



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VF2-L57-750-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-L57-750-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: 43, 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	5352
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	43
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	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	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665
2.5	1090.380	1090.365	1090.322	1090.250	1090.150	1090.021	1089.865	1089.680	1089.468	1089.229
5.0	1104.304	1104.278	1104.201	1104.072	1103.892	1103.661	1103.719	1103.622	1103.462	1103.239
7.5	1109.451	1109.464	1109.502	1109.566	1110.052	1110.580	1111.113	1111.646	1112.246	1112.417
10.0	1103.094	1103.127	1103.229	1103.858	1104.769	1105.766	1106.853	1108.034	1109.855	1111.742
12.5	1096.736	1096.757	1096.820	1097.674	1098.468	1099.299	1100.479	1102.185	1103.968	1105.834
15.0	1098.250	1098.233	1098.366	1098.703	1099.044	1099.873	1101.586	1103.194	1104.465	1107.275
17.5	1114.960	1115.865	1116.263	1116.222	1115.799	1116.343	1116.801	1118.088	1120.315	1122.170
20.0	1143.253	1144.814	1145.663	1146.018	1146.865	1147.576	1148.681	1151.213	1152.674	1155.371
22.5	1168.480	1168.300	1170.480	1172.313	1175.121	1177.619	1181.479	1185.291	1190.088	1195.495
25.0	1167.471	1167.479	1170.867	1174.613	1181.098	1187.970	1196.606	1205.627	1216.124	1227.440
27.5	1138.900	1141.578	1144.810	1150.556	1159.769	1171.706	1185.413	1201.752	1217.976	1241.314
30.0	1095.829	1100.241	1103.128	1109.969	1119.989	1134.960	1152.546	1171.940	1190.541	1210.539
32.5	1041.340	1045.745	1048.300	1054.794	1064.395	1078.004	1094.910	1114.183	1135.096	1163.746
35.0	977.702	982.043	984.216	990.676	1000.285	1013.219	1030.135	1048.758	1071.181	1103.070
37.5	911.778	915.793	917.036	922.625	930.643	942.286	957.764	977.050	1002.847	1033.150
40.0	825.807	829.632	830.900	836.668	846.390	859.746	876.466	896.959	925.924	956.920
42.5	739.835	743.156	743.639	748.501	759.387	772.452	787.115	807.543	834.390	862.078
45.0	617.539	621.571	623.576	629.588	642.338	657.465	673.707	697.967	726.577	762.259
47.5	495.242	499.687	501.718	506.753	518.232	530.882	544.162	562.801	585.421	617.082
50.0	426.223	429.427	430.044	432.295	437.930	443.937	449.494	455.483	462.808	472.634
52.5	357.204	359.758	360.759	362.662	366.838	372.618	378.851	385.480	393.200	405.260
55.0	288.185	290.110	291.567	292.582	295.552	301.575	308.525	315.630	323.280	335.160
57.5	268.206	269.148	268.714	267.131	266.825	268.364	269.478	270.009	269.593	270.943
60.0	248.227	248.673	247.807	246.351	246.544	248.167	248.645	249.256	248.340	249.153
62.5	228.247	228.180	226.868	225.674	226.311	227.933	227.731	227.925	226.985	227.064
65.0	208.268	207.673	205.901	205.087	206.122	207.295	206.875	206.749	205.378	204.965
67.5	184.051	183.942	181.978	181.224	182.868	182.885	182.679	182.552	181.601	181.486
70.0	159.834	160.197	157.935	157.114	158.891	157.518	156.806	156.461	155.561	154.859
72.5	135.616	136.463	133.877	133.171	134.688	132.196	130.706	130.586	129.571	127.951
75.0	111.399	112.739	109.810	109.239	110.304	106.913	104.425	104.890	103.626	100.814
77.5	83.549	84.804	82.697	82.827	83.488	81.287	79.399	80.005	78.987	75.933
80.0	55.700	56.852	55.567	56.222	56.613	55.658	54.917	55.211	55.018	53.149
82.5	27.850	28.903	28.477	29.567	29.873	30.071	30.620	30.616	31.271	30.603
85.0	0.000	0.955	1.416	2.877	3.227	4.508	6.447	6.101	7.670	8.225
87.5	0.000	0.454	0.608	1.221	1.230	1.702	2.502	2.027	2.577	2.621
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	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665
2.5	1088.963	1088.765	1088.505	1088.219	1087.907	1087.570	1087.209	1086.823	1086.414	1085.983
5.0	1102.951	1102.598	1102.180	1101.696	1101.146	1100.493	1100.362	1100.014	1099.588	1099.084
7.5	1112.688	1113.178	1113.638	1114.068	1114.470	1114.844	1115.192	1115.309	1116.252	1116.521
10.0	1114.017	1115.333	1116.740	1119.053	1121.431	1123.823	1126.229	1128.645	1130.749	1132.776
12.5	1108.238	1111.170	1114.418	1118.008	1122.004	1126.738	1131.463	1136.171	1140.578	1144.566
15.0	1109.555	1111.648	1114.733	1119.593	1124.616	1129.123	1136.274	1142.640	1149.374	1156.319
17.5	1124.265	1126.649	1128.427	1131.628	1137.904	1143.785	1149.690	1156.293	1164.994	1173.732
20.0	1158.072	1158.874	1162.851	1163.755	1169.683	1175.555	1180.146	1184.702	1194.532	1203.306
22.5	1200.953	1207.010	1211.648	1219.118	1224.183	1229.010	1233.483	1236.980	1244.283	1250.932
25.0	1240.576	1253.348	1262.341	1270.907	1280.368	1288.838	1298.550	1305.186	1310.721	1316.700
27.5	1260.283	1275.962	1292.160	1309.684	1327.710	1346.360	1357.468	1369.280	1380.969	1393.253
30.0	1237.589	1264.982	1294.047	1324.754	1352.805	1373.788	1396.075	1419.594	1442.031	1457.689

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CANDELA TABULATION - (Cont.)

32.5	1196.872	1231.328	1268.116	1301.455	1335.217	1371.017	1409.466	1444.168	1471.736	1503.824
35.0	1135.408	1170.161	1208.882	1251.626	1296.708	1346.613	1385.534	1428.419	1475.136	1522.393
37.5	1065.485	1101.304	1142.049	1187.329	1235.642	1286.514	1339.550	1394.831	1447.895	1497.767
40.0	990.695	1027.300	1070.780	1118.145	1169.576	1224.322	1281.735	1339.697	1398.880	1458.978
42.5	898.888	941.252	989.124	1043.666	1097.942	1154.622	1214.734	1278.768	1345.344	1410.084
45.0	803.362	844.214	890.952	943.570	1005.380	1071.697	1143.691	1209.949	1280.370	1354.571
47.5	659.971	710.355	767.426	836.927	902.685	968.267	1039.890	1120.523	1208.707	1287.557
50.0	505.446	550.318	601.768	669.088	746.453	832.436	927.140	1010.011	1099.336	1193.059
52.5	424.613	443.300	467.272	497.459	561.787	644.682	743.781	854.348	971.207	1067.558
55.0	350.489	367.108	390.559	419.127	453.874	496.330	551.526	649.271	758.688	884.233
57.5	274.482	289.477	310.568	336.566	367.717	406.329	453.237	498.850	550.606	641.700
60.0	250.078	252.820	257.720	264.165	275.521	307.089	344.524	385.583	432.728	477.749
62.5	227.892	230.622	234.593	239.691	244.251	249.613	253.422	265.559	306.473	350.698
65.0	205.746	207.870	210.511	213.953	216.434	219.446	221.049	224.309	227.854	232.924
67.5	182.689	184.617	185.563	186.727	187.603	187.605	187.368	188.658	191.174	194.687
70.0	155.127	156.337	157.458	157.866	157.893	155.114	152.508	152.445	153.789	156.584
72.5	127.381	127.836	128.608	128.274	127.787	125.087	122.425	120.240	118.453	119.780
75.0	99.481	99.304	99.703	98.721	97.681	95.767	93.621	91.334	90.212	91.825
77.5	74.119	73.106	72.329	70.066	68.122	67.053	65.106	62.724	62.459	64.313
80.0	51.956	51.433	51.070	49.956	48.465	46.700	43.880	40.368	38.870	38.502
82.5	29.913	29.895	30.131	30.209	29.615	28.677	27.213	25.396	24.901	24.756
85.0	7.957	8.450	9.412	10.712	11.000	10.920	11.053	11.011	11.079	11.175
87.5	2.121	2.048	2.266	2.775	2.633	2.296	2.370	2.462	2.149	1.802
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	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665
2.5	1085.530	1085.057	1084.563	1084.051	1083.521	1082.973	1082.064	1081.884	1081.415	1080.936
5.0	1098.504	1097.538	1097.117	1096.314	1095.442	1094.503	1093.499	1092.433	1091.310	1090.131
7.5	1116.483	1115.780	1114.963	1114.033	1112.993	1111.845	1110.590	1109.163	1107.294	1105.915
10.0	1133.685	1134.444	1135.050	1135.502	1135.659	1134.505	1132.398	1131.344	1129.571	1127.305
12.5	1148.908	1153.008	1156.860	1159.330	1160.125	1159.951	1161.494	1161.264	1159.158	1156.553
15.0	1164.325	1172.009	1178.414	1183.459	1188.099	1193.348	1195.274	1196.363	1196.886	1195.101
17.5	1183.235	1193.057	1203.150	1212.895	1220.547	1230.012	1236.627	1241.701	1242.608	1242.591
20.0	1211.840	1224.224	1237.067	1249.484	1262.793	1276.475	1288.047	1296.192	1303.300	1304.851
22.5	1256.543	1270.912	1283.392	1297.666	1313.197	1329.821	1346.700	1362.611	1373.161	1382.259
25.0	1323.600	1329.588	1342.594	1358.822	1373.765	1392.867	1411.324	1434.452	1455.049	1468.362
27.5	1402.379	1410.935	1420.120	1433.239	1450.833	1472.519	1496.487	1521.822	1547.903	1574.673
30.0	1473.467	1493.947	1508.083	1522.619	1541.538	1568.965	1603.032	1638.214	1674.280	1705.690
32.5	1536.106	1559.284	1587.701	1617.518	1646.689	1679.880	1717.309	1765.298	1817.453	1871.549
35.0	1559.325	1601.361	1642.516	1684.132	1732.132	1778.401	1833.369	1895.586	1961.377	2030.221
37.5	1550.581	1602.950	1656.523	1716.582	1775.487	1844.950	1913.283	1988.312	2069.790	2157.174
40.0	1518.249	1578.856	1642.119	1709.106	1787.698	1868.799	1956.574	2046.056	2146.036	2255.181
42.5	1476.842	1545.037	1613.845	1688.977	1773.763	1870.339	1974.525	2094.503	2214.871	2333.471
45.0	1430.528	1502.874	1577.912	1657.213	1747.836	1864.396	2001.009	2138.259	2276.808	2409.709
47.5	1367.778	1452.548	1535.216	1624.461	1726.194	1848.493	1990.798	2169.515	2359.902	2550.579
50.0	1296.371	1383.965	1481.195	1586.664	1691.912	1811.098	1979.220	2186.358	2428.186	2664.529
52.5	1171.554	1285.483	1404.391	1516.310	1642.592	1767.716	1926.506	2152.652	2426.805	2724.996
55.0	1019.988	1126.438	1261.357	1410.934	1532.995	1680.719	1848.029	2060.292	2362.259	2718.418
57.5	766.153	909.939	1052.766	1196.847	1374.890	1487.758	1674.747	1921.889	2228.922	2627.530
60.0	527.352	619.549	756.730	932.839	1025.848	1102.845	1280.610	1661.078	2028.255	2324.478
62.5	395.850	417.919	430.432	551.117	623.954	661.391	779.527	1070.852	1529.772	1712.953
65.0	261.711	292.216	312.357	322.773	339.894	350.537	308.351	559.203	853.832	1193.083
67.5	196.752	198.559	212.074	229.581	234.515	225.928	233.723	248.382	438.654	651.302

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70.0	159.468	161.564	162.317	162.577	167.730	175.535	184.606	195.923	218.384	332.870
72.5	123.642	126.039	127.600	128.576	129.202	130.214	136.967	145.753	154.913	184.639
75.0	93.465	93.958	94.647	96.600	98.101	99.364	100.306	100.866	109.079	115.304
77.5	65.758	66.447	67.241	68.231	69.267	70.099	71.419	72.225	73.074	75.429
80.0	38.511	39.444	40.447	42.319	44.590	46.101	46.637	46.261	48.051	48.600
82.5	24.065	23.003	21.636	21.512	21.920	24.329	26.573	27.884	28.576	28.452
85.0	11.320	11.305	11.073	11.680	12.382	13.020	13.569	13.569	13.223	13.640
87.5	1.882	1.987	2.109	2.522	3.016	3.990	4.933	5.479	5.869	6.057
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	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665
2.5	1080.447	1079.949	1079.444	1078.931	1078.413	1077.890	1077.363	1076.965	1076.565	1076.164
5.0	1088.902	1087.064	1086.540	1085.574	1084.579	1083.556	1082.509	1081.175	1079.828	1078.478
7.5	1104.136	1102.233	1100.214	1098.092	1096.005	1093.839	1091.590	1089.855	1088.045	1086.093
10.0	1125.224	1122.590	1119.708	1116.599	1113.501	1110.799	1107.937	1104.935	1101.814	1099.633
12.5	1153.482	1149.949	1146.069	1141.916	1137.500	1133.641	1129.733	1125.590	1121.676	1119.425
15.0	1191.735	1187.863	1183.516	1178.671	1173.319	1167.892	1162.426	1158.162	1154.301	1150.859
17.5	1240.653	1235.358	1233.467	1232.074	1230.497	1227.533	1222.242	1213.406	1206.166	1199.067
20.0	1304.421	1302.016	1299.702	1297.002	1295.511	1292.400	1286.337	1276.881	1269.277	1259.632
22.5	1384.777	1385.182	1381.704	1375.286	1369.906	1361.598	1354.952	1349.345	1344.098	1337.897
25.0	1478.969	1483.020	1484.226	1481.254	1476.402	1469.525	1463.930	1457.478	1450.638	1444.682
27.5	1593.235	1607.025	1615.736	1618.416	1617.680	1614.019	1609.579	1603.160	1595.612	1588.334
30.0	1731.276	1755.286	1775.963	1790.544	1798.543	1801.684	1800.852	1795.157	1785.261	1771.969
32.5	1920.236	1959.512	1991.539	2016.653	2032.412	2041.899	2046.808	2044.216	2034.392	2017.101
35.0	2096.766	2158.008	2211.157	2260.282	2302.388	2335.628	2358.083	2360.089	2343.371	2306.908
37.5	2250.395	2339.641	2422.187	2501.444	2576.378	2640.184	2685.688	2694.418	2668.626	2605.888
40.0	2361.926	2458.960	2543.300	2618.902	2689.993	2752.123	2799.509	2811.595	2791.391	2735.180
42.5	2445.103	2546.011	2636.341	2715.132	2791.885	2860.480	2913.329	2925.086	2900.011	2837.070
45.0	2555.101	2689.422	2808.792	2916.155	3015.805	3105.688	3172.453	3184.584	3143.527	3046.971
47.5	2728.893	2886.565	3020.294	3138.154	3248.151	3352.245	3431.577	3447.339	3391.700	3274.489
50.0	2886.321	3092.748	3283.016	3459.154	3621.121	3765.997	3867.890	3879.562	3791.124	3626.975
52.5	3017.063	3294.833	3553.675	3786.988	3999.626	4178.678	4304.204	4311.291	4203.674	3999.431
55.0	3082.994	3441.386	3778.219	4086.361	4371.323	4586.046	4740.517	4741.751	4610.602	4353.351
57.5	3074.803	3408.530	3626.903	3830.242	4030.363	4218.079	4377.864	4408.941	4322.419	4143.110
60.0	2601.255	2858.516	3104.106	3346.096	3588.977	3819.338	4015.212	4051.698	3929.255	3695.941
62.5	2003.836	2312.227	2564.488	2839.104	3131.624	3413.101	3652.560	3694.611	3518.778	3221.277
65.0	1304.330	1748.361	2015.368	2311.480	2651.771	2994.560	3289.907	3329.605	3085.587	2711.237
67.5	823.085	1037.138	1468.139	1729.015	1998.863	2258.699	2495.583	2537.314	2354.829	2060.574
70.0	435.108	551.365	976.345	1164.171	1347.513	1527.170	1701.259	1733.647	1593.376	1381.545
72.5	247.304	333.861	413.412	676.501	754.342	824.287	906.934	937.925	889.118	794.085
75.0	132.914	171.624	213.700	282.600	242.606	158.631	112.610	171.935	276.642	334.176
77.5	78.545	83.951	89.055	74.207	78.806	84.167	87.485	87.059	82.963	77.675
80.0	47.187	45.234	45.245	51.889	55.778	59.140	62.360	62.278	58.595	54.137
82.5	27.768	26.154	28.033	31.073	35.174	35.649	37.234	37.915	36.656	31.991
85.0	13.816	14.685	16.116	17.041	17.159	15.165	12.109	15.430	17.869	17.526
87.5	5.938	6.385	7.010	8.163	8.276	6.425	6.055	6.849	8.347	8.515
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	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665
2.5	1075.762	1075.360	1074.959	1074.560	1074.164	1073.615	1073.485	1073.278	1073.072	1072.868

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CANDELA TABULATION - (Cont.)

5.0	1077.136	1076.157	1075.708	1075.253	1074.792	1074.326	1073.857	1073.384	1072.909	1072.433
7.5	1084.998	1083.816	1082.600	1081.358	1079.898	1078.930	1078.699	1078.972	1079.189	1079.352
10.0	1097.710	1095.649	1093.447	1091.308	1091.288	1091.120	1090.408	1090.768	1090.933	1092.095
12.5	1116.952	1114.263	1113.003	1112.921	1112.536	1111.842	1112.111	1111.841	1113.323	1114.078
15.0	1147.057	1145.009	1144.758	1144.091	1143.945	1144.838	1145.174	1145.001	1145.068	1145.607
17.5	1192.515	1189.379	1189.534	1189.447	1190.084	1190.025	1189.922	1188.973	1185.432	1184.558
20.0	1255.023	1251.740	1251.374	1252.327	1252.104	1251.440	1249.712	1245.708	1239.992	1234.038
22.5	1336.987	1334.931	1334.833	1333.447	1331.710	1328.281	1321.219	1312.860	1300.850	1289.418
25.0	1440.895	1438.471	1435.493	1431.847	1426.143	1415.426	1401.235	1387.348	1370.582	1346.226
27.5	1580.042	1573.167	1563.707	1551.923	1534.338	1516.819	1496.873	1470.893	1438.814	1401.135
30.0	1755.417	1736.058	1716.279	1699.057	1676.939	1645.867	1606.629	1560.891	1507.411	1460.683
32.5	1994.230	1964.442	1928.531	1887.409	1836.598	1779.542	1718.001	1654.599	1593.378	1534.128
35.0	2255.560	2196.738	2133.154	2066.163	1993.582	1914.036	1826.938	1744.404	1668.004	1611.655
37.5	2518.809	2421.142	2318.069	2217.288	2113.291	2008.099	1906.573	1809.664	1735.071	1669.427
40.0	2654.358	2556.713	2447.157	2327.526	2198.301	2074.001	1958.267	1864.928	1778.762	1709.700
42.5	2749.075	2649.854	2534.605	2409.393	2275.196	2137.539	2011.340	1905.424	1821.281	1739.859
45.0	2924.524	2789.933	2645.730	2496.478	2359.698	2222.045	2087.455	1963.170	1842.742	1744.300
47.5	3127.982	2973.880	2817.961	2656.657	2485.151	2308.248	2144.980	1996.874	1859.066	1739.667
50.0	3416.393	3200.914	2996.341	2816.724	2619.875	2406.019	2191.922	1995.179	1843.200	1716.227
52.5	3742.445	3477.474	3222.110	2966.434	2706.367	2442.970	2186.689	1975.438	1799.246	1663.767
55.0	4034.563	3706.020	3380.707	3050.207	2718.467	2392.903	2123.915	1901.479	1727.542	1586.114
57.5	3939.568	3753.422	3459.234	3042.919	2629.537	2273.200	1980.638	1765.119	1597.218	1422.749
60.0	3446.305	3217.734	2998.554	2773.468	2457.415	2062.594	1739.296	1488.681	1317.682	1196.154
62.5	2918.924	2648.736	2399.281	2150.809	1923.495	1717.657	1333.014	1049.524	909.908	809.119
65.0	2351.236	2049.500	1790.509	1479.956	1317.781	1073.111	741.766	601.862	496.730	481.551
67.5	1738.765	1441.944	1082.461	931.254	763.748	513.475	382.837	249.558	293.797	291.173
70.0	1150.676	842.386	551.183	476.329	340.080	260.631	206.680	194.681	187.689	175.727
72.5	669.087	412.218	307.844	202.111	182.742	164.403	150.925	142.882	142.125	138.862
75.0	252.495	210.420	144.975	134.661	121.928	106.923	107.898	107.479	105.904	103.068
77.5	100.847	89.980	88.421	80.931	76.331	76.286	76.287	74.729	73.649	72.711
80.0	46.392	47.902	49.115	51.041	51.023	49.747	50.204	49.737	48.332	46.195
82.5	29.027	27.310	29.399	30.564	31.013	30.561	29.399	27.277	25.002	24.662
85.0	16.863	15.708	15.159	15.283	15.067	15.545	15.628	15.126	14.510	13.808
87.5	7.653	7.322	7.160	7.373	7.221	6.829	6.253	5.261	4.219	3.647
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	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665
2.5	1072.667	1072.668	1072.272	1072.080	1071.891	1071.706	1071.526	1071.351	1071.180	1071.015
5.0	1071.956	1071.671	1071.855	1072.003	1072.114	1072.188	1072.225	1072.163	1072.360	1072.542
7.5	1079.459	1079.511	1079.506	1079.647	1080.103	1080.300	1081.001	1081.524	1081.977	1082.358
10.0	1093.018	1093.696	1094.125	1094.299	1094.055	1095.043	1095.686	1096.147	1096.426	1096.526
12.5	1114.846	1115.506	1115.832	1115.823	1116.434	1114.897	1113.485	1111.926	1110.224	1109.006
15.0	1145.626	1144.320	1141.751	1138.708	1136.636	1133.292	1128.551	1123.072	1119.848	1116.007
17.5	1181.694	1177.964	1171.194	1163.687	1156.955	1149.349	1139.343	1130.693	1122.377	1113.893
20.0	1225.429	1215.908	1204.363	1190.302	1176.596	1162.459	1146.061	1131.226	1116.450	1103.480
22.5	1274.246	1255.088	1233.866	1214.114	1192.399	1170.598	1152.636	1134.790	1118.359	1103.544
25.0	1320.885	1287.080	1262.317	1236.722	1211.876	1188.337	1168.459	1156.093	1145.287	1133.347
27.5	1362.344	1329.485	1297.853	1266.171	1248.226	1233.283	1217.226	1202.622	1189.361	1177.572
30.0	1418.306	1376.066	1347.191	1328.572	1308.841	1290.877	1275.844	1260.525	1244.817	1226.103
32.5	1485.610	1451.220	1422.622	1396.938	1374.115	1356.156	1333.254	1309.015	1286.319	1264.018
35.0	1565.123	1525.359	1492.641	1465.346	1430.424	1397.658	1370.295	1344.414	1302.252	1261.068
37.5	1621.768	1579.538	1536.106	1493.839	1457.068	1414.946	1366.471	1320.752	1277.634	1234.242
40.0	1654.050	1597.654	1546.553	1496.042	1441.859	1388.921	1338.707	1283.193	1226.878	1173.484

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CANDELA TABULATION - (Cont.)

42.5	1661.747	1595.607	1532.291	1472.145	1413.455	1348.871	1283.935	1221.852	1161.304	1104.633
45.0	1659.086	1578.862	1504.906	1433.832	1362.771	1293.467	1224.009	1153.129	1084.835	1020.557
47.5	1639.355	1551.412	1463.258	1381.073	1305.435	1222.004	1142.901	1069.499	1000.747	932.232
50.0	1603.978	1501.276	1408.747	1312.016	1220.760	1135.073	1053.357	955.713	865.309	784.323
52.5	1547.080	1430.273	1320.119	1220.056	1123.445	1001.690	890.248	790.446	702.665	627.648
55.0	1444.950	1317.916	1207.862	1068.210	936.276	817.811	711.797	630.980	560.911	500.286
57.5	1287.640	1137.956	981.520	851.677	739.945	641.761	557.126	482.691	419.131	365.076
60.0	1009.622	858.121	736.830	639.719	553.253	464.694	388.289	322.972	267.642	249.741
62.5	688.746	604.324	521.953	430.794	347.878	272.777	250.766	243.434	234.801	227.236
65.0	459.684	382.590	297.262	236.247	230.379	226.417	220.059	215.231	209.169	203.774
67.5	245.751	206.225	201.653	197.015	192.722	190.202	187.547	184.920	182.207	178.667
70.0	171.824	168.104	163.408	158.070	153.938	153.063	153.390	153.680	154.401	151.729
72.5	134.760	130.763	126.322	119.966	117.752	120.866	124.162	125.481	126.668	124.142
75.0	98.317	97.245	96.229	93.647	91.300	92.983	96.035	97.676	98.553	96.677
77.5	71.241	70.001	69.021	67.226	65.128	65.619	68.387	70.208	70.753	70.028
80.0	44.250	43.081	42.118	42.035	42.179	43.467	46.931	49.556	50.571	50.404
82.5	24.767	25.958	26.868	27.374	27.132	27.310	29.309	30.857	31.061	30.726
85.0	13.174	13.286	13.197	12.918	12.264	11.693	12.155	12.399	11.763	11.004
87.5	3.163	2.981	2.823	2.687	2.567	2.471	2.772	3.051	2.955	2.870
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	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665	1077.665
2.5	1070.856	1070.703	1070.522	1070.461	1070.428	1070.400	1070.377	1070.360	1070.351	1070.349
5.0	1072.720	1072.893	1073.060	1073.220	1073.370	1073.510	1073.637	1073.747	1074.033	1074.033
7.5	1082.667	1082.903	1083.066	1083.637	1083.714	1084.059	1084.353	1084.589	1084.765	1084.888
10.0	1096.474	1096.689	1096.526	1095.980	1095.375	1094.729	1095.019	1095.266	1095.468	1095.625
12.5	1107.865	1106.012	1103.517	1101.403	1099.696	1097.957	1096.200	1095.313	1095.063	1094.869
15.0	1111.659	1106.250	1101.725	1097.301	1092.603	1089.538	1086.275	1083.098	1081.309	1080.299
17.5	1105.039	1096.765	1088.717	1081.766	1075.839	1070.293	1065.145	1062.045	1058.647	1056.911
20.0	1093.027	1081.647	1074.239	1066.421	1059.465	1053.987	1048.401	1044.829	1042.221	1040.737
22.5	1091.190	1085.056	1077.765	1071.808	1066.317	1061.352	1057.447	1053.605	1050.677	1047.798
25.0	1122.755	1111.768	1103.778	1095.733	1089.446	1083.707	1079.264	1074.981	1071.534	1068.009
27.5	1165.935	1154.807	1143.215	1131.276	1116.932	1109.109	1100.293	1093.889	1087.839	1082.637
30.0	1206.977	1188.433	1170.981	1153.424	1140.377	1127.706	1114.212	1101.403	1091.000	1082.788
32.5	1241.990	1209.606	1177.177	1149.898	1125.823	1106.412	1089.053	1074.098	1064.402	1056.675
35.0	1221.831	1186.651	1154.638	1125.598	1094.670	1068.584	1045.763	1025.446	1012.490	1002.742
37.5	1186.335	1140.181	1098.589	1061.592	1029.107	1001.190	977.320	959.309	945.943	936.949
40.0	1122.358	1074.141	1030.859	991.713	957.495	927.778	904.755	886.021	871.735	862.578
42.5	1048.951	998.499	952.764	910.982	877.698	848.071	825.898	809.732	795.389	787.214
45.0	964.536	913.382	869.882	825.248	783.830	749.608	722.421	704.424	686.864	677.295
47.5	858.248	793.692	739.733	694.244	658.052	627.293	603.289	587.091	571.884	563.050
50.0	713.195	651.682	598.322	558.231	535.381	512.128	494.065	480.622	468.899	460.860
52.5	573.855	525.867	483.268	451.887	427.661	407.332	390.691	378.155	368.051	360.103
55.0	449.456	405.993	370.003	341.572	319.114	300.721	286.343	275.210	266.636	259.433
57.5	319.449	280.619	250.716	242.941	240.199	236.527	235.097	234.167	233.430	232.506
60.0	241.113	232.361	226.221	222.643	220.298	217.197	215.519	214.718	213.758	212.963
62.5	219.326	211.804	205.547	202.326	200.085	197.882	196.015	195.337	194.136	193.307
65.0	196.877	190.486	184.622	181.851	179.797	178.267	176.573	175.800	174.558	173.550
67.5	173.814	168.210	163.547	160.669	158.768	157.418	156.036	155.134	154.393	152.808
70.0	148.278	144.161	140.566	138.229	136.838	135.876	134.848	134.201	134.026	132.080
72.5	121.497	119.150	117.109	115.630	114.775	114.370	113.491	113.306	113.560	111.490
75.0	94.041	93.573	93.250	92.898	92.600	92.892	91.994	92.440	93.013	90.912
77.5	68.242	69.538	70.637	71.049	70.971	71.424	70.457	70.902	70.975	69.305

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CANDELA TABULATION - (Cont.)

80.0	48.878	49.285	49.891	49.999	49.734	49.802	49.006	49.238	48.885	47.582
82.5	29.473	29.230	29.248	28.995	28.544	28.292	27.624	27.559	26.861	25.811
85.0	10.035	9.312	8.676	8.020	7.382	6.820	6.289	5.867	4.215	3.633
87.5	2.796	2.729	2.671	2.621	2.577	2.539	2.507	2.480	2.149	1.832
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	1077.665	1077.665	1077.665
2.5	1070.356	1070.373	1070.400
5.0	1074.033	1074.033	1074.033
7.5	1085.080	1085.195	1085.234
10.0	1095.738	1095.806	1095.829
12.5	1094.729	1094.646	1094.618
15.0	1079.053	1078.876	1078.876
17.5	1055.456	1054.480	1054.175
20.0	1040.225	1039.521	1038.514
22.5	1045.968	1043.708	1042.550
25.0	1066.825	1065.775	1065.758
27.5	1079.685	1078.166	1078.011
30.0	1076.915	1074.087	1072.520
32.5	1050.906	1048.393	1044.518
35.0	995.795	992.074	987.254
37.5	931.454	926.940	922.675
40.0	856.562	852.594	846.997
42.5	781.120	776.578	771.318
45.0	669.594	664.646	656.892
47.5	556.293	550.240	542.465
50.0	454.880	450.680	444.789
52.5	353.976	349.987	347.113
55.0	253.034	248.226	249.437
57.5	230.761	229.777	230.971
60.0	211.810	211.119	212.506
62.5	192.818	192.443	194.041
65.0	173.153	173.598	175.575
67.5	152.381	152.441	154.385
70.0	130.862	131.119	133.195
72.5	109.319	109.810	112.005
75.0	87.285	88.393	90.815
77.5	66.735	67.132	68.414
80.0	45.743	45.767	46.013
82.5	24.763	24.410	23.612
85.0	3.633	3.016	1.211
87.5	1.823	1.514	0.606
90.0	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	428.65	N.A.	8.00
0-30	1028.72	N.A.	19.20
0-40	1983.76	N.A.	37.10
0-60	4453.27	N.A.	83.20
0-80	5334.16	N.A.	99.70
0-90	5352.49	N.A.	100.00
10-90	5248.12	N.A.	98.10
20-40	1555.11	N.A.	29.10
20-50	2749.31	N.A.	51.40
40-70	3189.67	N.A.	59.60
60-80	880.89	N.A.	16.50
70-80	160.73	N.A.	3.00
80-90	18.33	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	5352.49	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	104.37
10-20	324.28
20-30	600.06
30-40	955.05
40-50	1194.2
50-60	1275.31
60-70	720.16
70-80	160.73
80-90	18.33
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-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	145	145	145	145	141	141	141	141	135	135	135	129	129	129	124	124	124	122
1	133	127	122	118	130	125	120	116	120	116	112	115	112	109	110	108	106	103
2	120	111	102	95	117	108	101	94	104	98	92	100	95	90	96	92	88	85
3	109	96	86	78	106	94	85	77	91	82	76	87	80	75	84	78	73	71
4	99	84	73	65	96	82	72	64	79	70	63	76	69	62	74	67	61	59
5	90	74	63	54	88	73	62	54	70	60	53	67	59	53	65	58	52	49
6	83	66	54	46	80	64	54	46	62	53	45	60	52	45	58	50	45	42
7	76	59	47	40	74	58	47	40	56	46	39	54	45	39	52	44	39	36
8	70	53	42	35	68	52	42	34	50	41	34	49	40	34	47	39	34	31
9	65	48	37	30	63	47	37	30	46	37	30	44	36	30	43	35	30	27
10	61	44	34	27	59	43	33	27	42	33	27	41	32	27	39	32	26	24

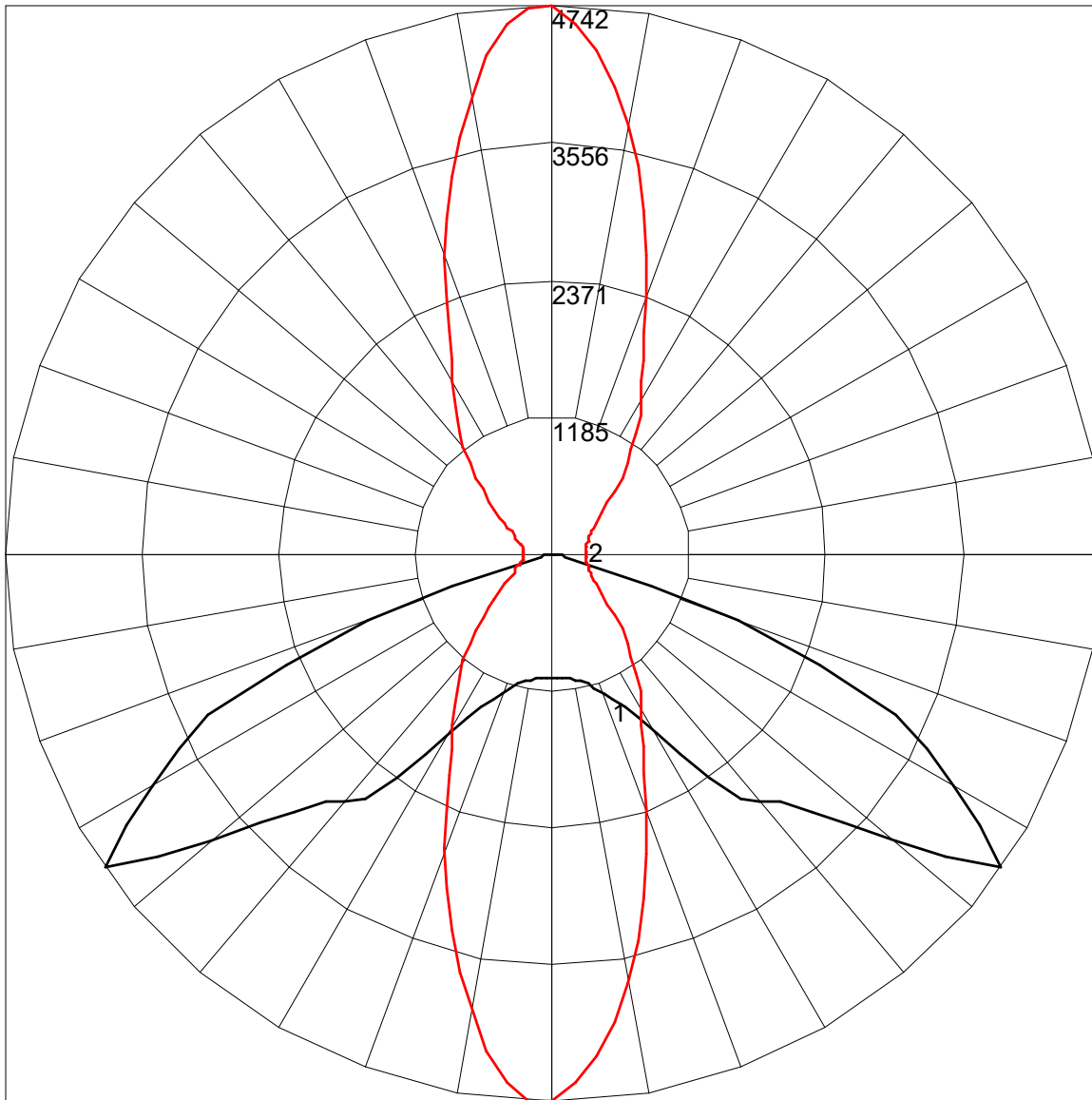
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VF2-L57-750-HS_.IES

UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	18.5	19.8	18.8	20.1	20.4	5.2	5.2	5.2	5.2	5.2
	3H	20.4	21.6	20.8	22.0	22.3	5.2	5.2	5.2	5.2	5.2
	4H	21.1	22.3	21.5	22.6	23.0	5.2	5.2	5.2	5.2	5.2
	6H	21.6	22.6	22.0	23.0	23.4	5.2	5.2	5.2	5.2	5.2
	8H	21.6	22.6	22.1	23.0	23.4	5.2	5.2	5.2	5.2	5.2
	12H	21.6	22.6	22.0	22.9	23.4	5.2	5.2	5.2	5.2	5.2
4H	2H	18.3	19.5	18.7	19.8	20.2	7.6	8.7	8.0	9.1	9.5
	3H	20.4	21.3	20.8	21.7	22.1	7.9	8.9	8.3	9.3	9.7
	4H	21.2	22.0	21.6	22.4	22.9	7.9	8.8	8.4	9.2	9.6
	6H	21.6	22.4	22.1	22.8	23.3	7.9	8.6	8.3	9.0	9.5
	8H	21.7	22.4	22.2	22.8	23.3	7.8	8.5	8.3	9.0	9.4
	12H	21.7	22.3	22.2	22.8	23.2	7.8	8.4	8.3	8.9	9.4
8H	4H	21.0	21.7	21.5	22.2	22.6	9.2	9.8	9.6	10.3	10.8
	6H	21.5	22.1	22.0	22.6	23.0	9.1	9.7	9.6	10.2	10.7
	8H	21.6	22.1	22.1	22.6	23.1	9.1	9.6	9.6	10.1	10.6
	12H	21.6	22.0	22.1	22.5	23.1	9.0	9.5	9.6	10.0	10.6
12H	4H	21.0	21.6	21.5	22.1	22.6	9.4	9.9	9.8	10.4	10.9
	6H	21.4	22.0	22.0	22.4	23.0	9.3	9.8	9.8	10.3	10.8
	8H	21.5	22.0	22.0	22.5	23.1	9.3	9.7	9.8	10.2	10.8

Maximum UGR = 23.4

POLAR GRAPH



Maximum Candela = 4741.751 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.)