



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ATAL009605-R2
[TESTLAB]ATAL-LABS
[ISSUE DATE]30 NOV 2022
[MANUFACTURER]WILLIAMS OUTDOOR
[OTHER]H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMEN CATEGORY]VF2-L106-750-VF-MTG-CLR-OPT-DIM-UNV
[LUMINAIRE]VOLTAIRE MEDIUM ARCHITECTURAL FLOOD LIGHT WITH
[MORE]VERTICAL FLOOD MOLDED REFRACTIVE CLEAR ACRYLIC LENS AND A
[MORE]CLEAR GLASS LENS.
[LAMP CATEGORY]LUXEON TX 5000K LEDS
[BALLAST](1) PHILIPS ELECTRONIC DRIVER
[OTHER]INPUT WATTS: 98, VAC: 120.05, TEMP: 25.6 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	9994
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	98
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.62
Spacing Criterion (90-270)	1.50
Spacing Criterion (Diagonal)	1.48
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	105411	212211	99760
55	33546	65456	39012
65	27201	35186	30837
75	19951	19157	19951
85	0	7493	2821

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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	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344
2.5	3445.199	3443.378	3442.665	3443.066	3444.585	3447.225	3450.984	3455.860	3461.848	3468.941
5.0	2936.960	2934.188	2933.261	2934.161	2936.867	2942.759	2957.719	2973.041	2990.080	3008.805
7.5	2716.264	2716.836	2717.482	2718.159	2725.417	2733.110	2740.666	2748.036	2755.239	2768.195
10.0	2756.583	2759.764	2761.897	2769.413	2778.580	2786.431	2792.891	2797.889	2813.561	2827.526
12.5	2938.552	2945.009	2948.287	2964.493	2975.702	2984.637	2998.578	3020.576	3039.430	3054.985
15.0	3166.145	3174.495	3187.720	3207.114	3223.522	3245.178	3279.956	3310.630	3330.895	3375.717
17.5	3388.539	3392.318	3413.886	3442.854	3469.067	3521.499	3569.696	3619.464	3683.601	3740.625
20.0	3606.477	3611.984	3639.958	3670.118	3716.654	3776.065	3835.641	3930.083	4009.960	4088.694
22.5	3855.821	3862.017	3889.743	3915.359	3974.366	4036.900	4113.004	4194.455	4279.295	4367.089
25.0	3938.936	3946.730	3975.227	4006.601	4066.529	4135.198	4226.880	4325.340	4434.883	4540.134
27.5	4013.765	4021.190	4043.391	4077.005	4128.690	4204.276	4292.187	4403.020	4507.118	4627.793
30.0	4200.129	4201.372	4209.272	4228.500	4254.811	4321.408	4395.993	4501.364	4635.401	4765.675
32.5	4556.904	4554.155	4553.179	4562.417	4585.047	4639.507	4715.361	4803.456	4911.884	5035.139
35.0	4536.774	4541.210	4541.315	4561.398	4606.416	4681.667	4799.689	4959.288	5152.616	5368.682
37.5	4422.417	4429.681	4415.005	4420.107	4440.404	4488.149	4568.296	4747.722	4978.583	5256.451
40.0	4012.856	4022.264	4015.248	4019.454	4047.796	4101.615	4215.059	4415.719	4705.739	5097.996
42.5	3603.294	3611.709	3600.178	3588.129	3606.546	3635.271	3749.299	3932.025	4176.193	4515.198
45.0	2573.024	2605.140	2616.554	2640.092	2710.605	2784.349	2958.010	3165.957	3443.397	3808.804
47.5	1542.753	1592.616	1607.422	1638.857	1715.859	1796.361	1944.239	2084.952	2302.089	2595.356
50.0	1249.906	1279.597	1275.257	1277.546	1298.380	1317.881	1351.065	1355.524	1377.197	1405.283
52.5	957.058	974.443	975.533	984.852	1004.847	1030.059	1057.963	1080.070	1113.331	1168.468
55.0	664.211	669.459	677.368	691.363	713.268	739.944	771.718	809.731	855.201	919.184
57.5	597.365	598.864	600.137	602.858	608.456	612.818	622.241	638.026	660.839	688.301
60.0	530.520	530.721	532.374	535.216	539.867	542.251	550.050	562.117	581.212	603.647
62.5	463.675	462.600	464.652	467.530	470.963	471.474	476.937	485.353	499.000	515.889
65.0	396.829	394.497	396.969	399.803	401.827	400.374	402.534	406.422	414.360	425.736
67.5	342.186	340.097	342.268	342.947	344.429	341.266	340.593	340.589	341.876	344.829
70.0	287.542	285.826	288.003	286.835	289.055	285.471	284.325	284.848	285.132	286.634
72.5	232.899	231.565	233.726	230.944	233.619	229.740	228.033	229.288	228.150	227.861
75.0	178.255	177.309	179.439	175.148	178.142	174.061	171.730	173.875	170.978	168.608
77.5	133.691	133.386	136.016	133.264	135.056	132.285	129.711	131.133	126.869	122.563
80.0	89.128	89.496	92.874	91.986	93.428	92.794	91.396	92.476	89.991	87.387
82.5	44.564	45.588	49.757	50.621	52.018	53.379	53.281	54.267	53.434	52.554
85.0	0.000	1.665	6.652	9.194	10.756	14.009	15.304	16.230	17.086	17.960
87.5	0.000	0.795	3.190	4.281	4.843	6.242	6.590	6.675	6.774	6.890
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	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344
2.5	3478.312	3492.521	3506.631	3521.675	3537.624	3554.450	3572.121	3590.604	3609.864	3629.864
5.0	3029.186	3051.186	3074.767	3099.887	3126.501	3153.836	3186.335	3218.701	3252.071	3286.382
7.5	2790.912	2817.307	2843.970	2870.801	2897.704	2924.593	2951.387	2975.852	3003.347	3034.131
10.0	2834.317	2855.750	2875.231	2895.857	2914.630	2931.293	2945.758	2957.955	2965.038	2991.793
12.5	3070.808	3086.084	3100.724	3115.071	3126.684	3137.042	3142.187	3142.021	3141.146	3151.097
15.0	3405.715	3428.556	3443.846	3473.750	3487.863	3486.736	3493.345	3485.043	3477.217	3466.871
17.5	3794.691	3847.693	3893.647	3926.717	3942.162	3949.678	3944.304	3906.450	3889.518	3853.205
20.0	4165.630	4227.302	4289.376	4334.595	4355.342	4345.739	4336.060	4305.231	4242.941	4177.831
22.5	4449.525	4519.404	4585.134	4604.695	4612.586	4595.598	4559.279	4518.317	4442.825	4370.561
25.0	4635.479	4717.658	4756.574	4785.099	4777.928	4759.409	4705.718	4635.512	4546.054	4435.018
27.5	4732.394	4818.189	4885.924	4924.539	4937.460	4912.148	4855.921	4769.681	4661.088	4530.790
30.0	4893.745	4998.612	5074.500	5117.732	5127.794	5127.473	5085.814	4996.450	4868.468	4727.167

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CANDELA TABULATION - (Cont.)

32.5	5160.301	5285.809	5401.007	5500.078	5567.372	5574.608	5491.587	5368.700	5235.906	5017.657
35.0	5542.772	5717.039	5889.333	6047.480	6176.754	6192.134	6128.255	5961.650	5667.682	5371.638
37.5	5578.967	5939.116	6309.905	6678.184	6744.539	6748.558	6649.391	6439.761	6186.739	5745.227
40.0	5517.062	5895.465	6256.424	6543.199	6770.238	6950.278	6914.407	6639.148	6258.298	5932.401
42.5	4939.073	5375.928	5834.863	6165.469	6353.415	6351.801	6358.777	6241.890	6141.503	5675.227
45.0	4181.442	4515.809	4798.157	5094.545	5300.154	5504.680	5529.702	5393.214	5179.950	4955.793
47.5	2950.957	3317.328	3615.744	3902.120	4120.886	4212.480	4260.026	4235.447	4116.560	3883.136
50.0	1639.883	1962.923	2282.641	2599.855	2859.561	2975.142	3006.757	2973.611	2892.196	2761.791
52.5	1262.528	1308.549	1366.249	1440.200	1663.483	1885.995	1987.709	1975.978	1884.914	1807.667
55.0	990.355	1047.159	1114.337	1174.846	1202.491	1212.603	1206.845	1297.862	1296.024	1192.610
57.5	725.161	792.131	860.784	919.660	966.490	986.917	994.414	961.356	911.045	894.730
60.0	628.850	655.376	683.058	711.729	744.738	786.174	800.890	782.168	751.396	736.238
62.5	536.575	558.465	582.454	608.782	629.521	649.223	642.691	631.551	624.674	615.016
65.0	441.546	459.291	479.866	502.989	521.400	535.504	528.566	520.161	513.323	506.366
67.5	350.361	358.040	375.432	394.712	413.635	422.262	420.309	416.151	411.102	405.305
70.0	290.035	295.028	302.052	310.654	320.422	318.205	317.393	315.523	312.600	311.343
72.5	229.000	231.589	235.875	243.219	251.406	249.599	246.410	237.520	227.560	225.679
75.0	167.369	167.351	168.725	175.519	181.753	183.151	181.811	176.095	171.159	171.100
77.5	118.138	113.772	109.830	111.158	113.691	118.500	119.484	117.251	116.710	118.453
80.0	84.206	81.639	80.063	81.401	81.958	81.947	78.811	74.145	71.598	70.046
82.5	50.600	50.026	50.344	51.686	52.178	52.311	50.296	47.614	46.844	46.396
85.0	17.230	18.770	20.653	21.994	22.509	22.792	22.435	21.834	22.545	23.271
87.5	6.058	6.653	7.349	7.546	7.205	6.697	6.243	5.768	5.998	6.277
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	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344
2.5	3650.567	3671.933	3693.922	3716.490	3739.594	3763.190	3800.697	3811.446	3835.698	3860.244
5.0	3321.570	3366.849	3400.093	3445.859	3492.594	3540.213	3588.627	3637.750	3687.491	3737.759
7.5	3069.429	3120.228	3171.406	3222.904	3274.670	3326.664	3378.854	3438.283	3509.433	3581.881
10.0	3022.465	3051.202	3077.998	3102.873	3127.390	3185.896	3248.222	3312.500	3374.519	3440.736
12.5	3157.215	3158.250	3154.266	3161.513	3183.686	3198.397	3215.327	3242.831	3308.148	3371.302
15.0	3443.712	3414.745	3391.887	3375.186	3352.619	3313.029	3313.970	3311.673	3307.091	3342.351
17.5	3796.561	3731.318	3673.090	3610.803	3542.378	3494.138	3440.140	3390.090	3371.527	3348.927
20.0	4107.770	4020.999	3932.864	3837.617	3753.445	3652.272	3560.811	3485.183	3401.925	3372.052
22.5	4300.505	4181.709	4073.316	3962.077	3850.354	3733.455	3619.100	3512.257	3430.525	3347.572
25.0	4318.754	4211.556	4077.753	3952.113	3827.403	3703.219	3589.326	3490.343	3397.281	3337.272
27.5	4393.697	4241.794	4083.990	3938.586	3802.068	3673.853	3551.224	3440.666	3367.144	3321.665
30.0	4559.070	4370.732	4200.783	4024.423	3858.839	3711.322	3595.293	3499.420	3427.911	3389.677
32.5	4784.452	4578.111	4352.698	4145.458	3964.095	3803.750	3659.423	3562.241	3491.661	3452.247
35.0	5078.586	4761.386	4485.592	4253.244	4025.374	3847.550	3701.534	3592.689	3529.490	3494.840
37.5	5330.585	4960.573	4595.377	4269.622	4032.838	3826.715	3663.349	3528.638	3441.349	3395.539
40.0	5515.296	5016.635	4601.189	4261.067	3919.044	3666.727	3478.939	3360.126	3290.189	3234.412
42.5	5234.456	4876.263	4399.417	3960.775	3620.562	3369.934	3188.518	3018.743	2898.935	2827.221
45.0	4717.718	4209.566	3791.253	3419.853	3103.282	2858.830	2656.732	2508.512	2417.109	2374.958
47.5	3594.919	3270.862	2872.713	2624.112	2418.526	2188.067	2020.212	1923.587	1848.299	1783.429
50.0	2530.251	2200.221	2026.762	1802.433	1599.361	1469.671	1440.863	1364.313	1267.395	1191.428
52.5	1623.258	1530.841	1364.352	1120.880	1005.819	1046.406	1007.202	886.448	850.481	888.457
55.0	1122.518	1070.254	913.483	841.417	826.763	787.171	742.157	727.116	716.759	722.129
57.5	876.128	806.809	749.330	718.585	694.447	671.141	649.905	630.931	613.549	597.264
60.0	715.886	682.042	640.660	597.627	584.258	579.190	562.503	540.997	519.883	511.147
62.5	598.700	572.805	541.566	514.199	500.087	488.917	475.833	455.648	456.199	457.009
65.0	491.809	469.689	447.006	439.981	429.862	415.155	402.278	399.659	399.959	402.381
67.5	394.698	378.605	372.113	366.146	357.875	347.699	344.572	343.751	343.457	345.859

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70.0	307.303	301.115	299.699	297.259	291.671	287.364	285.682	284.791	285.476	288.088
72.5	229.444	230.284	230.444	229.391	228.292	228.732	226.840	225.365	225.290	228.424
75.0	170.453	168.073	164.910	165.788	168.281	170.016	169.889	167.522	166.766	171.906
77.5	119.360	118.985	117.675	115.810	115.477	115.700	117.388	116.556	118.238	121.421
80.0	70.133	72.068	73.146	74.467	76.113	76.509	75.307	73.054	77.025	79.784
82.5	45.380	43.918	42.007	40.928	40.055	41.983	43.538	44.550	45.528	45.543
85.0	23.673	23.806	23.618	23.865	23.996	23.836	23.290	22.558	21.329	21.534
87.5	6.597	6.964	7.390	7.886	8.488	9.540	10.414	11.083	11.442	11.352
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	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344
2.5	3885.036	3910.026	3935.163	3960.399	3985.683	4010.966	4036.199	4058.899	4081.456	4103.829
5.0	3788.464	3859.414	3890.126	3940.439	3990.812	4041.153	4091.372	4137.663	4183.639	4229.197
7.5	3654.381	3727.258	3800.477	3874.002	3947.789	4021.856	4096.147	4162.926	4229.830	4299.970
10.0	3521.624	3609.701	3697.759	3785.882	3874.724	3965.356	4056.358	4137.965	4220.051	4292.285
12.5	3432.579	3510.806	3609.478	3708.094	3806.754	3909.458	4013.386	4109.389	4202.597	4283.368
15.0	3401.230	3458.617	3537.989	3638.401	3738.118	3847.068	3966.169	4080.155	4184.877	4280.483
17.5	3353.609	3394.056	3431.439	3529.227	3639.931	3756.509	3888.077	4015.152	4133.928	4250.108
20.0	3338.446	3342.639	3372.644	3427.350	3536.205	3647.532	3780.488	3938.148	4062.202	4200.054
22.5	3314.160	3280.112	3295.133	3318.597	3396.641	3485.799	3616.026	3776.284	3955.264	4135.974
25.0	3285.713	3267.103	3267.292	3298.965	3365.248	3455.803	3589.500	3768.847	3978.817	4200.344
27.5	3303.702	3301.563	3316.172	3361.106	3425.648	3524.567	3663.015	3861.928	4096.160	4347.965
30.0	3371.519	3377.399	3410.208	3458.452	3523.270	3630.604	3774.121	3986.556	4240.195	4514.061
32.5	3448.718	3470.249	3510.555	3566.747	3641.862	3755.108	3904.099	4117.023	4380.026	4664.830
35.0	3475.912	3486.159	3520.666	3573.916	3649.691	3759.652	3910.288	4123.979	4375.447	4633.869
37.5	3391.347	3417.169	3465.803	3530.352	3615.527	3731.316	3885.530	4090.508	4296.764	4470.126
40.0	3187.030	3176.433	3192.561	3228.987	3287.831	3378.601	3503.556	3657.606	3810.216	3934.090
42.5	2797.114	2803.360	2836.308	2880.366	2940.291	3023.724	3121.581	3203.329	3264.902	3301.800
45.0	2334.166	2308.305	2299.819	2306.714	2328.518	2373.942	2435.088	2492.204	2542.274	2569.906
47.5	1734.321	1703.313	1688.532	1686.883	1699.391	1724.013	1748.595	1770.408	1796.949	1828.446
50.0	1169.577	1224.910	1266.811	1299.593	1328.902	1359.620	1423.209	1439.351	1443.604	1438.170
52.5	933.582	964.536	980.905	987.731	992.816	1002.578	1097.823	1118.160	1138.480	1152.575
55.0	735.343	735.175	718.901	692.486	666.122	649.969	772.437	799.624	841.402	883.536
57.5	579.435	566.501	570.322	574.499	580.883	589.786	691.798	710.548	731.989	750.500
60.0	512.002	513.831	517.435	522.416	529.704	538.809	611.159	628.435	648.856	666.686
62.5	458.867	461.638	464.773	469.783	477.700	487.651	530.520	545.853	565.135	581.751
65.0	404.890	408.036	411.922	416.917	424.708	436.255	449.881	463.046	480.750	496.716
67.5	349.426	353.438	357.491	359.339	362.644	370.489	381.975	394.160	408.872	419.927
70.0	292.692	295.054	297.008	298.089	299.227	304.466	314.068	325.528	339.794	351.008
72.5	233.807	236.866	237.722	237.981	236.044	239.074	246.162	256.724	269.461	282.047
75.0	176.565	180.187	180.746	179.295	176.534	174.595	178.255	188.205	199.542	211.689
77.5	124.266	125.858	126.562	126.272	130.465	131.178	135.813	143.236	147.772	146.531
80.0	80.290	79.459	81.342	88.329	91.070	90.782	93.372	100.292	104.161	104.196
82.5	45.984	46.114	49.568	52.858	54.671	51.905	50.930	57.451	63.172	63.937
85.0	21.906	23.285	25.622	26.850	24.791	16.341	8.488	17.591	30.212	33.775
87.5	10.587	10.114	9.543	10.679	10.104	6.001	4.244	7.501	12.661	13.848
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	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344
2.5	4125.977	4147.858	4169.434	4190.663	4211.507	4240.854	4249.804	4265.693	4281.122	4296.063

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CANDELA TABULATION - (Cont.)

5.0	4274.237	4315.261	4350.492	4385.068	4418.923	4451.991	4484.209	4515.516	4545.851	4575.158
7.5	4352.475	4407.607	4462.745	4517.849	4574.069	4625.763	4668.821	4706.325	4743.132	4779.183
10.0	4361.146	4430.517	4500.396	4569.386	4623.721	4678.577	4736.542	4787.799	4840.130	4883.957
12.5	4364.120	4444.725	4514.673	4575.155	4635.294	4694.988	4747.515	4797.826	4851.573	4909.253
15.0	4376.320	4465.742	4546.964	4625.860	4697.334	4758.496	4816.738	4871.475	4920.822	4972.761
17.5	4365.651	4476.529	4580.217	4679.158	4770.278	4856.186	4936.024	5008.747	5076.018	5132.029
20.0	4344.543	4489.932	4629.047	4761.536	4886.339	5002.181	5108.489	5200.761	5283.051	5355.896
22.5	4331.004	4522.400	4711.370	4890.304	5052.970	5204.892	5327.080	5440.516	5526.637	5598.171
25.0	4435.908	4668.353	4894.060	5091.586	5277.989	5425.568	5563.814	5661.538	5747.797	5789.006
27.5	4607.537	4871.115	5109.018	5327.424	5497.098	5646.141	5744.428	5820.478	5873.312	5902.680
30.0	4791.828	5071.992	5303.346	5479.553	5624.748	5717.630	5788.642	5851.363	5879.656	5879.478
32.5	4924.796	5145.114	5325.041	5459.180	5548.368	5624.682	5694.937	5695.715	5676.182	5651.139
35.0	4870.846	5033.413	5163.223	5262.856	5301.032	5311.038	5302.776	5294.539	5299.021	5258.758
37.5	4592.404	4669.198	4715.868	4744.860	4756.754	4764.511	4769.254	4761.894	4686.852	4622.585
40.0	4018.734	4070.453	4101.918	4117.146	4100.935	4071.221	4055.295	4017.440	3984.790	3880.276
42.5	3320.000	3324.998	3332.137	3335.264	3332.306	3325.210	3293.973	3251.752	3175.965	3058.098
45.0	2582.095	2584.126	2577.535	2561.616	2570.875	2571.501	2558.292	2513.379	2417.353	2274.770
47.5	1860.924	1894.919	1921.818	1936.785	1933.491	1906.312	1887.697	1856.260	1767.594	1637.425
50.0	1418.134	1390.578	1352.403	1381.001	1418.064	1437.702	1416.785	1340.896	1284.453	1167.208
52.5	1158.751	1153.826	1137.907	1107.173	1077.275	1084.780	1107.662	1079.727	997.521	976.140
55.0	919.937	944.739	953.646	947.306	941.606	941.077	942.170	933.260	915.616	886.862
57.5	766.051	781.617	803.952	821.384	832.350	839.818	844.595	852.546	855.184	840.076
60.0	681.516	696.737	710.628	723.641	737.592	746.228	745.066	759.656	781.326	789.785
62.5	596.806	613.083	627.425	641.459	652.739	639.216	652.430	677.802	697.875	715.522
65.0	513.008	530.323	546.493	561.636	555.823	560.183	578.338	597.733	616.682	616.920
67.5	433.730	449.832	467.605	474.167	478.938	492.739	504.990	518.965	519.755	511.112
70.0	364.485	377.776	391.125	398.145	406.386	416.527	424.991	431.429	434.570	421.634
72.5	294.357	307.800	317.263	321.119	327.813	334.261	341.187	347.425	350.090	342.651
75.0	224.414	236.281	242.066	246.048	246.784	253.782	259.197	262.491	264.021	262.473
77.5	155.242	164.255	171.943	176.419	177.211	177.473	181.588	183.190	185.110	185.790
80.0	98.126	101.976	111.687	115.409	114.656	111.141	116.237	118.843	118.104	114.741
82.5	61.669	58.150	62.171	64.904	66.604	65.883	64.456	61.408	57.388	58.718
85.0	32.355	29.713	29.065	29.903	29.811	31.626	32.813	33.719	34.170	34.279
87.5	12.504	12.526	12.631	13.858	14.246	14.076	13.521	12.707	11.669	11.354
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	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344
2.5	4310.488	4324.369	4337.680	4350.397	4362.494	4373.951	4384.743	4394.852	4404.258	4412.943
5.0	4603.380	4628.398	4647.075	4664.777	4681.469	4697.120	4711.702	4724.178	4738.344	4750.652
7.5	4814.421	4848.787	4882.222	4911.977	4935.508	4958.201	4974.606	4988.745	5001.922	5014.100
10.0	4927.750	4971.443	5014.971	5058.262	5100.833	5123.237	5144.523	5164.552	5183.295	5200.728
12.5	4962.751	5012.364	5061.546	5110.198	5162.875	5197.199	5235.020	5270.459	5303.511	5321.088
15.0	5021.251	5066.812	5109.394	5148.208	5203.496	5253.989	5298.769	5342.406	5371.337	5396.856
17.5	5183.768	5228.517	5260.505	5290.722	5326.497	5354.445	5361.368	5382.919	5407.865	5430.579
20.0	5407.594	5450.044	5476.697	5478.930	5473.676	5458.256	5412.077	5382.189	5353.306	5337.960
22.5	5644.713	5664.797	5682.933	5637.696	5580.287	5514.083	5396.330	5281.744	5191.056	5135.882
25.0	5828.959	5813.209	5783.714	5696.761	5574.136	5439.688	5289.285	5124.094	4996.412	4884.761
27.5	5907.384	5850.537	5758.969	5659.079	5482.490	5288.121	5099.684	4912.048	4752.057	4633.513
30.0	5825.771	5775.670	5648.766	5459.635	5271.266	5058.455	4836.646	4636.117	4464.710	4315.579
32.5	5602.720	5499.669	5350.107	5141.715	4925.388	4684.688	4447.152	4228.741	4038.447	3887.042
35.0	5156.338	5016.942	4841.254	4646.844	4371.289	4123.794	3885.095	3681.318	3488.850	3317.458
37.5	4507.099	4371.391	4125.275	3871.811	3648.414	3387.595	3152.960	2944.198	2777.617	2624.222
40.0	3728.957	3501.815	3265.766	3016.272	2773.767	2544.599	2314.969	2175.537	2068.309	1963.506

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CANDELA TABULATION - (Cont.)

42.5	2879.805	2662.311	2419.433	2166.194	1889.540	1796.337	1679.223	1552.928	1426.749	1328.756
45.0	2102.738	1893.998	1645.036	1514.527	1393.626	1255.583	1106.164	1091.039	1071.139	1039.617
47.5	1453.769	1305.905	1225.897	1107.708	982.423	956.499	926.374	887.900	836.165	792.641
50.0	1099.706	1027.334	927.380	908.040	878.153	841.182	790.487	773.532	761.055	754.587
52.5	934.300	891.348	868.952	842.186	806.832	790.125	774.328	759.088	744.585	730.703
55.0	872.816	850.901	826.800	811.940	793.807	777.581	761.958	748.967	738.340	730.019
57.5	828.686	820.639	805.478	792.310	777.412	762.265	751.289	740.391	731.946	726.364
60.0	781.674	784.217	777.190	758.870	751.415	741.463	734.661	728.510	722.652	707.604
62.5	720.385	708.323	715.132	709.583	710.455	714.920	696.148	678.352	659.149	644.267
65.0	604.557	602.208	621.642	642.356	631.131	624.825	610.045	600.225	588.179	578.203
67.5	493.470	484.320	510.476	526.955	523.687	521.016	517.848	515.634	513.597	508.966
70.0	410.578	402.541	409.828	415.391	413.822	415.270	420.134	426.307	431.382	426.179
72.5	333.563	327.373	324.075	316.237	311.776	322.181	331.445	336.361	340.057	335.558
75.0	254.976	252.099	249.059	243.178	237.833	241.539	247.076	249.130	248.951	245.239
77.5	182.232	178.420	175.013	170.230	165.049	163.944	165.396	164.173	159.863	159.479
80.0	110.064	105.889	102.014	101.477	102.966	105.579	110.428	114.067	115.131	115.886
82.5	60.406	63.089	64.896	65.943	66.472	67.423	70.374	72.743	72.984	72.768
85.0	34.147	33.623	32.476	30.967	30.471	30.056	31.014	31.732	31.120	29.971
87.5	11.046	9.252	7.667	6.296	6.764	7.220	8.332	9.371	9.795	9.894
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	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344	4021.344
2.5	4420.889	4428.082	4433.412	4441.620	4449.881	4457.377	4464.097	4470.031	4475.170	4479.508
5.0	4761.847	4771.907	4780.811	4788.542	4795.084	4800.422	4804.544	4805.976	4822.777	4825.063
7.5	5025.241	5035.304	5044.249	5058.549	5056.150	5057.086	5057.121	5056.242	5054.440	5052.328
10.0	5216.380	5221.902	5223.276	5220.143	5215.737	5210.183	5207.130	5203.249	5198.569	5193.126
12.5	5330.724	5335.409	5334.969	5327.176	5312.254	5295.355	5276.735	5261.153	5247.677	5233.560
15.0	5415.830	5418.382	5401.025	5380.745	5355.006	5322.746	5284.052	5243.720	5211.781	5184.414
17.5	5429.704	5417.166	5405.274	5378.617	5340.819	5303.891	5258.639	5214.183	5170.016	5143.016
20.0	5318.465	5308.418	5283.275	5264.078	5240.825	5205.476	5173.554	5140.716	5109.881	5086.649
22.5	5088.793	5086.932	5099.863	5106.344	5111.171	5109.394	5094.854	5081.134	5060.941	5043.845
25.0	4843.928	4827.872	4863.785	4919.449	4954.572	4982.110	4989.672	4991.244	4983.285	4974.024
27.5	4555.119	4550.618	4595.598	4669.860	4765.934	4791.560	4824.158	4829.736	4832.557	4824.074
30.0	4218.466	4181.334	4226.303	4322.150	4433.859	4537.788	4577.310	4590.594	4599.403	4585.453
32.5	3791.556	3735.193	3734.180	3831.790	3958.026	4088.195	4150.877	4191.161	4213.886	4218.935
35.0	3189.867	3119.997	3138.760	3231.341	3384.951	3498.438	3571.914	3587.838	3586.901	3579.798
37.5	2538.281	2465.922	2432.621	2488.230	2599.094	2718.291	2807.606	2817.768	2826.882	2828.971
40.0	1863.629	1785.731	1746.603	1791.536	1903.865	2042.174	2118.887	2156.664	2169.959	2170.138
42.5	1307.997	1304.516	1304.511	1321.249	1396.118	1477.949	1529.343	1546.762	1542.409	1525.155
45.0	999.248	957.056	921.824	933.992	1008.327	1092.454	1160.181	1196.334	1209.805	1204.124
47.5	794.895	793.939	799.117	812.355	845.866	894.322	935.068	947.180	939.564	922.907
50.0	745.791	735.830	723.889	719.385	745.722	789.568	835.729	866.644	880.004	882.508
52.5	722.302	717.029	713.869	717.815	736.299	773.360	816.816	848.978	864.053	867.935
55.0	722.820	716.612	713.486	715.697	728.428	759.409	800.388	832.716	848.342	853.217
57.5	722.006	716.501	712.910	704.682	704.530	727.517	762.602	792.365	805.999	809.163
60.0	692.775	675.537	660.799	649.644	647.273	678.037	711.982	743.757	758.511	762.112
62.5	632.695	619.186	605.256	595.555	592.398	623.337	661.737	696.186	711.148	715.044
65.0	570.364	561.798	548.530	541.000	537.555	567.451	612.117	645.410	664.078	667.961
67.5	505.992	502.758	488.656	479.539	474.438	492.860	533.209	559.396	574.258	575.373
70.0	422.247	420.618	411.610	404.815	401.313	410.622	442.533	464.917	478.763	479.287
72.5	332.555	334.972	332.815	329.555	327.641	332.891	352.954	371.674	383.482	383.133
75.0	241.666	248.358	252.548	253.843	253.522	258.972	264.344	279.483	288.397	287.201
77.5	161.176	173.604	183.769	189.235	190.449	196.746	198.331	211.662	218.968	218.525

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CANDELA TABULATION - (Cont.)

80.0	116.118	123.239	130.160	133.710	133.985	137.376	138.536	147.800	152.367	151.215
82.5	71.486	74.039	77.174	78.391	77.723	78.674	79.477	84.112	86.075	83.873
85.0	27.139	25.663	24.626	23.210	21.589	20.230	20.934	20.552	17.997	15.355
87.5	8.871	8.372	8.194	8.039	7.904	7.787	8.788	8.973	9.153	7.755
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	4021.344	4021.344	4021.344
2.5	4483.039	4485.761	4487.671
5.0	4827.361	4829.668	4831.979
7.5	5057.109	5060.931	5063.816
10.0	5189.365	5190.316	5190.610
12.5	5216.850	5212.544	5207.587
15.0	5155.410	5139.428	5131.192
17.5	5117.535	5098.494	5090.873
20.0	5069.671	5055.243	5049.846
22.5	5029.359	5018.537	5014.478
25.0	4967.496	4962.606	4961.426
27.5	4818.673	4816.221	4816.214
30.0	4578.409	4577.211	4575.737
32.5	4221.956	4230.689	4226.920
35.0	3569.951	3577.873	3562.974
37.5	2824.037	2835.012	2820.246
40.0	2158.082	2170.924	2153.913
42.5	1499.311	1493.594	1487.579
45.0	1195.253	1197.832	1190.488
47.5	908.002	896.746	893.396
50.0	881.980	882.674	880.664
52.5	867.821	868.452	867.931
55.0	853.658	854.087	855.199
57.5	808.641	808.850	810.635
60.0	762.172	763.145	766.072
62.5	715.582	717.441	721.508
65.0	667.330	671.357	676.944
67.5	572.131	574.266	578.798
70.0	473.600	476.378	480.652
72.5	375.033	378.506	382.505
75.0	274.292	280.115	284.359
77.5	209.404	211.698	213.800
80.0	143.206	142.926	143.241
82.5	77.106	74.168	72.681
85.0	10.570	5.285	2.122
87.5	5.320	2.653	1.061
90.0	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1582.42	N.A.	15.80
0-30	3688.35	N.A.	36.90
0-40	6412.66	N.A.	64.20
0-60	9220.84	N.A.	92.30
0-80	9956.18	N.A.	99.60
0-90	9994.34	N.A.	100.00
10-90	9613.69	N.A.	96.20
20-40	4830.24	N.A.	48.30
20-50	6811.46	N.A.	68.20
40-70	3313.83	N.A.	33.20
60-80	735.34	N.A.	7.40
70-80	229.68	N.A.	2.30
80-90	38.16	N.A.	0.40
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	9994.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	380.65
10-20	1201.78
20-30	2105.92
30-40	2724.32
40-50	1981.22
50-60	826.96
60-70	505.66
70-80	229.68
80-90	38.16
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

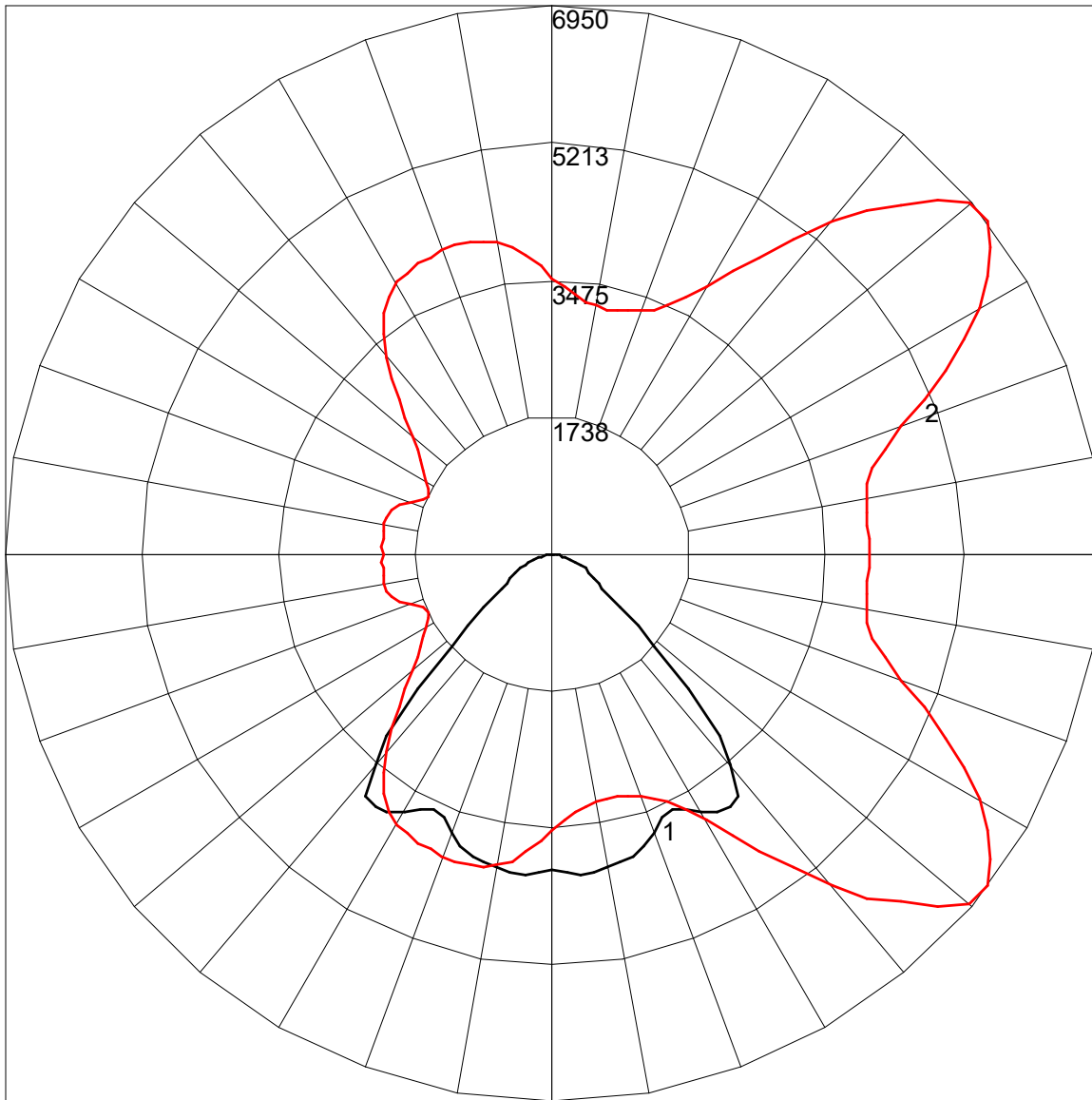
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VF2-L106-750-VF_.IES

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	207	207	207	199	199	199	191	191	191	187
1	208	201	194	189	203	197	191	186	189	184	180	182	178	174	175	172	169	166
2	193	180	170	161	188	177	167	159	170	163	156	165	158	152	159	154	149	145
3	178	162	149	139	174	159	148	138	154	144	136	149	141	134	145	137	131	128
4	165	146	132	122	161	144	131	121	140	128	119	136	126	118	132	123	116	113
5	154	133	118	107	150	131	117	107	127	115	106	124	113	105	120	111	104	100
6	143	121	106	96	139	119	105	95	116	104	94	113	102	94	110	100	93	89
7	133	110	96	86	130	109	95	85	106	94	85	104	92	84	101	91	84	80
8	124	101	87	77	121	100	86	77	98	85	76	96	84	76	93	83	76	72
9	116	93	79	70	114	92	79	70	90	78	69	88	77	69	86	76	69	66
10	109	86	73	63	107	85	72	63	84	71	63	82	71	63	80	70	63	60

POLAR GRAPH



Maximum Candela = 6950.278 Located At Horizontal Angle = 37.5, Vertical Angle = 40
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (40) (Through Max. Cd.)