



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM ATAL009593-R3
 [TESTLAB]ATAL-LABS
 [ISSUE]28 NOV 2022
 [MANUFAC]WILLIAMS OUTDOOR
 [MANUFAC]H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT]VF1-L35-740-HS-xx-xxx-DIM-UNV
 [LUMINAIRE]VOLTAIRE SMALL ARCHITECTURAL FLOOD LIGHT WITH
 [MORE]HORIZONTAL SPOT MOLDED REFRACTIVE CLEAR ACRYLIC LENS AND A
 [MORE]CLEAR GLASS LENS.
 [LAMPCAT]X16-LUXEON TX 4000K LEDS
 [LAMP](16) LUXEON TX 4000K LEDS
 [BALLASTCAT]X1-EUC-018S035DSP
 [BALLAST](1) INVENTRONICS ELECTRONIC DRIVER
 [OTHER]INPUT WATTS: 36, VAC: 120.01, TEMP: 25.5 C
 [SEARCH_SOURCE] LED
 [SEARCH_APPLICATION] Outdoor, Architectural, Facade, Landscape, Parking, Site, Flood, Wet Location
 [SEARCH_MOUNTING] Arm, Ground, Pole, Post Top, Wall

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	3486
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	36
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.40
Spacing Criterion (90-270)	3.30
Spacing Criterion (Diagonal)	1.76
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	6080	13665	32712
55	2759	9858	55042
65	2871	3006	58789
75	2038	2006	2955
85	0	771	908

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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	757.853	757.853	757.853	757.853	757.853	757.853	757.853	757.853	757.853	757.853
2.5	759.693	759.690	759.681	759.667	759.646	759.620	759.588	759.551	759.508	759.460
5.0	762.759	762.753	762.736	762.707	762.666	762.614	762.879	763.021	763.129	763.200
7.5	767.664	767.664	767.664	767.664	767.735	767.787	767.806	767.784	767.664	767.579
10.0	765.212	765.234	765.303	765.783	766.469	767.196	767.963	768.769	769.612	770.491
12.5	755.401	755.457	755.627	756.138	756.788	757.623	758.806	760.354	762.030	763.832
15.0	745.590	745.640	745.791	746.041	746.391	747.100	748.421	749.832	751.234	753.753
17.5	738.233	738.233	738.341	738.453	738.477	739.238	740.254	742.116	744.726	747.422
20.0	740.686	740.600	741.334	742.041	742.439	742.212	743.011	745.952	748.330	751.023
22.5	752.948	752.853	754.776	756.534	757.082	757.243	759.499	762.171	764.987	767.728
25.0	765.211	765.109	766.428	767.809	770.328	772.841	776.585	780.591	785.428	790.019
27.5	763.459	763.802	766.124	768.983	772.777	778.425	784.885	792.929	800.809	811.722
30.0	749.883	750.592	753.709	757.859	762.827	772.490	783.111	792.800	803.000	813.754
32.5	723.824	724.192	725.473	729.536	735.452	743.887	753.321	764.807	780.465	797.068
35.0	684.820	685.254	686.553	690.648	697.263	706.165	716.209	730.696	748.256	766.843
37.5	642.581	643.026	644.363	646.795	652.927	661.253	670.607	685.937	702.551	722.668
40.0	578.814	582.661	586.002	587.414	593.870	602.498	614.393	630.801	649.784	675.379
42.5	515.046	522.297	526.516	525.963	531.031	537.866	549.257	565.454	588.066	621.509
45.0	399.774	406.141	411.592	416.192	425.911	437.253	453.850	476.069	512.626	556.611
47.5	284.502	289.260	294.495	301.326	311.802	323.182	338.025	355.775	383.234	415.354
50.0	238.720	240.799	243.248	246.486	251.292	256.113	261.518	266.026	270.506	279.617
52.5	192.938	193.026	194.974	197.952	202.083	206.819	211.618	216.180	222.161	232.113
55.0	147.156	145.194	146.685	149.215	152.810	157.425	161.600	166.947	173.126	181.990
57.5	138.572	136.811	137.048	137.076	137.488	138.268	137.260	137.933	137.117	136.591
60.0	129.988	128.837	129.063	128.568	128.844	129.591	128.119	129.167	127.784	127.195
62.5	121.404	120.862	121.076	119.960	120.190	120.897	119.319	119.792	118.498	117.958
65.0	112.820	112.887	113.087	111.264	111.526	111.805	110.555	110.540	109.204	108.593
67.5	96.878	97.001	97.371	96.178	96.413	96.894	96.505	96.811	96.507	96.721
70.0	80.936	81.048	81.384	80.683	80.291	80.425	80.156	79.963	79.999	79.825
72.5	64.994	65.094	65.394	65.113	64.155	63.960	63.773	63.108	63.612	62.744
75.0	49.052	49.139	49.401	49.515	48.007	47.504	47.361	46.253	47.325	45.513
77.5	36.789	36.846	37.016	37.002	36.035	35.713	35.501	34.184	34.924	32.396
80.0	24.526	24.572	24.710	24.700	24.507	24.736	24.740	23.937	24.367	22.728
82.5	12.263	12.298	12.402	12.440	13.010	13.827	13.966	13.674	13.972	13.235
85.0	0.000	0.023	0.093	0.208	1.528	2.965	3.184	3.400	3.683	3.865
87.5	0.000	0.000	0.000	0.000	0.617	1.256	1.270	1.286	1.305	1.327
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	757.853	757.853	757.853	757.853	757.853	757.853	757.853	757.853	757.853	757.853
2.5	759.406	759.347	759.282	759.213	759.139	759.060	758.976	758.888	758.795	758.699
5.0	763.231	763.220	763.164	763.062	762.911	762.686	762.352	762.000	761.630	761.244
7.5	767.783	768.175	768.425	768.523	768.460	768.231	767.829	767.212	767.413	767.133
10.0	771.598	772.050	772.542	773.436	774.325	775.189	776.024	776.829	777.474	778.275
12.5	766.061	768.702	770.962	772.784	774.948	777.885	780.800	783.688	786.221	787.812
15.0	756.149	758.612	762.442	766.810	771.650	776.240	782.239	787.868	792.520	796.455
17.5	750.569	754.259	758.005	762.665	768.562	774.486	780.606	787.687	794.418	801.669
20.0	753.685	755.575	759.596	762.693	769.289	776.674	783.550	791.256	801.054	810.819
22.5	770.245	772.811	774.481	779.282	784.756	790.788	796.691	801.901	813.924	825.753
25.0	794.756	799.338	804.444	808.819	813.729	818.010	822.579	829.648	838.170	846.492
27.5	819.868	826.766	833.816	841.307	848.039	854.508	860.402	867.118	872.975	879.584
30.0	825.582	838.727	854.474	869.503	882.199	890.675	899.358	908.102	917.270	924.935

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CANDELA TABULATION - (Cont.)

32.5	815.236	839.788	863.357	879.359	895.463	912.275	930.406	946.258	956.544	968.680
35.0	788.600	812.639	837.145	863.491	891.125	920.635	938.698	959.084	982.072	1004.873
37.5	748.234	774.578	803.098	833.596	862.057	891.731	923.152	956.486	985.704	1011.454
40.0	701.313	728.023	757.132	788.401	821.823	857.946	895.209	930.112	966.934	1005.186
42.5	646.068	671.335	701.619	738.182	773.846	812.052	852.449	895.583	939.916	979.892
45.0	584.376	602.173	632.386	668.489	709.862	755.428	806.745	851.619	898.509	947.242
47.5	450.166	488.112	536.302	592.199	636.031	684.393	737.321	793.443	853.139	905.307
50.0	308.582	347.461	391.451	450.535	513.196	584.363	664.050	721.039	781.837	847.578
52.5	247.284	261.305	282.610	314.155	361.488	425.550	507.802	599.298	698.752	769.607
55.0	193.854	207.128	228.684	253.378	275.520	303.986	344.139	428.249	525.806	633.716
57.5	139.549	152.257	169.375	190.503	213.176	241.565	275.882	314.729	361.345	434.402
60.0	128.354	130.208	132.788	139.331	149.058	172.528	200.545	233.751	273.323	304.897
62.5	118.684	120.452	123.250	127.933	131.130	134.662	136.143	143.624	174.485	206.377
65.0	108.748	110.605	112.343	114.758	115.420	116.837	117.364	118.330	118.143	117.753
67.5	97.747	100.673	100.198	99.673	98.583	98.297	98.379	98.905	99.287	99.566
70.0	80.434	82.482	82.813	82.374	81.059	79.869	79.211	80.245	81.283	82.274
72.5	62.856	63.947	64.348	64.481	64.254	63.367	62.723	63.365	64.296	65.549
75.0	45.054	45.495	45.966	47.167	47.761	47.151	46.919	47.407	48.273	49.666
77.5	31.145	30.432	29.997	31.082	31.494	31.181	31.153	31.476	32.451	33.998
80.0	22.058	21.681	21.608	22.492	22.405	21.468	20.596	19.689	19.393	19.426
82.5	13.058	13.007	13.177	13.849	13.863	13.479	13.132	12.732	12.789	12.958
85.0	4.117	4.388	4.715	5.168	5.459	5.648	5.825	5.955	6.252	6.564
87.5	1.353	1.383	1.416	1.454	1.497	1.545	1.600	1.663	1.733	1.814
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

	50.0	52.5	55.0	57.5	60.0	62.5	65.0	67.5	70.0	72.5
0.0	757.853	757.853	757.853	757.853	757.853	757.853	757.853	757.853	757.853	757.853
2.5	758.598	758.494	758.386	758.275	758.160	758.043	757.853	757.817	757.738	757.666
5.0	760.842	760.306	760.235	760.158	760.102	760.068	760.052	760.053	760.068	760.094
7.5	767.455	767.417	767.250	766.957	766.541	766.007	765.361	764.893	764.694	764.868
10.0	778.536	778.711	778.803	778.809	778.636	778.143	777.211	776.871	776.148	775.182
12.5	789.528	791.115	792.568	793.438	793.489	792.845	793.018	792.462	791.802	790.970
15.0	800.858	805.147	808.351	810.392	812.235	814.146	814.213	813.942	813.560	812.903
17.5	810.065	818.472	824.523	829.986	833.783	838.257	840.715	842.310	842.474	841.961
20.0	820.893	832.314	843.709	855.248	862.852	870.567	876.527	879.218	880.930	881.792
22.5	836.782	850.695	864.048	877.640	891.072	904.874	915.182	924.728	928.868	931.698
25.0	856.379	868.968	887.478	905.354	923.161	940.834	957.875	971.880	983.467	989.866
27.5	890.462	901.007	914.581	935.529	958.309	982.280	1004.814	1024.801	1041.188	1057.335
30.0	931.665	942.141	957.403	973.293	997.551	1028.077	1060.565	1090.639	1117.876	1138.697
32.5	981.438	991.798	1005.684	1026.693	1052.631	1083.036	1119.354	1161.411	1203.163	1242.087
35.0	1019.628	1038.035	1057.870	1078.949	1106.589	1143.642	1187.249	1238.552	1291.286	1341.433
37.5	1038.817	1064.797	1091.010	1121.463	1153.853	1192.224	1243.127	1302.069	1368.261	1433.981
40.0	1038.849	1070.825	1107.286	1142.522	1185.947	1233.400	1284.945	1352.129	1429.107	1509.261
42.5	1020.610	1061.884	1104.033	1154.370	1206.784	1261.335	1322.716	1396.104	1481.408	1569.588
45.0	996.082	1042.736	1092.407	1146.120	1209.953	1285.876	1365.184	1447.944	1535.199	1625.016
47.5	960.137	1017.425	1072.521	1132.325	1203.303	1290.553	1385.464	1492.643	1610.137	1728.355
50.0	919.182	978.603	1042.667	1109.796	1183.653	1270.510	1393.684	1535.109	1681.698	1823.263
52.5	842.230	917.063	1003.332	1073.379	1144.806	1235.636	1357.807	1529.836	1695.054	1850.983
55.0	723.700	784.980	887.170	1005.868	1069.846	1160.892	1285.200	1431.776	1624.661	1822.583
57.5	517.230	601.205	678.569	787.179	933.611	1020.531	1144.157	1308.567	1501.708	1739.539
60.0	338.797	401.331	473.292	538.399	654.420	756.675	874.685	1122.045	1350.840	1533.867
62.5	239.824	269.417	297.190	358.804	431.276	518.374	583.459	727.887	1051.381	1193.191
65.0	141.622	174.202	203.206	221.708	247.722	329.458	417.357	470.624	624.894	885.633
67.5	100.242	100.840	116.727	141.050	155.688	159.839	241.437	333.190	396.338	533.943

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CANDELA TABULATION - (Cont.)

70.0	83.277	84.025	84.548	85.256	95.593	111.990	130.487	176.081	255.295	326.212
72.5	66.945	67.580	68.105	68.778	69.326	69.326	82.266	102.044	126.358	187.383
75.0	51.038	51.486	52.041	52.710	52.932	52.977	52.957	52.861	73.779	90.300
77.5	35.171	35.704	36.318	37.020	37.430	37.397	37.467	37.392	38.280	45.384
80.0	19.543	20.185	20.886	22.138	23.533	24.284	24.216	23.442	24.763	25.921
82.5	12.503	11.734	10.769	10.680	11.024	12.610	13.918	14.488	14.712	14.490
85.0	6.571	6.439	6.168	6.396	6.726	7.077	7.455	7.484	7.309	7.445
87.5	1.906	2.013	2.136	2.279	2.453	2.774	3.116	3.388	3.585	3.680
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	757.853	757.853	757.853	757.853	757.853	757.853	757.853	757.853	757.853	757.853
2.5	757.600	757.539	757.480	757.422	757.365	757.304	757.240	757.572	757.899	758.223
5.0	760.128	760.160	759.907	759.424	758.914	758.388	757.853	758.389	758.925	759.458
7.5	764.820	764.716	764.556	764.353	764.295	764.166	763.985	764.774	765.527	766.279
10.0	775.156	774.921	774.546	774.046	773.501	773.067	772.569	773.067	773.501	774.649
12.5	789.969	789.111	788.443	787.618	786.637	785.784	784.832	785.784	786.768	788.424
15.0	811.760	810.184	808.986	808.238	807.232	806.774	806.905	808.404	810.028	811.760
17.5	840.788	838.318	838.084	838.627	839.206	838.963	837.318	838.963	840.614	841.955
20.0	881.527	880.505	880.050	879.927	881.864	882.718	880.892	882.940	883.727	883.919
22.5	934.050	935.251	934.704	932.580	933.865	933.979	931.988	934.065	935.214	935.788
25.0	995.376	999.333	1001.717	1001.957	1003.394	1005.283	1003.522	1005.653	1006.323	1007.308
27.5	1069.149	1078.599	1085.439	1089.719	1092.726	1095.096	1094.911	1095.418	1094.532	1094.897
30.0	1155.738	1171.852	1186.400	1198.144	1206.550	1211.199	1212.811	1211.331	1207.054	1203.402
32.5	1272.987	1299.024	1321.362	1339.852	1352.691	1360.414	1363.033	1361.043	1355.407	1348.257
35.0	1387.130	1427.760	1466.144	1501.667	1530.432	1550.408	1557.673	1551.460	1537.205	1516.352
37.5	1496.065	1553.787	1610.922	1666.180	1714.591	1749.940	1763.419	1751.977	1726.756	1688.585
40.0	1581.721	1648.657	1712.886	1774.359	1826.752	1861.105	1872.560	1856.343	1827.306	1786.402
42.5	1649.433	1723.218	1798.656	1870.634	1933.450	1971.554	1981.701	1958.050	1919.488	1869.955
45.0	1729.337	1823.337	1914.140	2001.794	2080.990	2132.367	2150.931	2126.651	2078.243	2010.894
47.5	1844.324	1950.807	2047.649	2140.106	2227.668	2292.678	2320.160	2296.671	2240.295	2160.814
50.0	1949.703	2070.067	2186.468	2301.115	2409.287	2492.562	2525.361	2500.345	2429.709	2329.069
52.5	2006.267	2162.483	2314.243	2459.108	2591.101	2690.555	2730.561	2703.249	2619.205	2493.672
55.0	2021.657	2222.654	2419.212	2603.003	2771.417	2886.836	2935.762	2904.898	2804.048	2643.150
57.5	1990.827	2172.532	2281.603	2373.606	2461.157	2642.994	2779.409	2744.750	2587.275	2399.328
60.0	1678.500	1803.343	1910.019	2002.951	2089.338	2299.902	2623.056	2569.980	2167.746	2007.319
62.5	1323.315	1451.201	1546.853	1636.325	1719.724	1849.580	2466.702	2391.427	1700.073	1620.135
65.0	997.118	1103.508	1196.284	1275.525	1353.501	1410.325	2310.349	2205.492	1313.309	1244.101
67.5	704.202	791.051	872.222	950.444	1020.267	1073.276	1750.543	1675.755	985.726	922.391
70.0	435.621	537.955	609.057	664.107	705.738	741.624	1190.737	1138.804	682.748	648.995
72.5	247.639	324.575	379.493	403.758	410.709	412.800	630.931	522.864	398.586	396.737
75.0	125.634	160.919	194.801	184.621	142.800	94.039	71.125	93.147	140.393	183.461
77.5	56.273	68.768	67.288	47.761	51.587	54.714	55.183	54.714	51.587	47.761
80.0	26.630	28.327	26.710	32.407	36.924	38.582	39.242	38.582	36.924	33.837
82.5	14.699	15.498	16.968	18.136	22.747	23.357	23.300	23.357	22.857	19.482
85.0	7.384	7.696	8.984	10.342	9.753	10.163	7.358	10.163	11.033	9.474
87.5	3.620	3.669	3.638	4.271	5.287	3.468	3.679	4.344	5.263	4.271
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	757.853	757.853	757.853	757.853	757.853	757.853	757.853	757.853	757.853	757.853
2.5	758.545	758.867	759.188	759.511	759.836	760.306	760.446	760.686	760.921	761.149

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CANDELA TABULATION - (Cont.)

5.0	759.988	760.612	761.368	762.099	762.800	763.467	764.096	764.682	765.223	765.715
7.5	766.989	767.674	768.283	768.806	769.081	769.736	770.745	771.930	773.010	773.978
10.0	776.004	777.276	778.463	779.618	781.235	782.670	783.664	785.078	786.182	787.178
12.5	789.920	791.254	793.119	795.419	797.531	799.450	801.173	802.275	804.098	805.193
15.0	813.193	815.106	817.520	819.607	821.363	822.785	823.869	824.551	824.405	824.783
17.5	843.318	845.441	849.661	851.958	853.397	854.362	854.425	853.667	851.052	849.417
20.0	886.271	889.099	892.234	894.376	895.414	894.507	893.201	889.235	883.391	877.359
22.5	938.981	941.621	945.025	946.905	944.887	941.910	935.467	928.510	917.174	905.303
25.0	1009.275	1010.454	1010.891	1007.334	1002.158	992.358	980.312	966.126	950.982	933.656
27.5	1094.773	1092.757	1087.510	1079.133	1064.770	1049.478	1030.882	1009.612	985.983	964.387
30.0	1196.952	1187.421	1175.988	1163.585	1146.148	1119.774	1090.444	1057.934	1029.847	1008.051
32.5	1337.728	1321.723	1300.057	1272.240	1234.467	1194.155	1153.076	1118.589	1091.154	1069.483
35.0	1489.831	1457.044	1418.823	1373.456	1323.744	1272.882	1223.406	1183.674	1151.943	1126.431
37.5	1640.820	1587.522	1531.045	1467.082	1401.508	1337.867	1282.865	1236.477	1200.801	1169.963
40.0	1736.978	1681.377	1616.218	1542.197	1463.566	1391.879	1330.154	1280.715	1234.225	1185.729
42.5	1815.668	1754.598	1682.305	1604.268	1522.279	1442.640	1370.805	1309.570	1251.076	1194.810
45.0	1937.303	1855.167	1763.856	1667.742	1582.408	1497.335	1414.879	1332.353	1252.901	1185.824
47.5	2077.893	1986.769	1885.630	1774.364	1658.652	1543.549	1434.629	1336.817	1246.170	1170.736
50.0	2221.310	2108.925	1995.344	1868.139	1729.463	1579.941	1438.522	1316.630	1227.361	1148.844
52.5	2351.053	2196.945	2041.636	1888.063	1733.000	1567.468	1397.624	1277.731	1185.158	1111.281
55.0	2451.611	2248.789	2045.136	1845.207	1648.769	1461.854	1321.270	1200.638	1107.427	1038.881
57.5	2298.278	2186.831	1997.390	1748.786	1518.472	1329.708	1171.460	1054.711	965.294	803.516
60.0	1910.809	1804.943	1678.427	1538.469	1357.547	1133.026	897.013	779.300	665.694	540.285
62.5	1536.953	1439.728	1323.197	1196.998	1053.024	738.745	597.802	525.136	437.842	372.364
65.0	1180.020	1097.446	996.880	888.005	635.407	481.035	422.771	340.348	265.646	238.801
67.5	856.645	787.190	707.043	543.706	405.224	336.729	252.520	178.469	170.631	152.707
70.0	603.568	538.585	444.337	333.879	257.148	182.907	140.911	122.650	104.672	92.036
72.5	378.137	329.533	254.193	186.932	126.862	105.785	87.278	74.330	74.332	72.973
75.0	195.617	166.165	125.853	88.515	72.765	54.201	55.468	55.729	55.158	53.942
77.5	70.545	69.692	55.115	44.372	38.402	38.745	39.312	38.781	38.025	37.097
80.0	28.151	27.211	25.084	25.845	25.988	25.715	25.753	25.134	23.915	22.228
82.5	15.664	14.020	14.643	15.337	15.648	15.334	14.424	12.757	11.024	10.680
85.0	8.721	7.696	7.455	7.540	7.309	7.484	7.455	7.077	6.726	6.396
87.5	3.638	3.669	3.620	3.680	3.585	3.388	3.116	2.774	2.448	2.279
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>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	757.853	757.853	757.853	757.853	757.853	757.853	757.853	757.853	757.853	757.853
2.5	761.372	761.587	761.796	761.997	762.190	762.375	762.552	762.719	762.877	763.026
5.0	766.155	766.574	767.032	767.458	767.852	768.213	768.540	768.781	769.255	769.700
7.5	774.829	775.558	776.160	776.709	777.309	777.690	778.515	779.202	779.822	780.374
10.0	788.062	788.833	789.490	790.032	790.131	790.524	790.584	790.445	790.113	789.593
12.5	805.436	805.061	804.514	803.798	803.730	802.520	801.154	799.538	797.682	795.911
15.0	824.676	823.287	820.868	818.262	816.047	812.609	807.500	801.994	798.260	794.533
17.5	846.294	842.503	835.622	828.589	822.095	815.087	807.711	801.176	794.571	787.670
20.0	868.265	858.440	847.872	838.085	828.382	818.177	810.422	802.987	794.612	787.524
22.5	892.271	878.335	863.315	852.731	840.903	828.815	824.856	820.104	814.761	809.297
25.0	916.125	898.399	885.211	876.034	869.204	862.036	855.655	851.204	847.911	843.922
27.5	945.405	933.782	925.304	916.339	910.012	904.480	898.469	893.459	884.694	877.112
30.0	995.277	982.371	972.315	965.996	958.147	947.210	937.155	926.964	916.819	903.191
32.5	1051.115	1038.280	1028.158	1012.086	996.282	983.657	966.115	946.054	927.299	909.843
35.0	1106.275	1084.954	1062.788	1044.295	1018.260	992.323	969.793	949.032	919.529	891.005
37.5	1135.165	1103.545	1074.517	1045.433	1018.671	987.071	952.134	919.377	888.227	856.461
40.0	1145.504	1105.625	1068.725	1033.093	996.088	960.094	923.908	886.366	850.315	816.288

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CANDELA TABULATION - (Cont.)

42.5	1142.162	1097.066	1051.908	1008.275	966.030	925.259	884.042	844.443	807.222	769.214
45.0	1129.201	1076.921	1028.029	977.864	929.491	884.237	839.895	778.402	726.064	682.238
47.5	1106.117	1049.106	991.676	937.203	885.054	819.837	755.390	684.971	620.751	582.383
50.0	1076.356	1008.899	948.266	871.586	797.263	731.498	671.075	587.421	510.896	460.134
52.5	1035.598	943.546	864.345	783.581	703.574	609.126	528.444	455.978	390.560	344.123
55.0	907.701	798.290	731.218	660.707	555.733	457.141	376.927	339.299	306.295	276.829
57.5	681.890	611.206	545.835	483.345	414.059	351.066	300.795	265.628	235.107	207.115
60.0	485.514	426.792	376.138	344.588	312.466	261.534	219.495	187.304	160.044	148.642
62.5	318.943	292.563	263.251	229.458	194.328	157.222	147.620	145.068	139.775	135.180
65.0	217.285	188.045	154.898	129.637	128.840	127.956	126.026	124.632	121.957	120.143
67.5	125.451	108.151	108.393	108.131	106.999	105.603	104.168	103.270	102.713	103.032
70.0	90.389	89.264	88.594	87.537	85.929	83.947	82.069	82.321	83.512	84.827
72.5	71.635	70.785	70.014	67.916	66.748	65.817	65.175	65.819	66.706	66.934
75.0	52.776	52.911	52.853	51.638	50.605	49.860	49.371	49.603	50.214	49.619
77.5	36.698	36.398	36.039	35.265	34.472	33.928	33.605	33.633	33.946	33.468
80.0	20.969	20.322	19.610	19.871	20.878	21.762	22.549	23.315	24.157	24.161
82.5	10.769	11.734	12.503	13.115	13.602	13.989	14.298	14.564	14.876	14.799
85.0	6.168	6.439	6.571	6.592	6.525	6.389	6.197	5.965	5.728	5.394
87.5	2.136	2.013	1.906	1.814	1.733	1.663	1.600	1.545	1.497	1.454
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	757.853	757.853	757.853	757.853	757.853	757.853	757.853	757.853	757.853	757.853
2.5	763.164	763.293	763.411	763.519	763.615	763.701	763.776	763.840	763.892	763.932
5.0	770.115	770.499	770.853	771.175	771.465	771.722	771.945	772.135	772.569	772.569
7.5	780.858	781.273	781.618	782.379	782.508	782.763	782.985	783.174	783.329	783.450
10.0	788.934	788.974	788.767	788.278	787.781	787.285	787.285	787.285	787.285	787.285
12.5	794.199	792.081	789.711	787.933	786.573	785.151	783.687	782.824	782.444	782.148
15.0	790.945	787.136	783.987	780.966	777.887	775.770	773.799	772.087	770.721	769.493
17.5	782.531	778.785	775.095	771.948	769.252	766.642	763.896	762.423	761.041	761.231
20.0	784.814	780.976	779.444	777.105	774.962	773.734	772.187	771.208	770.310	769.703
22.5	804.295	802.336	799.361	797.404	795.925	794.674	793.747	792.289	790.346	788.451
25.0	839.418	834.224	828.220	822.280	818.158	814.558	811.804	809.326	807.278	805.301
27.5	869.160	861.486	854.230	844.845	832.296	824.784	816.934	811.921	807.525	804.172
30.0	887.513	871.732	857.837	844.481	832.949	821.952	810.373	800.451	792.805	787.329
32.5	892.948	869.422	845.739	825.231	806.628	791.231	777.518	765.789	757.626	751.373
35.0	863.839	838.582	815.054	793.168	770.910	753.465	738.431	724.629	715.152	707.660
37.5	827.814	798.876	771.883	747.796	725.597	706.428	691.268	678.091	668.104	660.742
40.0	783.947	752.974	724.405	697.003	673.185	647.054	628.245	612.499	599.868	590.492
42.5	726.642	690.302	657.923	622.196	607.589	578.831	554.186	539.099	527.251	517.355
45.0	643.131	610.754	586.676	547.851	520.792	495.355	463.306	446.727	434.151	423.363
47.5	541.591	501.656	468.176	435.371	404.084	383.135	360.144	346.494	336.070	326.562
50.0	418.277	378.155	342.803	320.235	306.847	293.686	285.057	278.760	273.539	268.297
52.5	317.127	294.098	274.272	260.705	248.432	237.501	229.078	223.248	218.588	214.031
55.0	251.696	230.619	213.122	199.901	189.233	179.900	172.934	167.362	163.567	159.556
57.5	183.096	164.829	149.748	146.072	145.818	144.744	145.417	144.728	145.238	144.464
60.0	141.328	138.421	136.324	134.756	134.304	133.721	134.831	133.845	134.124	133.384
62.5	129.378	126.253	124.722	123.648	122.798	122.670	123.882	123.154	122.997	122.296
65.0	116.259	113.736	112.838	112.356	111.464	111.422	112.880	112.579	111.857	111.202
67.5	102.080	100.760	99.714	98.839	97.563	96.648	97.240	96.564	95.340	94.398
70.0	84.582	82.633	81.615	81.012	80.401	79.667	79.728	79.092	77.978	77.121
72.5	66.436	64.387	63.447	63.136	63.032	62.833	62.343	61.596	60.601	59.835
75.0	48.333	46.187	45.223	45.220	45.489	46.122	45.064	44.078	43.210	42.542
77.5	32.292	31.252	31.145	32.007	32.895	34.184	33.557	33.036	32.616	32.294

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CANDELA TABULATION - (Cont.)

80.0	23.204	22.358	22.058	22.557	23.072	23.815	23.428	23.006	22.666	22.405
82.5	14.071	13.428	13.058	13.183	13.321	13.577	13.289	12.969	12.712	12.514
85.0	4.904	4.471	4.117	3.862	3.616	3.390	3.141	2.927	2.453	2.453
87.5	1.416	1.383	1.353	1.327	1.305	1.286	1.270	1.256	1.245	1.237
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	757.853	757.853	757.853
2.5	763.961	763.979	763.985
5.0	772.569	772.569	772.569
7.5	783.536	783.588	783.606
10.0	787.285	787.285	787.285
12.5	781.936	781.809	781.767
15.0	768.023	767.664	767.664
17.5	761.272	761.256	761.287
20.0	769.470	769.098	768.890
22.5	789.737	789.630	787.285
25.0	804.663	803.924	803.635
27.5	801.349	798.886	799.898
30.0	782.817	779.482	779.927
32.5	746.930	745.421	743.138
35.0	702.108	701.413	698.719
37.5	654.404	654.205	652.392
40.0	583.547	583.371	580.040
42.5	511.307	510.904	507.688
45.0	416.557	414.608	410.811
47.5	320.567	316.385	313.933
50.0	264.750	263.008	260.793
52.5	210.749	209.040	207.654
55.0	156.731	154.514	154.514
57.5	143.915	143.586	143.477
60.0	132.858	132.545	132.441
62.5	121.799	121.502	121.404
65.0	110.367	110.367	110.367
67.5	93.730	93.331	93.199
70.0	76.513	76.151	76.031
72.5	59.293	58.970	58.862
75.0	41.694	41.694	41.694
77.5	32.065	31.758	31.271
80.0	22.220	21.781	20.847
82.5	12.374	11.812	10.424
85.0	2.453	1.828	0.000
87.5	1.231	0.919	0.000
90.0	0.000	0.000	0.000

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	299.43	N.A.	8.60
0-30	711.72	N.A.	20.40
0-40	1360.4	N.A.	39.00
0-60	2965.5	N.A.	85.10
0-80	3476.63	N.A.	99.70
0-90	3485.94	N.A.	100.00
10-90	3412.49	N.A.	97.90
20-40	1060.96	N.A.	30.40
20-50	1866.35	N.A.	53.50
40-70	2023.19	N.A.	58.00
60-80	511.12	N.A.	14.70
70-80	93.04	N.A.	2.70
80-90	9.32	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	3485.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	73.45
10-20	225.98
20-30	412.28
30-40	648.68
40-50	805.38
50-60	799.72
60-70	418.09
70-80	93.04
80-90	9.32
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
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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	126	126	126	126	123	123	123	123	118	118	118	113	113	113	108	108	108	106
1	116	111	107	104	113	109	105	102	105	101	99	101	98	96	97	95	93	91
2	106	97	90	84	103	95	89	83	91	86	81	88	83	79	85	81	78	75
3	96	85	76	69	93	83	75	69	80	73	67	77	71	66	74	69	65	63
4	87	74	65	58	85	73	64	57	70	63	56	68	61	56	65	60	55	53
5	79	66	56	49	77	64	55	48	62	54	48	60	53	47	58	52	47	44
6	73	58	49	42	71	57	48	41	55	47	41	53	46	41	52	45	40	38
7	67	52	43	36	65	51	42	36	50	41	35	48	41	35	47	40	35	33
8	62	47	38	31	60	46	37	31	45	37	31	44	36	31	42	36	31	28
9	57	43	34	28	56	42	33	28	41	33	27	40	32	27	39	32	27	25
10	54	39	30	25	52	38	30	24	37	30	24	36	29	24	35	29	24	22

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

UGR TABLE - CORRECTED

Reflectances

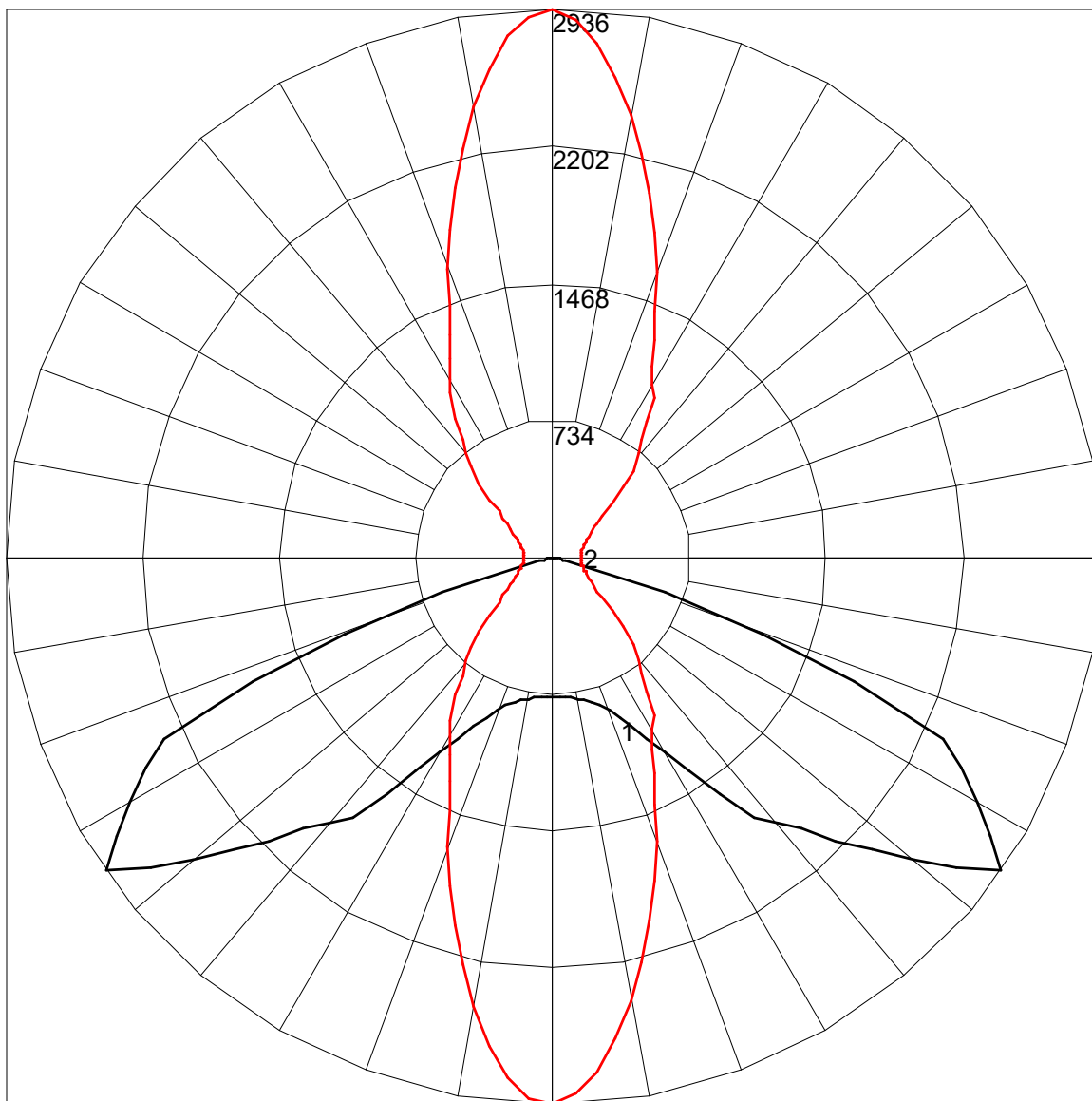
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	10.8	12.1	11.1	12.4	12.7	UGR Viewed Endwise				
	3H	12.8	14.0	13.2	14.3	14.7	4.2	4.2	4.2	4.2	4.2
	4H	13.3	14.4	13.7	14.8	15.2	4.2	4.2	4.2	4.2	4.2
	6H	13.6	14.7	14.1	15.0	15.4	4.2	4.2	4.2	4.2	4.2
	8H	13.7	14.7	14.1	15.0	15.5	4.2	4.2	4.2	4.2	4.2
	12H	13.7	14.6	14.1	15.0	15.4	4.2	4.2	4.2	4.2	4.2
4H	2H	10.9	12.0	11.3	12.4	12.8	4.2	5.3	4.6	5.6	6.0
	3H	13.2	14.0	13.6	14.4	14.8	4.8	5.7	5.2	6.1	6.5
	4H	13.8	14.6	14.2	15.0	15.4	4.8	5.6	5.3	6.1	6.5
	6H	14.2	14.9	14.6	15.3	15.8	4.8	5.6	5.3	6.0	6.5
	8H	14.2	14.9	14.7	15.3	15.8	4.9	5.5	5.3	5.9	6.4
	12H	14.2	14.8	14.7	15.3	15.8	4.9	5.4	5.4	5.9	6.4
8H	4H	13.7	14.3	14.2	14.8	15.3	6.0	6.6	6.4	7.1	7.5
	6H	14.2	14.7	14.7	15.2	15.7	6.1	6.6	6.6	7.1	7.6
	8H	14.3	14.7	14.8	15.3	15.8	6.1	6.6	6.6	7.1	7.6
	12H	14.3	14.7	14.8	15.2	15.8	6.1	6.6	6.7	7.1	7.6
12H	4H	13.7	14.2	14.2	14.7	15.2	6.1	6.7	6.6	7.2	7.7
	6H	14.1	14.6	14.7	15.1	15.6	6.3	6.8	6.8	7.2	7.8
	8H	14.3	14.7	14.8	15.2	15.7	6.4	6.8	6.9	7.3	7.8

Maximum UGR = 15.8

POLAR GRAPH



Maximum Candela = 2935.762 Located At Horizontal Angle = 90, Vertical Angle = 55
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (55) (Through Max. Cd.)