	2998.257	2925.025
27.5	3121.153	3177.737	3222.411	3247.879	3256.401	3239.706	3202.623	3145.745	3074.125	2988.189
30.0	3227.569	3296.732	3346.782	3375.295	3381.932	3381.720	3354.244	3295.306	3210.898	3117.706

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CANDELA TABULATION - (Cont.)

32.5	3403.371	3486.147	3562.123	3627.463	3671.846	3676.618	3621.863	3540.816	3453.234	3309.293
35.0	3655.621	3770.556	3884.189	3988.491	4073.752	4083.895	4041.765	3931.884	3738.003	3542.754
37.5	3679.494	3917.022	4161.568	4404.459	4448.222	4450.873	4385.469	4247.212	4080.336	3789.147
40.0	3638.665	3888.233	4126.296	4315.433	4465.171	4583.913	4560.255	4378.714	4127.532	3912.593
42.5	3257.464	3545.583	3848.264	4066.308	4190.264	4189.200	4193.801	4116.711	4050.502	3742.980
45.0	2757.784	2978.309	3164.526	3360.002	3495.608	3630.499	3647.002	3556.983	3416.329	3268.491
47.5	1946.243	2187.876	2384.690	2573.563	2717.845	2778.254	2809.613	2793.402	2714.992	2561.042
50.0	1081.552	1294.606	1505.469	1714.681	1885.965	1962.194	1983.045	1961.184	1907.488	1821.482
52.5	832.675	863.027	901.081	949.855	1097.116	1243.870	1310.953	1303.216	1243.157	1192.209
55.0	653.168	690.632	734.938	774.845	793.078	799.748	795.950	855.979	854.766	786.561
57.5	478.264	522.433	567.712	606.543	637.429	650.901	655.846	634.043	600.861	590.101
60.0	414.745	432.239	450.497	469.407	491.177	518.505	528.211	515.863	495.568	485.571
62.5	353.887	368.324	384.146	401.510	415.188	428.182	423.874	416.526	411.991	405.621
65.0	291.213	302.916	316.486	331.736	343.879	353.181	348.605	343.061	338.551	333.963
67.5	231.073	236.138	247.608	260.324	272.805	278.494	277.206	274.464	271.134	267.311
70.0	191.287	194.580	199.212	204.885	211.328	209.866	209.330	208.097	206.169	205.340
72.5	151.032	152.740	155.567	160.410	165.809	164.618	162.515	156.652	150.083	148.842
75.0	110.385	110.373	111.280	115.760	119.871	120.793	119.910	116.140	112.884	112.846
77.5	77.916	75.036	72.437	73.312	74.982	78.154	78.803	77.330	76.974	78.123
80.0	55.537	53.843	52.804	53.686	54.054	54.046	51.978	48.901	47.221	46.197
82.5	33.372	32.994	33.204	34.088	34.413	34.501	33.172	31.403	30.895	30.599
85.0	11.364	12.379	13.621	14.506	14.845	15.032	14.797	14.400	14.869	15.348
87.5	3.995	4.388	4.847	4.977	4.752	4.417	4.117	3.804	3.956	4.140
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	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195
2.5	2407.657	2421.749	2436.250	2451.135	2466.373	2481.935	2506.672	2513.761	2529.756	2545.945
5.0	2190.673	2220.536	2242.461	2272.645	2303.468	2334.874	2366.805	2399.203	2432.009	2465.162
7.5	2024.379	2057.882	2091.636	2125.600	2159.742	2194.033	2228.454	2267.650	2314.575	2362.356
10.0	1993.405	2012.358	2030.031	2046.436	2062.606	2101.192	2142.298	2184.692	2225.595	2269.267
12.5	2082.276	2082.959	2080.332	2085.111	2099.735	2109.437	2120.604	2138.743	2181.821	2223.473
15.0	2271.230	2252.125	2237.050	2226.035	2211.152	2185.040	2185.661	2184.146	2181.124	2204.379
17.5	2503.944	2460.915	2422.511	2381.432	2336.303	2304.488	2268.874	2235.865	2223.622	2208.716
20.0	2709.195	2651.967	2593.840	2531.021	2475.507	2408.782	2348.461	2298.581	2243.670	2223.967
22.5	2836.310	2757.960	2686.472	2613.106	2539.422	2462.323	2386.903	2316.437	2262.532	2207.822
25.0	2848.346	2777.645	2689.398	2606.535	2524.284	2442.382	2367.265	2301.984	2240.607	2201.029
27.5	2897.773	2797.588	2693.511	2597.613	2507.575	2423.014	2342.137	2269.220	2220.731	2190.736
30.0	3006.841	2882.627	2770.540	2654.225	2545.018	2447.726	2371.202	2307.971	2260.808	2235.592
32.5	3155.487	3019.399	2870.732	2734.052	2614.437	2508.685	2413.497	2349.403	2302.853	2276.858
35.0	3349.477	3140.274	2958.380	2805.140	2654.853	2537.573	2441.271	2369.484	2327.802	2304.950
37.5	3515.678	3271.644	3030.786	2815.941	2659.775	2523.831	2416.087	2327.241	2269.672	2239.458
40.0	3637.500	3308.619	3034.620	2810.299	2584.725	2418.314	2294.462	2216.102	2169.977	2133.190
42.5	3452.278	3216.039	2901.545	2612.247	2387.867	2222.571	2102.922	1990.950	1911.933	1864.635
45.0	3111.474	2776.333	2500.443	2255.493	2046.706	1885.483	1752.193	1654.437	1594.155	1566.354
47.5	2370.955	2157.230	1894.639	1730.679	1595.089	1443.094	1332.389	1268.662	1219.008	1176.224
50.0	1668.775	1451.111	1336.710	1188.758	1054.826	969.292	950.291	899.805	835.884	785.782
52.5	1070.586	1009.635	899.830	739.253	663.367	690.136	664.279	584.639	560.918	585.964
55.0	740.334	705.864	602.469	554.939	545.275	519.162	489.475	479.554	472.724	476.265
57.5	577.832	532.114	494.205	473.928	458.008	442.637	428.632	416.118	404.653	393.913
60.0	472.147	449.826	422.534	394.153	385.335	381.993	370.987	356.803	342.878	337.116
62.5	394.860	377.781	357.179	339.129	329.822	322.455	313.826	300.513	300.877	301.411
65.0	324.362	309.774	294.813	290.180	283.507	273.807	265.314	263.587	263.785	265.382
67.5	260.315	249.701	245.419	241.484	236.029	229.317	227.255	226.714	226.520	228.104

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CANDELA TABULATION - (Cont.)

70.0	202.675	198.594	197.660	196.051	192.366	189.525	188.416	187.828	188.280	190.002
72.5	151.325	151.879	151.985	151.291	150.566	150.856	149.608	148.635	148.585	150.652
75.0	112.418	110.849	108.763	109.343	110.987	112.131	112.047	110.486	109.987	113.376
77.5	78.722	78.474	77.610	76.381	76.161	76.308	77.421	76.872	77.981	80.080
80.0	46.255	47.531	48.242	49.113	50.199	50.460	49.667	48.181	50.800	52.620
82.5	29.929	28.965	27.705	26.993	26.417	27.689	28.714	29.382	30.027	30.038
85.0	15.613	15.701	15.577	15.740	15.826	15.720	15.361	14.878	14.067	14.202
87.5	4.351	4.593	4.874	5.201	5.598	6.292	6.869	7.310	7.546	7.487
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	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195
2.5	2562.296	2578.777	2595.356	2612.000	2628.676	2645.351	2661.992	2676.963	2691.841	2706.596
5.0	2498.603	2545.397	2565.653	2598.836	2632.058	2665.260	2698.381	2728.911	2759.233	2789.280
7.5	2410.172	2458.236	2506.526	2555.018	2603.683	2652.532	2701.529	2745.572	2789.697	2835.956
10.0	2322.615	2380.704	2438.781	2496.901	2555.495	2615.269	2675.288	2729.110	2783.248	2830.888
12.5	2263.887	2315.480	2380.557	2445.597	2510.667	2578.403	2646.947	2710.263	2771.736	2825.007
15.0	2243.212	2281.060	2333.408	2399.632	2465.398	2537.255	2615.806	2690.983	2760.050	2823.105
17.5	2211.804	2238.481	2263.135	2327.630	2400.642	2477.528	2564.302	2648.111	2726.447	2803.071
20.0	2201.803	2204.568	2224.358	2260.439	2332.232	2405.654	2493.343	2597.325	2679.142	2770.059
22.5	2185.786	2163.331	2173.237	2188.712	2240.185	2298.987	2384.876	2490.571	2608.613	2727.797
25.0	2167.024	2154.751	2154.875	2175.765	2219.480	2279.204	2367.381	2485.665	2624.147	2770.250
27.5	2178.889	2177.478	2187.113	2216.749	2259.316	2324.556	2415.867	2547.055	2701.538	2867.611
30.0	2223.616	2227.494	2249.133	2280.951	2323.701	2394.491	2489.145	2629.251	2796.534	2977.156
32.5	2274.531	2288.731	2315.315	2352.375	2401.915	2476.605	2574.868	2715.298	2888.756	3076.593
35.0	2292.467	2299.225	2321.983	2357.103	2407.079	2479.602	2578.950	2719.886	2885.737	3056.173
37.5	2236.693	2253.724	2285.799	2328.371	2384.546	2460.913	2562.622	2697.810	2833.842	2948.180
40.0	2101.940	2094.951	2105.588	2129.612	2168.421	2228.287	2310.699	2412.299	2512.950	2594.648
42.5	1844.780	1848.898	1870.629	1899.686	1939.208	1994.235	2058.775	2112.690	2153.299	2177.634
45.0	1539.451	1522.395	1516.799	1521.345	1535.726	1565.685	1606.013	1643.682	1676.705	1694.929
47.5	1143.836	1123.385	1113.636	1112.549	1120.798	1137.038	1153.250	1167.636	1185.141	1205.914
50.0	771.371	807.864	835.499	857.120	876.450	896.710	938.648	949.294	952.100	948.515
52.5	615.725	636.140	646.936	651.438	654.791	661.230	724.047	737.459	750.862	760.157
55.0	484.980	484.869	474.136	456.715	439.327	428.675	509.445	527.376	554.930	582.718
57.5	382.155	373.624	376.144	378.900	383.110	388.982	456.261	468.627	482.768	494.977
60.0	337.680	338.887	341.264	344.548	349.356	355.360	403.078	414.471	427.939	439.699
62.5	302.636	304.464	306.531	309.836	315.057	321.620	349.894	360.006	372.723	383.682
65.0	267.037	269.112	271.674	274.969	280.107	287.723	296.710	305.392	317.069	327.598
67.5	230.457	233.102	235.776	236.994	239.174	244.348	251.924	259.959	269.663	276.954
70.0	193.039	194.597	195.885	196.598	197.349	200.804	207.137	214.695	224.104	231.500
72.5	154.202	156.220	156.785	156.956	155.678	157.677	162.351	169.317	177.717	186.018
75.0	116.450	118.838	119.207	118.250	116.429	115.151	117.564	124.127	131.603	139.616
77.5	81.957	83.007	83.471	83.280	86.046	86.516	89.573	94.468	97.460	96.642
80.0	52.954	52.406	53.647	58.255	60.063	59.874	61.581	66.145	68.697	68.720
82.5	30.328	30.414	32.692	34.861	36.057	34.233	33.590	37.890	41.664	42.169
85.0	14.448	15.357	16.899	17.708	16.350	10.778	5.598	11.602	19.926	22.276
87.5	6.982	6.671	6.294	7.043	6.664	3.958	2.799	4.948	8.350	9.133
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	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195
2.5	2721.203	2735.635	2749.865	2763.866	2777.613	2796.968	2802.871	2813.350	2823.527	2833.380

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CANDELA TABULATION - (Cont.)

5.0	2818.986	2846.042	2869.278	2892.082	2914.410	2936.219	2957.468	2978.116	2998.123	3017.452
7.5	2870.585	2906.947	2943.312	2979.654	3016.734	3050.827	3079.225	3103.960	3128.235	3152.012
10.0	2876.304	2922.057	2968.144	3013.645	3049.480	3085.659	3123.889	3157.695	3192.208	3221.114
12.5	2878.265	2931.427	2977.559	3017.449	3057.113	3096.483	3131.126	3164.307	3199.755	3237.797
15.0	2886.312	2945.288	2998.856	3050.891	3098.030	3138.368	3176.780	3212.881	3245.427	3279.682
17.5	2879.275	2952.402	3020.787	3086.042	3146.139	3202.798	3255.453	3303.416	3347.783	3384.724
20.0	2865.354	2961.242	3052.993	3140.373	3222.684	3299.086	3369.199	3430.055	3484.327	3532.371
22.5	2856.425	2982.656	3107.288	3225.300	3332.583	3432.780	3513.367	3588.181	3644.981	3692.159
25.0	2925.612	3078.916	3227.777	3358.051	3480.989	3578.322	3669.499	3733.952	3790.842	3818.020
27.5	3038.807	3212.644	3369.548	3513.593	3625.498	3723.796	3788.620	3838.777	3873.622	3892.991
30.0	3160.352	3345.128	3497.712	3613.926	3709.687	3770.946	3817.780	3859.147	3877.806	3877.689
32.5	3248.048	3393.354	3512.021	3600.490	3659.313	3709.644	3755.979	3756.492	3743.609	3727.093
35.0	3212.466	3319.684	3405.298	3471.008	3496.187	3502.786	3497.337	3491.904	3494.861	3468.307
37.5	3028.826	3079.473	3110.253	3129.374	3137.219	3142.335	3145.463	3140.609	3091.117	3048.731
40.0	2650.473	2684.583	2705.335	2715.379	2704.688	2685.091	2674.586	2649.620	2628.086	2559.157
42.5	2189.638	2192.934	2197.642	2199.705	2197.754	2193.074	2172.472	2144.626	2094.642	2016.906
45.0	1702.968	1704.307	1699.960	1689.461	1695.568	1695.980	1687.268	1657.647	1594.315	1500.277
47.5	1227.334	1249.755	1267.496	1277.367	1275.194	1257.269	1244.991	1224.258	1165.780	1079.930
50.0	935.302	917.127	891.950	910.811	935.255	948.207	934.411	884.361	847.135	769.808
52.5	764.231	760.982	750.483	730.213	710.495	715.445	730.536	712.112	657.894	643.793
55.0	606.725	623.083	628.958	624.776	621.017	620.668	621.389	615.512	603.876	584.912
57.5	505.232	515.500	530.230	541.727	548.959	553.885	557.036	562.279	564.019	554.055
60.0	449.480	459.519	468.680	477.263	486.464	492.159	491.393	501.015	515.307	520.886
62.5	393.611	404.346	413.805	423.061	430.501	421.581	430.297	447.031	460.269	471.908
65.0	338.344	349.764	360.429	370.415	366.581	369.457	381.431	394.223	406.720	406.877
67.5	286.057	296.678	308.399	312.727	315.873	324.977	333.056	342.273	342.794	337.093
70.0	240.388	249.155	257.958	262.588	268.024	274.712	280.294	284.540	286.612	278.080
72.5	194.137	203.003	209.244	211.788	216.202	220.455	225.023	229.137	230.895	225.989
75.0	148.008	155.834	159.650	162.276	162.762	167.377	170.948	173.121	174.130	173.109
77.5	102.387	108.331	113.402	116.354	116.876	117.049	119.763	120.820	122.086	122.534
80.0	64.717	67.257	73.661	76.116	75.619	73.301	76.662	78.381	77.893	75.675
82.5	40.673	38.352	41.004	42.806	43.928	43.451	42.510	40.500	37.848	38.726
85.0	21.339	19.597	19.169	19.722	19.661	20.858	21.641	22.238	22.536	22.608
87.5	8.247	8.261	8.330	9.140	9.396	9.284	8.918	8.381	7.696	7.488
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	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195
2.5	2842.894	2852.049	2860.828	2869.215	2877.194	2884.750	2891.868	2898.535	2904.738	2910.466
5.0	3036.065	3052.565	3064.883	3076.557	3087.566	3097.889	3107.506	3115.734	3125.077	3133.195
7.5	3175.253	3197.918	3219.969	3239.593	3255.113	3270.079	3280.899	3290.224	3298.915	3306.947
10.0	3249.996	3278.814	3307.522	3336.073	3364.150	3378.926	3392.965	3406.175	3418.536	3430.034
12.5	3273.081	3305.802	3338.239	3370.326	3405.069	3427.706	3452.650	3476.023	3497.822	3509.414
15.0	3311.663	3341.712	3369.795	3395.395	3431.858	3465.160	3494.694	3523.474	3542.556	3559.386
17.5	3418.848	3448.361	3469.458	3489.387	3512.982	3531.414	3535.980	3550.194	3566.647	3581.627
20.0	3566.468	3594.465	3612.043	3613.516	3610.051	3599.880	3569.424	3549.712	3530.663	3520.542
22.5	3722.855	3736.101	3748.062	3718.227	3680.363	3636.699	3559.038	3483.466	3423.655	3387.266
25.0	3844.370	3833.983	3814.530	3757.182	3676.308	3587.635	3488.440	3379.491	3295.281	3221.644
27.5	3896.094	3858.602	3798.210	3732.329	3615.863	3487.671	3363.392	3239.640	3134.122	3055.939
30.0	3842.267	3809.225	3725.528	3600.790	3476.556	3336.200	3189.911	3057.655	2944.607	2846.252
32.5	3695.159	3627.194	3528.553	3391.112	3248.438	3089.689	2933.027	2788.979	2663.475	2563.619
35.0	3400.757	3308.821	3192.950	3064.731	2882.994	2719.764	2562.334	2427.938	2300.999	2187.961
37.5	2972.565	2883.061	2720.740	2553.574	2406.236	2234.219	2079.470	1941.786	1831.920	1730.752
40.0	2459.357	2309.551	2153.869	1989.320	1829.381	1678.238	1526.791	1434.831	1364.111	1294.990

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CANDELA TABULATION - (Cont.)

42.5	1899.316	1755.873	1595.687	1428.668	1246.207	1184.737	1107.497	1024.202	940.983	876.353
45.0	1386.817	1249.148	1084.950	998.875	919.138	828.094	729.548	719.572	706.447	685.657
47.5	958.803	861.283	808.516	730.566	647.937	630.839	610.971	585.596	551.475	522.770
50.0	725.289	677.557	611.635	598.879	579.167	554.784	521.349	510.167	501.938	497.672
52.5	616.199	587.870	573.099	555.447	532.129	521.110	510.692	500.641	491.075	481.920
55.0	575.648	561.194	545.299	535.498	523.539	512.838	502.534	493.965	486.957	481.468
57.5	546.543	541.235	531.236	522.552	512.726	502.736	495.497	488.309	482.740	479.058
60.0	515.537	517.214	512.580	500.497	495.581	489.017	484.530	480.473	476.610	466.685
62.5	475.116	467.160	471.650	467.991	468.566	471.511	459.130	447.393	434.728	424.912
65.0	398.723	397.174	409.991	423.653	416.249	412.091	402.343	395.866	387.921	381.342
67.5	325.458	319.423	336.674	347.542	345.387	343.626	341.536	340.076	338.732	335.678
70.0	270.788	265.487	270.293	273.962	272.928	273.883	277.091	281.162	284.509	281.078
72.5	219.995	215.912	213.737	208.568	205.626	212.488	218.598	221.840	224.277	221.310
75.0	168.164	166.267	164.262	160.383	156.857	159.302	162.954	164.308	164.190	161.743
77.5	120.187	117.673	115.426	112.272	108.854	108.126	109.083	108.277	105.434	105.181
80.0	72.590	69.837	67.281	66.927	67.909	69.632	72.830	75.230	75.932	76.430
82.5	39.839	41.609	42.801	43.491	43.840	44.467	46.414	47.976	48.135	47.993
85.0	22.521	22.175	21.419	20.424	20.096	19.823	20.455	20.928	20.524	19.767
87.5	7.285	6.102	5.057	4.152	4.461	4.762	5.495	6.180	6.460	6.525
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	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195	2652.195
2.5	2915.707	2920.451	2923.966	2929.380	2934.828	2939.772	2944.204	2948.117	2951.506	2954.367
5.0	3140.578	3147.213	3153.086	3158.184	3162.499	3166.019	3168.738	3169.682	3180.764	3182.271
7.5	3314.294	3320.931	3326.831	3336.262	3334.680	3335.297	3335.320	3334.741	3333.552	3332.159
10.0	3440.357	3443.998	3444.905	3442.838	3439.932	3436.269	3434.256	3431.696	3428.609	3425.019
12.5	3515.770	3518.860	3518.570	3513.430	3503.589	3492.443	3480.162	3469.886	3460.998	3451.687
15.0	3571.900	3573.583	3562.135	3548.760	3531.784	3510.508	3484.988	3458.388	3437.324	3419.274
17.5	3581.050	3572.781	3564.937	3547.356	3522.428	3498.073	3468.227	3438.907	3409.778	3391.971
20.0	3507.685	3501.058	3484.476	3471.815	3456.479	3433.165	3412.112	3390.453	3370.117	3354.794
22.5	3356.210	3354.982	3363.510	3367.784	3370.968	3369.796	3360.207	3351.158	3337.839	3326.564
25.0	3194.713	3184.124	3207.809	3244.521	3267.686	3285.848	3290.835	3291.873	3286.624	3280.515
27.5	3004.235	3001.266	3030.932	3079.910	3143.274	3160.175	3181.674	3185.354	3187.214	3181.619
30.0	2782.202	2757.713	2787.372	2850.585	2924.261	2992.805	3018.871	3027.632	3033.442	3024.242
32.5	2500.643	2463.469	2462.802	2527.179	2610.435	2696.285	2737.626	2764.194	2779.182	2782.512
35.0	2103.811	2057.730	2070.105	2131.165	2232.475	2307.323	2355.783	2366.285	2365.667	2360.983
37.5	1674.071	1626.348	1604.385	1641.061	1714.179	1792.793	1851.699	1858.401	1864.411	1865.790
40.0	1229.119	1177.742	1151.936	1181.570	1255.655	1346.874	1397.469	1422.383	1431.151	1431.270
42.5	862.662	860.367	860.363	871.403	920.781	974.751	1008.647	1020.135	1017.265	1005.885
45.0	659.033	631.206	607.970	615.995	665.022	720.506	765.174	789.017	797.902	794.155
47.5	524.256	523.626	527.041	535.772	557.874	589.831	616.704	624.693	619.670	608.685
50.0	491.871	485.302	477.426	474.456	491.826	520.744	551.188	571.577	580.389	582.040
52.5	476.380	472.902	470.818	473.421	485.611	510.053	538.714	559.926	569.868	572.429
55.0	476.721	472.627	470.566	472.024	480.420	500.853	527.880	549.201	559.507	562.722
57.5	476.184	472.554	470.186	464.759	464.659	479.819	502.958	522.589	531.580	533.667
60.0	456.905	445.537	435.817	428.460	426.896	447.185	469.573	490.530	500.261	502.636
62.5	417.281	408.371	399.185	392.787	390.704	411.109	436.435	459.156	469.023	471.593
65.0	376.172	370.522	361.772	356.806	354.534	374.250	403.709	425.668	437.979	440.540
67.5	333.717	331.583	322.284	316.271	312.906	325.056	351.667	368.938	378.740	379.476
70.0	278.484	277.410	271.469	266.987	264.678	270.817	291.863	306.627	315.758	316.104
72.5	219.330	220.924	219.501	217.352	216.089	219.552	232.784	245.130	252.917	252.687
75.0	159.386	163.800	166.563	167.417	167.206	170.800	174.343	184.327	190.206	189.417
77.5	106.300	114.497	121.201	124.806	125.607	129.760	130.806	139.597	144.416	144.123

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CANDELA TABULATION - (Cont.)

80.0	76.583	81.280	85.844	88.186	88.367	90.603	91.369	97.478	100.491	99.730
82.5	47.147	48.831	50.899	51.701	51.260	51.888	52.417	55.474	56.769	55.316
85.0	17.899	16.925	16.241	15.307	14.238	13.342	13.807	13.555	11.870	10.127
87.5	5.851	5.522	5.404	5.302	5.212	5.136	5.796	5.918	6.036	5.115
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	2652.195	2652.195	2652.195
2.5	2956.696	2958.491	2959.751
5.0	3183.786	3185.308	3186.832
7.5	3335.313	3337.833	3339.736
10.0	3422.539	3423.166	3423.360
12.5	3440.667	3437.826	3434.557
15.0	3400.145	3389.604	3384.172
17.5	3375.166	3362.608	3357.581
20.0	3343.598	3334.082	3330.522
22.5	3317.010	3309.873	3307.196
25.0	3276.210	3272.984	3272.206
27.5	3178.057	3176.439	3176.435
30.0	3019.596	3018.806	3017.834
32.5	2784.505	2790.264	2787.778
35.0	2354.488	2359.712	2349.886
37.5	1862.536	1869.774	1860.035
40.0	1423.318	1431.789	1420.569
42.5	988.840	985.070	981.102
45.0	788.305	790.006	785.162
47.5	598.855	591.430	589.221
50.0	581.692	582.150	580.824
52.5	572.354	572.770	572.426
55.0	563.012	563.296	564.029
57.5	533.322	533.460	534.638
60.0	502.675	503.316	505.247
62.5	471.948	473.173	475.855
65.0	440.124	442.780	446.464
67.5	377.338	378.746	381.734
70.0	312.354	314.185	317.004
72.5	247.345	249.636	252.273
75.0	180.904	184.744	187.543
77.5	138.108	139.621	141.007
80.0	94.449	94.264	94.472
82.5	50.854	48.916	47.936
85.0	6.971	3.486	1.400
87.5	3.509	1.750	0.700
90.0	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1043.65	N.A.	15.80
0-30	2432.57	N.A.	36.90
0-40	4229.34	N.A.	64.20
0-60	6081.42	N.A.	92.30
0-80	6566.39	N.A.	99.60
0-90	6591.56	N.A.	100.00
10-90	6340.51	N.A.	96.20
20-40	3185.69	N.A.	48.30
20-50	4492.36	N.A.	68.20
40-70	2185.57	N.A.	33.20
60-80	484.98	N.A.	7.40
70-80	151.48	N.A.	2.30
80-90	25.17	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	6591.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	251.05
10-20	792.61
20-30	1388.92
30-40	1796.77
40-50	1306.67
50-60	545.40
60-70	333.50
70-80	151.48
80-90	25.17
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

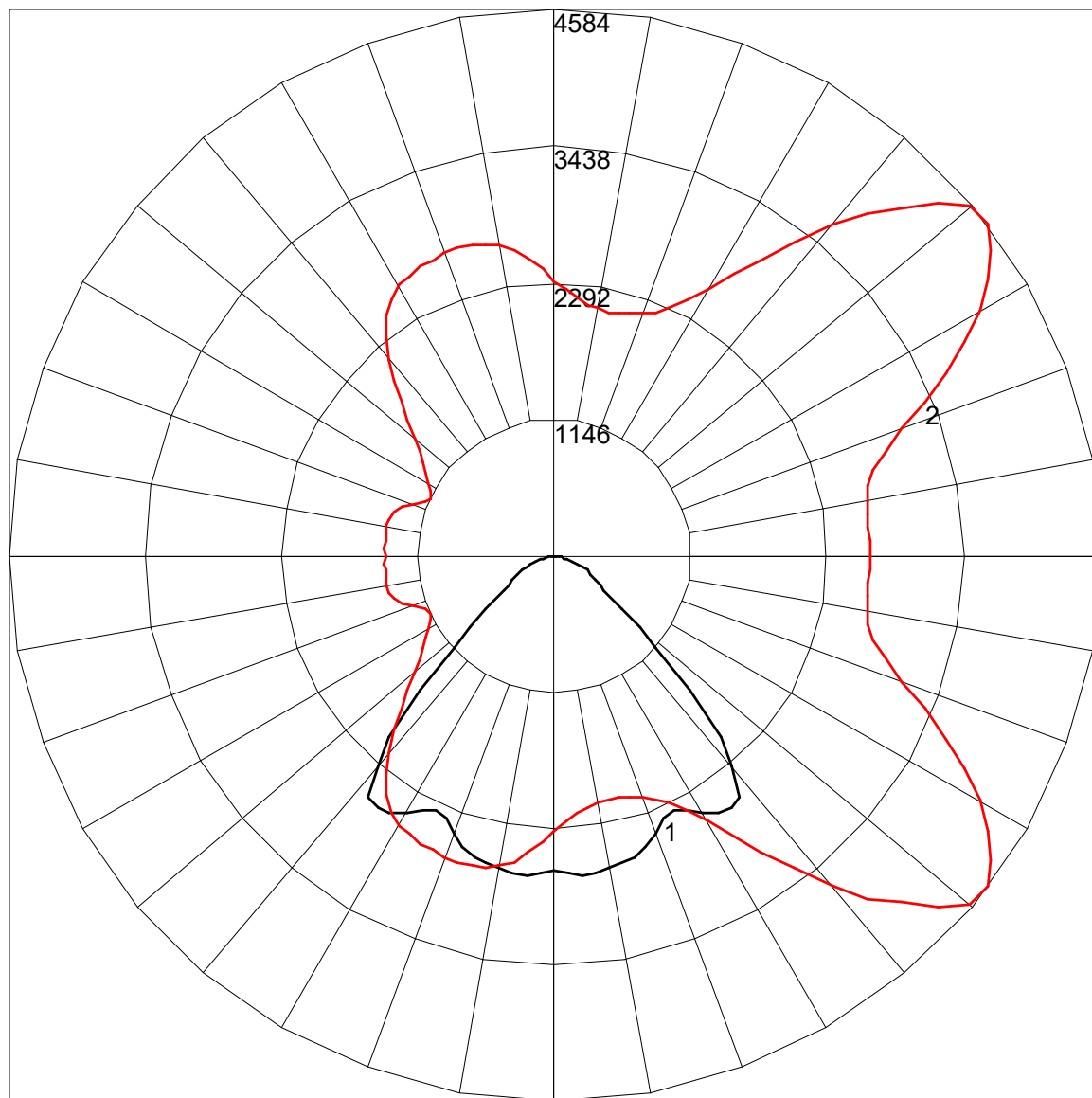
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VF2-L70-750-VF_.IES

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	147	147	147	147	143	143	143	143	137	137	137	131	131	131	126	126	126	123
1	137	132	128	124	134	130	126	122	124	121	119	120	117	115	115	114	112	109
2	127	119	112	106	124	117	110	105	112	107	103	109	104	100	105	101	98	96
3	118	107	99	92	115	105	97	91	102	95	90	98	93	88	95	91	87	84
4	109	97	87	80	107	95	86	80	92	85	79	89	83	78	87	81	77	74
5	101	88	78	71	99	86	77	71	84	76	70	81	75	69	79	73	68	66
6	94	80	70	63	92	79	69	63	76	68	62	75	67	62	73	66	61	59
7	88	73	63	56	86	72	63	56	70	62	56	68	61	55	67	60	55	53
8	82	67	57	51	80	66	57	51	64	56	50	63	56	50	62	55	50	48
9	77	62	52	46	75	61	52	46	59	51	46	58	51	45	57	50	45	43
10	72	57	48	42	70	56	48	42	55	47	42	54	47	41	53	46	41	39

POLAR GRAPH



Maximum Candela = 4583.913 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.)