



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VF2-L70-750-HF_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]ATAL009606-R2
 [TESTLAB]ATAL-LABS
 [ISSUE DATE]28 NOV 2022
 [MANUFACTURER]WILLIAMS OUTDOOR
 [OTHER]H.E. WILLIAMS. INC. - CARTHAGE, MO.
 [LUMEN CATEGORY]VF2-L70-750-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 CATEGORY]LUXEON TX 5000K LEDS
 [BALLAST](1) PHILIPS ELECTRONIC DRIVER
 [OTHER]INPUT WATTS: 55, AMPS: 0.4433, VAC: 120.02, TEMP: 24.9 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	6454
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	55
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	39856	81953	111935
55	15685	58944	191141
65	14258	16893	158521
75	11479	10699	11317
85	0	3935	3841

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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	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147
2.5	1075.426	1075.245	1075.015	1074.739	1074.416	1074.046	1073.631	1073.172	1072.668	1072.122
5.0	1105.038	1104.351	1103.554	1102.652	1101.652	1100.786	1100.401	1099.850	1099.192	1098.429
7.5	1141.873	1141.289	1140.483	1139.454	1138.853	1138.081	1137.087	1135.873	1133.609	1132.841
10.0	1183.041	1182.252	1181.142	1180.358	1179.541	1178.401	1176.942	1175.164	1173.072	1170.669
12.5	1219.875	1218.944	1217.832	1217.531	1216.871	1215.913	1214.739	1213.351	1211.601	1209.481
15.0	1239.376	1239.281	1239.193	1239.166	1238.941	1238.669	1238.502	1238.132	1237.445	1238.489
17.5	1254.976	1253.719	1253.208	1252.890	1252.227	1252.805	1253.384	1254.556	1256.311	1257.846
20.0	1282.230	1281.404	1281.248	1280.863	1280.897	1280.531	1281.284	1283.826	1285.235	1288.919
22.5	1308.712	1311.244	1311.972	1312.126	1314.020	1315.640	1318.898	1322.110	1327.999	1335.156
25.0	1342.416	1345.024	1347.076	1348.859	1352.901	1357.025	1363.247	1370.767	1382.784	1395.496
27.5	1385.476	1388.467	1391.032	1394.700	1400.346	1408.435	1416.978	1433.374	1446.969	1472.751
30.0	1419.938	1422.897	1427.143	1434.765	1444.483	1460.985	1481.371	1506.776	1535.996	1564.444
32.5	1437.994	1439.648	1444.828	1454.772	1468.477	1488.696	1518.163	1552.652	1595.539	1641.821
35.0	1384.467	1385.452	1394.791	1409.841	1432.788	1464.524	1511.115	1568.431	1634.062	1703.883
37.5	1313.045	1312.500	1323.314	1337.490	1361.743	1397.246	1442.535	1507.769	1579.033	1656.062
40.0	1209.042	1209.893	1220.730	1236.820	1264.256	1305.207	1360.596	1429.573	1508.883	1596.795
42.5	1105.038	1106.708	1116.401	1132.711	1160.154	1202.306	1261.354	1331.333	1409.596	1499.332
45.0	972.867	976.842	985.888	1003.790	1029.098	1073.408	1137.497	1210.679	1296.457	1391.853
47.5	840.696	846.448	853.780	870.025	894.218	934.164	994.678	1065.852	1151.545	1237.652
50.0	663.986	669.048	676.986	693.363	718.725	759.649	818.771	891.043	978.077	1063.500
52.5	487.276	491.085	497.695	511.270	532.941	567.914	616.629	675.631	742.813	812.494
55.0	310.566	313.079	317.950	328.340	344.894	371.674	407.701	449.265	497.425	555.054
57.5	284.926	285.863	286.078	288.172	292.298	300.960	311.097	316.563	320.105	329.955
60.0	259.287	260.251	260.495	262.554	266.474	274.074	282.905	287.855	292.585	301.629
62.5	233.647	234.676	234.868	236.911	240.520	246.452	253.876	259.294	264.945	271.702
65.0	208.007	209.135	209.203	211.242	214.407	218.729	224.875	231.005	236.516	241.457
67.5	181.645	182.795	183.019	184.890	188.159	191.048	196.255	201.920	206.526	210.481
70.0	155.283	156.443	156.847	158.402	161.593	163.406	167.304	172.055	175.069	177.507
72.5	128.921	130.086	130.700	132.049	134.796	135.693	137.875	142.061	143.242	144.048
75.0	102.559	103.725	104.574	105.655	107.809	107.913	108.050	111.945	111.105	110.180
77.5	76.919	78.078	78.838	79.788	81.359	81.918	81.616	84.653	82.972	81.279
80.0	51.280	52.431	53.108	53.874	55.113	56.082	56.257	58.033	57.193	56.654
82.5	25.640	26.780	27.374	27.901	28.982	30.139	31.068	31.632	31.609	32.240
85.0	0.000	1.125	1.639	1.887	2.927	4.118	5.992	5.311	6.148	7.967
87.5	0.000	0.541	0.725	0.728	1.096	1.480	2.237	1.515	1.660	2.339
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	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147
2.5	1071.615	1071.196	1070.703	1070.164	1069.578	1068.948	1068.273	1067.555	1066.796	1065.996
5.0	1097.561	1096.592	1095.521	1094.352	1093.086	1091.697	1090.339	1088.828	1087.211	1085.492
7.5	1131.087	1129.166	1127.080	1124.837	1122.443	1119.904	1117.225	1114.340	1111.544	1107.237
10.0	1166.580	1165.102	1162.088	1159.501	1156.606	1153.366	1149.782	1145.859	1141.485	1138.343
12.5	1207.520	1205.693	1203.037	1199.571	1196.221	1193.538	1190.218	1186.258	1181.783	1177.781
15.0	1238.878	1238.914	1239.632	1239.823	1238.628	1236.504	1237.739	1237.141	1234.348	1229.671
17.5	1260.668	1264.935	1268.554	1272.780	1277.633	1281.976	1286.652	1291.925	1294.386	1293.605
20.0	1293.380	1296.015	1305.405	1310.556	1320.686	1331.607	1340.916	1349.586	1358.077	1364.462
22.5	1343.247	1354.350	1362.667	1377.336	1389.823	1401.356	1411.473	1419.222	1428.883	1436.246
25.0	1411.843	1427.550	1447.332	1464.193	1479.495	1491.749	1500.803	1509.370	1514.719	1516.633
27.5	1495.562	1521.874	1545.455	1566.493	1583.168	1595.214	1605.510	1610.236	1611.439	1608.584
30.0	1598.483	1629.444	1659.116	1682.993	1702.470	1715.115	1721.422	1721.599	1715.959	1710.847

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CANDELA TABULATION - (Cont.)

32.5	1688.959	1740.384	1786.455	1814.604	1832.597	1844.648	1846.449	1842.084	1834.718	1827.225
35.0	1756.916	1809.073	1858.588	1901.979	1942.344	1971.439	1972.736	1968.102	1961.923	1956.086
37.5	1736.382	1815.764	1893.331	1965.936	1999.183	2027.326	2050.045	2070.676	2079.632	2078.218
40.0	1683.125	1763.249	1838.353	1909.399	1976.441	2039.372	2080.840	2096.943	2118.956	2153.325
42.5	1589.451	1674.567	1758.699	1833.802	1900.159	1950.486	2003.340	2053.385	2108.968	2139.793
45.0	1483.908	1565.569	1639.552	1714.376	1776.128	1841.168	1896.840	1945.453	2000.428	2067.647
47.5	1320.253	1405.196	1489.763	1573.912	1636.812	1689.758	1744.961	1802.230	1866.132	1932.179
50.0	1135.516	1207.136	1286.177	1349.710	1422.582	1498.567	1579.413	1626.520	1686.809	1766.102
52.5	884.919	963.063	1038.771	1107.018	1166.864	1236.168	1302.622	1384.669	1484.538	1564.183
55.0	619.454	689.785	756.690	824.703	891.703	953.703	1013.411	1077.763	1167.087	1281.417
57.5	346.350	407.813	475.029	544.114	615.709	678.912	740.613	793.423	842.576	902.110
60.0	306.239	311.303	317.204	321.667	341.290	414.110	482.399	543.824	596.376	599.825
62.5	276.131	281.129	285.776	289.577	291.613	294.072	292.604	306.496	363.677	392.926
65.0	246.093	250.702	253.958	256.729	256.526	256.322	252.780	250.339	246.445	243.186
67.5	215.178	220.037	221.783	222.337	220.748	217.293	212.534	208.456	204.476	201.452
70.0	180.513	183.758	185.381	185.611	184.326	178.365	171.930	167.325	163.291	161.719
72.5	145.380	146.869	147.759	148.219	147.983	142.754	137.124	131.316	125.355	123.632
75.0	109.852	109.848	109.957	111.618	111.938	108.494	104.335	99.426	95.587	95.194
77.5	79.509	77.596	75.835	76.953	76.913	75.386	72.450	68.545	67.059	67.999
80.0	55.730	54.645	53.926	55.010	54.435	52.395	48.791	44.307	42.798	42.877
82.5	32.146	31.934	32.041	33.087	33.003	32.226	30.088	27.434	27.239	27.637
85.0	8.698	9.390	10.169	11.171	11.889	12.420	11.961	11.228	11.838	12.575
87.5	2.390	2.442	2.501	2.568	2.644	2.730	2.364	1.968	2.042	2.137
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	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147
2.5	1065.158	1064.283	1063.372	1062.429	1061.453	1060.449	1058.814	1058.422	1057.494	1056.556
5.0	1083.673	1081.179	1079.994	1078.287	1076.551	1074.790	1073.002	1071.189	1069.352	1067.491
7.5	1105.592	1102.858	1100.037	1097.133	1094.150	1091.091	1087.959	1085.092	1082.603	1080.562
10.0	1134.745	1130.815	1126.560	1121.992	1116.518	1113.443	1109.507	1106.542	1102.966	1098.774
12.5	1173.818	1169.201	1163.943	1158.472	1152.985	1146.518	1141.805	1136.507	1132.598	1128.275
15.0	1225.785	1220.696	1215.117	1209.234	1202.414	1195.175	1190.639	1184.304	1177.160	1171.325
17.5	1292.837	1291.117	1286.244	1279.884	1270.235	1264.585	1255.411	1245.291	1236.622	1226.961
20.0	1369.108	1368.872	1365.466	1358.523	1352.046	1342.757	1331.756	1319.964	1304.314	1295.881
22.5	1440.162	1445.278	1447.879	1446.107	1440.547	1432.356	1418.516	1403.015	1389.165	1371.266
25.0	1518.560	1519.856	1522.916	1523.882	1523.652	1516.680	1506.934	1496.667	1481.291	1469.675
27.5	1606.374	1602.223	1598.928	1601.380	1605.409	1609.408	1609.123	1605.341	1596.694	1587.544
30.0	1701.931	1696.826	1695.393	1691.836	1697.280	1712.368	1725.695	1734.409	1738.987	1732.848
32.5	1818.994	1811.945	1812.832	1820.693	1829.754	1840.209	1855.354	1885.002	1908.784	1924.957
35.0	1953.515	1957.729	1963.732	1968.114	1980.360	2005.471	2036.996	2073.191	2103.909	2126.304
37.5	2085.967	2097.906	2102.780	2114.267	2133.152	2160.457	2196.601	2235.605	2280.470	2326.738
40.0	2176.147	2187.699	2209.464	2227.649	2252.811	2281.655	2313.182	2364.436	2425.398	2486.333
42.5	2182.393	2236.680	2273.396	2320.803	2359.930	2387.418	2429.048	2484.197	2542.913	2591.281
45.0	2141.377	2209.546	2299.946	2381.810	2447.112	2527.039	2586.151	2639.439	2682.492	2716.200
47.5	2022.778	2134.483	2243.657	2380.417	2528.491	2636.944	2738.836	2821.951	2908.156	2985.442
50.0	1864.837	1975.879	2142.629	2327.183	2500.968	2698.437	2866.782	3024.896	3160.289	3261.810
52.5	1659.141	1806.202	1984.475	2184.064	2447.316	2683.611	2942.481	3150.215	3321.122	3459.047
55.0	1439.219	1574.028	1756.892	2024.996	2304.810	2612.030	2886.246	3134.855	3353.632	3565.358
57.5	1018.246	1213.014	1488.746	1764.496	2105.694	2401.918	2703.459	2997.481	3292.753	3580.469
60.0	576.138	710.613	1020.815	1393.598	1709.290	2037.821	2389.250	2778.230	3136.128	3286.329
62.5	401.100	445.083	494.667	794.172	1165.552	1547.370	1943.827	2389.279	2526.939	2540.468
65.0	269.116	311.631	358.019	396.264	511.122	923.661	1358.670	1592.958	1743.223	1822.092
67.5	199.975	198.086	224.634	268.791	304.426	330.991	627.962	907.882	1056.149	1112.028

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70.0	161.155	161.741	166.430	172.613	197.265	228.682	255.970	367.285	520.286	539.715
72.5	124.182	126.240	130.015	135.230	140.528	142.337	162.915	188.161	212.623	222.613
75.0	94.350	93.606	93.082	97.142	101.356	104.253	105.646	105.229	127.803	146.994
77.5	68.132	67.600	67.135	66.974	67.644	69.222	72.104	72.993	74.077	82.031
80.0	42.433	42.171	41.946	42.765	44.341	45.387	45.748	45.503	47.835	49.130
82.5	26.808	25.360	23.521	22.909	22.746	24.340	25.945	27.172	27.972	27.849
85.0	12.709	12.568	12.149	12.573	13.019	13.290	13.330	13.223	12.914	13.443
87.5	2.245	2.370	2.515	3.008	3.597	4.600	5.496	5.985	6.334	6.502
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
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	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147
2.5	1055.609	1054.654	1053.692	1052.723	1051.749	1050.770	1049.786	1048.721	1047.655	1046.592
5.0	1065.605	1062.891	1061.860	1060.059	1058.226	1056.366	1054.481	1052.575	1050.647	1048.697
7.5	1078.226	1075.797	1073.280	1070.683	1068.116	1065.485	1062.787	1060.374	1057.893	1055.238
10.0	1096.309	1093.361	1090.240	1086.951	1083.757	1081.106	1078.315	1075.371	1072.262	1069.896
12.5	1123.556	1119.523	1116.445	1113.153	1109.627	1106.175	1102.510	1100.369	1097.997	1095.666
15.0	1165.978	1159.891	1154.813	1150.741	1146.109	1141.916	1138.261	1135.145	1132.582	1130.487
17.5	1218.270	1209.891	1204.289	1201.483	1199.071	1195.863	1191.708	1185.839	1180.929	1175.944
20.0	1284.249	1274.106	1266.113	1259.551	1257.671	1254.536	1249.969	1244.175	1239.135	1232.445
22.5	1360.935	1347.159	1337.672	1326.450	1321.473	1313.957	1310.156	1306.700	1304.844	1301.909
25.0	1454.847	1442.172	1429.456	1418.827	1410.683	1403.994	1398.029	1395.537	1393.490	1391.659
27.5	1576.389	1564.078	1550.903	1540.756	1531.089	1524.103	1517.957	1514.463	1511.082	1509.317
30.0	1721.970	1711.299	1701.370	1690.797	1680.799	1674.211	1667.668	1663.152	1657.277	1654.381
32.5	1925.539	1916.044	1900.045	1881.182	1867.262	1858.643	1850.036	1846.292	1840.838	1838.400
35.0	2142.305	2148.162	2142.188	2125.961	2106.068	2085.881	2065.626	2053.907	2044.346	2041.363
37.5	2370.640	2400.425	2410.298	2398.255	2366.889	2327.479	2289.523	2266.985	2254.317	2257.449
40.0	2528.812	2552.497	2552.225	2530.379	2494.206	2457.855	2431.084	2420.898	2417.242	2424.516
42.5	2625.053	2643.547	2646.280	2632.914	2606.846	2583.326	2572.644	2575.640	2576.596	2575.860
45.0	2773.903	2817.705	2842.606	2844.972	2819.793	2776.743	2732.261	2702.987	2685.054	2681.442
47.5	3045.455	3083.440	3098.631	3089.261	3048.140	2977.549	2891.877	2824.113	2785.728	2779.312
50.0	3326.130	3371.625	3397.068	3396.086	3355.827	3283.831	3189.443	3099.208	3041.706	3014.740
52.5	3574.711	3665.198	3715.951	3719.819	3674.955	3593.352	3487.008	3379.125	3311.968	3293.825
55.0	3758.279	3925.118	4023.180	4046.504	3995.032	3904.149	3784.574	3655.810	3580.565	3574.688
57.5	3859.969	3954.934	3846.051	3677.786	3492.322	3320.559	3416.589	3099.428	3120.575	3297.215
60.0	3265.882	3221.824	3149.605	3020.283	2860.218	2704.698	3048.605	2517.777	2551.816	2982.018
62.5	2521.196	2490.139	2427.202	2340.473	2215.690	2084.572	2680.620	1938.003	1980.695	2639.138
65.0	1798.715	1747.788	1694.120	1638.163	1557.116	1458.603	2312.635	1361.387	1402.207	2228.581
67.5	1100.579	1032.435	1047.435	1132.396	1158.829	1116.962	1759.755	1037.509	1332.358	1771.282
70.0	499.329	633.703	734.893	801.037	825.548	788.709	1206.875	728.290	1200.986	1300.928
72.5	284.754	380.391	460.144	497.550	497.737	458.323	653.995	422.911	716.858	840.554
75.0	157.908	194.127	239.499	237.866	190.476	128.138	101.115	122.403	246.668	395.641
77.5	94.009	95.527	95.880	76.496	80.515	80.907	78.725	77.551	78.299	78.454
80.0	48.659	48.839	46.420	53.658	57.413	58.721	56.336	56.422	57.485	56.741
82.5	27.595	26.957	28.954	31.600	35.761	35.248	33.946	35.238	37.752	35.103
85.0	13.662	14.363	15.902	16.963	17.078	14.606	11.556	15.930	19.275	19.464
87.5	6.396	6.691	7.047	8.001	8.039	6.128	5.778	7.148	8.513	8.986
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
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	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147
2.5	1045.535	1044.487	1043.452	1042.431	1041.429	1040.036	1039.485	1038.537	1037.607	1036.697

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CANDELA TABULATION - (Cont.)

5.0	1046.725	1044.732	1042.727	1040.707	1038.675	1036.633	1034.583	1032.527	1030.468	1028.409
7.5	1053.101	1050.771	1048.330	1045.771	1042.778	1040.371	1037.751	1035.117	1032.384	1029.550
10.0	1067.679	1065.254	1062.607	1059.780	1057.262	1054.484	1050.836	1048.359	1045.192	1043.104
12.5	1093.050	1090.157	1087.620	1085.272	1082.509	1079.314	1077.242	1074.256	1073.186	1070.800
15.0	1127.877	1125.450	1123.253	1120.516	1118.330	1117.443	1116.051	1114.213	1112.240	1109.701
17.5	1171.102	1167.666	1167.192	1166.368	1166.049	1164.740	1164.111	1162.726	1158.484	1156.858
20.0	1229.508	1227.474	1227.045	1227.146	1226.440	1226.998	1226.158	1224.094	1220.338	1215.459
22.5	1301.769	1300.747	1301.903	1301.871	1303.890	1303.756	1302.357	1299.021	1293.347	1286.598
25.0	1390.797	1391.947	1392.699	1395.934	1397.132	1395.878	1390.518	1389.669	1384.076	1372.014
27.5	1507.566	1509.539	1511.249	1511.937	1511.155	1510.413	1511.466	1506.093	1493.798	1476.882
30.0	1652.787	1652.103	1655.281	1662.269	1666.657	1669.441	1664.790	1653.295	1633.555	1617.270
32.5	1840.342	1845.177	1850.928	1856.052	1861.408	1859.284	1847.723	1841.723	1829.025	1807.507
35.0	2046.770	2056.351	2065.230	2075.346	2088.687	2095.233	2090.054	2071.492	2048.457	2016.654
37.5	2273.342	2292.647	2306.751	2318.500	2323.997	2322.740	2313.662	2295.117	2245.058	2204.201
40.0	2443.244	2467.850	2498.195	2529.468	2528.777	2497.427	2464.146	2426.659	2389.046	2338.072
42.5	2576.361	2576.603	2588.776	2609.265	2620.221	2609.059	2580.728	2541.530	2506.613	2460.342
45.0	2684.079	2686.317	2688.419	2690.528	2716.911	2728.776	2719.355	2697.907	2660.048	2617.079
47.5	2796.779	2836.640	2877.927	2905.969	2917.354	2912.050	2912.642	2902.233	2869.949	2809.561
50.0	3024.241	3062.773	3108.755	3157.693	3185.166	3192.448	3179.209	3143.852	3090.835	3024.019
52.5	3313.936	3356.797	3397.714	3434.228	3467.125	3490.423	3479.856	3422.030	3339.824	3198.086
55.0	3605.944	3642.656	3674.091	3700.893	3725.858	3751.390	3753.072	3694.726	3539.249	3381.090
57.5	3575.025	3797.781	3936.220	3952.894	3966.068	3952.696	3908.836	3809.584	3672.693	3351.656
60.0	3190.632	3403.014	3662.033	3972.661	4154.566	4071.243	3865.459	3668.788	3464.726	3237.010
62.5	2784.183	2979.645	3211.520	3484.183	3780.566	3914.373	3587.600	3293.619	3028.910	2779.083
65.0	2347.200	2504.453	2686.519	2891.046	2980.646	3011.696	3039.177	2739.752	2444.530	2014.467
67.5	1873.356	1935.277	2014.047	2068.815	2048.557	2034.992	2104.030	2042.224	1532.306	1039.484
70.0	1399.995	1376.614	1208.072	1100.768	1078.848	1258.299	1223.647	978.924	569.333	289.192
72.5	926.514	869.984	612.204	272.771	497.313	583.314	445.880	234.257	233.368	211.738
75.0	486.437	403.083	191.307	179.817	154.526	141.660	153.503	155.204	148.511	132.670
77.5	153.990	112.629	112.521	97.024	87.174	89.656	94.180	88.087	83.568	82.423
80.0	51.268	55.741	56.292	57.978	57.323	55.190	55.835	55.348	53.608	50.889
82.5	32.559	31.135	33.126	34.059	34.300	33.381	31.734	29.068	26.206	25.987
85.0	18.672	17.659	17.323	17.136	16.464	16.718	16.686	16.328	15.898	15.415
87.5	8.511	8.526	8.515	8.544	8.277	7.814	7.214	6.507	5.767	5.369
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	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147
2.5	1035.806	1034.938	1034.093	1033.273	1032.480	1031.714	1030.978	1030.273	1029.600	1028.961
5.0	1026.352	1024.372	1022.576	1020.783	1018.997	1017.220	1015.457	1013.547	1012.321	1011.058
7.5	1026.616	1023.585	1020.459	1017.556	1015.123	1012.070	1010.329	1008.179	1005.918	1003.555
10.0	1040.588	1037.635	1034.241	1030.406	1025.668	1023.263	1019.947	1016.240	1012.156	1007.716
12.5	1068.212	1065.275	1061.722	1057.551	1053.086	1047.195	1040.746	1033.778	1026.316	1019.453
15.0	1106.385	1101.793	1095.849	1088.991	1082.257	1074.174	1064.562	1053.033	1043.791	1032.938
17.5	1152.288	1146.230	1137.630	1127.810	1117.247	1104.993	1089.974	1075.639	1061.328	1046.599
20.0	1208.087	1198.742	1186.690	1171.847	1156.094	1138.930	1121.328	1103.474	1084.887	1067.316
22.5	1275.754	1260.363	1240.820	1224.572	1205.239	1184.002	1164.708	1144.096	1123.155	1102.328
25.0	1356.194	1332.780	1316.841	1296.236	1272.992	1248.421	1223.053	1195.221	1169.902	1142.689
27.5	1457.444	1440.386	1419.403	1392.415	1362.809	1332.112	1297.451	1263.125	1224.800	1189.819
30.0	1600.437	1576.039	1539.889	1509.441	1472.455	1428.377	1384.557	1338.759	1291.361	1245.608
32.5	1774.656	1737.188	1699.349	1648.500	1591.992	1541.570	1483.824	1424.981	1368.880	1310.513
35.0	1978.770	1927.198	1868.201	1809.857	1738.552	1663.369	1595.320	1525.697	1450.279	1382.619
37.5	2148.191	2093.589	2020.872	1946.949	1877.241	1790.577	1699.240	1614.260	1531.363	1451.464
40.0	2276.133	2209.564	2136.009	2057.617	1973.582	1882.452	1788.729	1683.410	1575.110	1472.087

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CANDELA TABULATION - (Cont.)

42.5	2399.799	2326.296	2252.827	2166.543	2070.836	1954.676	1830.806	1710.918	1590.543	1478.518
45.0	2555.229	2478.043	2388.437	2274.291	2146.855	2014.457	1879.052	1706.964	1556.299	1415.800
47.5	2733.847	2635.674	2505.031	2367.909	2223.109	2024.361	1833.700	1654.893	1489.226	1347.444
50.0	2902.614	2758.673	2619.186	2401.476	2185.313	1979.011	1776.197	1580.019	1400.306	1249.255
52.5	3057.828	2846.908	2595.959	2367.005	2138.054	1894.553	1672.920	1467.992	1293.278	1126.118
55.0	3098.569	2831.659	2569.105	2271.765	2008.349	1763.296	1540.105	1301.471	1084.577	888.135
57.5	3063.424	2731.778	2400.604	2109.217	1817.829	1527.306	1296.005	1058.800	835.396	642.065
60.0	2829.531	2482.123	2138.356	1761.636	1418.876	1168.250	991.353	800.525	580.248	434.457
62.5	2449.706	1962.868	1655.167	1315.321	984.627	728.383	676.337	630.605	492.534	380.626
65.0	1544.862	1157.366	959.397	869.366	691.113	545.125	502.880	473.836	387.726	305.394
67.5	560.565	349.310	509.269	611.990	511.406	395.991	332.192	300.317	255.127	208.814
70.0	261.095	235.511	289.443	332.813	294.661	214.819	163.893	146.185	147.181	146.322
72.5	184.692	160.066	145.179	117.558	114.544	115.934	117.455	118.322	119.076	118.743
75.0	106.197	100.408	95.574	92.061	89.192	89.390	90.577	91.057	91.061	91.126
77.5	77.320	72.639	69.080	66.265	63.905	63.318	64.130	64.294	63.499	64.362
80.0	47.254	44.163	42.034	41.539	41.641	42.342	44.224	45.582	45.800	46.291
82.5	26.064	26.775	27.209	27.340	27.081	27.066	28.162	28.987	28.764	28.539
85.0	14.934	14.580	14.027	13.332	12.689	12.111	12.380	12.530	11.852	11.004
87.5	5.017	4.334	3.732	3.204	3.062	2.947	3.307	3.640	3.526	3.310
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	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147	1050.147
2.5	1028.357	1027.790	1027.235	1026.791	1026.391	1026.037	1025.729	1025.467	1025.252	1025.085
5.0	1009.821	1008.616	1007.446	1006.317	1005.233	1004.201	1003.224	1002.141	1000.842	1000.531
7.5	1001.100	998.565	995.963	993.417	992.377	991.149	989.929	988.724	987.540	986.450
10.0	1003.032	999.839	996.510	993.048	989.544	986.037	983.996	981.972	979.975	978.019
12.5	1012.790	1005.724	998.365	992.180	987.168	982.128	977.078	973.315	970.492	967.767
15.0	1021.573	1010.395	1001.385	992.358	982.307	976.378	969.718	963.067	958.838	955.963
17.5	1032.684	1019.386	1005.938	994.346	984.234	974.096	966.052	959.644	953.192	949.906
20.0	1051.563	1033.329	1020.846	1006.343	992.878	981.762	969.330	962.804	955.748	950.431
22.5	1079.600	1061.984	1042.852	1025.669	1009.663	995.087	982.356	970.736	962.832	955.225
25.0	1117.942	1093.205	1069.641	1046.961	1027.634	1009.444	994.363	980.748	970.901	962.114
27.5	1155.876	1124.773	1094.870	1069.906	1044.796	1027.727	1010.107	997.791	986.873	978.431
30.0	1202.242	1162.861	1128.824	1096.208	1071.722	1048.540	1032.172	1020.037	1009.751	1003.118
32.5	1256.669	1208.358	1165.932	1132.798	1103.025	1078.793	1062.767	1050.621	1042.307	1037.814
35.0	1317.270	1259.970	1211.857	1169.549	1132.637	1104.419	1084.028	1072.291	1066.244	1063.506
37.5	1368.399	1293.072	1228.466	1178.472	1140.242	1112.277	1093.087	1086.095	1083.591	1084.891
40.0	1380.376	1299.766	1234.558	1176.262	1127.306	1095.605	1076.008	1064.756	1060.072	1059.909
42.5	1360.988	1266.595	1187.141	1125.693	1080.302	1053.304	1037.490	1029.226	1027.626	1029.938
45.0	1300.325	1198.893	1124.410	1066.522	1020.502	989.988	973.449	962.717	958.724	957.257
47.5	1220.544	1112.831	1034.963	976.154	935.453	906.876	892.974	884.818	881.864	880.280
50.0	1115.463	1015.208	932.562	868.244	824.612	782.815	755.230	745.038	744.798	741.886
52.5	976.644	857.059	750.074	688.159	655.781	616.569	579.935	576.967	591.630	596.727
55.0	752.355	661.750	564.207	498.495	473.064	455.888	403.936	403.346	435.007	451.489
57.5	491.149	443.874	367.400	325.593	324.879	354.687	310.860	317.222	354.643	376.322
60.0	325.673	332.117	318.034	281.193	274.574	304.144	266.996	266.087	292.273	308.390
62.5	295.447	271.155	268.442	239.678	230.138	241.172	225.432	219.277	232.508	240.552
65.0	246.177	215.185	212.597	194.869	185.629	184.985	180.095	175.301	175.120	172.796
67.5	179.617	163.109	158.326	154.724	151.877	150.329	150.008	148.484	148.112	146.751
70.0	144.018	139.883	135.808	132.720	130.438	128.675	127.611	126.230	125.720	124.204
72.5	118.097	115.707	112.944	110.529	108.835	107.372	105.190	104.007	103.321	101.742
75.0	91.507	90.970	89.779	88.177	87.093	86.354	82.749	81.806	80.918	79.283
77.5	66.155	67.640	67.973	67.135	66.487	66.240	62.935	62.423	61.648	60.531

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CANDELA TABULATION - (Cont.)

80.0	47.056	47.829	48.000	47.201	46.554	46.176	43.802	43.414	42.710	41.932
82.5	28.238	28.204	28.030	27.275	26.636	26.168	24.702	24.345	23.798	23.302
85.0	9.611	8.708	8.059	7.352	6.723	6.175	5.626	5.235	4.333	4.333
87.5	2.703	2.442	2.390	2.345	2.305	2.272	2.243	2.219	2.200	2.185
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	1050.147	1050.147	1050.147
2.5	1024.965	1024.893	1024.869
5.0	1000.218	999.905	999.590
7.5	986.212	986.014	985.867
10.0	976.447	975.701	975.034
12.5	964.794	963.956	963.117
15.0	952.978	951.412	950.477
17.5	946.621	944.060	942.966
20.0	946.677	943.277	942.051
22.5	949.965	944.636	943.255
25.0	957.324	953.055	951.681
27.5	973.207	969.996	968.224
30.0	998.546	996.871	995.257
32.5	1035.581	1036.161	1034.980
35.0	1063.291	1064.512	1064.111
37.5	1088.099	1090.216	1090.593
40.0	1061.740	1061.792	1063.870
42.5	1032.965	1032.813	1037.147
45.0	958.059	957.530	959.867
47.5	881.053	880.532	882.586
50.0	737.452	736.276	738.618
52.5	591.182	590.230	594.650
55.0	445.250	442.497	450.682
57.5	374.645	374.927	380.624
60.0	307.103	306.818	310.566
62.5	239.421	238.853	240.508
65.0	169.345	170.450	170.450
67.5	146.401	146.689	146.977
70.0	122.723	122.698	123.504
72.5	99.094	98.681	100.031
75.0	74.991	74.514	76.558
77.5	57.327	56.562	57.780
80.0	39.244	38.540	39.001
82.5	21.142	20.541	20.223
85.0	2.889	2.521	1.444
87.5	1.450	1.264	0.722
90.0	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	426.36	N.A.	6.60
0-30	1053.02	N.A.	16.30
0-40	2150.68	N.A.	33.30
0-60	5323.63	N.A.	82.50
0-80	6435.61	N.A.	99.70
0-90	6454.28	N.A.	100.00
10-90	6352.85	N.A.	98.40
20-40	1724.32	N.A.	26.70
20-50	3240.61	N.A.	50.20
40-70	4109.27	N.A.	63.70
60-80	1111.98	N.A.	17.20
70-80	175.66	N.A.	2.70
80-90	18.67	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	6454.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	101.42
10-20	324.94
20-30	626.66
30-40	1097.66
40-50	1516.29
50-60	1656.66
60-70	936.31
70-80	175.66
80-90	18.67
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-HF_.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	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-L70-750-HF_.IES

UGR TABLE - CORRECTED

Reflectances

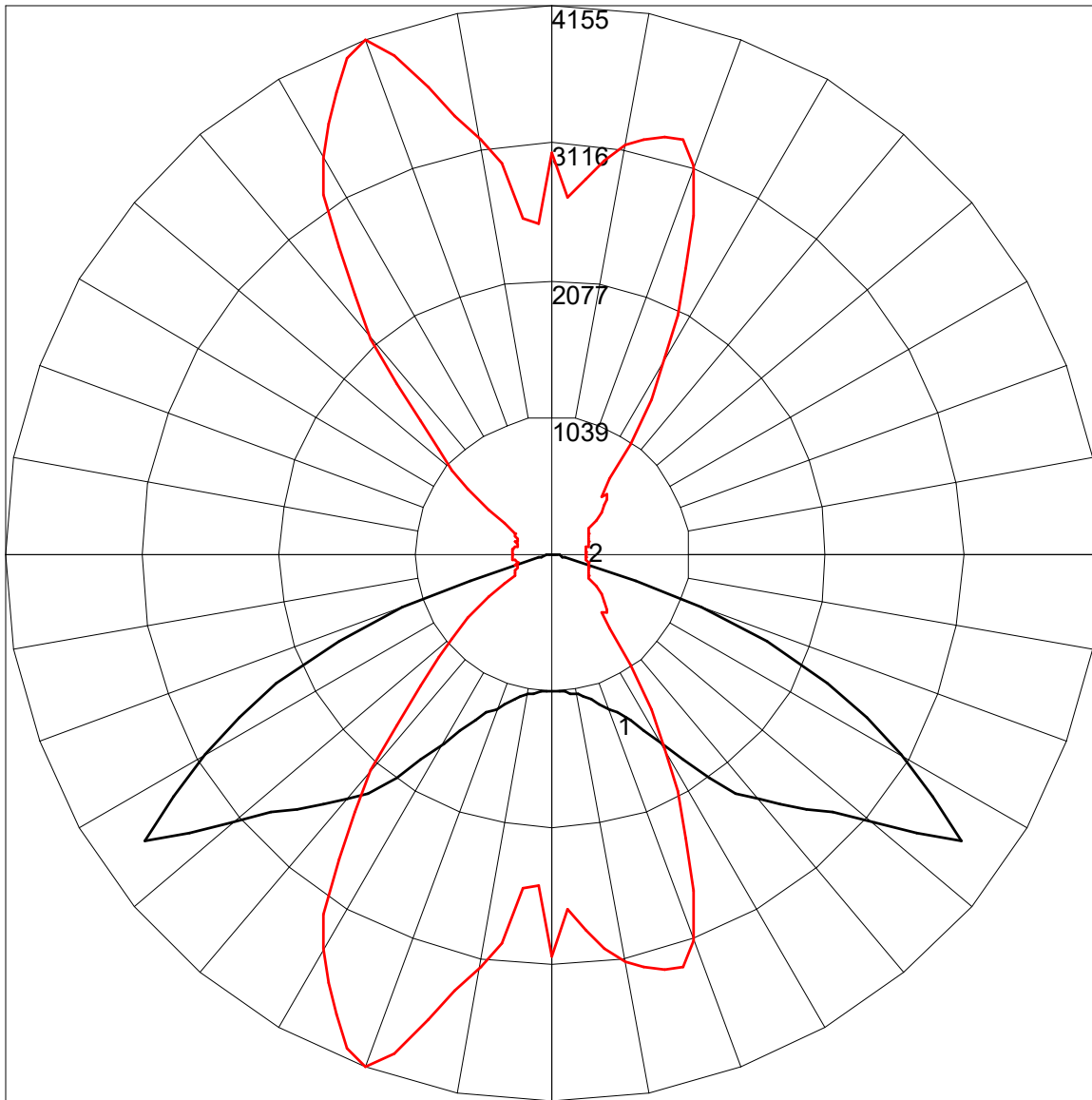
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	16.9	18.4	17.3	18.7	19.0	6.5	6.5	6.5	6.5	6.5
	3H	18.5	19.8	18.9	20.1	20.5	6.5	6.5	6.5	6.5	6.5
	4H	19.0	20.2	19.4	20.6	20.9	6.5	6.5	6.5	6.5	6.5
	6H	19.3	20.4	19.8	20.8	21.2	6.5	6.5	6.5	6.5	6.5
	8H	19.4	20.4	19.8	20.8	21.2	6.5	6.5	6.5	6.5	6.5
	12H	19.4	20.4	19.8	20.7	21.2	6.5	6.5	6.5	6.5	6.5
4H	2H	17.0	18.2	17.4	18.5	18.9	8.8	10.0	9.2	10.4	10.7
	3H	18.9	19.8	19.3	20.2	20.6	9.4	10.4	9.9	10.8	11.2
	4H	19.5	20.4	20.0	20.8	21.3	9.5	10.4	10.0	10.8	11.2
	6H	20.0	20.7	20.4	21.2	21.6	9.5	10.3	10.0	10.7	11.2
	8H	20.0	20.7	20.5	21.2	21.7	9.5	10.2	10.0	10.7	11.1
	12H	20.0	20.6	20.5	21.1	21.6	9.5	10.2	10.0	10.6	11.1
8H	4H	19.5	20.2	20.0	20.6	21.1	11.1	11.8	11.6	12.3	12.8
	6H	20.0	20.6	20.5	21.1	21.6	11.2	11.8	11.7	12.3	12.8
	8H	20.1	20.6	20.6	21.1	21.6	11.2	11.8	11.7	12.3	12.8
	12H	20.1	20.5	20.6	21.0	21.6	11.2	11.7	11.7	12.2	12.8
12H	4H	19.5	20.1	19.9	20.6	21.0	11.4	12.0	11.9	12.5	13.0
	6H	19.9	20.5	20.5	20.9	21.5	11.5	12.1	12.0	12.5	13.1
	8H	20.0	20.5	20.6	21.0	21.6	11.5	12.0	12.1	12.5	13.1

Maximum UGR = 21.7

POLAR GRAPH



Maximum Candela = 4154.566 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.)