



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ATAL009604-R2
[TESTLAB]ATAL-LABS
[ISSUE DATE]28 NOV 2022
[MANUFACTURER]WILLIAMS OUTDOOR
[OTHER]H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMEN CATEGORY]VF2-L70-750-HS-MTG-CLR-OPT-DIM-UNV
[LUMINAIRE]VOLTAIRE MEDIUM ARCHITECTURAL FLOOD LIGHT WITH
[MORE]HORIZONTAL SPOT MOLDED REFRACTIVE CLEAR ACRYLIC LENS AND A
[MORE]CLEAR GLASS LENS.
[LAMP CATEGORY]LUXEON TX 5000K LEDS
[BALLAST](1) PHILIPS ELECTRONIC DRIVER
[OTHER]INPUT WATTS: 55, AMPS: 0.4454, VAC: 120.05, TEMP: 25.4 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	6583
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)	1.40
Spacing Criterion (90-270)	3.40
Spacing Criterion (Diagonal)	1.78
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.69 ft (Diameter)
Luminous Height	0.00 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	31114	64509	159838
55	17900	47124	294445
65	17557	19208	277335
75	15334	12418	15501
85	0	4529	4949

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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	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335
2.5	1340.970	1340.953	1340.900	1340.811	1340.688	1340.530	1340.337	1340.110	1339.849	1339.555
5.0	1358.096	1358.064	1357.969	1357.811	1357.589	1357.306	1357.377	1357.257	1357.060	1356.785
7.5	1364.424	1364.440	1364.487	1364.566	1365.164	1365.813	1366.469	1367.125	1367.863	1368.074
10.0	1356.607	1356.648	1356.773	1357.546	1358.667	1359.892	1361.229	1362.682	1364.922	1367.242
12.5	1348.789	1348.814	1348.892	1349.942	1350.918	1351.940	1353.391	1355.490	1357.682	1359.977
15.0	1350.650	1350.630	1350.793	1351.207	1351.627	1352.646	1354.753	1356.731	1358.294	1361.750
17.5	1371.200	1372.312	1372.803	1372.753	1372.233	1372.901	1373.464	1375.047	1377.786	1380.068
20.0	1405.997	1407.915	1408.959	1409.396	1410.437	1411.311	1412.671	1415.785	1417.581	1420.899
22.5	1437.020	1436.799	1439.480	1441.735	1445.188	1448.259	1453.007	1457.694	1463.595	1470.244
25.0	1435.779	1435.790	1439.956	1444.564	1452.538	1460.989	1471.611	1482.704	1495.614	1509.530
27.5	1400.642	1403.936	1407.911	1414.978	1426.306	1440.987	1457.844	1477.938	1497.891	1526.592
30.0	1347.672	1353.099	1356.650	1365.063	1377.385	1395.796	1417.424	1441.275	1464.151	1488.745
32.5	1280.660	1286.080	1289.221	1297.207	1309.014	1325.751	1346.542	1370.245	1395.964	1431.198
35.0	1202.398	1207.736	1210.410	1218.353	1230.170	1246.077	1266.880	1289.784	1317.361	1356.578
37.5	1121.322	1126.261	1127.791	1134.663	1144.523	1158.842	1177.876	1201.596	1233.322	1270.589
40.0	1015.594	1020.299	1021.859	1028.951	1040.907	1057.332	1077.896	1103.099	1138.721	1176.840
42.5	909.865	913.949	914.543	920.523	933.909	949.978	968.010	993.132	1026.149	1060.201
45.0	759.462	764.421	766.887	774.281	789.960	808.564	828.538	858.374	893.558	937.442
47.5	609.058	614.527	617.024	623.215	637.331	652.889	669.222	692.143	719.963	758.900
50.0	524.177	528.118	528.877	531.645	538.575	545.963	552.797	560.162	569.171	581.254
52.5	439.296	442.437	443.669	446.008	451.145	458.253	465.919	474.071	483.565	498.396
55.0	354.415	356.782	358.575	359.823	363.476	370.883	379.431	388.168	397.576	412.187
57.5	329.844	331.003	330.470	328.523	328.147	330.041	331.410	332.062	331.551	333.212
60.0	305.274	305.822	304.758	302.968	303.205	305.202	305.789	306.539	305.413	306.413
62.5	280.703	280.620	279.007	277.539	278.323	280.318	280.068	280.306	279.151	279.248
65.0	256.132	255.400	253.222	252.222	253.494	254.937	254.418	254.264	252.579	252.071
67.5	226.349	226.215	223.801	222.874	224.896	224.916	224.662	224.506	223.337	223.195
70.0	196.567	197.013	194.232	193.222	195.408	193.719	192.842	192.419	191.313	190.449
72.5	166.784	167.825	164.645	163.776	165.643	162.578	160.745	160.597	159.349	157.357
75.0	137.001	138.649	135.047	134.344	135.655	131.483	128.423	128.995	127.442	123.983
77.5	102.751	104.294	101.703	101.861	102.675	99.968	97.646	98.391	97.140	93.384
80.0	68.501	69.917	68.338	69.142	69.624	68.449	67.538	67.898	67.663	65.364
82.5	34.250	35.545	35.022	36.362	36.738	36.982	37.657	37.652	38.459	37.637
85.0	0.000	1.175	1.741	3.537	3.968	5.543	7.929	7.502	9.433	10.116
87.5	0.000	0.558	0.747	1.502	1.512	2.092	3.078	2.493	3.169	3.224
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	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335
2.5	1339.228	1338.984	1338.665	1338.313	1337.930	1337.516	1337.071	1336.597	1336.094	1335.564
5.0	1356.432	1355.998	1355.484	1354.888	1354.212	1353.409	1353.248	1352.820	1352.296	1351.676
7.5	1368.407	1369.009	1369.574	1370.103	1370.597	1371.058	1371.486	1371.629	1372.789	1373.120
10.0	1370.040	1371.659	1373.389	1376.234	1379.158	1382.100	1385.059	1388.031	1390.618	1393.111
12.5	1362.934	1366.539	1370.533	1374.949	1379.862	1385.684	1391.496	1397.286	1402.706	1407.610
15.0	1364.554	1367.128	1370.922	1376.898	1383.075	1388.619	1397.412	1405.241	1413.522	1422.064
17.5	1382.644	1385.575	1387.762	1391.699	1399.417	1406.650	1413.912	1422.034	1432.733	1443.480
20.0	1424.220	1425.205	1430.097	1431.209	1438.499	1445.721	1451.367	1456.970	1469.059	1479.850
22.5	1476.956	1484.405	1490.110	1499.296	1505.525	1511.462	1516.963	1521.263	1530.244	1538.421
25.0	1525.685	1541.393	1552.452	1562.987	1574.623	1585.040	1596.983	1605.145	1611.951	1619.304
27.5	1549.920	1569.203	1589.124	1610.676	1632.845	1655.781	1669.441	1683.968	1698.343	1713.450
30.0	1522.012	1555.701	1591.446	1629.208	1663.707	1689.512	1716.922	1745.845	1773.439	1792.696

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CANDELA TABULATION - (Cont.)

32.5	1471.938	1514.312	1559.554	1600.555	1642.077	1686.105	1733.390	1776.068	1809.971	1849.433
35.0	1396.347	1439.087	1486.707	1539.275	1594.718	1656.092	1703.958	1756.699	1814.153	1872.270
37.5	1310.355	1354.405	1404.514	1460.202	1519.618	1582.180	1647.406	1715.392	1780.651	1841.984
40.0	1218.377	1263.395	1316.867	1375.117	1438.369	1505.696	1576.303	1647.586	1720.371	1794.280
42.5	1105.471	1157.571	1216.445	1283.522	1350.272	1419.978	1493.904	1572.654	1654.531	1734.150
45.0	987.990	1038.231	1095.711	1160.422	1236.437	1317.994	1406.534	1488.019	1574.625	1665.879
47.5	811.645	873.609	943.796	1029.269	1110.140	1190.794	1278.878	1378.042	1486.493	1583.464
50.0	621.608	676.792	740.066	822.857	918.002	1023.747	1140.216	1242.133	1351.986	1467.248
52.5	522.198	545.179	574.660	611.784	690.896	792.843	914.717	1050.695	1194.411	1312.906
55.0	431.039	451.477	480.317	515.450	558.183	610.397	678.278	798.487	933.050	1087.447
57.5	337.564	356.004	381.942	413.915	452.226	499.711	557.400	613.495	677.146	789.175
60.0	307.551	310.922	316.949	324.875	338.841	377.664	423.702	474.197	532.177	587.545
62.5	280.266	283.623	288.507	294.777	300.385	306.980	311.664	326.590	376.906	431.295
65.0	253.031	255.643	258.891	263.124	266.175	269.879	271.850	275.859	280.219	286.455
67.5	224.675	227.045	228.209	229.641	230.717	230.720	230.429	232.015	235.110	239.430
70.0	190.779	192.267	193.645	194.148	194.179	190.762	187.558	187.481	189.134	192.570
72.5	156.656	157.216	158.165	157.755	157.155	153.835	150.561	147.875	145.676	147.309
75.0	122.344	122.127	122.616	121.409	120.130	117.777	115.137	112.324	110.945	112.928
77.5	91.153	89.908	88.952	86.168	83.778	82.464	80.069	77.139	76.813	79.093
80.0	63.897	63.253	62.807	61.437	59.604	57.433	53.964	49.645	47.803	47.349
82.5	36.787	36.765	37.056	37.152	36.421	35.267	33.467	31.232	30.622	30.444
85.0	9.786	10.391	11.575	13.174	13.529	13.429	13.593	13.541	13.625	13.743
87.5	2.608	2.518	2.787	3.413	3.239	2.823	2.914	3.028	2.642	2.215
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	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335
2.5	1335.007	1334.424	1333.818	1333.187	1332.535	1331.862	1330.744	1330.522	1329.946	1329.357
5.0	1350.962	1349.775	1349.256	1348.270	1347.197	1346.042	1344.807	1343.497	1342.115	1340.666
7.5	1373.074	1372.209	1371.204	1370.061	1368.781	1367.369	1365.825	1364.070	1361.772	1360.076
10.0	1394.229	1395.162	1395.908	1396.463	1396.657	1395.238	1392.646	1391.350	1389.170	1386.383
12.5	1412.950	1417.992	1422.730	1425.768	1426.745	1426.532	1428.429	1428.147	1425.557	1422.352
15.0	1431.910	1441.360	1449.237	1455.442	1461.148	1467.603	1469.972	1471.312	1471.955	1469.759
17.5	1455.166	1467.245	1479.658	1491.643	1501.053	1512.694	1520.829	1527.070	1528.184	1528.164
20.0	1490.346	1505.576	1521.370	1536.640	1553.008	1569.834	1584.067	1594.083	1602.825	1604.732
22.5	1545.321	1562.993	1578.341	1595.896	1614.995	1635.440	1656.198	1675.766	1688.741	1699.931
25.0	1627.790	1635.154	1651.150	1671.107	1689.483	1712.975	1735.674	1764.118	1789.449	1805.821
27.5	1724.674	1735.197	1746.492	1762.626	1784.263	1810.933	1840.410	1871.567	1903.642	1936.565
30.0	1812.100	1837.287	1854.671	1872.548	1895.814	1929.544	1971.441	2014.708	2059.063	2097.692
32.5	1889.134	1917.638	1952.587	1989.257	2025.131	2065.950	2111.982	2171.000	2235.141	2301.669
35.0	1917.689	1969.385	2019.999	2071.179	2130.212	2187.114	2254.714	2331.229	2412.141	2496.807
37.5	1906.935	1971.339	2037.225	2111.087	2183.530	2268.958	2352.994	2445.266	2545.469	2652.936
40.0	1867.173	1941.708	2019.510	2101.893	2198.548	2298.287	2406.234	2516.282	2639.239	2773.467
42.5	1816.250	1900.118	1984.739	2077.137	2181.410	2300.181	2428.311	2575.862	2723.893	2869.750
45.0	1759.293	1848.265	1940.547	2038.073	2149.524	2292.872	2460.881	2629.674	2800.065	2963.509
47.5	1682.121	1786.372	1888.038	1997.795	2122.908	2273.314	2448.324	2668.113	2902.255	3136.754
50.0	1594.303	1702.028	1821.603	1951.311	2080.747	2227.325	2434.085	2688.827	2986.232	3276.891
52.5	1440.802	1580.913	1727.149	1864.788	2020.093	2173.973	2369.257	2647.375	2984.533	3351.255
55.0	1254.402	1385.315	1551.241	1735.195	1885.308	2066.982	2272.743	2533.789	2905.153	3343.164
57.5	942.229	1119.061	1294.713	1471.907	1690.867	1829.674	2059.637	2363.577	2741.173	3231.389
60.0	648.548	761.933	930.641	1147.224	1261.608	1356.301	1574.920	2042.826	2494.388	2858.690
62.5	486.824	513.965	529.354	677.774	767.352	813.393	958.678	1316.954	1881.344	2106.623
65.0	321.857	359.374	384.143	396.953	418.008	431.098	379.216	687.719	1050.060	1467.277
67.5	241.969	244.193	260.814	282.343	288.412	277.851	287.438	305.465	539.465	800.984

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70.0	196.118	198.696	199.622	199.940	206.278	215.876	227.032	240.950	268.573	409.371
72.5	152.058	155.006	156.926	158.125	158.895	160.140	168.445	179.250	190.515	227.073
75.0	114.945	115.552	116.399	118.801	120.647	122.200	123.358	124.047	134.147	141.803
77.5	80.871	81.718	82.695	83.913	85.186	86.209	87.833	88.824	89.868	92.764
80.0	47.361	48.508	49.743	52.045	54.838	56.696	57.356	56.894	59.095	59.770
82.5	29.595	28.289	26.609	26.455	26.958	29.920	32.680	34.292	35.143	34.991
85.0	13.921	13.903	13.618	14.363	15.227	16.011	16.687	16.687	16.262	16.774
87.5	2.314	2.443	2.593	3.101	3.708	4.906	6.066	6.738	7.218	7.448
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	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335
2.5	1328.755	1328.143	1327.522	1326.891	1326.254	1325.611	1324.963	1324.473	1323.981	1323.488
5.0	1339.154	1336.894	1336.249	1335.061	1333.837	1332.579	1331.291	1329.650	1327.994	1326.333
7.5	1357.888	1355.549	1353.065	1350.456	1347.889	1345.225	1342.460	1340.326	1338.099	1335.698
10.0	1383.824	1380.584	1377.040	1373.216	1369.406	1366.083	1362.563	1358.871	1355.034	1352.351
12.5	1418.575	1414.231	1409.458	1404.352	1398.921	1394.174	1389.368	1384.273	1379.459	1376.691
15.0	1465.621	1460.859	1455.512	1449.553	1442.971	1436.297	1429.574	1424.331	1419.583	1415.350
17.5	1525.779	1519.268	1516.943	1515.229	1513.290	1509.646	1503.138	1492.272	1483.368	1474.636
20.0	1604.203	1601.246	1598.399	1595.080	1593.246	1589.420	1581.963	1570.333	1560.982	1549.120
22.5	1703.027	1703.524	1699.248	1691.354	1684.738	1674.521	1666.348	1659.452	1652.999	1645.372
25.0	1818.866	1823.848	1825.330	1821.676	1815.708	1807.251	1800.371	1792.435	1784.024	1776.699
27.5	1959.393	1976.352	1987.064	1990.361	1989.456	1984.953	1979.493	1971.598	1962.316	1953.365
30.0	2129.158	2158.687	2184.116	2202.047	2211.885	2215.747	2214.724	2207.719	2195.549	2179.203
32.5	2361.546	2409.847	2449.234	2480.121	2499.501	2511.168	2517.205	2514.019	2501.937	2480.672
35.0	2578.645	2653.961	2719.325	2779.740	2831.524	2872.402	2900.017	2902.486	2881.925	2837.082
37.5	2767.582	2877.338	2978.854	3076.326	3168.482	3246.951	3302.913	3313.650	3281.930	3204.773
40.0	2904.744	3024.079	3127.802	3220.778	3308.207	3384.616	3442.892	3457.756	3432.909	3363.779
42.5	3007.037	3131.136	3242.224	3339.125	3433.516	3517.876	3582.871	3597.330	3566.493	3489.086
45.0	3142.314	3307.506	3454.309	3586.346	3708.898	3819.438	3901.547	3916.466	3865.973	3747.226
47.5	3356.048	3549.956	3714.419	3859.365	3994.641	4122.657	4220.223	4239.607	4171.182	4027.033
50.0	3549.656	3803.524	4037.520	4254.138	4453.328	4631.498	4756.810	4771.164	4662.400	4460.527
52.5	3710.445	4052.052	4370.381	4657.314	4918.820	5139.022	5293.396	5302.113	5169.763	4918.580
55.0	3791.527	4232.286	4646.530	5025.488	5375.940	5640.012	5829.983	5831.501	5670.212	5353.838
57.5	3781.454	4191.879	4460.439	4710.508	4956.621	5187.478	5383.985	5422.204	5315.797	5095.279
60.0	3199.076	3515.460	3817.492	4115.095	4413.796	4697.098	4937.988	4982.860	4832.277	4545.343
62.5	2464.357	2843.623	3153.858	3491.587	3851.334	4197.499	4491.991	4543.707	4327.464	3961.591
65.0	1604.091	2150.170	2478.540	2842.705	3261.202	3682.770	4045.993	4094.815	3794.716	3334.335
67.5	1012.246	1275.493	1805.546	2126.377	2458.242	2777.794	3069.117	3120.440	2896.016	2534.135
70.0	535.105	678.079	1200.730	1431.721	1657.198	1878.145	2092.242	2132.075	1959.565	1699.052
72.5	304.140	410.589	508.422	831.973	927.705	1013.725	1115.366	1153.480	1093.455	976.581
75.0	163.460	211.067	262.812	347.547	298.362	195.086	138.490	211.450	340.219	410.976
77.5	96.596	103.244	109.520	91.261	96.917	103.510	107.590	107.067	102.029	95.527
80.0	58.032	55.631	55.643	63.814	68.597	72.731	76.691	76.590	72.061	66.579
82.5	34.150	32.165	34.476	38.214	43.257	43.841	45.791	46.628	45.080	39.343
85.0	16.992	18.060	19.819	20.958	21.103	18.650	14.891	18.976	21.975	21.555
87.5	7.303	7.852	8.622	10.040	10.178	7.902	7.446	8.422	10.266	10.472
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	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335
2.5	1322.993	1322.499	1322.006	1321.516	1321.028	1320.353	1320.193	1319.938	1319.686	1319.435

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CANDELA TABULATION - (Cont.)

5.0	1324.682	1323.479	1322.927	1322.367	1321.800	1321.228	1320.650	1320.069	1319.485	1318.899
7.5	1334.352	1332.899	1331.403	1329.876	1328.080	1326.891	1326.606	1326.941	1327.209	1327.409
10.0	1349.986	1347.451	1344.743	1342.112	1342.088	1341.882	1341.005	1341.448	1341.651	1343.079
12.5	1373.650	1370.344	1368.794	1368.692	1368.219	1367.365	1367.696	1367.364	1369.186	1370.116
15.0	1410.674	1408.155	1407.847	1407.027	1406.847	1407.945	1408.358	1408.146	1408.228	1408.890
17.5	1466.579	1462.723	1462.913	1462.807	1463.590	1463.517	1463.390	1462.223	1457.868	1456.792
20.0	1543.452	1539.415	1538.965	1540.137	1539.864	1539.046	1536.922	1531.997	1524.968	1517.644
22.5	1644.253	1641.725	1641.604	1639.900	1637.763	1633.546	1624.862	1614.583	1599.812	1585.753
25.0	1772.042	1769.060	1765.397	1760.914	1753.899	1740.719	1723.267	1706.188	1685.568	1655.615
27.5	1943.167	1934.712	1923.078	1908.586	1886.960	1865.416	1840.885	1808.934	1769.483	1723.144
30.0	2158.847	2135.039	2110.715	2089.535	2062.334	2024.120	1975.864	1919.616	1853.844	1796.378
32.5	2452.544	2415.911	2371.747	2321.174	2258.686	2188.517	2112.833	2034.859	1959.568	1886.701
35.0	2773.933	2701.592	2623.395	2541.008	2451.747	2353.920	2246.804	2145.302	2051.345	1982.046
37.5	3097.681	2977.569	2850.808	2726.865	2598.967	2469.600	2344.741	2225.561	2133.825	2053.095
40.0	3264.383	3144.298	3009.563	2862.437	2703.515	2550.648	2408.316	2293.526	2187.558	2102.624
42.5	3380.868	3258.844	3117.108	2963.120	2798.082	2628.788	2473.586	2343.329	2239.848	2139.714
45.0	3596.639	3431.116	3253.771	3070.219	2902.004	2732.715	2567.195	2414.347	2266.242	2145.176
47.5	3846.856	3657.336	3465.585	3267.211	3056.289	2838.729	2637.939	2455.796	2286.317	2139.477
50.0	4201.549	3936.549	3684.961	3464.064	3221.975	2958.970	2695.670	2453.711	2266.804	2110.651
52.5	4602.533	4276.668	3962.616	3648.180	3328.344	3004.414	2689.233	2429.434	2212.750	2046.135
55.0	4961.786	4557.738	4157.662	3751.207	3343.226	2942.840	2612.034	2338.477	2124.566	1950.635
57.5	4844.960	4616.034	4254.236	3742.243	3233.857	2795.627	2435.829	2170.780	1964.292	1749.726
60.0	4238.334	3957.235	3687.682	3410.867	3022.178	2536.619	2139.021	1830.810	1620.512	1471.055
62.5	3589.752	3257.469	2950.683	2645.108	2365.553	2112.409	1639.368	1290.726	1119.024	995.071
65.0	2891.598	2520.516	2202.004	1820.079	1620.634	1319.733	912.240	740.182	610.890	592.222
67.5	2138.368	1773.332	1331.233	1145.275	939.273	631.482	470.822	306.912	361.317	358.091
70.0	1415.124	1035.984	677.857	585.799	418.238	320.529	254.179	239.422	230.823	216.112
72.5	822.857	506.955	378.594	248.560	224.739	202.186	185.611	175.718	174.787	170.775
75.0	310.524	258.779	178.293	165.608	149.949	131.497	132.695	132.180	130.243	126.754
77.5	124.024	110.658	108.741	99.531	93.874	93.818	93.819	91.903	90.574	89.421
80.0	57.054	58.911	60.404	62.771	62.749	61.180	61.741	61.167	59.439	56.811
82.5	35.698	33.587	36.155	37.588	38.140	37.584	36.154	33.545	30.747	30.328
85.0	20.738	19.318	18.642	18.794	18.530	19.117	19.220	18.603	17.844	16.981
87.5	9.412	9.005	8.806	9.067	8.882	8.399	7.691	6.471	5.188	4.485
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	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335
2.5	1319.187	1318.943	1318.702	1318.465	1318.233	1318.006	1317.785	1317.569	1317.359	1317.157
5.0	1318.313	1317.963	1318.189	1318.371	1318.507	1318.599	1318.644	1318.568	1318.810	1319.033
7.5	1327.541	1327.604	1327.599	1327.772	1328.333	1328.575	1329.437	1330.081	1330.638	1331.106
10.0	1344.215	1345.049	1345.576	1345.790	1345.490	1346.705	1347.496	1348.063	1348.407	1348.530
12.5	1371.060	1371.871	1372.272	1372.261	1373.013	1371.123	1369.387	1367.470	1365.376	1363.879
15.0	1408.914	1407.309	1404.149	1400.406	1397.858	1393.745	1387.915	1381.177	1377.212	1372.488
17.5	1453.271	1448.683	1440.359	1431.127	1422.847	1413.493	1401.188	1390.550	1380.322	1369.887
20.0	1507.057	1495.348	1481.151	1463.858	1447.002	1429.616	1409.450	1391.204	1373.033	1357.082
22.5	1567.093	1543.533	1517.434	1493.142	1466.436	1439.625	1417.534	1395.587	1375.380	1357.161
25.0	1624.451	1582.877	1552.423	1520.946	1490.389	1461.441	1436.994	1421.787	1408.497	1393.813
27.5	1675.439	1635.027	1596.126	1557.163	1535.094	1516.717	1496.970	1479.010	1462.700	1448.202
30.0	1744.261	1692.314	1656.802	1633.905	1609.639	1587.547	1569.059	1550.220	1530.901	1507.886
32.5	1827.033	1784.739	1749.568	1717.982	1689.914	1667.828	1639.662	1609.853	1581.941	1554.515
35.0	1924.819	1875.917	1835.679	1802.112	1759.165	1718.868	1685.217	1653.388	1601.536	1550.887
37.5	1994.483	1942.548	1889.135	1837.153	1791.931	1740.129	1680.514	1624.287	1571.260	1517.896
40.0	2034.185	1964.828	1901.982	1839.862	1773.227	1708.123	1646.369	1578.097	1508.840	1443.174

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CANDELA TABULATION - (Cont.)

42.5	2043.651	1962.309	1884.442	1810.473	1738.295	1658.869	1579.009	1502.659	1428.195	1358.500
45.0	2040.377	1941.717	1850.765	1763.356	1675.963	1590.732	1505.311	1418.141	1334.152	1255.101
47.5	2016.112	1907.958	1799.544	1698.471	1605.449	1502.844	1405.563	1315.291	1230.739	1146.477
50.0	1972.605	1846.300	1732.505	1613.543	1501.315	1395.936	1295.439	1175.355	1064.174	964.576
52.5	1902.631	1758.979	1623.509	1500.449	1381.635	1231.899	1094.845	972.107	864.151	771.894
55.0	1777.028	1620.799	1485.453	1313.707	1151.452	1005.761	875.383	775.993	689.820	615.262
57.5	1583.565	1399.480	1207.094	1047.410	910.000	789.251	685.165	593.623	515.457	448.978
60.0	1241.654	1055.335	906.169	786.740	680.403	571.491	477.526	397.198	329.152	307.137
62.5	847.034	743.210	641.909	529.800	427.829	335.468	308.397	299.380	288.763	279.459
65.0	565.329	470.517	365.579	290.542	283.325	278.453	270.634	264.695	257.241	250.606
67.5	302.229	253.619	247.997	242.293	237.014	233.915	230.649	227.419	224.082	219.729
70.0	211.312	206.737	200.962	194.397	189.316	188.240	188.643	188.999	189.885	186.600
72.5	165.730	160.814	155.353	147.536	144.813	148.643	152.696	154.319	155.779	152.673
75.0	120.912	119.593	118.345	115.169	112.283	114.352	118.105	120.123	121.203	118.895
77.5	87.613	86.088	84.883	82.676	80.096	80.700	84.103	86.343	87.013	86.121
80.0	54.419	52.982	51.798	51.696	51.874	53.457	57.717	60.944	62.193	61.988
82.5	30.458	31.923	33.042	33.665	33.368	33.586	36.045	37.949	38.200	37.788
85.0	16.201	16.338	16.229	15.886	15.082	14.380	14.948	15.249	14.467	13.533
87.5	3.889	3.665	3.472	3.304	3.157	3.038	3.409	3.753	3.635	3.531
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	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335	1325.335
2.5	1316.961	1316.773	1316.550	1316.475	1316.434	1316.400	1316.372	1316.351	1316.339	1316.337
5.0	1319.252	1319.465	1319.671	1319.867	1320.052	1320.224	1320.381	1320.516	1320.867	1320.867
7.5	1331.486	1331.776	1331.976	1332.678	1332.772	1333.198	1333.558	1333.849	1334.066	1334.216
10.0	1348.466	1348.730	1348.529	1347.858	1347.114	1346.319	1346.676	1346.979	1347.228	1347.422
12.5	1362.475	1360.197	1357.128	1354.528	1352.428	1350.290	1348.128	1347.038	1346.730	1346.491
15.0	1367.140	1360.488	1354.924	1349.482	1343.705	1339.936	1335.923	1332.015	1329.816	1328.574
17.5	1358.998	1348.823	1338.926	1330.378	1323.088	1316.268	1309.936	1306.124	1301.946	1299.811
20.0	1344.227	1330.232	1321.121	1311.506	1302.951	1296.214	1289.344	1284.951	1281.743	1279.919
22.5	1341.968	1334.424	1325.458	1318.131	1311.377	1305.272	1300.469	1295.744	1292.143	1288.602
25.0	1380.787	1367.274	1357.448	1347.554	1339.822	1332.764	1327.301	1322.033	1317.794	1313.458
27.5	1433.891	1420.206	1405.949	1391.266	1373.625	1364.005	1353.164	1345.287	1337.846	1331.449
30.0	1484.364	1461.559	1440.097	1418.505	1402.459	1386.876	1370.281	1354.528	1341.734	1331.635
32.5	1527.424	1487.597	1447.716	1414.167	1384.560	1360.687	1339.340	1320.948	1309.024	1299.520
35.0	1502.632	1459.367	1419.998	1384.282	1346.247	1314.166	1286.100	1261.114	1245.182	1233.193
37.5	1458.978	1402.217	1351.067	1305.568	1265.617	1231.283	1201.928	1179.778	1163.339	1152.279
40.0	1380.298	1321.000	1267.771	1219.628	1177.546	1141.000	1112.686	1089.646	1072.077	1060.816
42.5	1290.021	1227.974	1171.729	1120.345	1079.411	1042.975	1015.706	995.824	978.185	968.131
45.0	1186.206	1123.296	1069.798	1014.907	963.971	921.883	888.447	866.314	844.718	832.951
47.5	1055.491	976.099	909.739	853.796	809.286	771.458	741.936	722.016	703.314	692.451
50.0	877.102	801.452	735.830	686.525	658.423	629.826	607.611	591.078	576.662	566.775
52.5	705.738	646.722	594.332	555.740	525.946	500.946	480.480	465.063	452.637	442.862
55.0	552.750	499.298	455.036	420.073	392.453	369.832	352.152	338.459	327.914	319.056
57.5	392.864	345.110	308.334	298.774	295.402	290.885	289.128	287.984	287.077	285.941
60.0	296.525	285.761	278.211	273.810	270.927	267.113	265.051	264.065	262.885	261.907
62.5	269.731	260.480	252.785	248.823	246.069	243.360	241.064	240.230	238.753	237.733
65.0	242.123	234.263	227.052	223.643	221.118	219.238	217.153	216.202	214.676	213.436
67.5	213.760	206.867	201.133	197.594	195.255	193.597	191.896	190.787	189.876	187.927
70.0	182.356	177.291	172.870	169.996	168.286	167.103	165.839	165.043	164.829	162.434
72.5	149.419	146.532	144.023	142.205	141.152	140.655	139.574	139.346	139.659	137.112
75.0	115.653	115.078	114.681	114.248	113.882	114.240	113.136	113.684	114.389	111.804
77.5	83.925	85.518	86.871	87.379	87.283	87.839	86.650	87.197	87.287	85.232

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CANDELA TABULATION - (Cont.)

80.0	60.110	60.612	61.357	61.491	61.164	61.248	60.269	60.554	60.120	58.517
82.5	36.246	35.948	35.971	35.660	35.104	34.795	33.973	33.893	33.034	31.742
85.0	12.342	11.453	10.671	9.864	9.080	8.388	7.735	7.216	5.183	4.467
87.5	3.439	3.357	3.286	3.224	3.169	3.123	3.083	3.051	2.643	2.253
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	1325.335	1325.335	1325.335
2.5	1316.346	1316.366	1316.400
5.0	1320.867	1320.867	1320.867
7.5	1334.452	1334.594	1334.642
10.0	1347.560	1347.644	1347.672
12.5	1346.320	1346.217	1346.182
15.0	1327.042	1326.824	1326.824
17.5	1298.021	1296.820	1296.445
20.0	1279.290	1278.424	1277.186
22.5	1286.353	1283.574	1282.150
25.0	1312.003	1310.712	1310.692
27.5	1327.818	1325.950	1325.760
30.0	1324.412	1320.934	1319.006
32.5	1292.426	1289.336	1284.569
35.0	1224.649	1220.073	1214.146
37.5	1145.520	1139.969	1134.725
40.0	1053.417	1048.538	1041.654
42.5	960.637	955.052	948.582
45.0	823.481	817.395	807.859
47.5	684.140	676.698	667.135
50.0	559.422	554.256	547.011
52.5	435.327	430.422	426.887
55.0	311.187	305.274	306.763
57.5	283.795	282.585	284.053
60.0	260.489	259.638	261.344
62.5	237.132	236.671	238.635
65.0	212.947	213.494	215.925
67.5	187.401	187.475	189.865
70.0	160.937	161.253	163.806
72.5	134.442	135.046	137.746
75.0	107.345	108.707	111.686
77.5	82.072	82.560	84.137
80.0	56.256	56.284	56.588
82.5	30.454	30.019	29.038
85.0	4.467	3.708	1.489
87.5	2.242	1.861	0.745
90.0	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	527.17	N.A.	8.00
0-30	1265.13	N.A.	19.20
0-40	2439.67	N.A.	37.10
0-60	5476.72	N.A.	83.20
0-80	6560.06	N.A.	99.70
0-90	6582.6	N.A.	100.00
10-90	6454.25	N.A.	98.10
20-40	1912.5	N.A.	29.10
20-50	3381.16	N.A.	51.40
40-70	3922.72	N.A.	59.60
60-80	1083.34	N.A.	16.50
70-80	197.67	N.A.	3.00
80-90	22.55	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	6582.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	128.36
10-20	398.81
20-30	737.97
30-40	1174.53
40-50	1468.65
50-60	1568.4
60-70	885.67
70-80	197.67
80-90	22.55
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

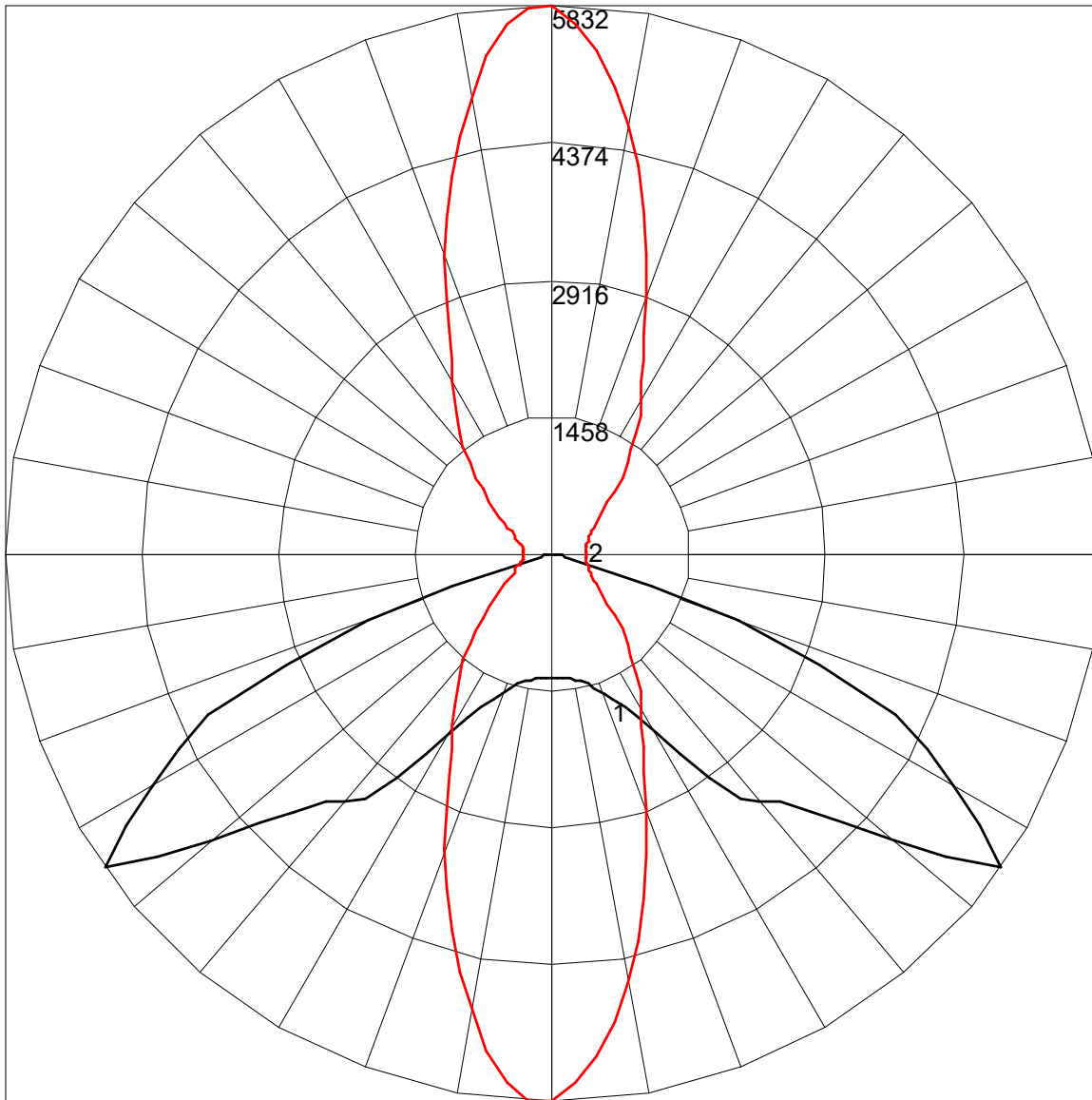
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VF2-L70-750-HS_.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	147	147	147	147	144	144	144	144	137	137	137	131	131	131	126	126	126	123
1	135	129	124	120	132	127	122	118	121	118	114	117	114	111	112	110	107	105
2	122	112	104	97	119	110	102	96	106	99	94	102	96	91	98	93	89	87
3	111	98	87	79	108	96	86	78	92	84	77	88	82	76	85	79	74	72
4	101	85	74	66	98	84	73	65	80	71	64	78	70	63	75	68	62	60
5	92	75	64	55	89	74	63	55	71	61	54	69	60	53	66	59	53	50
6	84	67	55	47	81	65	55	47	63	53	46	61	52	46	59	51	45	43
7	77	60	48	40	75	59	48	40	57	47	40	55	46	39	53	45	39	37
8	71	54	43	35	69	53	42	35	51	42	35	49	41	34	48	40	34	32
9	66	49	38	31	64	48	38	31	46	37	31	45	36	30	44	36	30	28
10	61	44	34	27	60	44	34	27	42	33	27	41	33	27	40	32	27	25

POLAR GRAPH



Maximum Candela = 5831.501 Located At Horizontal Angle = 92.5, Vertical Angle = 55
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (55) (Through Max. Cd.)