



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ATAL009603-R2
[TESTLAB]ATAL-LABS
[ISSUE DATE]29 NOV 2022
[MANUFACTURER]WILLIAMS OUTDOOR
[OTHER]H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMEN CATEGORY]VF2-L106-750-WF-MTG-CLR-OPT-DIM-UNV
[LUMINAIRE]VOLTAIRE MEDIUM ARCHITECTURAL FLOOD LIGHT WITH WIDE
[MORE]FLOOD MOLDED REFRACTIVE CLEAR ACRYLIC LENS AND A CLEAR GLASS
[MORE]LENS.
[LAMP CATEGORY]LUXEON TX 5000K LEDS
[BALLAST](1) PHILIPS ELECTRONIC DRIVER
[OTHER]INPUT WATTS: 98, AMPS: 0.4428, VAC: 120.03, TEMP: 25.2 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	10649
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	98
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.06
Spacing Criterion (90-270)	2.02
Spacing Criterion (Diagonal)	1.76
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	162333	159104	156823
55	76507	78275	79550
65	31269	32014	29056
75	23120	18612	18304
85	0	7078	2861

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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	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409
2.5	2666.015	2666.005	2665.974	2665.923	2665.852	2665.761	2665.649	2665.518	2665.367	2665.197
5.0	2702.595	2702.046	2701.342	2700.490	2699.499	2698.541	2700.775	2701.939	2702.876	2703.577
7.5	2806.955	2804.765	2801.727	2797.878	2798.831	2799.296	2798.802	2797.330	2791.574	2793.062
10.0	2986.626	2981.163	2974.157	2973.211	2974.118	2973.556	2971.561	2968.169	2967.969	2965.639
12.5	3243.760	3234.596	3224.030	3225.985	3224.157	3219.634	3217.442	3219.668	3218.616	3214.199
15.0	3574.053	3562.447	3555.633	3555.329	3551.269	3548.721	3552.917	3553.320	3546.859	3552.899
17.5	3912.308	3903.567	3900.551	3898.958	3894.389	3902.215	3906.168	3903.292	3901.206	3897.308
20.0	4111.990	4120.358	4123.838	4126.165	4130.298	4136.959	4133.194	4126.072	4119.642	4113.652
22.5	4155.025	4150.683	4149.938	4149.194	4145.746	4142.973	4141.881	4142.948	4144.262	4146.405
25.0	4095.853	4092.043	4094.489	4097.498	4099.569	4101.682	4103.113	4104.035	4103.052	4101.452
27.5	4070.492	4068.937	4070.548	4072.164	4073.586	4074.174	4074.033	4071.414	4067.501	4061.097
30.0	4082.404	4082.545	4081.688	4080.396	4078.339	4074.965	4070.992	4070.272	4070.570	4068.712
32.5	4137.542	4138.595	4135.921	4135.020	4133.489	4129.984	4126.431	4122.312	4117.319	4110.842
35.0	4230.814	4230.832	4224.203	4217.186	4208.180	4197.832	4189.418	4182.765	4177.547	4172.685
37.5	4333.620	4332.454	4322.980	4308.394	4290.872	4273.717	4259.344	4246.722	4237.041	4228.321
40.0	4292.737	4288.556	4279.953	4268.308	4257.254	4248.105	4242.909	4242.435	4247.100	4260.407
42.5	4251.854	4242.855	4230.147	4213.988	4199.662	4182.965	4170.683	4156.458	4142.835	4143.574
45.0	3962.444	3953.551	3947.216	3934.524	3926.481	3912.483	3919.168	3923.330	3942.244	3979.864
47.5	3673.034	3661.814	3652.407	3627.321	3595.567	3557.082	3542.993	3520.790	3514.047	3507.187
50.0	2953.633	2948.797	2951.495	2948.422	2945.891	2946.292	2960.302	2971.592	2987.422	2986.025
52.5	2234.232	2231.106	2232.438	2230.423	2233.366	2241.715	2252.398	2262.247	2277.459	2285.161
55.0	1514.831	1513.374	1513.665	1513.459	1524.768	1537.768	1546.020	1553.760	1583.172	1608.222
57.5	1250.166	1245.956	1236.251	1219.668	1206.011	1182.173	1143.854	1092.952	1067.505	1024.644
60.0	985.501	983.322	978.723	970.537	965.466	950.473	925.892	894.741	879.962	849.031
62.5	720.836	720.795	722.125	722.967	726.829	723.086	713.352	702.465	697.604	683.270
65.0	456.171	458.364	466.357	476.786	489.923	497.522	507.087	515.695	522.444	524.666
67.5	393.770	394.601	397.119	398.815	402.321	399.165	400.084	400.676	400.173	398.491
70.0	331.370	332.531	334.211	334.358	337.725	333.773	333.641	334.152	332.935	329.684
72.5	268.969	270.474	271.208	270.145	272.913	268.616	266.672	268.089	265.613	260.646
75.0	206.568	208.429	208.127	205.944	207.938	203.651	199.283	202.404	198.234	191.434
77.5	154.926	156.864	157.499	156.398	156.998	154.118	149.064	151.694	146.077	137.773
80.0	103.284	105.339	107.220	107.494	107.763	106.937	103.577	105.648	102.196	96.900
82.5	51.642	53.799	56.993	58.500	58.819	59.697	58.528	60.173	58.866	56.627
85.0	0.000	2.250	6.794	9.443	10.078	12.404	13.786	14.920	15.900	16.774
87.5	0.000	1.077	3.235	4.341	4.370	5.228	5.569	5.640	5.724	5.822
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	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409
2.5	2665.008	2665.767	2666.120	2666.422	2666.671	2666.867	2667.008	2667.093	2667.121	2667.093
5.0	2704.032	2704.235	2704.178	2703.855	2703.264	2702.024	2703.084	2703.085	2702.759	2702.105
7.5	2793.671	2794.939	2795.383	2794.983	2793.727	2791.603	2788.605	2783.519	2784.171	2778.114
10.0	2954.131	2956.669	2952.733	2954.404	2954.318	2952.045	2947.555	2940.831	2929.792	2932.673
12.5	3210.831	3208.377	3205.962	3203.719	3200.452	3199.354	3194.489	3185.825	3175.593	3173.103
15.0	3551.669	3547.468	3536.397	3541.306	3535.184	3521.478	3523.069	3516.533	3509.983	3501.213
17.5	3893.312	3890.930	3889.240	3887.264	3881.130	3875.810	3869.983	3854.144	3850.031	3836.737
20.0	4111.094	4111.975	4117.165	4127.590	4118.492	4105.993	4103.537	4104.454	4090.680	4087.847
22.5	4149.194	4150.443	4154.296	4145.742	4140.047	4136.856	4135.621	4140.214	4126.350	4120.823
25.0	4097.278	4091.856	4088.530	4085.397	4079.076	4069.764	4058.885	4052.638	4048.297	4041.345
27.5	4058.137	4057.685	4053.711	4046.400	4037.163	4027.137	4020.093	4011.741	3999.871	3988.121
30.0	4066.516	4061.510	4052.572	4042.023	4031.121	4025.374	4016.933	4005.296	3994.962	3984.491

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CANDELA TABULATION - (Cont.)

32.5	4102.475	4089.890	4078.047	4072.122	4065.222	4055.133	4043.593	4031.894	4020.216	4012.339
35.0	4165.441	4155.488	4143.987	4132.966	4120.694	4109.157	4103.017	4091.775	4082.397	4071.375
37.5	4219.730	4211.432	4206.560	4205.631	4194.143	4182.877	4171.656	4165.621	4160.689	4149.281
40.0	4263.562	4248.426	4234.698	4220.366	4212.521	4216.605	4221.718	4205.796	4191.406	4198.569
42.5	4146.602	4147.912	4162.190	4178.633	4163.090	4133.461	4126.555	4127.057	4162.930	4131.773
45.0	3984.891	3945.862	3911.453	3897.713	3891.447	3915.036	3928.814	3903.528	3883.622	3900.739
47.5	3497.428	3499.638	3514.570	3544.057	3518.122	3473.942	3459.138	3461.564	3481.389	3483.217
50.0	2938.211	2906.041	2901.515	2892.675	2903.083	2904.494	2905.936	2858.690	2856.732	2862.278
52.5	2284.148	2276.502	2261.080	2223.393	2197.989	2195.728	2195.946	2192.195	2181.973	2176.517
55.0	1629.073	1655.177	1662.642	1656.422	1630.562	1587.626	1532.072	1535.444	1549.841	1540.314
57.5	1002.634	1057.177	1100.445	1136.292	1153.844	1157.911	1133.115	1094.198	1025.396	1037.175
60.0	823.414	794.714	762.223	737.427	732.773	784.694	809.316	808.176	779.614	773.990
62.5	670.575	653.973	636.387	620.470	607.390	594.552	582.086	578.414	594.474	600.610
65.0	525.483	522.216	517.954	511.992	506.099	497.860	487.009	476.541	467.052	456.592
67.5	397.441	398.532	406.207	409.913	409.892	404.153	394.925	387.208	380.158	374.167
70.0	327.258	326.535	327.017	326.402	324.939	315.275	305.605	301.747	297.570	297.340
72.5	256.899	255.164	255.359	254.499	253.273	246.089	237.943	231.019	223.939	222.330
75.0	186.411	183.961	183.844	183.302	182.625	179.925	175.661	170.273	166.289	166.734
77.5	130.517	125.003	120.746	116.216	114.212	116.306	114.849	111.165	110.631	113.224
80.0	92.371	89.140	86.561	83.781	81.729	80.252	75.270	68.485	65.485	64.420
82.5	54.810	53.726	52.898	51.936	51.455	51.198	48.100	44.067	43.205	43.016
85.0	17.659	18.628	19.602	20.507	21.501	22.506	21.795	20.649	21.294	22.036
87.5	5.935	6.064	6.210	6.377	6.565	6.778	6.330	5.848	6.082	6.365
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	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409
2.5	2667.009	2666.869	2666.674	2666.424	2666.123	2665.770	2665.007	2665.044	2664.846	2664.615
5.0	2701.124	2698.802	2699.703	2699.914	2699.882	2699.609	2699.103	2698.370	2697.419	2696.258
7.5	2781.321	2781.671	2781.156	2779.787	2777.581	2774.558	2770.745	2767.660	2765.097	2766.895
10.0	2932.948	2931.077	2927.079	2920.987	2910.789	2909.738	2903.112	2905.544	2902.202	2895.782
12.5	3171.294	3165.731	3156.440	3148.202	3142.193	3127.567	3125.607	3117.718	3115.379	3110.524
15.0	3489.937	3475.976	3463.584	3452.250	3437.456	3421.201	3420.622	3412.590	3400.599	3393.035
17.5	3824.962	3816.314	3806.743	3797.364	3777.438	3771.329	3757.056	3743.906	3734.606	3723.373
20.0	4089.198	4068.938	4054.945	4050.277	4034.720	4013.529	3999.071	3985.917	3975.152	3973.185
22.5	4122.847	4103.805	4094.020	4084.372	4081.174	4074.079	4057.953	4047.334	4032.958	4024.756
25.0	4031.211	4023.583	4014.906	4009.868	4002.010	3992.407	3985.752	3983.736	3980.981	3973.343
27.5	3981.992	3971.585	3958.703	3951.684	3947.536	3942.320	3934.125	3922.627	3915.689	3913.339
30.0	3970.009	3962.574	3957.524	3949.300	3940.844	3935.908	3931.157	3924.165	3915.839	3908.023
32.5	4002.619	3993.156	3986.396	3982.244	3976.935	3967.551	3955.565	3953.158	3948.366	3942.114
35.0	4064.629	4058.278	4051.272	4041.571	4031.090	4025.263	4018.801	4012.467	4003.752	3993.385
37.5	4142.418	4137.755	4119.897	4108.627	4098.221	4088.791	4074.641	4062.568	4055.839	4050.805
40.0	4191.434	4165.007	4159.275	4153.407	4126.147	4100.832	4091.002	4088.411	4092.041	4082.034
42.5	4115.804	4132.664	4101.979	4070.494	4056.770	4057.732	4047.769	4013.761	3995.977	3992.948
45.0	3955.083	3899.902	3882.755	3886.347	3879.381	3831.712	3806.957	3803.181	3826.923	3864.029
47.5	3470.093	3507.282	3529.292	3488.094	3460.989	3441.785	3466.863	3477.656	3450.418	3450.323
50.0	2883.212	2906.210	2911.262	2915.615	2900.778	2930.059	2906.282	2902.847	2922.273	2969.342
52.5	2193.059	2206.294	2202.005	2217.356	2266.920	2253.119	2257.329	2270.652	2313.798	2338.079
55.0	1544.611	1562.448	1554.815	1558.138	1599.076	1604.327	1623.502	1680.278	1712.074	1713.002
57.5	1081.433	1063.406	1016.984	1028.359	1036.441	1097.552	1151.935	1181.011	1177.896	1143.950
60.0	756.945	749.581	697.457	572.232	642.405	751.226	795.195	778.682	735.407	744.749
62.5	594.390	571.096	522.984	479.875	474.831	514.527	552.919	514.743	534.682	587.186
65.0	463.974	458.314	434.301	431.609	430.945	431.724	440.126	437.105	443.195	459.429
67.5	376.603	379.490	376.705	371.874	371.032	375.185	372.311	371.243	369.407	373.660

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70.0	300.403	303.420	305.636	307.528	307.043	305.433	304.255	303.394	303.058	302.699
72.5	226.186	229.884	233.152	235.916	237.993	238.438	236.815	235.629	235.435	236.811
75.0	166.480	165.236	163.558	167.583	171.606	173.825	173.485	170.067	169.391	174.543
77.5	114.783	115.131	114.837	114.147	114.076	114.577	116.697	115.418	116.501	119.117
80.0	64.687	66.876	68.465	70.677	73.136	73.953	72.677	69.830	73.886	76.043
82.5	41.770	39.883	37.477	36.497	36.067	38.949	41.209	42.338	43.024	42.344
85.0	22.228	22.087	21.578	21.851	22.132	22.217	22.042	21.514	20.502	20.709
87.5	6.689	7.062	7.493	7.997	8.607	9.542	10.363	10.991	11.350	11.323
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	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409
2.5	2664.353	2664.063	2663.745	2663.403	2663.038	2662.653	2662.250	2661.832	2661.401	2660.959
5.0	2694.898	2692.454	2691.911	2690.491	2688.918	2687.209	2685.381	2684.389	2683.296	2682.104
7.5	2765.969	2764.310	2761.940	2758.963	2756.909	2754.256	2751.010	2748.418	2745.259	2741.448
10.0	2896.371	2894.665	2891.422	2886.708	2881.685	2878.280	2873.660	2869.277	2863.724	2859.224
12.5	3103.177	3097.287	3093.415	3087.189	3078.661	3071.975	3064.089	3058.280	3051.291	3045.916
15.0	3386.272	3375.290	3365.626	3357.330	3345.451	3334.390	3324.451	3315.669	3307.055	3298.557
17.5	3714.612	3699.440	3693.705	3692.270	3690.726	3685.928	3677.768	3656.392	3636.133	3614.167
20.0	3969.503	3967.383	3951.634	3940.893	3939.412	3936.112	3925.864	3907.665	3888.440	3865.591
22.5	4018.510	4015.799	4012.588	4009.632	4006.742	4001.668	3995.796	3986.021	3970.246	3952.209
25.0	3965.828	3958.115	3950.612	3941.504	3934.582	3929.815	3922.278	3914.207	3902.385	3890.029
27.5	3909.107	3904.443	3899.824	3892.099	3884.660	3878.719	3873.146	3864.167	3852.515	3839.167
30.0	3897.995	3889.484	3882.948	3875.503	3867.589	3860.715	3855.394	3845.858	3833.976	3819.451
32.5	3935.024	3924.691	3913.279	3902.215	3892.285	3884.350	3875.567	3867.808	3858.577	3845.491
35.0	3984.499	3976.585	3967.996	3961.934	3956.408	3951.885	3944.632	3935.159	3921.818	3904.719
37.5	4045.487	4042.361	4038.210	4035.610	4033.067	4030.884	4025.920	4014.356	3998.100	3978.666
40.0	4062.688	4049.180	4041.187	4035.585	4032.497	4031.800	4029.148	4018.288	4003.881	3986.491
42.5	3997.616	4003.742	4012.143	4018.895	4023.745	4030.393	4032.376	4021.060	4003.624	3980.654
45.0	3843.430	3824.577	3815.028	3813.943	3815.513	3822.113	3827.960	3819.269	3809.548	3799.508
47.5	3467.303	3494.414	3523.065	3555.191	3583.146	3607.898	3623.544	3612.988	3595.599	3572.350
50.0	3017.309	3004.946	2980.550	2958.734	2938.710	2933.655	2940.722	2944.740	2961.993	2992.633
52.5	2339.709	2322.559	2294.898	2268.220	2251.097	2246.980	2257.901	2264.869	2284.671	2314.039
55.0	1690.363	1655.546	1612.885	1579.478	1565.211	1559.898	1575.079	1585.486	1607.570	1637.593
57.5	1083.090	1084.354	1148.216	1196.685	1236.691	1264.673	1287.282	1286.233	1274.786	1248.378
60.0	809.400	866.058	913.551	945.059	968.804	984.209	999.487	1000.238	996.760	981.688
62.5	635.577	674.844	697.471	707.351	708.191	706.407	711.690	715.522	724.126	727.664
65.0	492.251	509.905	507.828	488.620	458.880	431.957	423.894	432.402	460.062	493.055
67.5	382.053	380.420	368.277	365.143	360.930	357.598	358.804	358.108	360.056	364.092
70.0	303.897	304.781	304.478	301.099	296.822	293.325	293.714	294.369	297.737	301.229
72.5	239.907	241.348	240.120	237.420	232.160	228.860	228.623	230.437	235.879	238.255
75.0	178.110	179.579	178.253	174.396	169.336	164.142	163.533	166.504	174.302	179.038
77.5	120.605	120.566	119.222	117.766	123.200	123.578	124.802	126.910	126.836	123.929
80.0	74.894	70.762	71.874	81.520	85.706	86.345	86.070	89.138	89.688	85.091
82.5	41.699	40.058	42.896	47.039	51.125	49.508	47.339	51.049	53.615	50.648
85.0	20.522	21.162	22.864	23.979	22.702	15.937	8.607	16.317	24.036	26.464
87.5	10.715	10.567	10.598	11.385	9.951	6.085	4.304	6.085	10.225	12.228
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	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409
2.5	2660.509	2660.054	2659.596	2659.138	2658.680	2658.075	2657.734	2657.209	2656.685	2656.162

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CANDELA TABULATION - (Cont.)

5.0	2680.816	2679.521	2678.254	2676.883	2675.406	2673.824	2672.138	2670.348	2668.456	2666.464
7.5	2738.789	2735.540	2731.740	2727.398	2720.717	2718.395	2715.507	2712.717	2709.527	2705.936
10.0	2854.364	2848.306	2841.051	2832.907	2826.742	2819.057	2806.212	2802.396	2795.942	2794.141
12.5	3038.430	3028.829	3020.475	3012.926	3003.187	2991.265	2982.977	2968.467	2967.653	2959.896
15.0	3287.030	3276.870	3268.103	3256.110	3244.665	3236.559	3225.776	3213.188	3206.644	3201.261
17.5	3591.909	3573.227	3565.649	3550.622	3536.546	3519.653	3506.752	3493.582	3470.769	3471.282
20.0	3851.824	3842.470	3819.559	3796.740	3774.840	3758.018	3744.617	3735.219	3731.817	3723.339
22.5	3931.427	3910.621	3889.208	3870.334	3855.571	3845.106	3835.428	3831.704	3820.678	3802.692
25.0	3876.478	3863.073	3850.242	3840.335	3830.315	3815.176	3798.466	3780.855	3768.231	3755.649
27.5	3824.957	3810.573	3797.204	3784.594	3769.655	3757.775	3749.408	3735.917	3718.565	3700.766
30.0	3805.194	3791.408	3779.962	3771.943	3762.172	3752.286	3739.059	3721.550	3706.166	3691.006
32.5	3832.949	3821.640	3810.357	3797.597	3784.179	3768.391	3749.086	3735.599	3721.310	3703.561
35.0	3885.644	3870.586	3854.180	3837.851	3825.219	3812.354	3795.380	3777.161	3756.279	3735.715
37.5	3957.493	3937.793	3917.152	3896.603	3879.895	3862.070	3846.782	3832.532	3814.826	3793.686
40.0	3970.569	3956.049	3944.178	3940.009	3929.810	3907.221	3887.336	3870.773	3861.784	3859.137
42.5	3958.555	3931.780	3907.340	3888.662	3877.265	3878.518	3893.054	3883.290	3863.972	3854.444
45.0	3791.898	3787.948	3796.194	3811.030	3774.726	3745.261	3736.408	3749.560	3789.146	3783.892
47.5	3541.553	3508.477	3484.255	3474.274	3480.795	3510.091	3497.194	3467.029	3481.965	3513.945
50.0	3024.144	3061.469	3102.650	3078.789	3040.145	3013.628	3016.721	3056.336	3033.630	3053.734
52.5	2348.539	2388.419	2432.506	2467.127	2472.448	2435.843	2410.582	2411.404	2444.713	2410.293
55.0	1674.393	1722.468	1776.037	1820.543	1830.174	1798.625	1760.285	1744.480	1745.044	1724.980
57.5	1202.906	1141.941	1144.004	1212.936	1211.965	1237.986	1232.041	1178.847	1116.094	1115.708
60.0	951.984	907.453	848.031	730.466	707.759	797.019	827.356	783.627	660.174	583.658
62.5	721.078	697.806	643.764	552.092	519.962	500.705	553.287	513.068	469.800	476.842
65.0	516.043	519.311	467.830	448.487	434.206	427.800	429.572	423.446	425.048	429.016
67.5	364.399	376.571	375.289	369.502	365.278	366.044	365.920	367.795	368.754	372.779
70.0	303.089	303.964	304.151	303.725	303.384	303.119	304.171	306.993	311.188	314.036
72.5	242.156	242.946	243.321	242.151	241.603	241.812	244.101	247.418	248.770	249.034
75.0	181.960	183.543	184.045	183.058	180.449	181.793	185.419	187.271	187.649	186.904
77.5	123.565	126.867	128.502	129.185	128.342	128.384	130.874	131.308	132.142	132.548
80.0	77.752	77.607	83.151	85.288	84.580	82.108	85.025	86.524	86.045	84.019
82.5	47.722	45.462	47.842	49.443	50.299	49.436	48.211	46.318	43.992	45.211
85.0	25.749	24.254	23.824	24.059	23.717	24.935	25.835	26.680	27.053	27.068
87.5	11.638	11.634	11.743	12.600	12.948	12.957	12.715	11.848	10.739	9.997
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	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409
2.5	2655.641	2655.124	2654.611	2654.103	2653.602	2653.108	2652.622	2652.145	2651.679	2651.223
5.0	2664.374	2662.291	2660.341	2658.239	2655.986	2653.588	2651.049	2647.821	2646.957	2645.921
7.5	2701.944	2697.554	2692.768	2688.620	2685.912	2681.061	2680.555	2678.664	2676.336	2673.585
10.0	2790.742	2785.721	2779.061	2770.758	2760.421	2763.793	2764.191	2763.181	2760.784	2757.027
12.5	2955.032	2951.702	2945.540	2936.542	2932.597	2927.078	2924.234	2918.674	2910.443	2906.521
15.0	3193.598	3186.718	3180.611	3172.326	3165.777	3157.870	3149.956	3135.181	3133.674	3125.513
17.5	3462.433	3451.710	3443.424	3437.053	3428.620	3416.814	3404.804	3396.454	3387.535	3376.658
20.0	3704.508	3693.170	3687.231	3674.356	3663.590	3658.293	3642.561	3625.632	3613.485	3601.529
22.5	3791.060	3783.273	3787.076	3763.806	3752.689	3756.628	3730.599	3715.455	3704.579	3696.551
25.0	3741.827	3726.201	3710.684	3701.366	3689.913	3677.064	3669.810	3663.689	3651.659	3637.721
27.5	3685.094	3673.630	3660.292	3642.726	3633.261	3625.864	3615.199	3601.300	3594.442	3587.102
30.0	3675.784	3659.712	3644.726	3632.385	3618.941	3605.710	3595.525	3586.165	3576.796	3569.156
32.5	3683.833	3665.212	3649.885	3633.632	3615.302	3601.286	3589.941	3580.327	3571.756	3561.786
35.0	3718.246	3698.633	3675.734	3652.107	3638.320	3619.509	3604.953	3591.427	3590.193	3590.139
37.5	3774.331	3754.575	3734.978	3714.545	3691.222	3674.538	3661.890	3655.097	3648.938	3641.947
40.0	3838.197	3818.266	3804.419	3786.157	3766.764	3754.791	3742.844	3728.738	3724.206	3723.708

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42.5	3860.982	3862.075	3830.786	3822.365	3824.565	3790.394	3784.216	3782.883	3792.711	3790.437
45.0	3765.142	3768.183	3802.487	3743.080	3724.858	3742.302	3756.339	3738.443	3713.020	3715.886
47.5	3560.663	3523.351	3480.747	3502.409	3498.919	3476.334	3477.646	3495.135	3543.759	3565.078
50.0	3045.783	3050.674	3020.579	3000.761	3009.331	3019.414	3089.900	3071.972	3058.589	3044.389
52.5	2386.915	2391.504	2384.804	2374.359	2406.719	2412.664	2410.296	2420.791	2429.903	2465.491
55.0	1725.432	1727.426	1717.527	1717.244	1727.809	1728.459	1733.096	1794.093	1826.603	1837.695
57.5	1117.166	1172.644	1188.668	1143.275	1139.732	1220.877	1262.983	1284.816	1278.671	1251.052
60.0	734.173	791.667	801.097	829.658	839.510	870.148	864.705	833.129	779.236	793.746
62.5	527.334	585.363	613.523	624.312	615.946	590.594	593.000	609.687	637.985	662.292
65.0	434.002	463.151	470.203	461.895	475.875	488.947	501.382	513.498	529.690	542.730
67.5	379.075	383.403	383.618	383.045	392.264	403.120	413.308	423.190	430.774	432.273
70.0	314.378	314.602	313.598	311.251	312.923	321.138	328.501	337.678	346.453	346.599
72.5	248.804	248.293	246.807	241.982	241.471	251.141	260.186	268.325	275.625	275.290
75.0	185.210	187.198	188.523	186.744	184.741	189.702	196.382	201.506	205.296	204.784
77.5	133.158	133.708	134.027	132.314	129.460	130.433	134.504	136.834	136.864	137.933
80.0	82.378	81.753	80.881	81.463	82.499	85.183	91.129	95.925	98.733	100.499
82.5	46.925	50.177	52.739	54.384	54.425	55.040	58.431	61.221	62.637	63.400
85.0	26.989	27.736	27.993	27.795	26.779	25.843	26.555	26.973	26.947	26.533
87.5	9.367	8.827	8.361	7.957	7.603	7.307	7.734	8.146	8.618	8.927
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	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409	2657.409
2.5	2650.779	2650.348	2649.809	2649.526	2649.137	2648.764	2648.408	2648.069	2647.747	2647.444
5.0	2644.850	2643.749	2642.623	2641.480	2640.325	2639.165	2638.009	2636.525	2635.605	2635.142
7.5	2670.424	2666.870	2662.942	2660.681	2659.861	2660.355	2660.314	2659.764	2658.733	2657.464
10.0	2752.186	2750.714	2749.645	2749.254	2747.665	2744.983	2745.592	2745.307	2744.128	2742.059
12.5	2903.144	2899.905	2896.987	2895.351	2894.663	2891.586	2886.246	2884.281	2884.437	2883.125
15.0	3115.389	3108.111	3107.132	3103.595	3094.307	3092.769	3085.929	3076.488	3073.597	3072.936
17.5	3365.073	3353.843	3341.220	3332.934	3326.873	3318.267	3316.327	3302.187	3290.806	3291.077
20.0	3580.965	3562.196	3552.661	3540.575	3531.212	3524.711	3514.609	3506.932	3491.248	3482.285
22.5	3687.505	3660.045	3638.257	3617.762	3600.928	3590.586	3585.968	3584.042	3582.449	3582.041
25.0	3619.768	3603.906	3597.347	3588.768	3577.686	3566.231	3557.733	3551.181	3545.515	3541.186
27.5	3578.675	3569.368	3559.415	3547.566	3537.187	3530.824	3524.948	3521.957	3519.040	3516.411
30.0	3561.437	3552.871	3546.040	3540.437	3531.620	3524.085	3520.641	3518.556	3515.948	3513.897
32.5	3553.505	3552.626	3551.676	3552.098	3550.129	3544.947	3541.642	3538.512	3534.794	3534.001
35.0	3588.176	3587.934	3585.440	3581.639	3582.065	3580.703	3579.186	3580.504	3581.888	3585.653
37.5	3641.686	3644.641	3647.654	3647.438	3645.961	3642.715	3636.512	3639.574	3643.386	3649.453
40.0	3724.718	3723.559	3722.586	3715.140	3706.074	3699.687	3692.988	3691.935	3695.146	3700.839
42.5	3772.521	3761.950	3758.052	3752.233	3749.903	3747.478	3744.067	3742.141	3744.522	3751.889
45.0	3728.504	3756.326	3775.361	3757.584	3719.072	3693.764	3676.209	3665.852	3663.934	3670.066
47.5	3522.252	3502.456	3494.032	3500.137	3502.892	3510.013	3520.978	3534.595	3550.769	3570.863
50.0	3060.034	3076.242	3124.504	3169.985	3134.856	3095.572	3059.101	3031.718	3008.158	2998.558
52.5	2483.945	2481.471	2473.318	2461.006	2444.617	2422.615	2400.898	2387.086	2374.448	2372.637
55.0	1833.035	1819.495	1788.846	1767.371	1752.709	1743.631	1738.885	1737.887	1739.817	1744.412
57.5	1210.811	1171.112	1124.617	1157.562	1211.747	1268.205	1317.523	1351.612	1381.797	1399.013
60.0	828.380	872.993	911.282	943.765	977.843	1016.139	1044.750	1062.268	1080.293	1085.410
62.5	683.739	706.934	728.024	742.173	754.888	767.222	776.738	778.977	780.754	774.557
65.0	549.724	553.463	555.648	550.284	541.219	529.795	515.573	498.629	482.997	466.154
67.5	425.291	409.721	407.826	405.434	402.555	399.471	397.764	394.403	392.575	389.103
70.0	345.773	344.732	344.606	344.258	342.777	339.727	339.305	336.285	334.051	330.754
72.5	275.202	277.864	280.760	282.795	282.972	280.023	280.307	278.573	275.422	272.380
75.0	203.510	210.079	216.404	221.096	223.139	220.350	220.871	221.183	216.710	214.000
77.5	139.366	150.259	159.994	166.636	169.965	168.177	168.407	170.013	165.970	163.794

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80.0	101.017	107.343	113.875	118.242	120.041	118.623	118.097	119.441	116.095	113.979
82.5	62.971	65.443	68.417	70.163	70.417	69.123	68.139	68.566	66.302	64.135
85.0	25.136	24.261	23.422	22.303	20.988	19.623	18.427	17.476	15.062	13.417
87.5	8.694	8.489	8.308	8.151	8.014	7.896	7.796	7.714	7.647	6.778
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	2657.409	2657.409	2657.409
2.5	2647.159	2646.895	2646.650
5.0	2634.676	2634.208	2633.739
7.5	2658.501	2659.205	2659.561
10.0	2741.101	2743.792	2745.631
12.5	2879.391	2884.993	2889.798
15.0	3074.321	3073.584	3079.151
17.5	3288.883	3287.577	3290.453
20.0	3478.457	3472.829	3462.880
22.5	3586.773	3584.812	3584.812
25.0	3539.252	3538.581	3539.984
27.5	3515.307	3515.420	3517.493
30.0	3513.113	3514.060	3515.418
32.5	3534.759	3536.658	3535.591
35.0	3591.485	3595.123	3593.180
37.5	3659.401	3663.866	3660.123
40.0	3708.024	3711.668	3709.614
42.5	3756.567	3760.514	3759.104
45.0	3681.091	3686.188	3687.021
47.5	3597.397	3610.064	3614.937
50.0	2999.855	2997.944	2999.537
52.5	2379.504	2378.913	2384.137
55.0	1759.633	1753.367	1768.737
57.5	1422.700	1428.015	1436.829
60.0	1098.518	1099.511	1104.923
62.5	774.940	771.200	773.015
65.0	441.108	440.318	441.108
67.5	383.567	381.319	383.549
70.0	324.106	321.729	325.990
72.5	264.703	262.060	268.430
75.0	204.049	202.002	210.871
77.5	156.642	153.128	158.691
80.0	108.148	104.046	106.512
82.5	59.629	55.008	54.332
85.0	10.718	5.907	2.152
87.5	5.395	2.960	1.076
90.0	0.000	0.000	0.000

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

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1224.25	N.A.	11.50
0-30	3011.73	N.A.	28.30
0-40	5463.52	N.A.	51.30
0-60	9892.5	N.A.	92.90
0-80	10614.95	N.A.	99.70
0-90	10649.04	N.A.	100.00
10-90	10387.75	N.A.	97.50
20-40	4239.27	N.A.	39.80
20-50	7095.17	N.A.	66.60
40-70	4946.58	N.A.	46.50
60-80	722.45	N.A.	6.80
70-80	204.85	N.A.	1.90
80-90	34.09	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	10649.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	261.28
10-20	962.97
20-30	1787.48
30-40	2451.8
40-50	2855.9
50-60	1573.08
60-70	517.60
70-80	204.85
80-90	34.09
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-WF_.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	144	144	144	144	141	141	141	141	134	134	134	129	129	129	123	123	123	121
1	134	129	125	121	131	127	123	119	122	118	115	117	114	112	113	111	109	106
2	123	115	108	102	120	113	106	101	109	103	98	105	100	96	101	97	94	92
3	113	102	93	86	111	100	92	86	97	90	84	94	88	83	91	86	81	79
4	104	91	81	74	102	90	81	74	87	79	73	84	77	72	81	76	71	68
5	96	82	72	64	94	80	71	64	78	69	63	76	68	62	73	67	62	59
6	89	73	63	56	86	72	63	56	70	62	55	68	61	55	66	60	54	52
7	82	66	56	49	80	65	56	49	64	55	49	62	54	48	60	53	48	46
8	76	60	50	44	74	59	50	43	58	49	43	56	49	43	55	48	43	40
9	71	55	45	39	69	54	45	39	53	44	39	52	44	38	50	43	38	36
10	66	50	41	35	65	50	41	35	49	40	35	48	40	34	46	39	34	32

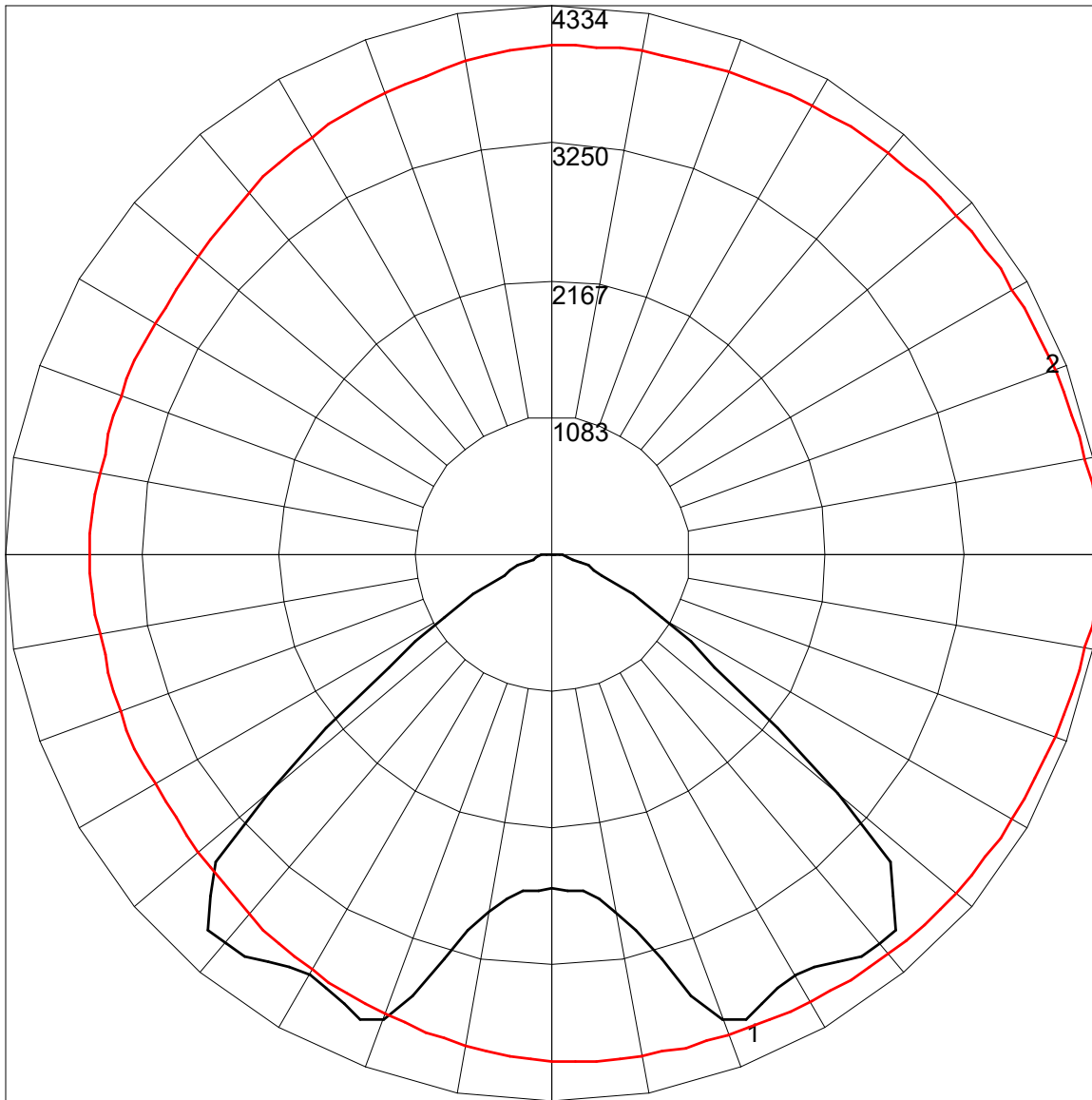
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VF2-L106-750-WF_.IES

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	22.1	23.6	22.4	23.9	24.2	7.6	7.6	7.6	7.6	7.6
	3H	22.9	24.2	23.3	24.5	24.9	7.6	7.6	7.6	7.6	7.6
	4H	23.2	24.4	23.6	24.8	25.1	7.6	7.6	7.6	7.6	7.6
	6H	23.4	24.5	23.8	24.9	25.3	7.6	7.6	7.6	7.6	7.6
	8H	23.4	24.5	23.8	24.8	25.2	7.6	7.6	7.6	7.6	7.6
	12H	23.3	24.4	23.8	24.8	25.2	7.6	7.6	7.6	7.6	7.6
4H	2H	22.0	23.2	22.4	23.6	24.0	10.3	11.6	10.7	11.9	12.3
	3H	23.0	24.0	23.4	24.4	24.8	10.9	11.9	11.3	12.3	12.7
	4H	23.3	24.2	23.8	24.6	25.1	10.9	11.8	11.4	12.2	12.7
	6H	23.6	24.4	24.0	24.8	25.3	10.9	11.7	11.4	12.2	12.6
	8H	23.6	24.4	24.1	24.8	25.3	10.9	11.7	11.4	12.1	12.6
	12H	23.6	24.3	24.1	24.7	25.2	10.9	11.6	11.4	12.1	12.5
8H	4H	23.2	24.0	23.7	24.4	24.9	12.4	13.2	12.9	13.6	14.1
	6H	23.5	24.1	24.0	24.6	25.1	12.5	13.1	13.0	13.6	14.1
	8H	23.6	24.1	24.1	24.6	25.1	12.5	13.1	13.0	13.6	14.1
	12H	23.6	24.1	24.1	24.6	25.1	12.6	13.0	13.1	13.5	14.1
12H	4H	23.2	23.9	23.7	24.3	24.8	12.7	13.3	13.1	13.8	14.3
	6H	23.5	24.0	24.0	24.5	25.0	12.8	13.4	13.3	13.8	14.4
	8H	23.5	24.0	24.1	24.5	25.1	12.9	13.4	13.4	13.8	14.4

Maximum UGR = 25.3

POLAR GRAPH



Maximum Candela = 4333.62 Located At Horizontal Angle = 0, Vertical Angle = 37.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (37.5) (Through Max. Cd.)