



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VF2-L106-740-MF_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN from ATAL009602-R2
 [TESTLAB]ATAL-LABS
 [ISSUE DATE]16 DEC 2022
 [MANUFACTURER]WILLIAMS OUTDOOR
 [OTHER]H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMEN CATEGORY]VF2-L106-740-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 4000K LEDS
 [BALLAST](1) PHILIPS ELECTRONIC DRIVER
 [OTHER]INPUT WATTS: 98, 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	10205
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
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	45851	51034	44415
55	43736	43575	42936
65	37351	38078	35181
75	34923	28749	30874
85	0	14356	4509

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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	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349
2.5	6546.726	6545.611	6544.979	6544.827	6545.151	6545.948	6547.214	6548.942	6551.127	6553.761
5.0	6373.759	6374.042	6374.868	6376.200	6378.003	6380.292	6390.315	6398.736	6407.518	6416.633
7.5	6457.416	6461.567	6464.402	6465.885	6469.708	6472.491	6473.942	6474.065	6468.052	6474.482
10.0	6680.125	6686.677	6691.620	6697.182	6702.164	6705.615	6707.565	6708.046	6718.886	6728.762
12.5	6855.352	6860.505	6863.539	6873.368	6880.269	6885.966	6894.592	6908.505	6921.873	6934.823
15.0	6923.182	6925.865	6930.802	6938.711	6946.554	6957.633	6975.254	6993.291	7009.400	7037.249
17.5	6817.819	6814.278	6821.218	6834.661	6850.761	6876.097	6902.295	6927.717	6958.332	6991.936
20.0	6611.918	6601.966	6610.307	6625.653	6647.282	6683.175	6703.842	6729.230	6760.711	6785.307
22.5	6333.061	6320.088	6329.065	6343.404	6362.852	6387.697	6406.064	6427.646	6441.866	6454.541
25.0	6029.710	6012.681	6017.067	6025.807	6032.886	6042.499	6043.773	6045.907	6036.532	6030.947
27.5	5662.836	5639.707	5642.100	5639.811	5628.850	5611.738	5598.350	5570.009	5559.138	5524.015
30.0	5189.560	5158.282	5165.293	5152.290	5130.970	5094.828	5061.089	5014.675	4969.747	4938.860
32.5	4580.503	4535.061	4543.989	4511.436	4470.319	4426.784	4365.748	4312.632	4279.220	4228.935
35.0	3680.908	3652.927	3669.744	3646.941	3628.814	3615.494	3575.980	3552.044	3528.946	3468.608
37.5	2708.678	2701.498	2715.030	2696.962	2696.290	2699.357	2700.836	2702.467	2693.845	2681.453
40.0	1973.853	1972.130	1984.342	1986.609	1995.453	2001.899	2003.892	2002.444	1986.013	1971.114
42.5	1239.028	1246.212	1272.958	1311.649	1352.809	1397.872	1436.155	1470.343	1499.389	1521.207
45.0	1119.195	1120.237	1126.240	1134.351	1141.545	1148.937	1148.306	1148.629	1145.406	1134.745
47.5	999.362	1000.663	1004.661	1011.394	1020.042	1029.300	1038.764	1046.103	1051.548	1051.284
50.0	954.896	956.460	957.953	960.142	962.905	964.798	968.080	970.409	975.413	980.682
52.5	910.429	913.135	914.546	916.776	919.066	919.579	920.435	921.535	923.907	926.420
55.0	865.963	869.853	871.030	873.521	874.996	873.544	872.411	871.462	871.402	872.168
57.5	785.697	787.767	789.525	792.693	796.207	799.289	801.846	804.043	807.937	812.877
60.0	705.432	705.268	706.318	707.599	710.789	716.059	718.010	720.147	724.452	727.488
62.5	625.167	622.759	623.040	622.090	625.542	633.447	633.934	636.191	640.218	641.381
65.0	544.901	540.239	539.698	536.211	540.448	549.809	549.889	552.951	555.407	554.948
67.5	486.680	483.683	483.821	478.850	483.622	486.945	485.216	486.303	484.028	478.609
70.0	428.460	427.383	429.033	423.991	430.182	430.025	428.602	431.546	428.912	424.077
72.5	370.239	371.112	374.366	369.860	376.043	373.590	371.730	377.385	374.234	369.771
75.0	312.018	314.863	319.798	315.785	321.335	317.551	314.662	323.696	319.939	315.674
77.5	234.014	237.561	243.182	242.168	246.683	246.054	244.205	254.370	252.340	250.951
80.0	156.009	160.126	166.075	167.312	170.562	171.923	170.915	178.347	177.798	178.166
82.5	78.005	82.673	88.965	92.274	94.769	97.642	97.974	102.748	103.576	105.717
85.0	0.000	5.202	11.846	17.107	19.198	23.244	25.273	27.296	29.552	33.487
87.5	0.000	2.542	5.669	7.982	8.604	10.125	10.533	10.668	11.019	12.226
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	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349
2.5	6557.567	6565.157	6572.069	6579.317	6586.884	6594.755	6602.913	6611.342	6620.026	6628.947
5.0	6426.053	6435.752	6445.702	6455.879	6466.255	6475.874	6496.857	6514.785	6532.397	6549.658
7.5	6485.732	6502.097	6517.810	6532.853	6547.207	6560.855	6573.777	6581.735	6606.227	6621.942
10.0	6731.480	6744.513	6749.952	6762.684	6775.327	6787.516	6799.295	6810.691	6816.669	6843.904
12.5	6951.709	6972.974	6990.611	7004.102	7017.890	7033.638	7050.493	7068.527	7087.104	7098.132
15.0	7063.935	7092.824	7121.785	7140.574	7161.653	7183.200	7196.244	7212.880	7225.010	7235.052
17.5	7022.869	7051.762	7087.427	7113.545	7121.118	7137.448	7156.313	7170.478	7165.118	7171.421
20.0	6810.477	6845.227	6854.950	6887.895	6887.885	6888.776	6900.300	6913.885	6907.367	6914.639
22.5	6467.455	6471.153	6488.901	6478.346	6477.587	6473.948	6473.323	6486.672	6477.570	6480.498
25.0	6017.434	6008.567	5984.102	5970.334	5947.530	5937.969	5932.001	5928.267	5929.084	5936.010
27.5	5496.328	5455.534	5421.024	5384.784	5361.919	5348.597	5336.713	5329.722	5334.687	5339.921
30.0	4875.596	4829.134	4786.533	4763.866	4751.530	4726.492	4711.152	4706.758	4698.296	4692.611

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CANDELA TABULATION - (Cont.)

32.5	4180.012	4141.406	4119.727	4104.494	4076.297	4058.331	4045.171	4032.917	4026.336	4021.731
35.0	3425.051	3398.645	3392.401	3380.664	3369.378	3366.633	3334.183	3325.762	3322.596	3322.875
37.5	2680.345	2679.022	2670.580	2654.569	2650.997	2646.470	2643.317	2638.640	2633.229	2638.509
40.0	1973.984	1999.222	2013.210	2026.514	2031.518	2023.170	2015.555	2026.787	2034.727	2022.862
42.5	1529.772	1527.183	1510.379	1494.156	1519.068	1551.089	1560.311	1557.290	1528.110	1548.460
45.0	1154.870	1197.557	1225.646	1238.603	1240.804	1227.156	1214.598	1237.228	1245.721	1230.982
47.5	1049.702	1048.070	1044.419	1038.991	1060.499	1075.895	1076.622	1068.902	1059.625	1057.933
50.0	984.179	987.158	988.241	983.418	979.521	978.913	980.483	984.556	980.699	978.475
52.5	929.105	930.913	931.776	930.074	926.103	923.798	921.495	920.185	919.330	918.548
55.0	873.346	875.033	874.306	872.477	869.195	866.527	865.585	863.158	862.774	862.291
57.5	817.828	818.403	818.189	815.414	812.295	809.603	807.642	805.791	807.387	807.806
60.0	732.305	738.586	746.048	751.383	756.204	753.823	749.802	745.111	741.786	733.864
62.5	645.099	650.199	655.791	661.035	667.084	675.288	679.071	681.920	657.056	635.745
65.0	557.597	561.530	565.852	570.776	575.026	579.750	580.359	580.797	555.519	523.174
67.5	474.907	472.601	476.195	479.696	482.390	482.378	480.897	475.527	459.527	443.394
70.0	419.370	414.483	412.557	407.859	401.712	389.358	380.775	381.013	375.762	378.431
72.5	363.313	357.211	356.132	349.898	342.779	332.902	322.179	314.228	307.640	315.478
75.0	306.853	300.470	300.281	292.175	285.067	279.300	271.308	261.936	256.859	262.811
77.5	243.268	239.798	241.143	233.876	229.481	228.117	220.596	209.734	205.543	208.858
80.0	172.199	171.240	172.660	168.380	166.949	168.064	162.895	154.781	152.600	153.849
82.5	101.826	102.890	105.083	103.903	104.303	105.762	102.480	97.892	97.763	98.972
85.0	31.961	34.665	38.141	40.143	41.863	43.671	43.261	42.373	43.191	44.371
87.5	10.414	10.912	11.746	12.061	11.815	11.409	10.353	9.226	8.024	6.728
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	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349
2.5	6638.089	6647.435	6656.969	6666.673	6676.531	6686.525	6702.117	6707.308	6718.696	6730.192
5.0	6566.536	6585.241	6604.973	6629.141	6653.217	6677.158	6700.924	6724.477	6747.779	6770.791
7.5	6650.607	6681.638	6711.687	6740.704	6768.641	6795.455	6821.107	6850.564	6882.428	6922.370
10.0	6868.799	6892.264	6914.245	6934.684	6952.937	6986.930	7014.381	7045.511	7070.860	7095.876
12.5	7103.309	7109.043	7115.263	7127.070	7145.131	7157.624	7165.687	7176.112	7196.946	7217.057
15.0	7228.622	7226.842	7225.080	7222.493	7223.328	7212.606	7207.280	7204.236	7203.186	7210.863
17.5	7173.151	7170.118	7157.465	7152.018	7156.344	7123.762	7105.622	7093.393	7084.791	7079.822
20.0	6925.618	6912.759	6905.586	6915.643	6895.014	6881.047	6870.566	6854.617	6849.987	6838.814
22.5	6499.746	6488.348	6496.053	6502.624	6511.537	6517.144	6507.872	6511.400	6499.801	6504.531
25.0	5948.987	5980.813	5974.416	5978.438	5997.245	6015.749	6052.998	6056.985	6080.915	6083.405
27.5	5336.595	5345.233	5362.380	5383.087	5408.870	5440.778	5478.870	5523.368	5557.127	5593.821
30.0	4701.967	4706.217	4719.350	4746.208	4777.331	4809.338	4847.400	4895.252	4951.551	5008.117
32.5	4023.642	4032.492	4047.717	4062.700	4087.216	4126.039	4182.392	4201.950	4238.964	4283.043
35.0	3321.915	3324.722	3333.205	3352.988	3370.101	3386.255	3408.795	3439.046	3475.507	3512.070
37.5	2640.027	2639.274	2646.545	2648.918	2653.939	2658.886	2674.747	2686.221	2687.311	2677.862
40.0	2021.597	2033.861	2026.232	2015.698	2030.665	2038.840	2029.103	2000.467	1959.323	1939.149
42.5	1551.295	1523.522	1539.682	1560.296	1557.238	1528.956	1503.577	1517.452	1512.296	1487.665
45.0	1194.366	1227.375	1239.317	1233.693	1219.569	1237.424	1240.298	1222.673	1177.822	1105.288
47.5	1061.722	1055.814	1054.559	1064.694	1074.664	1076.793	1055.767	1032.778	1033.950	1033.821
50.0	977.200	974.324	975.823	982.290	986.823	979.636	977.467	977.572	978.894	977.812
52.5	917.423	917.855	919.387	923.861	928.852	923.694	922.107	922.242	917.807	912.229
55.0	862.846	862.516	863.453	863.360	865.011	866.235	859.864	848.146	841.001	838.663
57.5	806.803	807.756	803.973	801.227	804.654	790.207	775.035	765.038	760.065	759.350
60.0	742.954	740.458	728.577	731.155	718.637	692.522	672.075	672.726	672.560	676.941
62.5	633.342	639.425	636.655	632.065	624.315	604.350	572.003	554.554	587.604	597.402
65.0	527.458	540.759	544.323	541.954	535.447	520.601	497.920	488.226	495.522	520.420
67.5	452.311	460.757	463.456	463.512	458.983	449.961	445.496	440.178	432.830	438.636

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CANDELA TABULATION - (Cont.)

70.0	388.912	395.943	396.106	394.947	392.343	391.831	391.980	389.123	382.808	377.878
72.5	327.777	333.063	335.037	335.518	334.978	337.349	338.868	337.642	334.262	326.494
75.0	270.178	272.871	277.620	280.307	278.811	279.008	282.463	289.875	286.092	276.975
77.5	211.625	212.226	214.727	218.566	219.486	219.668	220.345	224.796	227.624	224.367
80.0	152.686	150.992	150.909	152.194	153.499	154.887	156.342	157.548	158.332	159.022
82.5	98.841	97.627	95.493	93.209	90.391	91.069	92.940	95.105	96.210	95.114
85.0	46.920	49.107	50.637	51.267	51.233	50.371	48.417	46.310	43.227	42.892
87.5	8.170	9.858	11.770	12.605	13.566	16.084	18.087	19.162	19.543	18.946
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	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349
2.5	6741.775	6753.421	6765.108	6776.815	6788.519	6800.197	6811.828	6823.080	6834.238	6845.281
5.0	6793.479	6823.497	6838.933	6862.406	6885.418	6907.945	6929.965	6950.962	6971.411	6991.294
7.5	6956.431	6989.169	7020.584	7050.791	7081.905	7111.708	7140.238	7166.607	7191.802	7217.166
10.0	7131.034	7166.883	7201.144	7233.893	7265.821	7298.043	7329.032	7357.369	7384.611	7407.085
12.5	7236.438	7261.664	7293.448	7324.382	7354.552	7385.446	7416.080	7444.092	7471.045	7494.358
15.0	7223.380	7236.330	7255.371	7279.948	7304.780	7328.999	7352.772	7380.586	7407.687	7434.265
17.5	7081.049	7092.884	7092.681	7115.990	7145.685	7176.102	7202.189	7222.544	7236.916	7252.584
20.0	6835.969	6845.011	6854.778	6874.274	6906.872	6941.245	6956.343	6979.050	6973.418	6971.117
22.5	6498.280	6504.926	6512.510	6527.593	6536.534	6553.607	6568.205	6587.606	6598.665	6613.764
25.0	6102.781	6118.830	6139.833	6156.900	6173.667	6191.657	6206.445	6214.502	6211.446	6206.314
27.5	5622.710	5656.718	5692.629	5716.652	5740.522	5756.612	5769.749	5762.893	5746.514	5719.137
30.0	5071.075	5115.508	5144.434	5171.521	5194.710	5201.690	5209.909	5191.414	5169.687	5131.920
32.5	4327.578	4366.830	4407.539	4449.638	4477.517	4488.731	4493.455	4465.888	4431.882	4383.503
35.0	3530.599	3542.437	3545.590	3550.544	3548.778	3544.403	3544.243	3527.309	3512.356	3495.535
37.5	2659.752	2635.422	2604.784	2577.352	2555.104	2538.756	2536.842	2534.366	2542.383	2556.475
40.0	1938.900	1927.278	1906.680	1882.787	1863.340	1850.026	1848.368	1850.331	1862.054	1879.507
42.5	1442.333	1382.749	1317.708	1252.398	1200.576	1168.334	1159.893	1174.196	1211.687	1265.041
45.0	1092.314	1089.034	1085.893	1082.253	1081.350	1082.088	1084.150	1085.263	1088.679	1092.422
47.5	1031.214	1025.736	1019.832	1013.885	1009.644	1008.207	1008.406	1008.284	1010.778	1016.471
50.0	972.823	965.814	960.386	957.793	954.493	955.511	955.649	954.759	955.230	957.394
52.5	907.956	905.383	902.424	902.692	901.001	903.141	902.893	901.844	901.622	901.067
55.0	838.414	840.873	842.684	846.509	847.638	850.484	850.136	848.879	847.417	844.295
57.5	763.837	768.634	770.969	769.467	767.047	766.425	765.914	765.747	767.028	769.712
60.0	681.842	685.768	688.032	685.034	682.761	681.506	681.692	681.848	683.672	688.626
62.5	601.888	604.950	606.042	602.703	598.614	596.770	597.469	598.204	601.966	606.214
65.0	525.322	525.932	525.462	521.777	515.493	512.263	513.247	514.497	523.122	524.719
67.5	450.742	450.527	450.202	454.725	452.683	452.154	453.896	454.950	461.279	457.230
70.0	381.084	387.816	392.717	396.773	394.642	393.596	394.545	396.954	402.100	399.143
72.5	323.751	328.802	334.504	337.692	337.278	334.555	335.193	339.464	342.831	340.815
75.0	270.663	270.595	277.008	279.816	280.973	275.977	275.842	282.726	284.468	284.086
77.5	217.092	214.795	218.690	222.438	219.933	213.047	210.273	218.299	222.194	224.737
80.0	159.498	155.949	158.846	160.237	155.951	148.560	144.704	152.158	159.287	163.069
82.5	93.703	95.106	101.494	103.110	96.987	86.084	79.135	87.902	100.603	104.802
85.0	42.583	45.201	50.320	53.494	47.946	27.125	13.566	29.481	49.984	57.057
87.5	16.879	16.545	16.582	19.278	17.030	11.190	6.783	12.788	19.745	22.196
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	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349
2.5	6856.184	6866.926	6877.483	6887.836	6897.961	6912.255	6917.141	6925.959	6934.518	6942.804

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CANDELA TABULATION - (Cont.)

5.0	7010.593	7028.078	7043.175	7057.765	7071.854	7085.449	7098.556	7111.177	7123.316	7134.970
7.5	7234.356	7251.533	7267.675	7282.815	7293.812	7310.369	7325.207	7340.727	7355.643	7369.990
10.0	7427.297	7446.769	7465.607	7484.011	7503.114	7521.999	7538.918	7556.415	7570.666	7583.846
12.5	7517.518	7540.586	7563.767	7587.165	7610.731	7634.523	7657.968	7683.249	7702.817	7721.572
15.0	7462.324	7491.402	7521.771	7554.267	7585.651	7614.540	7647.058	7681.706	7701.520	7712.688
17.5	7275.097	7316.903	7343.033	7371.654	7399.317	7433.577	7453.883	7478.094	7522.347	7511.313
20.0	6986.770	7016.463	7038.230	7057.734	7082.555	7090.360	7108.189	7113.867	7119.464	7128.565
22.5	6623.359	6638.255	6638.090	6646.861	6640.391	6647.101	6634.588	6635.311	6625.419	6612.572
25.0	6196.783	6178.798	6164.761	6138.667	6123.298	6095.304	6083.645	6051.818	6035.255	6013.532
27.5	5690.709	5648.080	5606.171	5567.663	5522.937	5485.322	5447.665	5416.505	5388.585	5365.418
30.0	5091.950	5051.355	4997.122	4930.659	4872.225	4818.993	4775.575	4733.560	4713.775	4684.804
32.5	4327.924	4274.752	4225.858	4179.546	4136.557	4100.602	4070.197	4030.131	3998.056	3974.748
35.0	3470.190	3451.599	3426.795	3398.827	3363.748	3333.849	3309.296	3293.982	3285.438	3265.251
37.5	2572.745	2589.264	2603.243	2613.275	2616.277	2610.188	2596.463	2584.191	2580.863	2558.416
40.0	1897.798	1912.895	1921.818	1920.068	1936.064	1969.847	1990.201	1995.719	1980.954	1960.983
42.5	1326.605	1389.626	1444.483	1485.469	1508.311	1510.620	1496.764	1516.148	1535.065	1530.159
45.0	1096.874	1101.358	1104.336	1116.401	1183.738	1224.441	1239.601	1233.945	1213.682	1219.232
47.5	1021.593	1028.436	1033.378	1036.181	1036.836	1035.582	1054.731	1070.564	1064.462	1051.362
50.0	958.279	961.971	965.984	970.628	972.520	971.787	969.738	966.742	968.417	960.294
52.5	901.188	900.381	900.951	903.396	907.457	911.359	910.265	906.787	903.053	899.042
55.0	840.388	835.740	832.431	832.318	834.095	839.835	848.293	850.803	848.394	844.538
57.5	767.462	764.401	760.778	757.021	757.337	760.383	767.630	782.569	796.667	791.035
60.0	686.005	683.886	681.804	678.461	674.657	672.760	669.878	689.651	715.791	728.582
62.5	605.503	605.530	604.043	600.704	591.995	557.408	572.744	604.386	625.627	637.113
65.0	527.195	529.076	528.685	524.889	498.962	491.064	500.280	522.961	540.185	548.698
67.5	454.624	454.864	455.161	442.675	436.762	444.029	448.339	452.404	463.361	469.197
70.0	397.211	391.987	385.564	382.905	388.010	392.823	395.539	395.705	396.753	400.239
72.5	337.963	332.508	328.469	332.558	338.549	342.344	343.957	342.651	340.280	340.913
75.0	279.710	274.145	274.997	280.785	291.863	296.237	288.957	285.527	285.275	286.541
77.5	221.192	217.415	219.675	229.096	234.168	232.559	228.156	227.435	226.640	224.863
80.0	160.259	157.387	163.265	164.623	165.627	166.317	164.446	162.071	159.819	157.694
82.5	103.672	98.228	98.565	101.319	103.021	102.364	100.011	97.284	95.775	97.797
85.0	53.884	49.373	47.350	48.220	48.783	51.781	53.635	54.845	55.122	54.696
87.5	19.936	19.927	20.195	22.141	22.584	22.024	20.751	18.503	15.797	14.705
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	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349
2.5	6950.802	6958.499	6965.881	6972.934	6979.647	6986.005	6991.998	6997.613	7002.838	7007.664
5.0	7146.138	7157.385	7169.438	7180.722	7191.217	7200.904	7209.765	7216.305	7229.003	7240.866
7.5	7383.795	7397.078	7409.848	7421.383	7431.020	7437.534	7451.150	7462.109	7472.186	7481.347
10.0	7596.549	7608.804	7620.630	7632.033	7638.825	7646.811	7653.097	7659.355	7665.539	7671.591
12.5	7734.615	7743.313	7753.156	7764.172	7776.102	7767.820	7760.789	7755.282	7751.251	7747.467
15.0	7729.270	7738.437	7741.147	7750.415	7745.581	7738.771	7726.184	7721.255	7704.184	7691.630
17.5	7513.780	7524.217	7526.023	7525.330	7521.510	7523.465	7519.210	7504.300	7491.438	7486.395
20.0	7120.510	7124.413	7134.771	7126.997	7127.568	7142.633	7137.424	7126.978	7128.508	7125.312
22.5	6601.715	6590.724	6586.293	6582.927	6583.200	6591.087	6597.898	6613.265	6628.263	6638.615
25.0	6001.517	6014.189	5983.351	5973.014	5971.044	5978.231	5990.837	6003.718	6023.201	6055.639
27.5	5348.464	5331.733	5322.814	5326.858	5322.541	5321.514	5334.121	5340.986	5367.502	5392.272
30.0	4658.229	4645.525	4637.308	4624.090	4628.414	4637.565	4643.313	4657.458	4680.024	4693.729
32.5	3955.340	3938.675	3926.421	3913.344	3906.851	3913.748	3924.411	3933.117	3941.496	3959.297
35.0	3241.806	3228.143	3215.724	3203.768	3190.469	3174.878	3174.462	3188.875	3200.602	3199.102
37.5	2563.370	2546.158	2538.441	2527.602	2511.753	2497.243	2482.817	2476.571	2474.797	2441.990
40.0	1965.228	1961.610	1935.449	1925.858	1929.618	1911.662	1881.626	1875.162	1877.614	1865.211

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CANDELA TABULATION - (Cont.)

42.5	1502.540	1477.314	1491.236	1475.616	1436.217	1468.337	1467.880	1449.622	1408.654	1371.999
45.0	1215.966	1196.941	1157.832	1182.959	1191.259	1180.059	1150.609	1164.157	1171.810	1167.786
47.5	1037.160	1031.218	1032.842	1027.018	1024.056	1028.877	1033.542	1033.490	1021.978	1003.946
50.0	953.656	950.174	948.385	949.733	949.620	950.132	944.709	944.406	945.341	946.849
52.5	895.128	893.176	892.418	892.071	890.245	890.137	890.335	890.633	890.921	892.110
55.0	843.702	843.217	842.081	842.266	841.636	840.147	839.166	840.258	842.203	844.510
57.5	792.318	795.992	795.391	796.365	794.661	790.986	791.388	793.015	795.851	797.799
60.0	726.313	738.005	739.853	729.492	735.880	737.751	741.609	745.833	749.309	743.522
62.5	643.675	643.576	636.655	637.848	657.438	680.864	678.132	674.464	666.642	660.304
65.0	552.069	547.618	534.902	531.129	561.349	586.964	586.780	586.013	581.142	576.456
67.5	469.871	467.357	459.206	450.664	467.685	486.929	494.744	495.886	495.326	491.720
70.0	401.525	400.911	393.876	383.839	383.360	395.158	402.106	408.363	416.747	418.550
72.5	340.021	337.048	330.803	318.682	312.660	324.809	335.901	343.973	351.115	353.779
75.0	282.254	276.560	272.559	266.335	261.968	267.961	276.041	281.774	286.006	289.236
77.5	219.714	215.964	214.270	212.232	210.861	213.675	218.438	221.436	222.548	225.197
80.0	155.457	154.557	155.407	157.014	157.825	159.093	161.085	162.704	163.335	164.520
82.5	99.424	101.101	102.059	102.422	102.529	102.847	103.700	104.473	104.650	104.619
85.0	53.753	52.393	50.516	48.406	47.753	47.183	46.839	46.523	46.230	45.247
87.5	13.759	12.349	11.113	10.072	11.219	12.291	13.303	14.271	15.353	15.902
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	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349	6803.349
2.5	7012.079	7016.073	7018.909	7024.112	7029.924	7035.316	7040.277	7044.798	7048.871	7052.488
5.0	7252.099	7262.665	7272.526	7281.641	7289.971	7297.474	7304.108	7309.779	7325.782	7329.677
7.5	7489.555	7496.770	7502.951	7516.587	7517.736	7522.807	7526.962	7530.168	7532.391	7533.844
10.0	7677.520	7684.469	7686.826	7683.884	7681.057	7678.342	7679.910	7681.156	7682.041	7682.526
12.5	7743.985	7736.035	7724.118	7714.408	7706.600	7699.673	7693.570	7689.499	7686.798	7684.556
15.0	7680.832	7662.585	7642.040	7625.015	7611.468	7597.300	7584.455	7573.217	7564.986	7559.151
17.5	7469.536	7447.822	7433.251	7417.663	7402.089	7392.110	7371.466	7359.758	7345.552	7335.538
20.0	7112.622	7117.205	7097.901	7092.143	7088.860	7081.376	7083.634	7070.445	7062.208	7055.256
22.5	6660.500	6654.549	6663.863	6670.296	6681.116	6694.344	6705.781	6719.951	6722.928	6729.815
25.0	6081.082	6113.037	6136.236	6158.238	6181.588	6214.167	6241.434	6272.516	6293.689	6318.494
27.5	5429.884	5471.436	5524.311	5557.856	5598.223	5629.147	5681.607	5713.438	5749.304	5783.255
30.0	4715.906	4751.048	4797.535	4864.500	4900.071	4957.504	5026.182	5059.714	5087.335	5116.521
32.5	3979.164	3994.200	4013.222	4055.308	4097.254	4118.560	4162.975	4211.106	4233.963	4265.722
35.0	3197.302	3194.484	3197.443	3214.777	3262.510	3267.356	3270.674	3290.209	3285.292	3286.713
37.5	2464.650	2459.673	2446.259	2427.707	2415.882	2394.145	2357.649	2323.800	2292.934	2266.059
40.0	1837.372	1804.327	1755.237	1735.674	1742.170	1741.903	1730.505	1719.070	1707.870	1696.811
42.5	1379.781	1391.363	1390.215	1375.230	1354.794	1322.968	1286.842	1250.751	1213.661	1178.892
45.0	1153.228	1127.738	1091.401	1068.103	1073.246	1073.778	1070.364	1069.977	1065.782	1059.953
47.5	1004.865	1004.374	1003.965	1004.140	1004.263	1001.814	997.744	994.418	989.560	984.184
50.0	948.986	947.159	945.598	944.964	943.860	940.767	940.097	939.209	937.379	934.559
52.5	894.911	895.909	896.087	895.132	894.005	892.125	891.643	891.475	890.192	887.746
55.0	846.623	848.161	847.037	846.141	844.827	843.005	843.125	843.687	842.961	840.900
57.5	799.762	800.615	799.265	793.063	787.360	780.587	777.857	775.707	771.438	769.162
60.0	736.303	728.830	721.711	715.181	712.069	705.078	702.632	701.371	694.953	694.291
62.5	654.014	648.097	642.455	636.745	635.524	629.956	627.293	627.567	618.281	618.853
65.0	571.390	567.113	562.862	558.094	558.231	555.150	551.852	552.531	541.564	542.915
67.5	488.457	484.976	485.898	485.861	488.655	489.451	487.311	488.741	482.302	480.938
70.0	420.976	424.176	426.627	427.699	429.117	430.117	427.218	428.369	424.772	420.923
72.5	357.152	362.086	366.924	369.683	370.266	370.904	366.862	368.477	366.671	361.453
75.0	293.029	299.785	306.883	311.793	312.000	311.772	306.302	308.978	308.100	302.192
77.5	229.092	235.563	241.952	246.455	245.247	243.400	237.122	239.704	237.547	232.659

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80.0	166.058	168.720	172.009	175.340	173.792	171.236	166.204	168.636	166.081	162.416
82.5	103.715	102.783	102.621	104.321	102.447	99.271	95.584	97.377	94.781	92.033
85.0	41.843	37.462	33.629	33.361	31.166	27.368	25.180	25.981	21.436	20.349
87.5	14.672	12.904	11.443	12.235	12.030	10.896	10.542	11.579	10.900	10.262
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	6803.349	6803.349	6803.349
2.5	7055.642	7058.327	7060.538
5.0	7333.595	7337.527	7341.467
7.5	7537.325	7539.712	7541.000
10.0	7683.255	7685.025	7686.270
12.5	7682.685	7679.930	7677.226
15.0	7551.740	7545.352	7533.652
17.5	7329.131	7326.329	7326.997
20.0	7048.948	7044.869	7033.594
22.5	6714.741	6721.658	6715.170
25.0	6329.098	6344.532	6336.453
27.5	5808.486	5830.978	5824.013
30.0	5146.918	5171.841	5162.428
32.5	4304.507	4337.616	4327.271
35.0	3297.731	3313.573	3297.040
37.5	2244.246	2230.037	2218.041
40.0	1684.056	1680.727	1666.357
42.5	1149.603	1121.531	1114.673
45.0	1055.732	1051.184	1044.582
47.5	981.472	979.013	974.491
50.0	932.938	931.638	929.271
52.5	885.677	883.789	884.051
55.0	838.504	835.493	838.831
57.5	767.628	764.735	767.609
60.0	695.715	693.201	696.388
62.5	623.782	621.628	625.167
65.0	549.423	549.423	553.945
67.5	486.300	486.216	487.811
70.0	420.803	422.518	421.677
72.5	355.142	358.853	355.542
75.0	287.919	294.868	289.408
77.5	221.466	224.439	218.187
80.0	153.712	153.622	146.965
82.5	86.091	82.801	75.744
85.0	18.045	11.838	4.522
87.5	9.073	5.937	2.261
90.0	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2726.45	N.A.	26.70
0-30	5486.24	N.A.	53.80
0-40	7575.04	N.A.	74.20
0-60	9297.25	N.A.	91.10
0-80	10142.21	N.A.	99.40
0-90	10205.05	N.A.	100.00
10-90	9536.14	N.A.	93.40
20-40	4848.59	N.A.	47.50
20-50	5814.01	N.A.	57.00
40-70	2265.34	N.A.	22.20
60-80	844.95	N.A.	8.30
70-80	301.83	N.A.	3.00
80-90	62.85	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	10205.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	668.91
10-20	2057.53
20-30	2759.79
30-40	2088.8
40-50	965.42
50-60	756.80
60-70	543.13
70-80	301.83
80-90	62.85
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

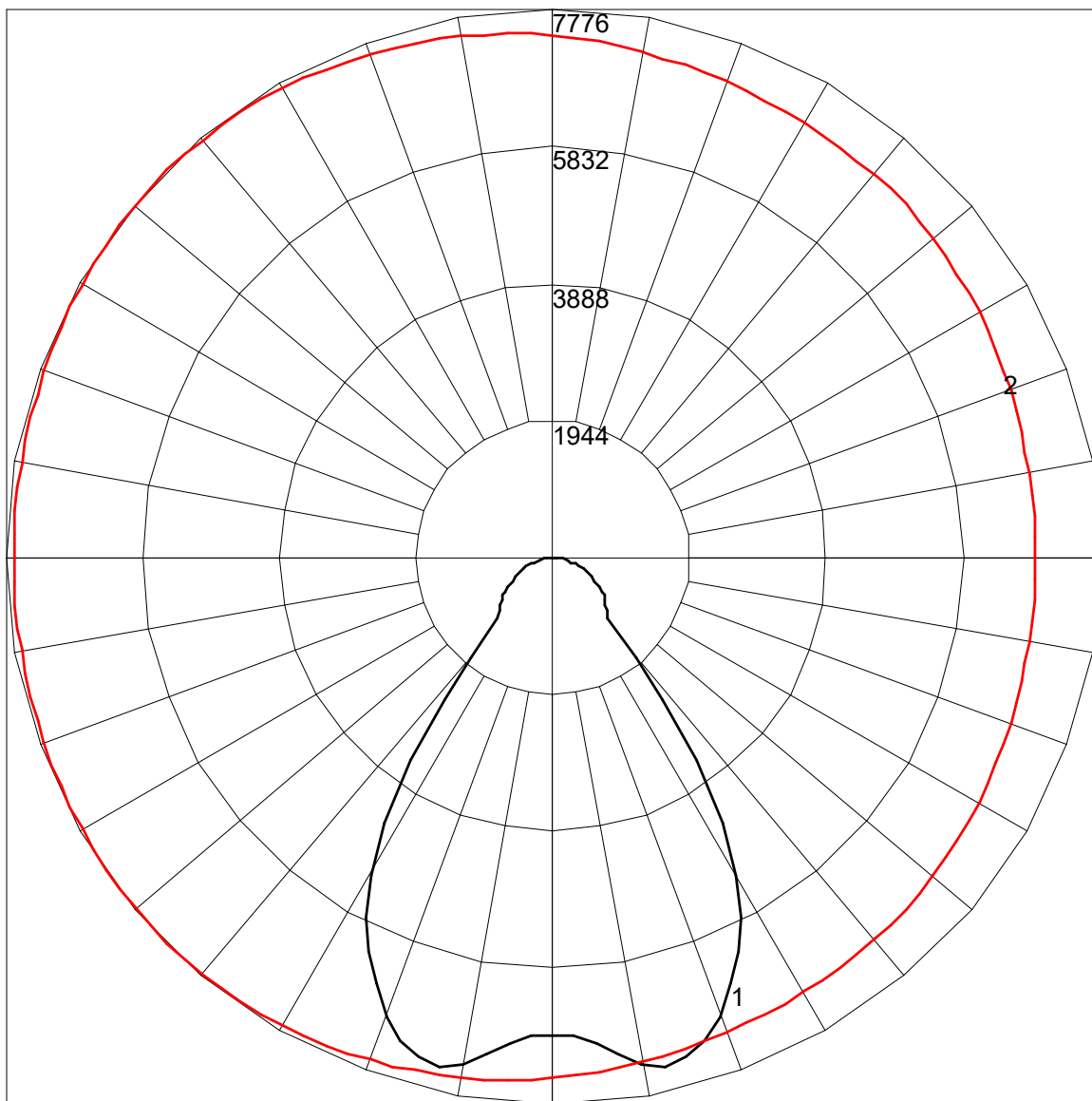
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VF2-L106-740-MF_.IES

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	214	214	214	214	209	209	209	209	199	199	199	191	191	191	183	183	183	179
1	200	194	188	183	196	190	185	180	182	178	174	176	172	169	169	167	164	161
2	187	176	166	159	183	172	164	157	166	159	153	161	155	150	156	151	147	143
3	175	160	149	140	171	157	147	139	152	144	136	148	140	134	144	137	132	129
4	163	147	134	125	160	144	133	124	140	130	122	136	128	121	133	126	120	116
5	153	135	122	113	150	133	121	112	130	119	111	126	117	110	123	115	109	106
6	144	125	112	103	141	123	111	102	120	109	101	118	108	101	115	107	100	97
7	136	116	103	94	133	115	102	94	112	101	93	110	100	93	107	99	92	89
8	128	108	95	87	126	107	95	86	105	94	86	103	93	86	101	92	85	82
9	121	101	89	80	119	100	88	80	98	87	80	96	86	79	95	86	79	76
10	115	95	83	75	113	94	82	74	92	81	74	91	81	74	89	80	74	71

POLAR GRAPH



Maximum Candela = 7776.102 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.)