



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VF2-L88-750-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-L88-750-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: 75, 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	8799
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	75
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	39534	44003	38296
55	37710	37571	37021
65	32205	32832	30334
75	30112	24788	26620
85	0	12378	3888

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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	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015
2.5	5644.749	5643.788	5643.242	5643.111	5643.391	5644.078	5645.169	5646.659	5648.543	5650.814
5.0	5495.612	5495.856	5496.568	5497.717	5499.271	5501.245	5509.887	5517.148	5524.720	5532.579
7.5	5567.744	5571.322	5573.767	5575.045	5578.342	5580.741	5581.993	5582.098	5576.914	5582.458
10.0	5759.768	5765.418	5769.680	5774.476	5778.771	5781.747	5783.428	5783.843	5793.189	5801.705
12.5	5910.854	5915.297	5917.913	5926.387	5932.338	5937.250	5944.688	5956.684	5968.210	5979.376
15.0	5969.338	5971.651	5975.909	5982.728	5989.490	5999.042	6014.236	6029.788	6043.677	6067.689
17.5	5878.492	5875.439	5881.423	5893.014	5906.895	5928.740	5951.329	5973.248	5999.645	6028.620
20.0	5700.959	5692.378	5699.570	5712.801	5731.451	5762.398	5780.218	5802.108	5829.252	5850.459
22.5	5460.521	5449.336	5457.076	5469.439	5486.207	5507.630	5523.467	5542.076	5554.336	5565.264
25.0	5198.964	5184.282	5188.064	5195.599	5201.703	5209.992	5211.090	5212.930	5204.847	5200.031
27.5	4882.636	4862.694	4864.758	4862.784	4853.333	4838.579	4827.035	4802.599	4793.226	4762.942
30.0	4474.567	4447.598	4453.643	4442.432	4424.049	4392.886	4363.796	4323.776	4285.038	4258.407
32.5	3949.423	3910.241	3917.939	3889.872	3854.419	3816.883	3764.256	3718.458	3689.649	3646.292
35.0	3173.770	3149.644	3164.144	3144.483	3128.853	3117.368	3083.298	3062.660	3042.744	2990.720
37.5	2335.489	2329.299	2340.966	2325.387	2324.807	2327.453	2328.727	2330.134	2322.700	2312.015
40.0	1701.905	1700.419	1710.949	1712.903	1720.529	1726.087	1727.805	1726.557	1712.389	1699.543
42.5	1068.320	1074.515	1097.575	1130.936	1166.425	1205.280	1238.289	1267.766	1292.810	1311.622
45.0	964.998	965.896	971.072	978.066	984.268	990.642	990.098	990.376	987.597	978.405
47.5	861.675	862.797	866.244	872.050	879.506	887.488	895.648	901.976	906.670	906.443
50.0	823.335	824.684	825.971	827.859	830.241	831.873	834.702	836.710	841.026	845.569
52.5	784.995	787.327	788.544	790.467	792.441	792.883	793.622	794.570	796.616	798.783
55.0	746.655	750.009	751.024	753.171	754.443	753.191	752.214	751.396	751.344	752.005
57.5	677.448	679.232	680.748	683.480	686.510	689.167	691.372	693.266	696.623	700.883
60.0	608.241	608.100	609.005	610.110	612.861	617.404	619.086	620.929	624.640	627.258
62.5	539.034	536.958	537.200	536.382	539.358	546.173	546.593	548.540	552.011	553.015
65.0	469.827	465.807	465.341	462.334	465.988	474.059	474.128	476.768	478.886	478.490
67.5	419.628	417.044	417.162	412.876	416.991	419.857	418.365	419.302	417.341	412.669
70.0	369.429	368.500	369.923	365.576	370.914	370.779	369.551	372.089	369.819	365.649
72.5	319.229	319.982	322.788	318.903	324.234	322.119	320.515	325.390	322.673	318.826
75.0	269.030	271.482	275.738	272.278	277.064	273.800	271.310	279.098	275.859	272.182
77.5	201.773	204.831	209.677	208.803	212.697	212.154	210.560	219.324	217.574	216.376
80.0	134.515	138.064	143.194	144.261	147.063	148.237	147.367	153.775	153.301	153.620
82.5	67.258	71.282	76.708	79.561	81.712	84.189	84.475	88.592	89.306	91.152
85.0	0.000	4.485	10.214	14.750	16.553	20.041	21.791	23.534	25.480	28.873
87.5	0.000	2.192	4.887	6.882	7.418	8.730	9.082	9.198	9.501	10.542
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	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015
2.5	5654.095	5660.640	5666.600	5672.849	5679.374	5686.160	5693.194	5700.462	5707.949	5715.641
5.0	5540.701	5549.064	5557.644	5566.418	5575.365	5583.659	5601.750	5617.208	5632.394	5647.277
7.5	5592.158	5606.269	5619.816	5632.787	5645.164	5656.931	5668.072	5674.934	5696.052	5709.601
10.0	5804.048	5815.285	5819.975	5830.952	5841.854	5852.363	5862.519	5872.346	5877.500	5900.983
12.5	5993.935	6012.271	6027.477	6039.110	6050.998	6064.576	6079.109	6094.658	6110.676	6120.184
15.0	6090.699	6115.608	6140.578	6156.778	6174.953	6193.532	6204.779	6219.123	6229.582	6238.240
17.5	6055.292	6080.204	6110.955	6133.474	6140.004	6154.084	6170.349	6182.563	6177.941	6183.376
20.0	5872.162	5902.124	5910.507	5938.913	5938.904	5939.673	5949.609	5961.322	5955.702	5961.972
22.5	5576.399	5579.587	5594.890	5585.789	5585.135	5581.998	5581.459	5592.969	5585.121	5587.645
25.0	5188.380	5180.734	5159.640	5147.769	5128.107	5119.864	5114.718	5111.498	5112.202	5118.175
27.5	4739.069	4703.896	4674.141	4642.894	4623.179	4611.692	4601.446	4595.418	4599.699	4604.212
30.0	4203.859	4163.799	4127.067	4107.523	4096.886	4075.298	4062.071	4058.283	4050.986	4046.085

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CANDELA TABULATION - (Cont.)

32.5	3604.109	3570.822	3552.130	3538.996	3514.684	3499.193	3487.847	3477.281	3471.607	3467.636
35.0	2953.164	2930.396	2925.012	2914.892	2905.160	2902.793	2874.815	2867.554	2864.824	2865.065
37.5	2311.059	2309.919	2302.640	2288.835	2285.755	2281.852	2279.133	2275.100	2270.435	2274.987
40.0	1702.017	1723.778	1735.840	1747.310	1751.625	1744.427	1737.862	1747.545	1754.392	1744.162
42.5	1319.006	1316.775	1302.286	1288.298	1309.778	1337.387	1345.339	1342.734	1317.574	1335.120
45.0	995.757	1032.563	1056.783	1067.954	1069.851	1058.084	1047.256	1066.768	1074.091	1061.383
47.5	905.079	903.672	900.524	895.844	914.388	927.663	928.290	921.634	913.634	912.176
50.0	848.584	851.152	852.086	847.927	844.567	844.043	845.397	848.909	845.583	843.665
52.5	801.097	802.656	803.400	801.933	798.509	796.521	794.536	793.407	792.669	791.995
55.0	753.021	754.475	753.848	752.271	749.441	747.141	746.329	744.236	743.906	743.489
57.5	705.151	705.648	705.463	703.070	700.381	698.059	696.369	694.773	696.149	696.510
60.0	631.411	636.827	643.261	647.861	652.018	649.965	646.498	642.453	639.586	632.756
62.5	556.220	560.618	565.439	569.961	575.177	582.250	585.511	587.968	566.530	548.155
65.0	480.774	484.165	487.892	492.137	495.802	499.875	500.400	500.778	478.982	451.093
67.5	409.476	407.488	410.588	413.606	415.929	415.918	414.641	410.011	396.216	382.305
70.0	361.591	357.378	355.717	351.666	346.367	335.714	328.314	328.519	323.992	326.293
72.5	313.257	307.996	307.066	301.691	295.552	287.037	277.791	270.935	265.256	272.013
75.0	264.577	259.072	258.910	251.921	245.792	240.819	233.929	225.848	221.471	226.602
77.5	209.752	206.760	207.920	201.654	197.864	196.688	190.203	180.838	177.224	180.083
80.0	148.474	147.647	148.872	145.181	143.947	144.909	140.452	133.456	131.575	132.652
82.5	87.797	88.714	90.605	89.588	89.933	91.190	88.361	84.405	84.293	85.337
85.0	27.558	29.889	32.886	34.612	36.095	37.654	37.301	36.535	37.240	38.258
87.5	8.980	9.409	10.127	10.399	10.187	9.837	8.926	7.955	6.918	5.801
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	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015
2.5	5723.524	5731.583	5739.803	5748.170	5756.669	5765.287	5778.730	5783.206	5793.026	5802.938
5.0	5661.829	5677.957	5694.970	5715.809	5736.568	5757.210	5777.702	5798.010	5818.101	5837.943
7.5	5734.317	5761.073	5786.982	5812.001	5836.089	5859.209	5881.327	5906.725	5934.199	5968.638
10.0	5922.448	5942.680	5961.632	5979.255	5994.993	6024.304	6047.972	6074.814	6096.670	6118.240
12.5	6124.648	6129.592	6134.955	6145.135	6160.708	6171.480	6178.432	6187.421	6205.384	6222.724
15.0	6232.696	6231.161	6229.642	6227.412	6228.131	6218.887	6214.295	6211.670	6210.765	6217.384
17.5	6184.868	6182.252	6171.343	6166.646	6170.376	6142.283	6126.642	6116.099	6108.682	6104.397
20.0	5971.439	5960.352	5954.166	5962.837	5945.051	5933.009	5923.971	5910.220	5906.227	5896.594
22.5	5604.241	5594.414	5601.057	5606.723	5614.408	5619.242	5611.248	5614.290	5604.288	5608.366
25.0	5129.363	5156.804	5151.289	5154.757	5170.973	5186.928	5219.045	5222.482	5243.115	5245.262
27.5	4601.344	4608.792	4623.577	4641.430	4663.661	4691.173	4724.017	4762.384	4791.492	4823.130
30.0	4054.152	4057.816	4069.140	4092.298	4119.132	4146.730	4179.548	4220.807	4269.350	4318.122
32.5	3469.283	3476.914	3490.041	3502.960	3524.098	3557.573	3606.162	3623.025	3654.939	3692.946
35.0	2864.237	2866.657	2873.971	2891.029	2905.784	2919.712	2939.147	2965.231	2996.668	3028.194
37.5	2276.296	2275.648	2281.917	2283.963	2288.292	2292.557	2306.233	2316.126	2317.066	2308.918
40.0	1743.071	1753.645	1747.067	1737.985	1750.890	1757.938	1749.542	1724.852	1689.376	1671.982
42.5	1337.565	1313.619	1327.552	1345.326	1342.689	1318.304	1296.421	1308.384	1303.939	1282.701
45.0	1029.812	1058.273	1068.569	1063.721	1051.543	1066.938	1069.416	1054.219	1015.548	953.006
47.5	915.443	910.348	909.267	918.005	926.602	928.438	910.309	890.487	891.497	891.386
50.0	842.565	840.086	841.378	846.955	850.863	844.666	842.797	842.886	844.027	843.094
52.5	791.025	791.397	792.718	796.576	800.879	796.432	795.063	795.180	791.356	786.546
55.0	743.967	743.683	744.491	744.410	745.834	746.889	741.396	731.293	725.132	723.116
57.5	695.645	696.467	693.205	690.838	693.792	681.336	668.254	659.635	655.347	654.730
60.0	640.593	638.441	628.196	630.420	619.626	597.109	579.480	580.041	579.898	583.675
62.5	546.083	551.328	548.940	544.981	538.299	521.086	493.195	478.150	506.647	515.095
65.0	454.787	466.256	469.328	467.286	461.676	448.875	429.319	420.960	427.252	448.719
67.5	389.994	397.276	399.603	399.652	395.747	387.967	384.118	379.532	373.196	378.203

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CANDELA TABULATION - (Cont.)

70.0	335.329	341.392	341.532	340.533	338.288	337.847	337.975	335.512	330.066	325.815
72.5	282.617	287.175	288.878	289.292	288.827	290.871	292.180	291.123	288.209	281.511
75.0	232.954	235.277	239.371	241.687	240.398	240.568	243.547	249.938	246.675	238.815
77.5	182.469	182.987	185.143	188.453	189.246	189.403	189.987	193.825	196.263	193.455
80.0	131.650	130.189	130.117	131.225	132.351	133.547	134.802	135.842	136.518	137.113
82.5	85.223	84.177	82.336	80.367	77.937	78.522	80.136	82.002	82.955	82.010
85.0	40.455	42.341	43.660	44.203	44.174	43.432	41.746	39.930	37.271	36.983
87.5	7.044	8.500	10.148	10.868	11.697	13.868	15.595	16.522	16.851	16.335
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	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015
2.5	5812.924	5822.966	5833.043	5843.137	5853.228	5863.298	5873.326	5883.028	5892.649	5902.170
5.0	5857.505	5883.387	5896.696	5916.935	5936.777	5956.201	5975.187	5993.291	6010.923	6028.066
7.5	5998.006	6026.234	6053.320	6079.366	6106.193	6131.890	6156.489	6179.225	6200.950	6222.819
10.0	6148.553	6179.463	6209.004	6237.241	6264.770	6292.552	6319.272	6343.704	6367.194	6386.571
12.5	6239.435	6261.185	6288.591	6315.263	6341.277	6367.913	6394.327	6418.480	6441.718	6461.820
15.0	6228.176	6239.342	6255.760	6276.950	6298.361	6319.243	6339.741	6363.723	6387.090	6410.006
17.5	6105.455	6115.659	6115.485	6135.582	6161.186	6187.412	6209.905	6227.456	6239.847	6253.357
20.0	5894.140	5901.938	5910.359	5927.169	5955.275	5984.913	5997.931	6017.509	6012.653	6010.669
22.5	5602.977	5608.708	5615.247	5628.252	5635.961	5650.681	5663.268	5679.997	5689.532	5702.550
25.0	5261.968	5275.806	5293.915	5308.631	5323.088	5338.599	5351.350	5358.297	5355.662	5351.236
27.5	4848.039	4877.361	4908.324	4929.038	4949.620	4963.493	4974.820	4968.908	4954.786	4931.181
30.0	4372.405	4410.717	4435.657	4459.013	4479.008	4485.025	4492.112	4476.165	4457.432	4424.868
32.5	3731.344	3765.189	3800.289	3836.588	3860.626	3870.294	3874.368	3850.599	3821.278	3779.564
35.0	3044.170	3054.376	3057.094	3061.367	3059.844	3056.072	3055.934	3041.333	3028.440	3013.936
37.5	2293.304	2272.326	2245.908	2222.257	2203.074	2188.978	2187.328	2185.193	2192.105	2204.255
40.0	1671.767	1661.747	1643.986	1623.385	1606.617	1595.139	1593.708	1595.401	1605.509	1620.557
42.5	1243.615	1192.241	1136.159	1079.848	1035.166	1007.367	1000.088	1012.420	1044.746	1090.749
45.0	941.820	938.992	936.284	933.145	932.366	933.003	934.781	935.741	938.686	941.913
47.5	889.138	884.415	879.325	874.197	870.541	869.301	869.473	869.368	871.518	876.427
50.0	838.792	832.749	828.069	825.833	822.988	823.865	823.985	823.217	823.623	825.489
52.5	782.862	780.643	778.092	778.323	776.865	778.710	778.496	777.592	777.401	776.922
55.0	722.902	725.021	726.583	729.881	730.854	733.308	733.008	731.924	730.664	727.971
57.5	658.599	662.735	664.748	663.454	661.367	660.831	660.389	660.246	661.351	663.665
60.0	587.900	591.286	593.238	590.653	588.693	587.611	587.771	587.906	589.479	593.750
62.5	518.962	521.603	522.544	519.665	516.140	514.549	515.153	515.787	519.030	522.693
65.0	452.946	453.472	453.066	449.888	444.471	441.685	442.534	443.613	451.049	452.426
67.5	388.641	388.455	388.176	392.074	390.314	389.858	391.360	392.269	397.726	394.235
70.0	328.580	334.384	338.610	342.107	340.270	339.368	340.186	342.263	346.700	344.151
72.5	279.146	283.502	288.418	291.166	290.809	288.461	289.012	292.694	295.597	293.860
75.0	233.372	233.314	238.844	241.264	242.262	237.955	237.838	243.773	245.275	244.946
77.5	187.182	185.201	188.560	191.792	189.631	183.694	181.303	188.223	191.581	193.774
80.0	137.523	134.463	136.961	138.161	134.465	128.092	124.768	131.195	137.341	140.602
82.5	80.793	82.003	87.511	88.904	83.625	74.224	68.232	75.791	86.743	90.362
85.0	36.716	38.974	43.387	46.123	41.340	23.388	11.697	25.419	43.097	49.196
87.5	14.553	14.265	14.297	16.622	14.684	9.648	5.849	11.026	17.024	19.137
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	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015
2.5	5911.571	5920.832	5929.936	5938.862	5947.592	5959.916	5964.129	5971.732	5979.112	5986.257

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CANDELA TABULATION - (Cont.)

5.0	6044.706	6059.782	6072.800	6085.379	6097.527	6109.249	6120.550	6131.433	6141.899	6151.947
7.5	6237.640	6252.450	6266.368	6279.422	6288.905	6303.180	6315.974	6329.356	6342.217	6354.587
10.0	6403.998	6420.787	6437.030	6452.899	6469.370	6485.653	6500.241	6515.327	6527.615	6538.979
12.5	6481.789	6501.679	6521.666	6541.841	6562.160	6582.674	6602.889	6624.687	6641.559	6657.730
15.0	6434.200	6459.271	6485.456	6513.475	6540.536	6565.444	6593.482	6623.356	6640.441	6650.070
17.5	6272.769	6308.815	6331.344	6356.022	6379.873	6409.413	6426.921	6447.797	6485.953	6476.439
20.0	6024.165	6049.767	6068.535	6085.352	6106.754	6113.483	6128.856	6133.752	6138.577	6146.425
22.5	5710.824	5723.668	5723.525	5731.087	5725.509	5731.294	5720.505	5721.129	5712.599	5701.523
25.0	5343.019	5327.512	5315.409	5292.909	5279.659	5255.521	5245.468	5218.027	5203.745	5185.015
27.5	4906.669	4869.914	4833.779	4800.577	4762.013	4729.580	4697.111	4670.244	4646.170	4626.195
30.0	4390.405	4355.403	4308.642	4251.336	4200.952	4155.055	4117.618	4081.392	4064.333	4039.353
32.5	3731.643	3685.797	3643.639	3603.708	3566.641	3535.640	3509.424	3474.878	3447.223	3427.126
35.0	2992.083	2976.054	2954.668	2930.552	2900.307	2874.527	2853.356	2840.152	2832.785	2815.380
37.5	2218.284	2232.527	2244.581	2253.230	2255.819	2250.568	2238.734	2228.153	2225.284	2205.929
40.0	1636.328	1649.345	1657.039	1655.530	1669.322	1698.451	1716.000	1720.758	1708.027	1690.808
42.5	1143.832	1198.169	1245.469	1280.808	1300.503	1302.494	1290.547	1307.260	1323.571	1319.341
45.0	945.752	949.617	952.186	962.589	1020.649	1055.744	1068.815	1063.938	1046.466	1051.252
47.5	880.843	886.743	891.004	893.421	893.986	892.905	909.415	923.066	917.805	906.510
50.0	826.251	829.435	832.895	836.899	838.531	837.898	836.132	833.549	834.993	827.989
52.5	777.026	776.330	776.822	778.930	782.432	785.797	784.853	781.854	778.635	775.176
55.0	724.603	720.595	717.743	717.645	719.177	724.127	731.419	733.583	731.506	728.181
57.5	661.724	659.086	655.962	652.722	652.994	655.621	661.870	674.751	686.906	682.050
60.0	591.490	589.663	587.869	584.986	581.706	580.070	577.585	594.634	617.173	628.202
62.5	522.080	522.103	520.820	517.942	510.433	480.611	493.834	521.117	539.431	549.334
65.0	454.560	456.182	455.845	452.572	430.218	423.408	431.354	450.910	465.760	473.100
67.5	391.988	392.196	392.451	381.686	376.587	382.853	386.569	390.074	399.521	404.553
70.0	342.485	337.981	332.443	330.151	334.552	338.701	341.044	341.187	342.090	345.096
72.5	291.401	286.697	283.214	286.740	291.905	295.177	296.568	295.442	293.398	293.944
75.0	241.173	236.374	237.109	242.100	251.651	255.423	249.145	246.189	245.971	247.063
77.5	190.717	187.460	189.409	197.532	201.906	200.518	196.722	196.100	195.414	193.882
80.0	138.179	135.702	140.771	141.942	142.808	143.403	141.789	139.741	137.800	135.968
82.5	89.388	84.695	84.985	87.360	88.828	88.260	86.232	83.880	82.579	84.322
85.0	46.460	42.570	40.826	41.577	42.062	44.646	46.246	47.289	47.527	47.160
87.5	17.190	17.182	17.413	19.091	19.472	18.990	17.892	15.953	13.620	12.679
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	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015
2.5	5993.153	5999.789	6006.154	6012.236	6018.023	6023.506	6028.673	6033.514	6038.020	6042.180
5.0	6161.576	6171.274	6181.667	6191.396	6200.445	6208.797	6216.438	6222.076	6233.025	6243.254
7.5	6366.490	6377.943	6388.953	6398.900	6407.209	6412.825	6424.566	6434.014	6442.703	6450.602
10.0	6549.932	6560.499	6570.695	6580.527	6586.383	6593.269	6598.689	6604.085	6609.417	6614.635
12.5	6668.976	6676.475	6684.962	6694.461	6704.747	6697.606	6691.544	6686.796	6683.320	6680.058
15.0	6664.367	6672.271	6674.608	6682.599	6678.431	6672.559	6661.706	6657.457	6642.737	6631.913
17.5	6478.567	6487.566	6489.122	6488.525	6485.231	6486.917	6483.249	6470.393	6459.303	6454.954
20.0	6139.479	6142.845	6151.776	6145.073	6145.565	6158.555	6154.064	6145.056	6146.375	6143.619
22.5	5692.162	5682.685	5678.864	5675.962	5676.198	5682.998	5688.871	5702.120	5715.052	5723.978
25.0	5174.656	5185.582	5158.993	5150.080	5148.382	5154.579	5165.448	5176.553	5193.352	5221.321
27.5	4611.577	4597.152	4589.462	4592.949	4589.226	4588.341	4599.211	4605.130	4627.993	4649.350
30.0	4016.440	4005.486	3998.401	3987.005	3990.733	3998.623	4003.579	4015.775	4035.232	4047.049
32.5	3410.391	3396.023	3385.457	3374.182	3368.583	3374.530	3383.724	3391.231	3398.455	3413.803
35.0	2795.165	2783.385	2772.677	2762.368	2750.901	2737.458	2737.099	2749.526	2759.638	2758.344
37.5	2210.201	2195.361	2188.707	2179.361	2165.696	2153.185	2140.746	2135.361	2133.831	2105.544
40.0	1694.468	1691.348	1668.792	1660.522	1663.765	1648.282	1622.385	1616.811	1618.925	1608.231

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CANDELA TABULATION - (Cont.)

42.5	1295.527	1273.777	1285.781	1272.312	1238.342	1266.037	1265.642	1249.900	1214.576	1182.971
45.0	1048.436	1032.032	998.312	1019.977	1027.133	1017.476	992.083	1003.765	1010.363	1006.894
47.5	894.265	889.142	890.542	885.521	882.966	887.123	891.145	891.100	881.175	865.627
50.0	822.266	819.263	817.720	818.883	818.786	819.227	814.552	814.290	815.097	816.397
52.5	771.801	770.118	769.465	769.166	767.591	767.498	767.669	767.926	768.175	769.199
55.0	727.461	727.042	726.063	726.223	725.679	724.395	723.549	724.491	726.169	728.157
57.5	683.156	686.324	685.806	686.645	685.176	682.008	682.354	683.757	686.202	687.882
60.0	626.245	636.326	637.920	628.986	634.494	636.107	639.433	643.076	646.073	641.083
62.5	554.992	554.907	548.940	549.968	566.859	587.057	584.702	581.539	574.795	569.330
65.0	476.007	472.169	461.206	457.953	484.009	506.095	505.936	505.275	501.075	497.035
67.5	405.134	402.967	395.938	388.574	403.250	419.842	426.580	427.565	427.083	423.972
70.0	346.205	345.675	339.610	330.956	330.543	340.715	346.706	352.101	359.330	360.884
72.5	293.175	290.611	285.227	274.775	269.583	280.059	289.623	296.582	302.740	305.037
75.0	243.367	238.457	235.007	229.640	225.876	231.043	238.009	242.953	246.602	249.387
77.5	189.443	186.209	184.749	182.992	181.809	184.235	188.343	190.928	191.887	194.170
80.0	134.038	133.263	133.995	135.381	136.080	137.174	138.891	140.288	140.832	141.854
82.5	85.725	87.171	87.997	88.310	88.403	88.677	89.412	90.079	90.232	90.205
85.0	46.346	45.174	43.556	41.737	41.174	40.682	40.386	40.113	39.861	39.013
87.5	11.863	10.648	9.582	8.685	9.673	10.598	11.470	12.305	13.238	13.711
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	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015	5866.015
2.5	6045.987	6049.431	6051.876	6056.362	6061.374	6066.023	6070.300	6074.199	6077.710	6080.829
5.0	6252.939	6262.049	6270.551	6278.410	6285.593	6292.062	6297.782	6302.672	6316.470	6319.828
7.5	6457.679	6463.900	6469.230	6480.987	6481.977	6486.350	6489.932	6492.696	6494.613	6495.866
10.0	6619.747	6625.739	6627.771	6625.234	6622.797	6620.456	6621.808	6622.882	6623.645	6624.063
12.5	6677.055	6670.201	6659.925	6651.553	6644.821	6638.848	6633.586	6630.076	6627.746	6625.813
15.0	6622.602	6606.869	6589.155	6574.476	6562.795	6550.579	6539.504	6529.814	6522.717	6517.686
17.5	6440.418	6421.696	6409.132	6395.692	6382.264	6373.660	6355.860	6345.765	6333.516	6324.882
20.0	6132.679	6136.629	6119.985	6115.020	6112.190	6105.737	6107.684	6096.313	6089.210	6083.216
22.5	5742.847	5737.716	5745.748	5751.293	5760.623	5772.028	5781.890	5794.107	5796.674	5802.613
25.0	5243.259	5270.811	5290.814	5309.785	5329.918	5358.008	5381.518	5408.318	5426.573	5447.961
27.5	4681.780	4717.607	4763.198	4792.120	4826.925	4853.590	4898.822	4926.268	4957.192	4986.465
30.0	4066.170	4096.471	4136.553	4194.292	4224.962	4274.482	4333.698	4362.610	4386.425	4411.590
32.5	3430.934	3443.898	3460.300	3496.587	3532.753	3551.124	3589.419	3630.920	3650.627	3678.010
35.0	2756.792	2754.364	2756.915	2771.861	2813.016	2817.194	2820.056	2836.899	2832.659	2833.884
37.5	2125.082	2120.791	2109.225	2093.229	2083.033	2064.291	2032.823	2003.638	1977.024	1953.851
40.0	1584.227	1555.735	1513.408	1496.541	1502.142	1501.912	1492.084	1482.224	1472.567	1463.032
42.5	1189.681	1199.667	1198.678	1185.757	1168.137	1140.696	1109.548	1078.428	1046.448	1016.469
45.0	994.341	972.363	941.033	920.945	925.379	925.838	922.894	922.561	918.944	913.917
47.5	866.420	865.996	865.643	865.795	865.900	863.789	860.280	857.412	853.223	848.588
50.0	818.239	816.664	815.318	814.772	813.820	811.153	810.575	809.809	808.232	805.800
52.5	771.614	772.475	772.629	771.805	770.833	769.212	768.796	768.652	767.546	765.436
55.0	729.979	731.305	730.336	729.564	728.430	726.860	726.963	727.448	726.822	725.044
57.5	689.574	690.310	689.146	683.799	678.882	673.042	670.688	668.834	665.153	663.190
60.0	634.859	628.415	622.277	616.647	613.964	607.935	605.826	604.739	599.206	598.635
62.5	563.907	558.805	553.940	549.017	547.965	543.164	540.867	541.104	533.097	533.590
65.0	492.666	488.979	485.313	481.202	481.321	478.664	475.820	476.406	466.949	468.114
67.5	421.159	418.158	418.954	418.921	421.331	422.017	420.172	421.405	415.852	414.676
70.0	362.976	365.735	367.848	368.773	369.995	370.858	368.358	369.351	366.249	362.930
72.5	307.945	312.200	316.371	318.750	319.252	319.802	316.317	317.711	316.153	311.654
75.0	252.657	258.482	264.602	268.836	269.014	268.817	264.101	266.408	265.651	260.558
77.5	197.529	203.109	208.618	212.500	211.457	209.865	204.452	206.679	204.819	200.604

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CANDELA TABULATION - (Cont.)

80.0	143.180	145.474	148.310	151.183	149.848	147.643	143.305	145.402	143.199	140.039
82.5	89.426	88.622	88.482	89.949	88.333	85.594	82.414	83.961	81.722	79.352
85.0	36.078	32.300	28.996	28.765	26.872	23.597	21.710	22.401	18.483	17.545
87.5	12.651	11.126	9.866	10.549	10.372	9.395	9.089	9.984	9.398	8.848
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>175.0</u>	<u>177.5</u>	<u>180.0</u>
0.0	5866.015	5866.015	5866.015
2.5	6083.548	6085.863	6087.770
5.0	6323.206	6326.597	6329.994
7.5	6498.868	6500.926	6502.037
10.0	6624.692	6626.218	6627.291
12.5	6624.200	6621.825	6619.493
15.0	6511.296	6505.789	6495.701
17.5	6319.357	6316.942	6317.517
20.0	6077.777	6074.259	6064.538
22.5	5789.615	5795.579	5789.985
25.0	5457.104	5470.412	5463.446
27.5	5008.220	5027.613	5021.608
30.0	4437.799	4459.289	4451.173
32.5	3711.452	3739.999	3731.081
35.0	2843.385	2857.044	2842.790
37.5	1935.045	1922.793	1912.450
40.0	1452.034	1449.165	1436.775
42.5	991.216	967.012	961.099
45.0	910.278	906.357	900.665
47.5	846.249	844.129	840.230
50.0	804.402	803.281	801.240
52.5	763.652	762.025	762.251
55.0	722.978	720.383	723.261
57.5	661.867	659.373	661.852
60.0	599.863	597.695	600.443
62.5	537.840	535.983	539.034
65.0	473.726	473.726	477.625
67.5	419.300	419.228	420.603
70.0	362.826	364.305	363.580
72.5	306.212	309.412	306.558
75.0	248.251	254.242	249.535
77.5	190.953	193.517	188.126
80.0	132.535	132.457	126.717
82.5	74.230	71.393	65.308
85.0	15.559	10.207	3.899
87.5	7.823	5.119	1.950
90.0	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2350.81	N.A.	26.70
0-30	4730.37	N.A.	53.80
0-40	6531.38	N.A.	74.20
0-60	8016.32	N.A.	91.10
0-80	8744.86	N.A.	99.40
0-90	8799.05	N.A.	100.00
10-90	8222.29	N.A.	93.40
20-40	4180.57	N.A.	47.50
20-50	5012.98	N.A.	57.00
40-70	1953.23	N.A.	22.20
60-80	728.54	N.A.	8.30
70-80	260.24	N.A.	3.00
80-90	54.19	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	8799.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	576.75
10-20	1774.06
20-30	2379.56
30-40	1801.01
40-50	832.41
50-60	652.53
60-70	468.30
70-80	260.24
80-90	54.19
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

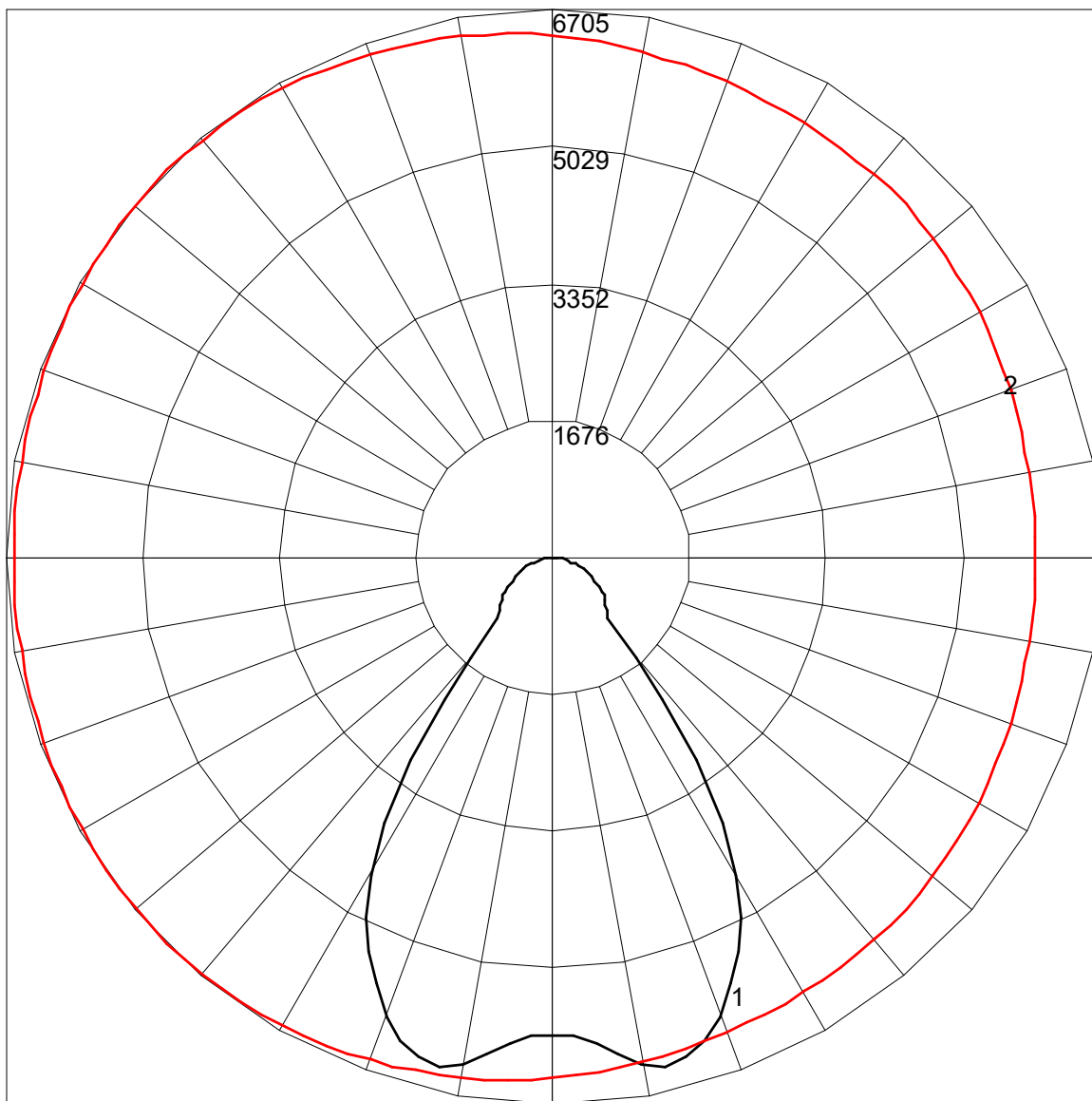
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VF2-L88-750-MF_.IES

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	184	184	184	184	180	180	180	180	172	172	172	165	165	165	158	158	158	155
1	173	167	162	158	169	164	159	155	157	154	150	151	148	146	146	144	141	138
2	161	151	143	137	157	149	141	135	143	137	132	139	134	129	134	130	126	124
3	151	138	128	121	147	136	127	119	131	124	118	127	121	116	124	118	114	111
4	141	126	116	108	138	125	115	107	121	112	106	118	110	104	115	108	103	100
5	132	116	105	97	129	115	104	97	112	103	96	109	101	95	106	100	94	91
6	124	108	96	88	122	106	96	88	104	94	87	101	93	87	99	92	86	83
7	117	100	89	81	115	99	88	81	97	87	80	95	86	80	93	85	79	77
8	110	93	82	75	108	92	82	74	90	81	74	88	80	74	87	79	73	71
9	104	87	76	69	102	86	76	69	85	75	69	83	75	68	82	74	68	66
10	99	82	71	64	97	81	71	64	79	70	64	78	70	64	77	69	64	61

POLAR GRAPH



Maximum Candela = 6704.747 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.)