



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VF1-L35-750-HF-XX-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM ATAL009595-R3
 [TESTLAB]ATAL-LABS
 [ISSUE]23 NOV, 2022
 [MANUFAC]WILLIAMS OUTDOOR
 [OTHER]H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT]VF1-L35-750-HF-xx-xxx-DIM-UNV
 [LUMINAIRE]VOLTAIRE SMALL ARCHITECTURAL FLOOD LIGHT WITH
 [MORE]HORIZONTAL FLOOD MOLDED REFRACTIVE CLEAR ACRYLIC LENS AND A
 [MORE]CLEAR GLASS LENS.
 [LAMPCAT]X16-LUXEON TX 5000K LEDS
 [LAMP](16) LUXEON TX 5000K LEDS
 [BALLASTCAT]X1-EUC-018S035DSP
 [BALLAST](1) INVENTRONICS ELECTRONIC DRIVER
 [OTHER]INPUT WATTS: 36, VAC: 120.04, TEMP: 24.9 C ,
 [_SEARCH_SOURCE] 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	3418
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	36
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.70
Spacing Criterion (90-270)	3.12
Spacing Criterion (Diagonal)	2.04
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.00 ft
Luminous Width (90-270)	1.00 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	7441	16387	23292
55	2564	11092	37622
65	2520	2649	31861
75	1666	1759	2155
85	0	742	582

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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	582.426	582.426	582.426	582.426	582.426	582.426	582.426	582.426	582.426	582.426
2.5	597.753	597.993	598.199	598.371	598.508	598.610	598.676	598.708	598.703	598.664
5.0	615.438	615.918	616.330	616.674	616.948	616.962	616.567	616.099	615.547	614.912
7.5	637.250	637.754	638.125	638.376	637.955	637.360	636.634	635.779	634.302	633.765
10.0	661.419	661.849	662.096	661.807	661.193	660.406	659.446	658.315	657.015	655.547
12.5	676.746	677.967	678.887	678.615	678.236	677.749	677.020	676.051	675.087	674.149
15.0	686.178	686.140	686.049	685.889	685.664	685.127	684.033	682.884	681.775	682.043
17.5	698.911	698.808	698.498	697.982	697.261	696.334	695.266	694.277	693.749	693.030
20.0	714.474	714.067	713.925	713.671	713.222	712.116	711.258	711.738	711.583	712.391
22.5	726.264	723.932	724.650	725.294	726.524	727.458	728.852	730.136	732.516	735.337
25.0	745.914	745.340	746.108	746.636	747.838	749.342	752.375	755.614	760.402	765.993
27.5	774.098	772.779	774.108	775.366	776.773	780.057	783.946	790.731	795.970	809.899
30.0	794.646	793.325	795.731	799.299	803.481	811.503	821.494	832.934	847.433	862.229
32.5	800.541	800.631	802.238	806.974	813.370	822.081	837.556	855.632	877.528	903.315
35.0	762.944	764.987	768.126	775.608	786.937	802.560	829.002	859.387	893.432	930.940
37.5	714.474	717.944	721.179	727.536	739.880	758.837	784.006	818.675	856.431	897.404
40.0	657.882	658.877	662.146	669.161	683.428	705.382	734.522	770.209	812.161	857.401
42.5	601.290	599.577	602.434	609.543	624.568	647.605	676.690	712.718	754.570	798.562
45.0	489.285	486.712	493.379	505.634	525.025	556.608	592.575	637.352	685.059	733.673
47.5	377.280	373.426	382.200	396.535	419.856	454.041	492.427	542.981	594.449	621.568
50.0	297.108	294.674	301.259	312.807	331.992	359.901	395.250	442.390	490.229	488.116
52.5	216.936	216.179	221.430	230.932	245.425	265.830	293.256	328.985	357.508	366.539
55.0	136.764	137.570	141.350	148.172	156.351	168.528	185.314	208.818	230.808	248.248
57.5	127.332	126.842	128.229	130.662	132.418	134.980	136.699	140.198	146.126	148.875
60.0	117.900	116.816	117.899	119.723	121.685	123.990	125.323	129.124	133.911	136.067
62.5	108.468	106.789	107.496	108.672	111.061	112.776	114.238	118.046	121.129	123.298
65.0	99.036	96.762	97.029	97.520	100.469	101.413	103.150	106.327	108.288	110.326
67.5	84.299	82.639	83.430	83.538	86.137	87.188	89.297	91.848	93.676	95.893
70.0	69.561	68.481	69.767	69.280	71.233	72.189	74.091	75.502	77.028	78.693
72.5	54.824	54.323	56.139	55.083	56.316	57.170	58.698	58.963	60.319	61.276
75.0	40.086	40.163	42.540	40.789	41.387	42.133	43.145	42.265	43.555	43.678
77.5	30.065	30.111	31.924	30.483	31.020	31.762	32.263	30.959	31.625	30.772
80.0	20.043	20.080	21.336	20.382	21.133	22.119	22.525	21.722	22.182	21.687
82.5	10.022	10.050	10.718	10.278	11.275	12.469	12.776	12.472	12.807	12.674
85.0	0.000	0.019	0.081	0.172	1.433	2.814	3.020	3.212	3.476	3.713
87.5	0.000	0.000	0.000	0.000	0.593	1.208	1.221	1.236	1.255	1.276
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	582.426	582.426	582.426	582.426	582.426	582.426	582.426	582.426	582.426	582.426
2.5	598.456	598.004	597.573	597.120	596.648	596.157	595.650	595.126	594.588	594.035
5.0	614.191	613.383	612.488	611.504	610.433	609.300	608.175	606.990	605.747	604.448
7.5	632.686	631.502	630.212	628.821	627.330	625.742	624.059	622.286	620.773	618.412
10.0	653.166	652.122	650.169	648.477	646.643	644.648	642.496	640.189	637.670	635.330
12.5	673.359	672.526	670.881	668.574	666.604	665.249	663.520	661.414	658.825	655.935
15.0	682.145	682.173	683.002	683.723	683.974	683.826	684.854	685.087	683.832	681.564
17.5	692.998	693.694	693.877	695.417	699.152	702.028	704.592	707.981	711.004	712.735
20.0	713.628	714.134	718.519	720.516	725.006	729.708	733.057	736.071	741.723	745.862
22.5	739.091	745.212	749.876	757.336	763.501	769.407	774.367	777.735	782.221	785.412
25.0	774.368	782.015	792.246	801.246	810.467	817.937	822.681	826.697	829.593	831.094
27.5	822.156	835.633	847.377	858.056	866.209	871.463	877.051	879.562	880.045	878.676
30.0	881.484	898.063	912.990	925.136	934.682	940.360	942.270	940.400	935.609	933.151

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CANDELA TABULATION - (Cont.)

32.5	930.894	959.416	985.948	1001.388	1009.758	1014.955	1015.553	1012.523	1005.933	997.546
35.0	959.762	988.822	1018.169	1044.378	1068.519	1087.614	1088.321	1085.433	1081.086	1076.689
37.5	940.357	984.172	1028.507	1071.348	1091.447	1109.320	1125.147	1139.695	1145.635	1143.263
40.0	902.858	946.691	990.179	1031.299	1069.572	1105.920	1131.330	1143.622	1158.374	1179.545
42.5	846.258	893.187	939.976	981.345	1019.715	1050.846	1082.589	1111.554	1143.363	1161.055
45.0	784.588	830.812	871.192	911.890	949.383	988.041	1018.878	1047.416	1077.480	1111.814
47.5	657.384	709.917	772.458	832.011	873.884	903.432	933.203	965.728	1000.685	1035.162
50.0	502.442	558.639	629.209	670.580	723.933	781.157	840.561	870.856	905.584	946.268
52.5	380.475	435.548	476.481	495.332	539.191	595.559	654.294	722.169	796.337	839.294
55.0	273.716	317.382	343.253	368.263	399.835	430.146	461.236	520.016	591.593	672.083
57.5	156.897	187.039	213.447	243.411	276.416	306.021	336.419	366.600	397.606	446.677
60.0	139.686	141.848	142.241	144.011	152.229	184.306	216.598	248.839	279.789	294.223
62.5	126.484	128.021	128.735	129.596	129.164	128.546	127.067	133.439	163.766	186.023
65.0	112.944	114.601	114.677	114.417	112.974	111.612	109.452	107.630	104.110	100.134
67.5	98.469	101.544	100.127	98.525	96.709	94.370	91.742	89.405	86.637	84.044
70.0	80.355	82.007	81.450	80.903	80.021	77.149	73.960	72.275	70.393	69.683
72.5	61.823	62.161	62.044	62.714	63.099	60.753	58.350	56.987	55.507	55.933
75.0	42.941	42.541	42.886	45.212	46.443	45.038	43.745	42.888	42.341	43.057
77.5	28.660	27.129	26.754	29.103	30.297	29.900	29.535	29.236	29.496	30.446
80.0	20.218	19.373	19.431	21.201	21.540	20.640	19.802	18.930	18.645	18.677
82.5	11.971	11.694	11.964	13.130	13.328	12.959	12.626	12.241	12.295	12.458
85.0	3.861	4.069	4.391	4.933	5.248	5.430	5.600	5.725	6.010	6.311
87.5	1.301	1.329	1.361	1.398	1.439	1.486	1.538	1.598	1.666	1.744
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>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	582.426	582.426	582.426	582.426	582.426	582.426	582.426	582.426	582.426	582.426
2.5	593.470	592.893	592.306	591.708	591.101	590.485	589.500	589.197	588.478	587.747
5.0	603.095	601.290	600.540	599.471	598.371	597.242	596.088	594.909	593.709	592.489
7.5	617.322	615.460	613.512	611.481	609.370	607.185	604.928	602.878	601.161	599.505
10.0	632.813	630.063	627.089	623.900	620.154	617.683	614.932	612.912	610.582	607.890
12.5	653.078	649.797	646.101	642.433	639.033	635.197	632.764	629.898	627.444	624.657
15.0	680.751	679.305	676.620	672.660	668.067	662.806	660.314	656.744	652.635	648.481
17.5	714.381	715.362	713.753	711.266	706.819	702.800	697.060	691.073	686.100	680.382
20.0	748.988	751.850	753.648	753.878	750.835	746.083	740.211	732.532	722.460	716.859
22.5	786.930	790.479	792.759	793.453	792.352	790.215	785.246	779.627	770.814	759.442
25.0	831.908	830.578	830.472	831.924	832.174	831.751	831.066	827.578	821.274	812.296
27.5	878.422	876.702	874.410	873.372	873.622	875.441	876.931	877.326	874.515	871.438
30.0	929.109	924.754	921.780	917.613	918.304	925.120	932.956	939.395	945.074	944.578
32.5	988.660	983.058	979.896	980.141	981.901	986.045	995.759	1013.073	1029.382	1043.105
35.0	1068.937	1062.946	1059.088	1055.510	1057.257	1068.405	1083.995	1105.303	1126.360	1145.017
37.5	1146.587	1149.392	1143.004	1141.652	1145.020	1150.205	1167.365	1189.385	1219.002	1250.971
40.0	1192.082	1197.563	1210.142	1213.759	1221.709	1229.727	1238.720	1264.003	1298.323	1337.217
42.5	1184.985	1216.373	1237.322	1266.128	1287.029	1298.899	1314.556	1336.501	1365.545	1396.346
45.0	1148.890	1189.593	1240.740	1287.348	1328.814	1373.525	1402.382	1426.157	1446.712	1465.933
47.5	1083.087	1142.999	1203.220	1275.422	1355.955	1420.218	1478.440	1523.401	1570.001	1617.140
50.0	996.947	1056.320	1140.680	1234.852	1328.264	1435.449	1527.958	1618.223	1697.994	1763.975
52.5	887.834	953.853	1048.182	1149.213	1274.604	1394.733	1536.736	1659.474	1749.864	1815.644
55.0	740.120	789.648	888.262	1037.698	1163.646	1313.266	1460.470	1589.467	1698.242	1801.312
57.5	506.237	570.357	655.669	800.486	998.334	1146.087	1305.173	1459.556	1602.669	1740.443
60.0	301.630	356.074	441.962	518.983	687.828	868.232	1041.861	1286.626	1471.257	1552.664
62.5	203.348	233.482	265.226	345.268	446.666	586.700	745.231	942.620	1162.937	1197.021
65.0	119.582	150.211	182.509	215.938	266.295	382.125	511.533	604.981	726.696	870.707
67.5	83.785	83.345	101.521	136.242	170.784	205.311	292.810	378.239	446.208	518.019

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70.0	69.794	70.073	71.614	74.088	94.491	126.659	156.004	203.465	262.904	294.753
72.5	56.491	56.715	57.568	59.339	61.373	61.865	83.523	111.899	138.496	166.985
75.0	43.672	43.306	42.956	43.874	45.138	45.978	46.334	46.106	72.906	94.244
77.5	30.964	30.783	30.579	30.465	30.757	31.236	32.076	32.258	32.937	41.737
80.0	18.549	18.591	18.603	19.029	19.767	20.240	20.373	20.294	21.558	22.454
82.5	12.020	11.281	10.354	9.909	9.642	10.352	11.098	11.889	12.658	12.990
85.0	6.317	6.190	5.929	5.932	5.929	5.848	5.662	5.705	5.795	6.408
87.5	1.833	1.935	2.053	2.191	2.358	2.597	2.787	2.985	3.171	3.333
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	582.426	582.426	582.426	582.426	582.426	582.426	582.426	582.426	582.426	582.426
2.5	587.006	586.256	585.499	584.736	583.968	583.198	582.426	581.911	581.398	580.886
5.0	591.252	589.500	588.583	587.054	585.516	583.973	582.426	581.909	581.386	580.850
7.5	597.754	595.964	594.138	592.298	590.798	589.275	587.732	586.363	584.963	583.453
10.0	606.045	603.895	601.654	599.325	597.189	595.734	594.216	592.617	590.960	589.419
12.5	621.561	618.658	616.097	613.368	610.478	608.227	606.006	604.308	602.521	600.868
15.0	644.146	639.388	635.738	633.310	630.709	627.907	624.870	623.170	621.620	620.168
17.5	674.732	668.766	664.058	661.222	658.687	655.631	651.751	647.841	645.580	643.687
20.0	709.533	702.725	696.946	692.026	689.912	686.929	681.462	676.843	675.126	672.666
22.5	752.595	743.469	736.393	728.110	724.272	718.906	716.832	714.136	713.088	711.508
25.0	801.793	792.049	782.876	776.171	771.006	766.684	763.992	761.154	759.717	758.896
27.5	864.260	856.023	846.617	840.086	833.901	829.204	825.974	823.070	821.650	821.754
30.0	940.495	935.213	928.969	922.044	914.874	909.875	906.062	902.819	900.319	900.597
32.5	1048.241	1046.713	1040.512	1030.932	1020.266	1012.788	1007.750	1004.073	1001.139	1003.108
35.0	1161.144	1171.493	1175.024	1169.873	1158.569	1144.713	1131.840	1121.849	1116.012	1115.783
37.5	1281.763	1306.165	1321.394	1322.350	1309.165	1286.118	1261.530	1243.373	1234.396	1233.661
40.0	1368.411	1391.481	1403.365	1403.106	1391.417	1371.988	1352.313	1340.860	1336.634	1338.257
42.5	1424.662	1447.412	1462.134	1467.145	1465.573	1455.308	1443.096	1438.769	1438.208	1438.822
45.0	1507.095	1544.304	1570.076	1581.953	1580.128	1561.323	1531.521	1510.816	1501.631	1500.228
47.5	1659.202	1690.243	1708.569	1713.382	1701.022	1670.853	1619.946	1579.395	1559.238	1553.728
50.0	1809.567	1828.527	1841.522	1845.901	1832.290	1801.697	1748.850	1699.995	1669.674	1654.596
52.5	1875.617	1927.728	1962.798	1975.724	1964.881	1932.177	1877.754	1822.580	1783.627	1768.232
55.0	1902.513	2000.047	2070.661	2103.976	2096.970	2063.243	2006.658	1942.928	1895.453	1880.387
57.5	1881.799	1966.700	1968.007	1928.397	1864.532	1795.555	1818.018	1686.296	1682.371	1729.697
60.0	1581.576	1633.015	1648.873	1628.307	1576.664	1513.578	1629.378	1418.590	1421.358	1471.793
62.5	1195.812	1304.499	1322.778	1319.721	1284.157	1229.828	1440.738	1152.168	1159.183	1208.340
65.0	859.591	858.028	996.367	1004.588	986.538	943.840	1252.098	886.982	893.708	936.067
67.5	553.704	498.189	680.607	739.043	749.382	724.005	952.043	675.668	681.442	709.198
70.0	301.971	331.051	343.033	522.555	528.935	506.900	651.987	469.023	484.611	524.632
72.5	194.983	220.411	229.188	322.209	313.987	288.159	351.932	265.794	292.504	345.164
75.0	113.001	126.633	130.938	114.289	111.002	69.737	51.876	65.746	106.836	170.218
77.5	56.145	61.960	54.236	37.645	40.573	41.115	40.086	39.822	38.947	37.645
80.0	22.719	25.529	23.532	26.648	28.778	28.482	28.296	28.338	28.353	28.024
82.5	13.262	13.480	14.551	16.118	17.728	17.359	16.506	18.348	17.834	16.118
85.0	6.912	7.399	8.385	9.108	8.890	6.997	4.716	8.483	8.890	9.108
87.5	3.459	3.528	3.498	4.106	5.061	3.334	2.358	3.334	5.061	4.106
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	582.426	582.426	582.426	582.426	582.426	582.426	582.426	582.426	582.426	582.426
2.5	580.377	579.873	579.373	578.879	578.391	577.710	577.416	576.908	576.405	575.908

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CANDELA TABULATION - (Cont.)

5.0	580.295	579.528	578.465	577.403	576.345	575.291	574.244	573.207	572.180	571.167
7.5	582.240	580.947	579.633	578.300	576.844	575.593	574.408	573.295	572.114	570.863
10.0	587.846	586.170	584.381	582.591	582.017	581.279	580.068	579.467	578.406	577.199
12.5	599.081	597.165	596.128	595.840	595.409	594.833	594.181	592.854	592.109	590.621
15.0	618.398	617.101	616.366	615.357	614.355	613.534	612.433	611.189	610.968	610.667
17.5	641.745	640.084	639.901	639.613	639.532	638.855	639.354	639.778	639.018	637.807
20.0	671.652	670.861	671.229	671.966	672.167	673.307	673.573	672.768	671.232	669.288
22.5	711.440	711.062	712.757	713.702	715.655	716.489	715.099	712.563	710.205	707.878
25.0	759.173	760.962	762.762	765.518	767.043	766.055	762.859	762.168	759.566	754.366
27.5	822.063	824.022	826.163	827.925	827.739	827.139	826.764	823.969	818.693	809.628
30.0	900.339	899.304	901.469	905.200	907.086	908.116	905.629	900.344	889.802	880.376
32.5	1005.122	1006.887	1008.160	1008.279	1008.493	1005.569	997.983	993.988	987.173	976.001
35.0	1118.248	1120.261	1122.212	1123.676	1126.724	1128.300	1124.647	1113.970	1100.245	1084.654
37.5	1237.716	1243.193	1248.867	1253.016	1255.267	1253.472	1246.419	1235.368	1208.596	1188.092
40.0	1341.842	1347.950	1358.296	1372.504	1374.233	1357.309	1336.599	1310.639	1287.254	1259.517
42.5	1434.025	1426.617	1422.866	1427.147	1430.776	1422.654	1400.250	1371.960	1349.776	1324.007
45.0	1498.321	1491.795	1482.793	1475.082	1483.804	1483.814	1471.160	1453.070	1429.961	1406.824
47.5	1556.369	1566.878	1580.680	1591.105	1590.734	1579.773	1571.074	1562.534	1544.601	1515.169
50.0	1653.517	1669.733	1702.589	1727.231	1734.354	1726.745	1712.499	1693.933	1671.735	1640.254
52.5	1770.294	1791.005	1816.534	1839.849	1864.701	1880.448	1866.374	1842.272	1810.493	1755.467
55.0	1887.935	1905.956	1915.454	1925.507	1940.489	1965.088	1995.516	1983.055	1919.557	1862.823
57.5	1823.806	1938.949	1995.377	1991.765	1999.019	2009.239	2020.700	2017.343	1967.227	1777.962
60.0	1564.556	1673.695	1798.172	1942.821	2025.973	2007.188	1954.791	1884.885	1772.469	1625.329
62.5	1295.481	1403.570	1531.339	1674.765	1817.514	1888.565	1766.779	1632.090	1463.714	1264.555
65.0	1019.467	1128.533	1257.075	1390.560	1466.995	1486.590	1474.485	1291.726	1085.498	914.446
67.5	759.691	842.845	958.189	1051.142	1079.138	1068.623	1013.579	931.900	754.172	594.094
70.0	582.314	628.487	646.467	679.138	681.194	668.063	618.608	539.957	419.046	317.694
72.5	405.911	446.296	426.218	345.779	360.697	349.162	292.603	231.930	232.458	204.505
75.0	236.209	263.002	223.958	189.874	132.471	98.966	124.080	129.658	119.075	93.170
77.5	87.756	108.363	101.564	62.669	40.089	46.670	57.651	48.379	41.332	41.275
80.0	23.532	33.087	25.412	26.138	25.765	24.723	25.837	26.286	25.871	24.777
82.5	14.551	13.480	14.238	14.745	15.045	14.743	14.223	13.221	11.941	11.976
85.0	8.385	7.399	7.168	7.249	7.027	7.195	7.241	7.198	7.090	6.934
87.5	3.498	3.528	3.480	3.538	3.447	3.257	2.998	2.691	2.354	2.191
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	582.426	582.426	582.426	582.426	582.426	582.426	582.426	582.426	582.426	582.426
2.5	575.417	574.933	574.456	573.988	573.528	573.079	572.640	572.213	571.798	571.397
5.0	570.168	569.243	568.481	567.731	566.997	566.278	565.577	564.845	564.232	563.590
7.5	569.540	568.146	566.679	565.240	563.912	562.279	561.468	560.519	559.524	558.488
10.0	575.814	574.249	572.502	570.575	568.404	567.455	566.064	564.490	562.738	560.817
12.5	589.112	587.514	585.580	583.311	581.268	579.172	576.890	574.332	571.511	568.437
15.0	609.627	607.564	604.862	601.905	598.792	594.989	590.426	584.784	581.134	576.636
17.5	635.046	631.585	627.423	623.013	618.718	613.428	605.595	597.517	589.432	581.256
20.0	665.959	661.680	655.876	647.861	639.289	629.940	620.296	610.822	601.107	591.732
22.5	703.103	695.722	686.178	676.598	665.264	652.910	642.441	631.129	619.736	608.720
25.0	746.989	733.978	725.031	713.422	700.298	686.481	672.982	659.491	646.833	633.216
27.5	798.034	788.163	776.537	761.905	746.984	731.596	714.333	697.803	678.837	660.979
30.0	870.507	856.650	839.486	825.336	806.880	783.881	761.796	739.043	715.333	691.230
32.5	960.601	943.991	926.516	901.271	872.749	846.319	815.766	784.772	755.255	724.061
35.0	1068.872	1044.568	1015.179	985.931	949.626	911.426	875.772	838.943	799.640	763.905
37.5	1159.161	1131.373	1094.078	1056.067	1020.811	977.534	932.196	888.786	845.680	803.941
40.0	1227.260	1191.433	1151.916	1112.828	1073.005	1028.454	981.658	930.488	877.114	825.368

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CANDELA TABULATION - (Cont.)

42.5	1291.243	1252.035	1217.486	1175.780	1129.116	1075.237	1016.075	957.640	897.593	838.414
45.0	1376.163	1339.429	1295.938	1243.297	1184.887	1123.427	1057.828	958.944	872.042	791.047
47.5	1478.168	1432.530	1371.934	1306.862	1237.468	1123.672	1015.095	914.030	821.513	739.692
50.0	1583.850	1514.224	1449.319	1320.389	1190.243	1073.269	960.488	839.230	729.773	650.143
52.5	1690.673	1569.756	1422.505	1285.153	1141.838	980.070	841.509	714.461	611.401	529.890
55.0	1699.358	1536.461	1385.041	1185.400	1003.833	843.544	706.710	602.832	514.823	439.770
57.5	1619.792	1417.929	1196.952	1005.132	845.824	719.558	610.912	511.856	422.383	350.116
60.0	1373.491	1163.466	978.969	824.684	704.498	592.496	496.647	408.904	325.719	267.593
62.5	1057.707	892.485	749.153	618.079	520.274	441.935	377.892	325.628	269.143	222.702
65.0	766.784	615.326	480.616	389.574	361.447	334.619	287.650	246.139	204.603	169.882
67.5	449.215	362.171	318.771	279.363	248.659	220.649	188.028	156.062	129.480	108.529
70.0	281.901	246.709	207.742	169.970	136.963	107.728	79.776	68.876	70.924	71.459
72.5	167.504	130.904	94.241	57.922	55.383	54.028	52.877	54.196	55.614	55.854
75.0	53.573	50.315	47.505	44.878	42.656	41.229	40.140	40.176	40.596	40.498
77.5	38.475	35.714	33.494	31.503	29.759	28.453	27.432	26.710	26.065	26.076
80.0	22.797	20.777	19.219	18.677	18.645	18.614	18.590	18.602	18.691	18.835
82.5	12.050	12.270	12.417	12.458	12.295	12.133	11.974	11.829	11.739	11.674
85.0	6.760	6.661	6.511	6.311	6.010	5.709	5.408	5.113	4.837	4.568
87.5	2.053	1.935	1.833	1.744	1.666	1.598	1.538	1.486	1.439	1.398
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	582.426	582.426	582.426	582.426	582.426	582.426	582.426	582.426	582.426	582.426
2.5	571.011	570.642	570.247	570.055	569.986	569.954	569.958	569.996	570.067	570.168
5.0	562.971	562.376	561.805	561.261	560.743	560.252	559.791	559.263	558.846	558.846
7.5	557.416	556.313	555.186	553.807	552.979	552.060	551.193	550.373	549.594	548.899
10.0	558.763	557.007	555.020	552.937	550.842	548.762	548.129	547.512	546.911	546.328
12.5	565.128	561.545	557.819	554.636	552.024	549.400	546.771	545.030	543.851	542.644
15.0	571.585	565.571	560.118	554.706	548.788	545.305	541.539	537.866	535.293	533.335
17.5	573.741	566.628	559.451	553.147	547.541	541.934	538.085	535.430	532.657	530.926
20.0	582.975	572.994	566.494	559.042	552.133	546.371	539.982	536.472	532.632	530.239
22.5	597.126	588.252	578.439	569.799	561.821	554.272	547.255	540.788	536.487	532.458
25.0	620.585	607.527	594.858	582.866	572.723	563.021	554.770	547.305	542.012	537.307
27.5	643.486	626.709	609.969	596.561	583.190	573.144	562.710	555.787	549.591	544.619
30.0	668.137	646.873	627.799	609.476	596.424	583.579	572.869	565.176	558.970	554.388
32.5	695.744	670.032	646.275	627.478	610.376	596.037	585.343	576.842	571.057	567.288
35.0	729.285	698.707	671.036	645.659	625.081	608.769	596.500	588.903	584.636	582.180
37.5	760.813	720.880	685.815	658.151	635.722	618.014	605.862	600.834	598.109	597.508
40.0	777.484	732.876	696.217	661.655	630.982	605.958	591.268	581.586	575.516	572.313
42.5	769.393	709.686	658.299	619.254	592.625	571.324	557.891	550.482	545.308	542.872
45.0	722.186	659.849	609.726	570.819	539.791	516.741	500.421	490.897	482.623	476.364
47.5	665.667	597.644	539.673	491.449	459.670	439.447	427.469	420.095	413.061	406.028
50.0	598.766	530.525	466.794	409.963	382.347	367.420	360.152	354.969	349.948	345.357
52.5	499.814	449.619	387.999	344.614	316.023	302.664	296.704	292.163	287.992	285.208
55.0	391.969	352.057	303.804	268.761	246.171	235.427	232.793	229.253	225.757	224.555
57.5	289.036	244.137	207.672	193.221	187.880	184.563	188.367	188.484	187.866	188.113
60.0	221.945	193.521	174.383	162.726	157.593	153.145	155.924	155.371	154.900	154.359
62.5	185.476	159.578	142.434	132.634	127.160	122.935	123.401	122.304	122.037	120.793
65.0	142.099	121.842	109.047	101.730	96.586	92.619	91.322	89.371	89.266	87.394
67.5	92.433	80.172	77.987	75.956	74.169	72.782	72.617	72.103	72.807	72.276
70.0	70.064	66.323	64.503	62.852	61.221	60.097	59.784	58.905	59.065	58.632
72.5	55.267	52.188	50.784	49.687	48.225	47.229	47.205	45.688	45.412	44.981
75.0	40.167	37.799	36.867	36.465	35.186	34.210	34.835	32.455	31.834	31.324
77.5	26.512	25.787	25.820	26.391	25.772	25.239	26.316	24.411	24.108	23.876

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CANDELA TABULATION - (Cont.)

80.0	19.048	18.551	18.373	18.785	18.282	17.849	18.596	17.179	16.934	16.745
82.5	11.655	11.287	11.014	11.158	10.777	10.449	10.780	9.941	9.756	9.613
85.0	4.312	4.000	3.715	3.517	3.261	3.041	2.895	2.700	2.358	2.358
87.5	1.361	1.329	1.301	1.276	1.255	1.236	1.221	1.208	1.197	1.189
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	582.426	582.426	582.426
2.5	570.298	570.455	570.636
5.0	558.846	558.846	558.846
7.5	548.858	548.833	548.825
10.0	545.770	545.227	544.698
12.5	541.270	540.911	540.572
15.0	531.240	530.550	530.550
17.5	529.272	528.079	527.720
20.0	529.147	527.905	526.227
22.5	530.341	528.192	528.192
25.0	534.610	532.089	532.122
27.5	541.137	538.601	538.298
30.0	550.944	549.116	548.825
32.5	564.989	564.982	565.036
35.0	581.203	581.727	581.902
37.5	598.214	598.932	598.932
40.0	570.725	571.399	570.636
42.5	541.265	543.074	542.340
45.0	472.333	471.483	470.421
47.5	401.581	398.502	398.502
50.0	342.089	340.186	340.338
52.5	283.091	281.223	282.174
55.0	224.074	221.652	224.010
57.5	188.816	187.799	189.229
60.0	154.565	153.593	154.449
62.5	120.304	119.385	119.669
65.0	84.888	84.888	84.888
67.5	71.749	71.434	71.330
70.0	58.152	57.866	57.771
72.5	44.553	44.297	44.213
75.0	30.654	30.654	30.654
77.5	23.676	23.026	22.991
80.0	16.567	15.356	15.327
82.5	9.474	7.685	7.664
85.0	2.336	0.000	0.000
87.5	1.181	0.000	0.000
90.0	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	236.22	N.A.	6.90
0-30	580.81	N.A.	17.00
0-40	1179.79	N.A.	34.50
0-60	2850.96	N.A.	83.40
0-80	3409.63	N.A.	99.80
0-90	3417.89	N.A.	100.00
10-90	3361.47	N.A.	98.30
20-40	943.57	N.A.	27.60
20-50	1762.28	N.A.	51.60
40-70	2136.76	N.A.	62.50
60-80	558.67	N.A.	16.30
70-80	93.09	N.A.	2.70
80-90	8.26	N.A.	0.20
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	3417.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	56.42
10-20	179.80
20-30	344.60
30-40	598.97
40-50	818.71
50-60	852.46
60-70	465.59
70-80	93.09
80-90	8.26
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

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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	117	117	117	117	114	114	114	114	109	109	109	104	104	104	100	100	100	98
1	107	103	99	95	105	101	97	94	96	93	91	93	90	88	89	87	85	83
2	97	89	82	77	95	87	81	76	84	79	74	80	76	72	77	74	71	69
3	88	77	69	62	85	76	68	62	73	66	61	70	64	60	67	63	59	56
4	79	67	58	51	77	66	57	51	63	56	50	61	55	50	59	53	49	47
5	72	59	50	43	70	58	49	43	56	48	42	54	47	42	52	46	41	39
6	66	52	43	36	64	51	42	36	49	42	36	48	41	35	46	40	35	33
7	61	46	37	31	59	46	37	31	44	36	31	43	36	30	41	35	30	28
8	56	42	33	27	54	41	33	27	40	32	26	38	31	26	37	31	26	24
9	52	38	29	23	50	37	29	23	36	28	23	35	28	23	34	27	23	21
10	48	34	26	21	47	34	26	21	33	25	20	32	25	20	31	25	20	18

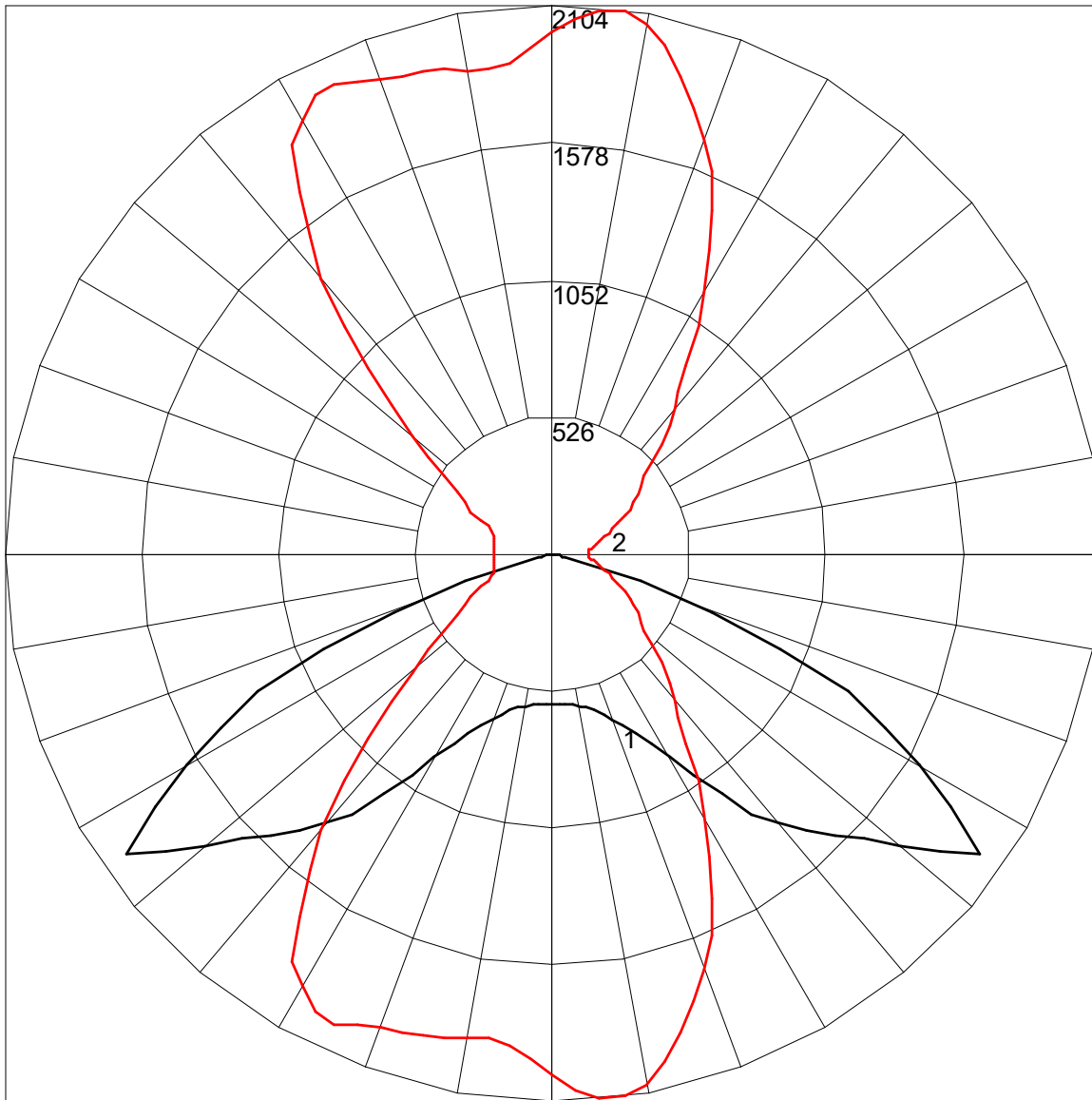
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VF1-L35-750-HF-XX-DIM-UNV_.IES

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	11.4	12.7	11.7	13.0	13.3	4.4	4.4	4.4	4.4	4.4
	3H	12.9	14.1	13.2	14.4	14.8	4.4	4.4	4.4	4.4	4.4
	4H	13.3	14.4	13.7	14.8	15.1	4.4	4.4	4.4	4.4	4.4
	6H	13.5	14.5	13.9	14.9	15.3	4.4	4.4	4.4	4.4	4.4
	8H	13.5	14.5	13.9	14.9	15.3	4.4	4.4	4.4	4.4	4.4
	12H	13.5	14.4	13.9	14.8	15.3	4.4	4.4	4.4	4.4	4.4
4H	2H	11.4	12.5	11.8	12.9	13.3	4.4	4.4	4.4	4.7	5.1
	3H	13.1	14.1	13.6	14.5	14.9	4.4	4.8	4.4	5.2	5.6
	4H	13.7	14.5	14.1	14.9	15.3	4.4	4.7	4.4	5.1	5.6
	6H	14.0	14.7	14.4	15.2	15.6	4.4	4.7	4.4	5.1	5.6
	8H	14.0	14.7	14.5	15.2	15.6	4.4	4.6	4.4	5.1	5.5
	12H	14.0	14.6	14.5	15.1	15.6	4.4	4.6	4.5	5.0	5.5
8H	4H	13.6	14.3	14.1	14.7	15.2	5.3	6.0	5.8	6.4	6.9
	6H	14.0	14.5	14.5	15.0	15.5	5.4	6.0	5.9	6.4	6.9
	8H	14.0	14.6	14.6	15.1	15.6	5.4	5.9	5.9	6.4	6.9
	12H	14.0	14.5	14.5	15.0	15.5	5.5	5.9	6.0	6.4	7.0
12H	4H	13.6	14.2	14.1	14.6	15.1	5.5	6.1	6.0	6.6	7.0
	6H	13.9	14.4	14.4	14.9	15.4	5.6	6.2	6.2	6.6	7.2
	8H	14.0	14.5	14.5	15.0	15.5	5.7	6.2	6.2	6.7	7.2

Maximum UGR = 15.6

POLAR GRAPH



Maximum Candela = 2103.976 Located At Horizontal Angle = 82.5, Vertical Angle = 55
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (55) (Through Max. Cd.)