



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VF2-L106-750-MF_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]ATAL009602-R2
 [TESTLAB]ATAL-LABS
 [ISSUE DATE]28 NOV 2022
 [MANUFACTURER]WILLIAMS OUTDOOR
 [OTHER]H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMEN CATEGORY]VF2-L106-750-MF-MTG-CLR-OPT-DIM-UNV
 [LUMINAIRE]VOLTAIRE MEDIUM ARCHITECTURAL FLOOD LIGHT WITH
 [MORE]MEDIUM FLOOD MOLDED REFRACTIVE CLEAR ACRYLIC LENS AND A CLEAR
 [MORE]GLASS LENS.
 [LAMP CATEGORY]LUXEON TX 5000K LEDS
 [BALLAST](1) PHILIPS ELECTRONIC DRIVER
 [OTHER]INPUT WATTS: 98, AMPS: 0.4464, VAC: 120.05, TEMP: 25.0 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	10629
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	98
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.02
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	47755	53154	46260
55	45552	45384	44719
65	38902	39660	36642
75	36373	29943	32156
85	0	14952	4696

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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	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882
2.5	6818.601	6817.441	6816.782	6816.624	6816.962	6817.792	6819.110	6820.910	6823.186	6825.929
5.0	6638.452	6638.747	6639.607	6640.995	6642.872	6645.257	6655.696	6664.467	6673.613	6683.106
7.5	6725.583	6729.906	6732.859	6734.404	6738.386	6741.285	6742.796	6742.923	6736.661	6743.358
10.0	6957.541	6964.365	6969.513	6975.306	6980.495	6984.089	6986.121	6986.622	6997.912	7008.198
12.5	7140.045	7145.412	7148.572	7158.809	7165.997	7171.930	7180.914	7195.405	7209.329	7222.816
15.0	7210.692	7213.487	7218.629	7226.866	7235.034	7246.573	7264.927	7283.712	7300.491	7329.496
17.5	7100.954	7097.265	7104.493	7118.495	7135.263	7161.651	7188.937	7215.414	7247.301	7282.301
20.0	6886.502	6876.136	6884.823	6900.807	6923.334	6960.718	6982.243	7008.684	7041.473	7067.091
22.5	6596.064	6582.553	6591.902	6606.836	6627.092	6652.969	6672.099	6694.577	6709.388	6722.589
25.0	6280.116	6262.380	6266.948	6276.050	6283.424	6293.436	6294.762	6296.984	6287.221	6281.403
27.5	5898.005	5873.916	5876.408	5874.024	5862.608	5844.785	5830.841	5801.323	5790.001	5753.420
30.0	5405.075	5372.498	5379.800	5366.257	5344.052	5306.409	5271.269	5222.927	5176.134	5143.964
32.5	4770.725	4723.395	4732.694	4698.790	4655.965	4610.622	4547.052	4491.730	4456.930	4404.557
35.0	3833.771	3804.628	3822.143	3798.393	3779.514	3765.640	3724.485	3699.555	3675.498	3612.655
37.5	2821.165	2813.688	2827.781	2808.963	2808.263	2811.458	2812.998	2814.697	2805.716	2792.810
40.0	2055.824	2054.029	2066.749	2069.110	2078.321	2085.035	2087.111	2085.603	2068.489	2052.972
42.5	1290.483	1297.965	1325.822	1366.120	1408.989	1455.924	1495.797	1531.405	1561.656	1584.381
45.0	1165.674	1166.759	1173.011	1181.460	1188.952	1196.650	1195.994	1196.330	1192.973	1181.870
47.5	1040.864	1042.219	1046.383	1053.396	1062.403	1072.045	1081.903	1089.546	1095.217	1094.942
50.0	994.551	996.181	997.736	1000.015	1002.893	1004.864	1008.283	1010.708	1015.920	1021.409
52.5	948.238	951.056	952.526	954.848	957.233	957.767	958.659	959.805	962.275	964.893
55.0	901.925	905.976	907.203	909.797	911.333	909.821	908.641	907.652	907.590	908.388
57.5	818.326	820.481	822.312	825.613	829.273	832.482	835.146	837.434	841.489	846.635
60.0	734.728	734.557	735.651	736.985	740.308	745.796	747.828	750.054	754.537	757.699
62.5	651.129	648.621	648.914	647.925	651.520	659.753	660.260	662.611	666.805	668.017
65.0	567.530	562.674	562.111	558.479	562.892	572.641	572.726	575.914	578.472	577.994
67.5	506.892	503.770	503.913	498.736	503.706	507.167	505.366	506.498	504.129	498.485
70.0	446.253	445.132	446.850	441.600	448.047	447.884	446.401	449.467	446.724	441.688
72.5	385.615	386.524	389.913	385.220	391.660	389.105	387.168	393.057	389.775	385.127
75.0	324.976	327.938	333.079	328.899	334.680	330.738	327.730	337.139	333.225	328.783
77.5	243.732	247.427	253.280	252.225	256.928	256.272	254.347	264.934	262.819	261.373
80.0	162.488	166.776	172.971	174.260	177.645	179.063	178.013	185.753	185.181	185.566
82.5	81.244	86.106	92.659	96.106	98.704	101.697	102.042	107.015	107.877	110.108
85.0	0.000	5.418	12.338	17.818	19.995	24.209	26.323	28.429	30.779	34.878
87.5	0.000	2.648	5.904	8.313	8.961	10.545	10.970	11.111	11.477	12.734
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	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882
2.5	6829.893	6837.798	6844.998	6852.546	6860.428	6868.625	6877.122	6885.902	6894.946	6904.237
5.0	6692.918	6703.019	6713.383	6723.982	6734.790	6744.808	6766.662	6785.335	6803.678	6821.656
7.5	6755.075	6772.120	6788.485	6804.153	6819.104	6833.318	6846.776	6855.065	6880.574	6896.942
10.0	7011.029	7024.603	7030.269	7043.529	7056.696	7069.391	7081.659	7093.529	7099.755	7128.121
12.5	7240.404	7262.552	7280.921	7294.973	7309.333	7325.734	7343.290	7362.073	7381.421	7392.907
15.0	7357.290	7387.379	7417.542	7437.111	7459.066	7481.508	7495.094	7512.420	7525.055	7535.513
17.5	7314.519	7344.612	7381.758	7408.960	7416.848	7433.856	7453.504	7468.258	7462.675	7469.240
20.0	7093.306	7129.499	7139.626	7173.939	7173.929	7174.857	7186.860	7201.009	7194.220	7201.794
22.5	6736.039	6739.890	6758.376	6747.382	6746.592	6742.802	6742.151	6756.054	6746.574	6749.624
25.0	6267.330	6258.094	6232.613	6218.273	6194.522	6184.565	6178.349	6174.459	6175.310	6182.524
27.5	5724.583	5682.094	5646.151	5608.407	5584.591	5570.716	5558.339	5551.057	5556.229	5561.680
30.0	5078.072	5029.681	4985.311	4961.703	4948.854	4922.776	4906.799	4902.223	4893.410	4887.489

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CANDELA TABULATION - (Cont.)

32.5	4353.602	4313.393	4290.814	4274.948	4245.580	4226.867	4213.161	4200.398	4193.544	4188.748
35.0	3567.288	3539.786	3533.282	3521.058	3509.303	3506.444	3472.646	3463.876	3460.579	3460.870
37.5	2791.656	2790.277	2781.485	2764.809	2761.088	2756.374	2753.090	2748.219	2742.583	2748.082
40.0	2055.960	2082.246	2096.816	2110.672	2115.884	2107.189	2099.259	2110.956	2119.226	2106.869
42.5	1593.301	1590.604	1573.103	1556.206	1582.152	1615.503	1625.109	1621.962	1591.570	1612.765
45.0	1202.830	1247.289	1276.546	1290.040	1292.332	1278.118	1265.038	1288.608	1297.454	1282.103
47.5	1093.295	1091.595	1087.792	1082.139	1104.539	1120.575	1121.333	1113.292	1103.629	1101.868
50.0	1025.051	1028.153	1029.282	1024.258	1020.199	1019.566	1021.202	1025.444	1021.426	1019.109
52.5	967.689	969.572	970.471	968.698	964.563	962.162	959.763	958.399	957.509	956.694
55.0	909.615	911.372	910.614	908.709	905.291	902.512	901.532	899.004	898.604	898.101
57.5	851.791	852.391	852.168	849.277	846.029	843.224	841.183	839.255	840.917	841.353
60.0	762.717	769.258	777.030	782.587	787.608	785.128	780.941	776.055	772.591	764.341
62.5	671.889	677.201	683.025	688.487	694.787	703.332	707.272	710.239	684.342	662.147
65.0	580.754	584.850	589.351	594.479	598.907	603.826	604.461	604.917	578.588	544.900
67.5	494.629	492.227	495.971	499.617	502.423	502.410	500.868	495.274	478.610	461.807
70.0	436.786	431.696	429.690	424.796	418.395	405.527	396.588	396.836	391.367	394.147
72.5	378.401	372.045	370.921	364.429	357.014	346.727	335.558	327.277	320.416	328.579
75.0	319.597	312.948	312.751	304.308	296.906	290.898	282.575	272.814	267.526	273.725
77.5	253.370	249.757	251.157	243.589	239.011	237.590	229.757	218.444	214.079	217.532
80.0	179.350	178.351	179.830	175.372	173.881	175.044	169.659	161.208	158.937	160.238
82.5	106.055	107.163	109.447	108.218	108.635	110.153	106.736	101.957	101.822	103.083
85.0	33.289	36.105	39.725	41.810	43.601	45.484	45.057	44.132	44.985	46.214
87.5	10.847	11.365	12.234	12.562	12.306	11.882	10.782	9.609	8.357	7.008
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	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882
2.5	6913.759	6923.494	6933.423	6943.530	6953.797	6964.207	6980.446	6985.852	6997.714	7009.687
5.0	6839.235	6858.716	6879.268	6904.440	6929.515	6954.450	6979.204	7003.735	7028.004	7051.972
7.5	6926.797	6959.117	6990.414	7020.636	7049.733	7077.661	7104.378	7135.058	7168.245	7209.846
10.0	7154.050	7178.490	7201.384	7222.671	7241.682	7277.088	7305.678	7338.102	7364.503	7390.558
12.5	7398.299	7404.271	7410.750	7423.047	7441.858	7454.870	7463.267	7474.125	7495.825	7516.771
15.0	7528.816	7526.962	7525.127	7522.433	7523.302	7512.135	7506.588	7503.417	7502.324	7510.319
17.5	7471.042	7467.882	7454.705	7449.031	7453.536	7419.601	7400.708	7387.972	7379.012	7373.836
20.0	7213.229	7199.836	7192.365	7202.839	7181.354	7166.807	7155.890	7139.279	7134.457	7122.820
22.5	6769.671	6757.800	6765.825	6772.669	6781.951	6787.791	6778.134	6781.809	6769.728	6774.654
25.0	6196.040	6229.187	6222.524	6226.714	6246.302	6265.575	6304.371	6308.523	6333.446	6336.040
27.5	5558.216	5567.212	5585.072	5606.638	5633.493	5666.726	5706.400	5752.746	5787.906	5826.124
30.0	4897.233	4901.659	4915.338	4943.311	4975.727	5009.063	5048.705	5098.545	5157.182	5216.097
32.5	4190.738	4199.955	4215.813	4231.418	4256.952	4297.388	4356.081	4376.451	4415.002	4460.912
35.0	3459.869	3462.793	3471.628	3492.233	3510.057	3526.881	3550.358	3581.865	3619.839	3657.921
37.5	2749.663	2748.880	2756.453	2758.924	2764.153	2769.306	2785.826	2797.776	2798.912	2789.069
40.0	2105.551	2118.324	2110.378	2099.408	2114.996	2123.510	2113.369	2083.544	2040.691	2019.679
42.5	1615.718	1586.792	1603.623	1625.093	1621.908	1592.451	1566.018	1580.470	1575.100	1549.446
45.0	1243.967	1278.346	1290.784	1284.926	1270.216	1288.812	1291.806	1273.449	1226.736	1151.189
47.5	1105.814	1099.660	1098.353	1108.909	1119.293	1121.511	1099.611	1075.668	1076.888	1076.754
50.0	1017.781	1014.786	1016.347	1023.084	1027.805	1020.319	1018.060	1018.169	1019.546	1018.420
52.5	955.523	955.972	957.567	962.228	967.426	962.054	960.401	960.541	955.922	950.112
55.0	898.679	898.335	899.311	899.214	900.934	902.209	895.573	883.369	875.927	873.492
57.5	840.308	841.301	837.360	834.501	838.070	823.023	807.221	796.809	791.629	790.885
60.0	773.808	771.209	758.833	761.519	748.480	721.281	699.986	700.663	700.491	705.053
62.5	659.644	665.980	663.095	658.313	650.241	629.448	595.758	577.584	612.007	622.212
65.0	549.363	563.216	566.928	564.461	557.684	542.221	518.598	508.501	516.101	542.033
67.5	471.094	479.891	482.703	482.761	478.044	468.647	463.997	458.458	450.804	456.852

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CANDELA TABULATION - (Cont.)

70.0	405.062	412.386	412.556	411.348	408.637	408.104	408.258	405.283	398.705	393.570
72.5	341.389	346.895	348.951	349.452	348.890	351.359	352.941	351.664	348.143	340.053
75.0	281.398	284.203	289.150	291.948	290.390	290.595	294.193	301.914	297.973	288.478
77.5	220.414	221.040	223.645	227.643	228.601	228.791	229.495	234.131	237.077	233.685
80.0	159.027	157.262	157.176	158.515	159.874	161.319	162.834	164.091	164.907	165.626
82.5	102.946	101.682	99.459	97.080	94.145	94.851	96.800	99.054	100.206	99.064
85.0	48.869	51.147	52.739	53.396	53.360	52.463	50.427	48.233	45.022	44.673
87.5	8.509	10.268	12.258	13.128	14.129	16.751	18.837	19.957	20.355	19.732
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>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	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882
2.5	7021.751	7033.880	7046.053	7058.247	7070.436	7082.600	7094.714	7106.433	7118.055	7129.556
5.0	7075.603	7106.867	7122.943	7147.391	7171.359	7194.822	7217.756	7239.625	7260.924	7281.632
7.5	7245.321	7279.419	7312.138	7343.601	7376.006	7407.047	7436.762	7464.226	7490.468	7516.884
10.0	7427.176	7464.513	7500.197	7534.306	7567.560	7601.120	7633.396	7662.910	7691.284	7714.690
12.5	7536.957	7563.230	7596.335	7628.554	7659.976	7692.153	7724.059	7753.235	7781.307	7805.588
15.0	7523.357	7536.844	7556.676	7582.274	7608.138	7633.362	7658.122	7687.091	7715.317	7742.999
17.5	7375.114	7387.441	7387.230	7411.507	7442.436	7474.115	7501.286	7522.486	7537.455	7553.774
20.0	7119.856	7129.275	7139.447	7159.753	7193.704	7229.506	7245.231	7268.880	7263.015	7260.618
22.5	6768.144	6775.066	6782.965	6798.674	6807.987	6825.769	6840.973	6861.180	6872.698	6888.424
25.0	6356.221	6372.936	6394.812	6412.587	6430.050	6448.788	6464.190	6472.581	6469.399	6464.053
27.5	5856.213	5891.633	5929.036	5954.056	5978.918	5995.676	6009.358	6002.217	5985.158	5956.645
30.0	5281.669	5327.948	5358.075	5386.288	5410.439	5417.708	5426.269	5407.006	5384.377	5345.041
32.5	4507.295	4548.178	4590.578	4634.426	4663.462	4675.141	4680.062	4651.350	4615.931	4565.543
35.0	3677.220	3689.549	3692.833	3697.994	3696.154	3691.597	3691.430	3673.793	3658.219	3640.700
37.5	2770.207	2744.867	2712.956	2684.386	2661.214	2644.187	2642.193	2639.614	2647.965	2662.642
40.0	2019.420	2007.315	1985.862	1960.976	1940.722	1926.856	1925.128	1927.172	1939.383	1957.560
42.5	1502.231	1440.172	1372.430	1304.408	1250.434	1216.854	1208.062	1222.959	1262.007	1317.576
45.0	1137.676	1134.260	1130.989	1127.197	1126.256	1127.025	1129.173	1130.333	1133.890	1137.789
47.5	1074.039	1068.333	1062.184	1055.990	1051.573	1050.077	1050.284	1050.157	1052.755	1058.684
50.0	1013.223	1005.922	1000.269	997.569	994.132	995.193	995.336	994.409	994.900	997.153
52.5	945.663	942.982	939.900	940.180	938.418	940.647	940.389	939.296	939.065	938.487
55.0	873.232	875.793	877.679	881.664	882.838	885.804	885.441	884.131	882.609	879.357
57.5	795.558	800.554	802.986	801.422	798.902	798.254	797.721	797.547	798.882	801.677
60.0	710.158	714.247	716.605	713.483	711.115	709.809	710.001	710.164	712.064	717.224
62.5	626.883	630.073	631.210	627.732	623.474	621.553	622.281	623.047	626.966	631.389
65.0	547.138	547.773	547.283	543.445	536.901	533.537	534.561	535.864	544.847	546.510
67.5	469.461	469.236	468.899	473.609	471.482	470.931	472.745	473.844	480.436	476.218
70.0	396.910	403.921	409.026	413.250	411.031	409.941	410.929	413.439	418.798	415.719
72.5	337.196	342.457	348.396	351.716	351.284	348.448	349.113	353.561	357.068	354.969
75.0	281.904	281.832	288.512	291.437	292.642	287.439	287.297	294.467	296.282	295.884
77.5	226.107	223.715	227.772	231.676	229.066	221.895	219.005	227.365	231.421	234.071
80.0	166.121	162.426	165.443	166.892	162.428	154.730	150.713	158.477	165.902	169.840
82.5	97.594	99.056	105.709	107.393	101.014	89.659	82.421	91.552	104.781	109.154
85.0	44.351	47.078	52.409	55.715	49.937	28.251	14.129	30.705	52.059	59.427
87.5	17.579	17.232	17.271	20.078	17.737	11.654	7.065	13.319	20.565	23.117
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>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	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882
2.5	7140.912	7152.099	7163.096	7173.878	7184.424	7199.311	7204.400	7213.584	7222.499	7231.129

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CANDELA TABULATION - (Cont.)

5.0	7301.733	7319.944	7335.668	7350.863	7365.538	7379.697	7393.348	7406.494	7419.136	7431.275
7.5	7534.789	7552.678	7569.491	7585.259	7596.713	7613.957	7629.412	7645.577	7661.112	7676.055
10.0	7735.742	7756.022	7775.643	7794.811	7814.708	7834.376	7851.998	7870.221	7885.064	7898.792
12.5	7829.710	7853.736	7877.879	7902.249	7926.794	7951.574	7975.992	8002.324	8022.704	8042.238
15.0	7772.224	7802.509	7834.139	7867.985	7900.672	7930.761	7964.629	8000.716	8021.353	8032.985
17.5	7577.222	7620.764	7647.979	7677.789	7706.600	7742.283	7763.431	7788.648	7834.739	7823.247
20.0	7276.920	7307.846	7330.517	7350.831	7376.684	7384.813	7403.382	7409.296	7415.125	7424.604
22.5	6898.418	6913.933	6913.760	6922.896	6916.157	6923.146	6910.113	6910.866	6900.563	6887.183
25.0	6454.127	6435.395	6420.775	6393.596	6377.590	6348.434	6336.290	6303.141	6285.890	6263.265
27.5	5927.036	5882.636	5838.987	5798.880	5752.297	5713.120	5673.899	5641.445	5612.365	5588.236
30.0	5303.411	5261.130	5204.646	5135.422	5074.561	5019.119	4973.897	4930.138	4909.531	4879.356
32.5	4507.657	4452.277	4401.352	4353.117	4308.342	4270.893	4239.227	4197.497	4164.090	4139.814
35.0	3614.302	3594.939	3569.105	3539.975	3503.440	3472.300	3446.726	3430.776	3421.877	3400.852
37.5	2679.587	2696.792	2711.353	2721.801	2724.928	2718.585	2704.291	2691.509	2688.043	2664.663
40.0	1976.610	1992.335	2001.629	1999.806	2016.466	2051.652	2072.851	2078.599	2063.220	2042.420
42.5	1381.697	1447.335	1504.471	1547.159	1570.949	1573.354	1558.922	1579.111	1598.814	1593.704
45.0	1142.426	1147.095	1150.198	1162.763	1232.897	1275.290	1291.080	1285.188	1264.084	1269.865
47.5	1064.018	1071.145	1076.292	1079.212	1079.895	1078.589	1098.532	1115.023	1108.667	1095.023
50.0	998.074	1001.921	1006.100	1010.937	1012.908	1012.144	1010.009	1006.889	1008.634	1000.173
52.5	938.613	937.772	938.366	940.913	945.143	949.207	948.066	944.444	940.556	936.378
55.0	875.288	870.447	867.001	866.884	868.733	874.712	883.521	886.135	883.626	879.611
57.5	799.334	796.146	792.372	788.459	788.788	791.960	799.509	815.068	829.751	823.886
60.0	714.494	712.287	710.119	706.637	702.675	700.698	697.697	718.291	745.517	758.839
62.5	630.649	630.677	629.128	625.651	616.580	580.556	596.530	629.486	651.608	663.571
65.0	549.089	551.048	550.640	546.686	519.684	511.458	521.056	544.679	562.618	571.484
67.5	473.504	473.754	474.063	461.059	454.900	462.469	466.958	471.192	482.604	488.682
70.0	413.706	408.265	401.576	398.807	404.124	409.136	411.966	412.138	413.230	416.861
72.5	351.998	346.317	342.109	346.368	352.608	356.561	358.241	356.881	354.412	355.071
75.0	291.326	285.530	286.417	292.446	303.984	308.539	300.957	297.385	297.122	298.441
77.5	230.378	226.444	228.797	238.610	243.893	242.217	237.631	236.880	236.052	234.201
80.0	166.914	163.923	170.045	171.459	172.505	173.224	171.275	168.801	166.456	164.244
82.5	107.977	102.308	102.658	105.527	107.300	106.615	104.164	101.324	99.752	101.858
85.0	56.121	51.423	49.316	50.223	50.809	53.931	55.863	57.123	57.411	56.967
87.5	20.764	20.755	21.034	23.061	23.521	22.939	21.613	19.271	16.453	15.316
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	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882
2.5	7239.459	7247.476	7255.164	7262.510	7269.501	7276.124	7282.365	7288.213	7293.656	7298.682
5.0	7442.906	7454.620	7467.175	7478.927	7489.858	7499.947	7509.176	7515.987	7529.213	7541.569
7.5	7690.434	7704.268	7717.568	7729.583	7739.619	7746.403	7760.586	7771.999	7782.495	7792.036
10.0	7912.023	7924.787	7937.103	7948.980	7956.055	7964.372	7970.919	7977.437	7983.878	7990.181
12.5	8055.823	8064.881	8075.133	8086.607	8099.032	8090.406	8083.083	8077.348	8073.150	8069.209
15.0	8050.255	8059.803	8062.626	8072.279	8067.244	8060.151	8047.041	8041.908	8024.127	8011.052
17.5	7825.817	7836.687	7838.568	7837.846	7833.868	7835.904	7831.472	7815.943	7802.547	7797.294
20.0	7416.215	7420.280	7431.068	7422.971	7423.566	7439.257	7433.831	7422.951	7424.544	7421.215
22.5	6875.875	6864.427	6859.812	6856.307	6856.591	6864.805	6871.899	6887.904	6903.526	6914.308
25.0	6250.751	6263.949	6231.831	6221.065	6219.013	6226.499	6239.628	6253.043	6273.336	6307.121
27.5	5570.578	5553.152	5543.863	5548.076	5543.579	5542.509	5555.640	5562.790	5590.407	5616.206
30.0	4851.679	4838.447	4829.888	4816.122	4820.625	4830.156	4836.143	4850.876	4874.379	4888.653
32.5	4119.599	4102.242	4089.479	4075.859	4069.097	4076.281	4087.387	4096.454	4105.181	4123.721
35.0	3376.434	3362.203	3349.268	3336.815	3322.965	3306.727	3306.293	3321.304	3333.519	3331.956
37.5	2669.823	2651.896	2643.859	2632.570	2616.063	2600.950	2585.925	2579.420	2577.571	2543.402
40.0	2046.841	2043.072	2015.826	2005.836	2009.752	1991.050	1959.768	1953.035	1955.588	1942.670

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42.5	1564.939	1538.665	1553.165	1536.896	1495.861	1529.315	1528.839	1509.823	1467.154	1428.976
45.0	1266.463	1246.648	1205.915	1232.086	1240.730	1229.065	1198.392	1212.503	1220.474	1216.282
47.5	1080.232	1074.043	1075.734	1069.669	1066.583	1071.604	1076.463	1076.409	1064.420	1045.638
50.0	993.260	989.633	987.769	989.174	989.056	989.589	983.941	983.625	984.600	986.171
52.5	932.302	930.269	929.479	929.117	927.215	927.102	927.309	927.620	927.920	929.158
55.0	878.740	878.235	877.052	877.245	876.588	875.037	874.015	875.152	877.179	879.581
57.5	825.222	829.048	828.423	829.437	827.661	823.835	824.253	825.948	828.901	830.930
60.0	756.476	768.654	770.578	759.787	766.440	768.389	772.407	776.807	780.427	774.400
62.5	670.406	670.303	663.095	664.337	684.740	709.139	706.294	702.474	694.327	687.725
65.0	574.995	570.360	557.116	553.186	584.661	611.339	611.148	610.349	605.276	600.396
67.5	489.384	486.766	478.276	469.380	487.107	507.150	515.290	516.480	515.896	512.140
70.0	418.200	417.560	410.233	399.780	399.281	411.568	418.805	425.321	434.054	435.932
72.5	354.142	351.045	344.541	331.916	325.644	338.298	349.851	358.258	365.696	368.471
75.0	293.976	288.045	283.879	277.396	272.848	279.089	287.504	293.476	297.884	301.248
77.5	228.839	224.933	223.169	221.046	219.618	222.548	227.510	230.632	231.791	234.549
80.0	161.913	160.976	161.861	163.534	164.380	165.700	167.775	169.462	170.118	171.353
82.5	103.553	105.299	106.297	106.675	106.787	107.118	108.006	108.812	108.996	108.964
85.0	55.985	54.568	52.614	50.416	49.736	49.142	48.784	48.455	48.150	47.127
87.5	14.330	12.862	11.575	10.490	11.685	12.801	13.855	14.863	15.991	16.562
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	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882	7085.882
2.5	7303.280	7307.441	7310.394	7315.813	7321.867	7327.482	7332.649	7337.358	7341.600	7345.367
5.0	7553.268	7564.273	7574.543	7584.037	7592.712	7600.527	7607.437	7613.343	7630.010	7634.068
7.5	7800.585	7808.100	7814.538	7828.740	7829.936	7835.218	7839.546	7842.884	7845.200	7846.714
10.0	7996.356	8003.594	8006.049	8002.985	8000.040	7997.213	7998.846	8000.143	8001.065	8001.570
12.5	8065.582	8057.302	8044.890	8034.776	8026.644	8019.430	8013.072	8008.832	8006.019	8003.684
15.0	7999.806	7980.801	7959.403	7941.671	7927.561	7912.805	7899.427	7887.722	7879.149	7873.072
17.5	7779.735	7757.120	7741.943	7725.708	7709.487	7699.094	7677.592	7665.398	7650.602	7640.172
20.0	7407.999	7412.772	7392.666	7386.669	7383.250	7375.455	7377.807	7364.071	7355.492	7348.251
22.5	6937.101	6930.902	6940.604	6947.303	6958.573	6972.350	6984.262	6999.021	7002.122	7009.295
25.0	6333.621	6366.903	6391.064	6413.981	6438.300	6472.232	6500.631	6533.004	6555.056	6580.892
27.5	5655.379	5698.657	5753.728	5788.666	5830.709	5862.917	5917.556	5950.709	5988.065	6023.425
30.0	4911.751	4948.352	4996.770	5066.515	5103.563	5163.382	5234.912	5269.836	5298.605	5329.002
32.5	4144.413	4160.073	4179.886	4223.719	4267.407	4289.597	4335.857	4385.987	4409.794	4442.871
35.0	3330.081	3327.147	3330.228	3348.283	3397.997	3403.044	3406.500	3426.846	3421.725	3423.205
37.5	2567.004	2561.820	2547.848	2528.526	2516.210	2493.571	2455.559	2420.304	2388.156	2360.165
40.0	1913.675	1879.258	1828.129	1807.754	1814.520	1814.242	1802.370	1790.460	1778.795	1767.277
42.5	1437.081	1449.144	1447.949	1432.341	1411.056	1377.909	1340.283	1302.693	1264.062	1227.850
45.0	1201.120	1174.571	1136.725	1112.460	1117.816	1118.370	1114.814	1114.411	1110.043	1103.971
47.5	1046.596	1046.084	1045.658	1045.840	1045.968	1043.418	1039.179	1035.715	1030.655	1025.055
50.0	988.396	986.493	984.867	984.207	983.057	979.836	979.138	978.213	976.307	973.370
52.5	932.075	933.115	933.300	932.306	931.131	929.174	928.671	928.497	927.161	924.613
55.0	881.782	883.385	882.213	881.280	879.911	878.013	878.139	878.724	877.969	875.821
57.5	832.974	833.864	832.458	825.998	820.059	813.003	810.161	807.921	803.475	801.104
60.0	766.881	759.097	751.683	744.881	741.641	734.358	731.811	730.497	723.814	723.124
62.5	681.174	675.011	669.135	663.188	661.917	656.117	653.344	653.629	643.958	644.553
65.0	595.119	590.664	586.236	581.271	581.414	578.204	574.769	575.477	564.054	565.461
67.5	508.742	505.116	506.077	506.038	508.949	509.777	507.549	509.037	502.331	500.910
70.0	438.459	441.791	444.344	445.461	446.938	447.979	444.960	446.159	442.412	438.403
72.5	371.984	377.123	382.162	385.036	385.643	386.307	382.097	383.780	381.899	376.464
75.0	305.198	312.235	319.628	324.742	324.957	324.719	319.023	321.809	320.894	314.741
77.5	238.606	245.346	252.001	256.690	255.432	253.508	246.970	249.658	247.412	242.321

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80.0	172.955	175.726	179.152	182.622	181.009	178.347	173.106	175.639	172.978	169.161
82.5	108.023	107.052	106.883	108.654	106.702	103.393	99.553	101.421	98.717	95.854
85.0	43.581	39.018	35.026	34.747	32.460	28.504	26.225	27.060	22.326	21.194
87.5	15.282	13.440	11.918	12.743	12.529	11.349	10.979	12.060	11.352	10.688
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	7085.882	7085.882	7085.882
2.5	7348.652	7351.449	7353.752
5.0	7638.148	7642.244	7646.348
7.5	7850.340	7852.825	7854.167
10.0	8002.329	8004.172	8005.469
12.5	8001.736	7998.866	7996.050
15.0	7865.353	7858.700	7846.514
17.5	7633.499	7630.581	7631.277
20.0	7341.681	7337.432	7325.689
22.5	6993.595	7000.798	6994.041
25.0	6591.936	6608.011	6599.596
27.5	6049.703	6073.130	6065.876
30.0	5360.662	5386.620	5376.816
32.5	4483.267	4517.751	4506.977
35.0	3434.681	3451.181	3433.962
37.5	2337.447	2322.647	2310.153
40.0	1753.992	1750.525	1735.559
42.5	1197.345	1168.106	1160.964
45.0	1099.575	1094.839	1087.962
47.5	1022.231	1019.670	1014.960
50.0	971.682	970.327	967.862
52.5	922.458	920.492	920.764
55.0	873.326	870.191	873.666
57.5	799.507	796.493	799.487
60.0	724.608	721.989	725.308
62.5	649.687	647.444	651.129
65.0	572.240	572.240	576.950
67.5	506.496	506.408	508.069
70.0	438.278	440.065	439.189
72.5	369.890	373.756	370.308
75.0	299.876	307.113	301.427
77.5	230.663	233.759	227.248
80.0	160.096	160.002	153.069
82.5	89.666	86.240	78.889
85.0	18.794	12.329	4.710
87.5	9.450	6.183	2.355
90.0	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2839.67	N.A.	26.70
0-30	5714.07	N.A.	53.80
0-40	7889.62	N.A.	74.20
0-60	9683.35	N.A.	91.10
0-80	10563.4	N.A.	99.40
0-90	10628.85	N.A.	100.00
10-90	9932.16	N.A.	93.40
20-40	5049.95	N.A.	47.50
20-50	6055.46	N.A.	57.00
40-70	2359.42	N.A.	22.20
60-80	880.04	N.A.	8.30
70-80	314.36	N.A.	3.00
80-90	65.46	N.A.	0.60
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	10628.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	696.69
10-20	2142.98
20-30	2874.4
30-40	2175.54
40-50	1005.51
50-60	788.23
60-70	565.68
70-80	314.36
80-90	65.46
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

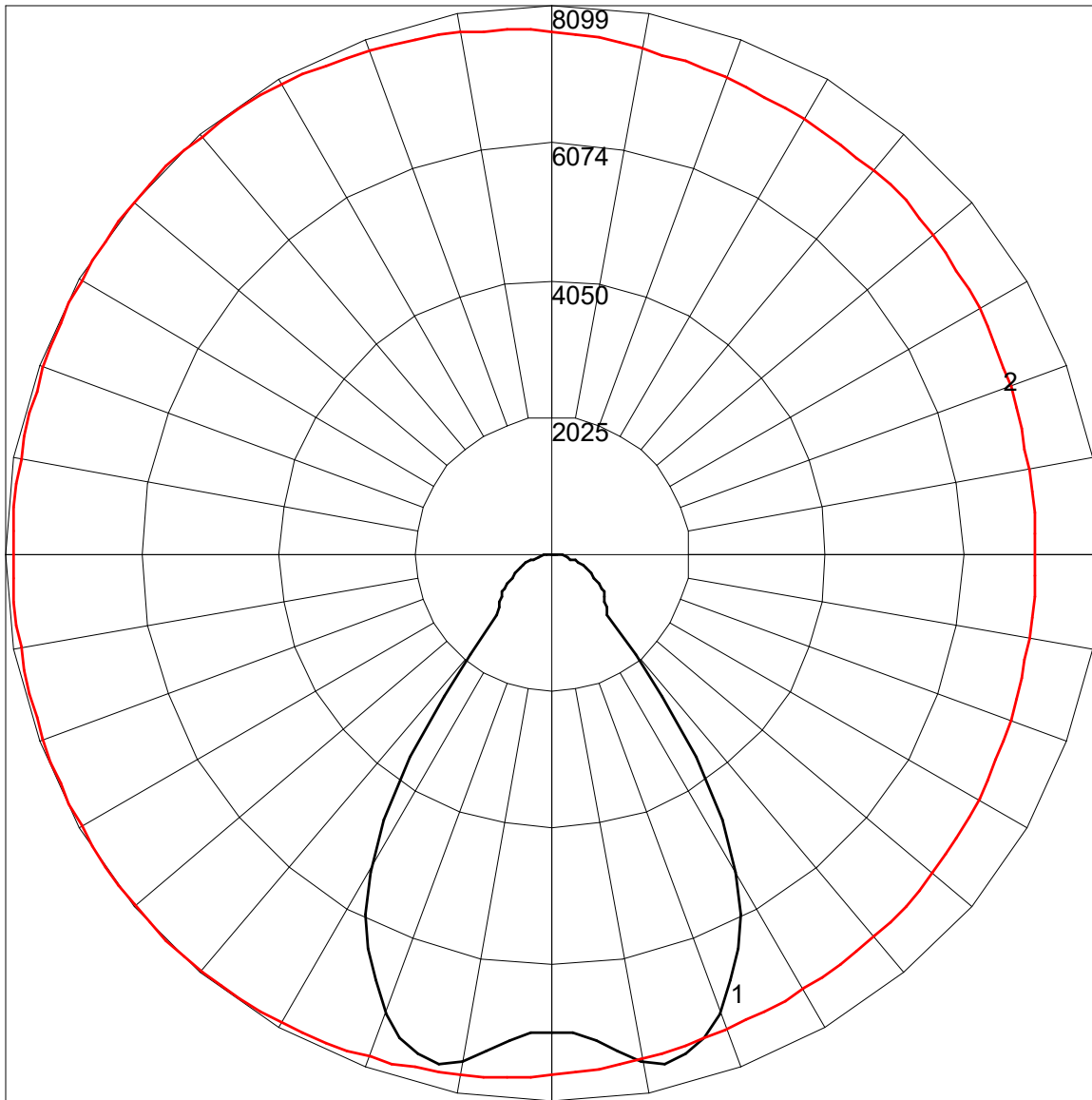
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VF2-L106-750-MF_.IES

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	222	222	222	222	217	217	217	217	208	208	208	199	199	199	191	191	191	187
1	208	202	196	190	204	198	192	187	190	185	181	183	179	176	176	173	171	167
2	195	183	173	165	190	180	171	163	173	166	160	168	161	156	162	157	153	149
3	182	167	155	146	178	164	153	144	159	150	142	154	146	140	150	143	137	134
4	170	153	140	130	167	150	138	129	146	136	128	142	133	126	138	131	124	121
5	160	141	127	117	156	139	126	117	135	124	116	132	122	115	129	120	113	110
6	150	130	116	107	147	128	116	106	125	114	106	122	112	105	120	111	104	101
7	141	121	107	98	139	119	107	98	117	105	97	114	104	96	112	103	96	93
8	133	112	99	90	131	111	99	90	109	98	90	107	97	89	105	96	89	86
9	126	105	92	84	124	104	92	83	102	91	83	100	90	83	99	89	82	79
10	119	98	86	78	117	98	86	78	96	85	77	94	84	77	93	83	77	74

POLAR GRAPH



Maximum Candela = 8099.032 Located At Horizontal Angle = 135, Vertical Angle = 12.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (12.5) (Through Max. Cd.)