



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VF2-L70-750-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-L70-750-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: 55, 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	7009
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	55
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	31492	35053	30506
55	30039	29929	29490
65	25654	26154	24164
75	23987	19746	21205
85	0	9860	3097

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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	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814
2.5	4496.555	4495.790	4495.355	4495.251	4495.474	4496.021	4496.890	4498.077	4499.578	4501.387
5.0	4377.755	4377.950	4378.517	4379.432	4380.670	4382.242	4389.127	4394.910	4400.942	4407.202
7.5	4435.214	4438.065	4440.012	4441.030	4443.656	4445.568	4446.564	4446.648	4442.519	4446.935
10.0	4588.179	4592.679	4596.075	4599.895	4603.316	4605.687	4607.027	4607.357	4614.802	4621.585
12.5	4708.532	4712.071	4714.155	4720.906	4725.646	4729.559	4735.484	4745.040	4754.222	4763.117
15.0	4755.121	4756.963	4760.354	4765.787	4771.173	4778.783	4790.886	4803.274	4814.339	4833.466
17.5	4682.753	4680.321	4685.087	4694.321	4705.379	4722.781	4740.775	4758.235	4779.263	4802.344
20.0	4541.332	4534.496	4540.225	4550.766	4565.622	4590.274	4604.469	4621.906	4643.529	4660.423
22.5	4349.802	4340.891	4347.057	4356.906	4370.263	4387.328	4399.944	4414.767	4424.534	4433.239
25.0	4141.448	4129.752	4132.765	4138.767	4143.630	4150.232	4151.107	4152.573	4146.134	4142.298
27.5	3889.464	3873.578	3875.222	3873.649	3866.121	3854.368	3845.173	3825.706	3818.240	3794.116
30.0	3564.399	3542.916	3547.731	3538.801	3524.157	3499.333	3476.160	3444.281	3413.423	3392.208
32.5	3146.074	3114.863	3120.995	3098.636	3070.396	3040.494	2998.572	2962.090	2939.141	2904.603
35.0	2528.196	2508.978	2520.528	2504.866	2492.416	2483.267	2456.127	2439.687	2423.822	2382.380
37.5	1860.429	1855.498	1864.792	1852.382	1851.920	1854.027	1855.043	1856.163	1850.241	1841.730
40.0	1355.722	1354.538	1362.926	1364.483	1370.557	1374.985	1376.354	1375.359	1364.074	1353.841
42.5	851.014	855.948	874.318	900.893	929.164	960.115	986.409	1009.891	1029.841	1044.826
45.0	768.708	769.424	773.546	779.118	784.059	789.136	788.703	788.925	786.711	779.388
47.5	686.402	687.295	690.042	694.666	700.606	706.965	713.465	718.506	722.245	722.064
50.0	655.861	656.935	657.961	659.464	661.362	662.662	664.916	666.516	669.953	673.572
52.5	625.319	627.177	628.147	629.678	631.251	631.603	632.192	632.947	634.576	636.303
55.0	594.778	597.450	598.258	599.969	600.982	599.985	599.207	598.555	598.514	599.040
57.5	539.648	541.070	542.277	544.454	546.867	548.983	550.741	552.250	554.923	558.317
60.0	484.519	484.406	485.128	486.008	488.199	491.818	493.158	494.627	497.583	499.668
62.5	429.390	427.736	427.929	427.276	429.647	435.076	435.411	436.962	439.727	440.526
65.0	374.260	371.058	370.686	368.291	371.201	377.630	377.686	379.789	381.476	381.161
67.5	334.272	332.213	332.307	328.893	332.171	334.454	333.266	334.013	332.450	328.728
70.0	294.284	293.544	294.677	291.214	295.466	295.359	294.381	296.403	294.594	291.273
72.5	254.295	254.895	257.130	254.035	258.281	256.597	255.320	259.203	257.039	253.974
75.0	214.307	216.260	219.650	216.894	220.706	218.107	216.123	222.328	219.747	216.817
77.5	160.730	163.167	167.027	166.331	169.432	169.000	167.730	174.712	173.318	172.363
80.0	107.154	109.981	114.067	114.917	117.149	118.084	117.392	122.496	122.119	122.372
82.5	53.577	56.783	61.105	63.378	65.091	67.065	67.293	70.572	71.141	72.611
85.0	0.000	3.573	8.137	11.751	13.186	15.965	17.359	18.748	20.298	23.000
87.5	0.000	1.746	3.894	5.482	5.910	6.954	7.235	7.327	7.569	8.397
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	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814
2.5	4504.001	4509.214	4513.962	4518.940	4524.137	4529.543	4535.147	4540.936	4546.901	4553.028
5.0	4413.673	4420.334	4427.169	4434.158	4441.285	4447.892	4462.304	4474.617	4486.714	4498.569
7.5	4454.662	4465.903	4476.695	4487.027	4496.886	4506.260	4515.135	4520.601	4537.423	4548.217
10.0	4623.452	4632.403	4636.139	4644.884	4653.567	4661.939	4670.029	4677.857	4681.963	4700.669
12.5	4774.715	4789.320	4801.434	4810.700	4820.170	4830.986	4842.563	4854.949	4867.709	4875.283
15.0	4851.796	4871.638	4891.529	4904.434	4918.912	4933.711	4942.670	4954.097	4962.428	4969.325
17.5	4823.590	4843.435	4867.931	4885.870	4891.071	4902.287	4915.244	4924.974	4921.292	4925.621
20.0	4677.710	4701.578	4708.256	4730.884	4730.877	4731.490	4739.404	4748.735	4744.258	4749.253
22.5	4442.109	4444.649	4456.839	4449.589	4449.068	4446.569	4446.139	4455.308	4449.057	4451.068
25.0	4133.017	4126.926	4110.122	4100.666	4085.003	4078.437	4074.338	4071.773	4072.334	4077.091
27.5	3775.100	3747.081	3723.378	3698.487	3682.782	3673.632	3665.470	3660.668	3664.078	3667.673
30.0	3348.756	3316.844	3287.584	3272.015	3263.542	3246.345	3235.809	3232.791	3226.979	3223.074

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CANDELA TABULATION - (Cont.)

32.5	2871.000	2844.484	2829.595	2819.132	2799.765	2787.425	2778.387	2769.970	2765.450	2762.287
35.0	2352.463	2334.327	2330.038	2321.976	2314.224	2312.339	2290.051	2284.268	2282.093	2282.285
37.5	1840.969	1840.061	1834.263	1823.265	1820.811	1817.703	1815.537	1812.324	1808.608	1812.234
40.0	1355.812	1373.147	1382.754	1391.891	1395.329	1389.595	1384.365	1392.079	1397.533	1389.384
42.5	1050.709	1048.931	1037.389	1026.247	1043.357	1065.351	1071.685	1069.609	1049.568	1063.545
45.0	793.211	822.530	841.823	850.722	852.234	842.861	834.235	849.778	855.611	845.488
47.5	720.978	719.857	717.349	713.621	728.393	738.968	739.467	734.165	727.793	726.631
50.0	675.974	678.020	678.764	675.451	672.775	672.357	673.435	676.233	673.584	672.056
52.5	638.147	639.389	639.981	638.812	636.085	634.502	632.920	632.021	631.433	630.896
55.0	599.849	601.008	600.508	599.252	596.998	595.166	594.519	592.852	592.589	592.256
57.5	561.717	562.113	561.965	560.059	557.917	556.068	554.722	553.450	554.546	554.834
60.0	502.977	507.291	512.415	516.080	519.391	517.756	514.995	511.773	509.489	504.048
62.5	443.080	446.583	450.423	454.026	458.180	463.815	466.413	468.370	451.292	436.656
65.0	382.980	385.682	388.650	392.032	394.951	398.196	398.614	398.915	381.553	359.337
67.5	326.185	324.601	327.070	329.474	331.325	331.316	330.299	326.611	315.622	304.541
70.0	288.040	284.684	283.361	280.134	275.912	267.427	261.531	261.695	258.089	259.922
72.5	249.538	245.347	244.606	240.324	235.434	228.650	221.285	215.824	211.300	216.683
75.0	210.759	206.375	206.245	200.677	195.796	191.834	186.346	179.908	176.421	180.509
77.5	167.086	164.704	165.627	160.635	157.616	156.680	151.514	144.054	141.175	143.452
80.0	118.273	117.615	118.590	115.650	114.667	115.433	111.883	106.310	104.812	105.669
82.5	69.939	70.669	72.176	71.365	71.640	72.642	70.388	67.236	67.147	67.978
85.0	21.953	23.810	26.197	27.572	28.753	29.995	29.714	29.104	29.666	30.476
87.5	7.153	7.495	8.068	8.284	8.116	7.836	7.111	6.337	5.511	4.621
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>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	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814
2.5	4559.307	4565.727	4572.275	4578.940	4585.711	4592.575	4603.284	4606.850	4614.672	4622.568
5.0	4510.162	4523.009	4536.562	4553.162	4569.698	4586.141	4602.465	4618.642	4634.647	4650.453
7.5	4567.905	4589.218	4609.857	4629.787	4648.976	4667.393	4685.011	4705.243	4727.129	4754.563
10.0	4717.768	4733.885	4748.982	4763.020	4775.557	4798.905	4817.759	4839.141	4856.551	4873.734
12.5	4878.839	4882.777	4887.050	4895.159	4907.564	4916.145	4921.683	4928.843	4943.153	4956.965
15.0	4964.909	4963.686	4962.476	4960.699	4961.272	4953.909	4950.250	4948.159	4947.439	4952.711
17.5	4926.810	4924.726	4916.036	4912.294	4915.265	4892.887	4880.428	4872.029	4866.120	4862.707
20.0	4756.794	4747.962	4743.035	4749.942	4735.774	4726.181	4718.981	4708.027	4704.847	4697.173
22.5	4464.287	4456.459	4461.751	4466.264	4472.386	4476.237	4469.869	4472.292	4464.325	4467.574
25.0	4086.004	4107.863	4103.470	4106.232	4119.150	4131.859	4157.443	4160.182	4176.617	4178.328
27.5	3665.389	3671.321	3683.098	3697.321	3715.030	3736.946	3763.109	3793.672	3816.858	3842.061
30.0	3229.501	3232.420	3241.440	3259.887	3281.263	3303.247	3329.390	3362.256	3400.925	3439.777
32.5	2763.599	2769.678	2780.136	2790.426	2807.264	2833.930	2872.636	2886.068	2911.491	2941.767
35.0	2281.625	2283.553	2289.380	2302.968	2314.721	2325.816	2341.298	2362.076	2387.118	2412.231
37.5	1813.277	1812.760	1817.754	1819.384	1822.832	1826.230	1837.124	1845.005	1845.754	1839.264
40.0	1388.515	1396.937	1391.697	1384.463	1394.742	1400.358	1393.670	1374.002	1345.742	1331.886
42.5	1065.492	1046.417	1057.515	1071.674	1069.573	1050.149	1032.717	1042.247	1038.706	1021.789
45.0	820.339	843.011	851.213	847.350	837.649	849.913	851.887	839.781	808.976	759.156
47.5	729.234	725.175	724.314	731.275	738.122	739.585	725.144	709.354	710.158	710.070
50.0	671.180	669.205	670.234	674.677	677.790	672.853	671.364	671.436	672.344	671.601
52.5	630.123	630.420	631.472	634.545	637.973	634.430	633.340	633.433	630.387	626.555
55.0	592.637	592.411	593.054	592.991	594.125	594.965	590.590	582.541	577.634	576.028
57.5	554.144	554.799	552.201	550.315	552.669	542.746	532.326	525.459	522.043	521.552
60.0	510.291	508.576	500.416	502.187	493.589	475.652	461.608	462.055	461.942	464.950
62.5	435.005	439.183	437.280	434.127	428.805	415.092	392.875	380.890	403.590	410.320
65.0	362.280	371.415	373.863	372.236	367.767	357.570	341.992	335.333	340.344	357.446
67.5	310.666	316.466	318.320	318.359	315.248	309.051	305.985	302.332	297.285	301.272

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70.0	267.120	271.950	272.062	271.265	269.477	269.125	269.227	267.265	262.928	259.541
72.5	225.130	228.761	230.117	230.447	230.077	231.705	232.748	231.906	229.584	224.249
75.0	185.569	187.419	190.681	192.526	191.499	191.634	194.007	199.099	196.499	190.237
77.5	145.353	145.765	147.484	150.120	150.752	150.877	151.342	154.399	156.341	154.104
80.0	104.871	103.707	103.650	104.533	105.429	106.382	107.382	108.210	108.749	109.223
82.5	67.888	67.054	65.588	64.019	62.084	62.550	63.835	65.321	66.081	65.328
85.0	32.227	33.729	34.779	35.212	35.189	34.597	33.254	31.807	29.689	29.459
87.5	5.611	6.771	8.084	8.658	9.318	11.047	12.423	13.161	13.423	13.013
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	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814
2.5	4630.523	4638.522	4646.549	4654.590	4662.629	4670.650	4678.638	4686.366	4694.031	4701.615
5.0	4666.036	4686.653	4697.255	4713.377	4729.182	4744.655	4759.779	4774.201	4788.246	4801.903
7.5	4777.957	4800.443	4822.020	4842.768	4864.138	4884.608	4904.203	4922.314	4939.620	4957.040
10.0	4897.882	4922.504	4946.036	4968.530	4990.459	5012.590	5033.874	5053.337	5072.049	5087.485
12.5	4970.278	4987.603	5009.434	5030.681	5051.403	5072.622	5093.663	5112.903	5131.414	5147.427
15.0	4961.309	4970.203	4983.281	5000.162	5017.218	5033.852	5050.180	5069.284	5087.898	5106.153
17.5	4863.550	4871.679	4871.539	4887.549	4907.945	4928.836	4946.754	4960.735	4970.605	4981.367
20.0	4695.219	4701.430	4708.138	4721.528	4743.918	4767.527	4777.897	4793.493	4789.625	4788.044
22.5	4463.280	4467.845	4473.055	4483.414	4489.555	4501.281	4511.308	4524.634	4532.230	4542.600
25.0	4191.636	4202.659	4217.085	4228.807	4240.323	4252.680	4262.836	4268.370	4266.272	4262.747
27.5	3861.904	3885.262	3909.927	3926.427	3942.822	3953.873	3962.896	3958.187	3946.937	3928.134
30.0	3483.019	3513.538	3533.404	3552.009	3567.937	3572.730	3578.376	3565.672	3550.749	3524.809
32.5	2972.355	2999.315	3027.276	3056.191	3075.339	3083.041	3086.286	3067.352	3043.995	3010.766
35.0	2424.958	2433.088	2435.254	2438.657	2437.444	2434.439	2434.329	2422.698	2412.428	2400.874
37.5	1826.825	1810.114	1789.071	1770.229	1754.948	1743.720	1742.405	1740.704	1746.211	1755.890
40.0	1331.715	1323.733	1309.585	1293.174	1279.817	1270.672	1269.533	1270.881	1278.934	1290.921
42.5	990.653	949.728	905.055	860.198	824.604	802.459	796.661	806.485	832.235	868.881
45.0	750.245	747.992	745.835	743.335	742.715	743.221	744.638	745.402	747.748	750.320
47.5	708.279	704.516	700.462	696.377	693.464	692.478	692.614	692.530	694.243	698.154
50.0	668.175	663.359	659.631	657.851	655.584	656.284	656.379	655.767	656.091	657.576
52.5	623.621	621.854	619.821	620.005	618.844	620.314	620.143	619.423	619.270	618.889
55.0	575.857	577.546	578.789	581.417	582.192	584.147	583.908	583.044	582.040	579.895
57.5	524.634	527.929	529.533	528.501	526.839	526.412	526.061	525.946	526.826	528.669
60.0	468.316	471.013	472.568	470.509	468.948	468.086	468.214	468.321	469.574	472.976
62.5	413.401	415.504	416.254	413.960	411.152	409.886	410.366	410.871	413.455	416.372
65.0	360.813	361.231	360.909	358.377	354.062	351.843	352.519	353.378	359.302	360.398
67.5	309.588	309.440	309.217	312.323	310.921	310.557	311.754	312.478	316.825	314.044
70.0	261.744	266.367	269.734	272.520	271.056	270.337	270.989	272.644	276.178	274.148
72.5	222.365	225.835	229.751	231.940	231.656	229.786	230.224	233.157	235.470	234.086
75.0	185.903	185.855	190.261	192.189	192.984	189.553	189.459	194.187	195.384	195.122
77.5	149.107	147.530	150.205	152.779	151.059	146.330	144.424	149.937	152.612	154.359
80.0	109.550	107.112	109.102	110.057	107.114	102.038	99.389	104.508	109.405	112.002
82.5	64.359	65.323	69.710	70.821	66.615	59.126	54.353	60.375	69.099	71.982
85.0	29.247	31.046	34.561	36.742	32.932	18.631	9.318	20.249	34.331	39.189
87.5	11.593	11.364	11.389	13.241	11.697	7.686	4.659	8.784	13.562	15.245
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	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814
2.5	4709.104	4716.482	4723.733	4730.844	4737.798	4747.616	4750.971	4757.028	4762.907	4768.598

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CANDELA TABULATION - (Cont.)

5.0	4815.158	4827.167	4837.537	4847.557	4857.234	4866.572	4875.574	4884.243	4892.580	4900.585
7.5	4968.847	4980.645	4991.732	5002.131	5009.684	5021.056	5031.248	5041.907	5052.152	5062.006
10.0	5101.367	5114.741	5127.680	5140.321	5153.442	5166.412	5178.033	5190.051	5199.839	5208.891
12.5	5163.334	5179.178	5195.100	5211.171	5227.357	5243.698	5259.801	5277.165	5290.605	5303.487
15.0	5125.425	5145.397	5166.255	5188.575	5210.131	5229.973	5252.308	5276.105	5289.715	5297.385
17.5	4996.831	5025.545	5043.492	5063.150	5082.149	5105.681	5119.627	5136.256	5166.651	5159.072
20.0	4798.795	4819.189	4834.140	4847.536	4864.585	4869.945	4882.191	4886.090	4889.934	4896.186
22.5	4549.190	4559.421	4559.307	4565.332	4560.888	4565.497	4556.903	4557.399	4550.604	4541.781
25.0	4256.201	4243.848	4234.206	4216.283	4205.728	4186.501	4178.493	4156.632	4145.256	4130.336
27.5	3908.608	3879.329	3850.544	3824.096	3793.376	3767.540	3741.676	3720.274	3701.097	3685.185
30.0	3497.356	3469.474	3432.225	3386.575	3346.440	3309.879	3280.057	3251.199	3237.611	3217.712
32.5	2972.593	2936.072	2902.489	2870.680	2841.154	2816.459	2795.576	2768.057	2746.026	2730.017
35.0	2383.466	2370.698	2353.661	2334.451	2310.358	2289.823	2272.958	2262.440	2256.571	2242.706
37.5	1767.065	1778.411	1788.012	1794.903	1796.965	1792.782	1783.356	1774.926	1772.641	1757.223
40.0	1303.484	1313.853	1319.982	1318.780	1329.767	1352.970	1366.950	1370.741	1360.599	1346.882
42.5	911.166	954.451	992.129	1020.280	1035.969	1037.555	1028.038	1041.352	1054.345	1050.975
45.0	753.377	756.457	758.503	766.789	813.039	840.996	851.408	847.523	833.606	837.417
47.5	701.671	706.371	709.766	711.691	712.141	711.280	724.432	735.307	731.115	722.117
50.0	658.184	660.721	663.477	666.666	667.966	667.462	666.055	663.998	665.148	659.568
52.5	618.972	618.418	618.809	620.489	623.279	625.958	625.207	622.818	620.253	617.498
55.0	577.212	574.020	571.748	571.670	572.890	576.833	582.642	584.366	582.711	580.062
57.5	527.124	525.022	522.533	519.952	520.170	522.262	527.239	537.500	547.183	543.315
60.0	471.176	469.721	468.291	465.995	463.382	462.079	460.099	473.680	491.635	500.420
62.5	415.884	415.903	414.881	412.588	406.606	382.850	393.384	415.117	429.706	437.595
65.0	362.099	363.391	363.122	360.515	342.707	337.283	343.612	359.191	371.021	376.868
67.5	312.254	312.419	312.623	304.047	299.986	304.977	307.937	310.730	318.255	322.264
70.0	272.820	269.232	264.821	262.995	266.501	269.806	271.672	271.786	272.506	274.901
72.5	232.127	228.380	225.605	228.414	232.529	235.135	236.243	235.346	233.718	234.153
75.0	192.117	188.294	188.879	192.854	200.463	203.467	198.467	196.112	195.939	196.808
77.5	151.924	149.329	150.881	157.352	160.836	159.731	156.707	156.212	155.665	154.445
80.0	110.072	108.099	112.137	113.069	113.759	114.234	112.948	111.317	109.770	108.311
82.5	71.206	67.467	67.698	69.590	70.759	70.307	68.691	66.818	65.782	67.171
85.0	37.009	33.911	32.521	33.119	33.506	35.565	36.839	37.670	37.860	37.567
87.5	13.693	13.687	13.871	15.208	15.511	15.127	14.253	12.709	10.850	10.101
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	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814
2.5	4774.091	4779.378	4784.448	4789.293	4793.903	4798.270	4802.386	4806.243	4809.832	4813.146
5.0	4908.255	4915.980	4924.259	4932.009	4939.218	4945.871	4951.958	4956.449	4965.171	4973.319
7.5	5071.488	5080.611	5089.382	5097.305	5103.924	5108.398	5117.750	5125.277	5132.198	5138.490
10.0	5217.617	5226.034	5234.156	5241.988	5246.654	5252.138	5256.456	5260.754	5265.002	5269.158
12.5	5312.446	5318.419	5325.180	5332.747	5340.940	5335.252	5330.423	5326.640	5323.872	5321.273
15.0	5308.774	5315.071	5316.932	5323.298	5319.977	5315.300	5306.654	5303.270	5291.544	5282.922
17.5	5160.767	5167.935	5169.176	5168.700	5166.077	5167.420	5164.497	5154.256	5145.422	5141.958
20.0	4890.653	4893.334	4900.448	4895.109	4895.501	4905.849	4902.271	4895.096	4896.147	4893.951
22.5	4534.324	4526.775	4523.732	4521.420	4521.608	4527.025	4531.703	4542.257	4552.559	4559.669
25.0	4122.084	4130.787	4109.607	4102.507	4101.154	4106.090	4114.749	4123.595	4136.977	4159.257
27.5	3673.541	3662.049	3655.923	3658.701	3655.735	3655.030	3663.689	3668.405	3686.617	3703.630
30.0	3199.460	3190.734	3185.090	3176.012	3178.982	3185.266	3189.214	3198.930	3214.429	3223.842
32.5	2716.687	2705.241	2696.824	2687.843	2683.383	2688.120	2695.444	2701.423	2707.178	2719.404
35.0	2226.603	2217.219	2208.689	2200.477	2191.343	2180.635	2180.348	2190.248	2198.303	2197.272
37.5	1760.626	1748.804	1743.503	1736.059	1725.173	1715.207	1705.299	1701.009	1699.790	1677.257
40.0	1349.798	1347.312	1329.345	1322.757	1325.340	1313.006	1292.377	1287.937	1289.621	1281.102

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CANDELA TABULATION - (Cont.)

42.5	1032.005	1014.679	1024.241	1013.512	986.452	1008.513	1008.199	995.659	967.520	942.344
45.0	835.174	822.107	795.245	812.504	818.205	810.512	790.285	799.590	804.846	802.083
47.5	712.363	708.282	709.397	705.397	703.362	706.674	709.878	709.842	701.936	689.551
50.0	655.010	652.618	651.389	652.315	652.237	652.588	648.864	648.656	649.298	650.334
52.5	614.810	613.470	612.949	612.710	611.456	611.381	611.518	611.722	611.921	612.737
55.0	579.488	579.156	578.376	578.503	578.070	577.046	576.373	577.123	578.459	580.043
57.5	544.196	546.719	546.307	546.976	545.805	543.281	543.557	544.675	546.622	547.960
60.0	498.861	506.892	508.161	501.045	505.432	506.717	509.367	512.268	514.656	510.681
62.5	442.102	442.034	437.281	438.100	451.555	467.645	465.768	463.249	457.877	453.523
65.0	379.183	376.126	367.393	364.801	385.557	403.151	403.024	402.498	399.152	395.933
67.5	322.726	321.000	315.401	309.535	321.225	334.442	339.810	340.595	340.210	337.733
70.0	275.784	275.362	270.530	263.637	263.307	271.410	276.183	280.480	286.239	287.477
72.5	233.540	231.498	227.209	218.883	214.747	223.092	230.711	236.255	241.160	242.990
75.0	193.864	189.953	187.205	182.930	179.930	184.046	189.596	193.534	196.441	198.659
77.5	150.909	148.333	147.169	145.770	144.828	146.760	150.032	152.091	152.855	154.674
80.0	106.774	106.156	106.739	107.843	108.401	109.272	110.640	111.752	112.185	112.999
82.5	68.288	69.440	70.098	70.347	70.422	70.640	71.225	71.756	71.878	71.856
85.0	36.920	35.986	34.697	33.247	32.799	32.407	32.171	31.953	31.752	31.077
87.5	9.450	8.482	7.633	6.918	7.706	8.442	9.137	9.801	10.545	10.922
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	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814	4672.814
2.5	4816.179	4818.922	4820.870	4824.444	4828.435	4832.139	4835.546	4838.652	4841.449	4843.933
5.0	4981.034	4988.291	4995.064	5001.325	5007.046	5012.199	5016.756	5020.651	5031.642	5034.318
7.5	5144.128	5149.084	5153.329	5162.695	5163.484	5166.967	5169.821	5172.023	5173.550	5174.548
10.0	5273.230	5278.003	5279.622	5277.602	5275.660	5273.795	5274.872	5275.728	5276.335	5276.669
12.5	5318.882	5313.421	5305.236	5298.566	5293.204	5288.446	5284.254	5281.458	5279.603	5278.063
15.0	5275.505	5262.972	5248.861	5237.168	5227.863	5218.132	5209.310	5201.591	5195.938	5191.930
17.5	5130.378	5115.465	5105.456	5094.750	5084.054	5077.200	5063.020	5054.978	5045.221	5038.344
20.0	4885.236	4888.383	4875.125	4871.170	4868.915	4863.775	4865.325	4856.267	4850.609	4845.834
22.5	4574.700	4570.612	4577.010	4581.428	4588.860	4597.945	4605.800	4615.533	4617.578	4622.309
25.0	4176.733	4198.680	4214.614	4229.726	4245.764	4268.140	4286.868	4308.217	4322.759	4339.797
27.5	3729.463	3758.003	3794.320	3817.359	3845.085	3866.326	3902.357	3924.220	3948.854	3972.173
30.0	3239.074	3263.211	3295.141	3341.134	3365.566	3405.014	3452.184	3475.215	3494.187	3514.233
32.5	2733.050	2743.378	2756.443	2785.349	2814.159	2828.793	2859.299	2892.358	2908.057	2929.870
35.0	2196.036	2194.101	2196.133	2208.039	2240.823	2244.152	2246.431	2259.848	2256.471	2257.446
37.5	1692.821	1689.403	1680.189	1667.447	1659.325	1644.396	1619.329	1596.080	1574.879	1556.420
40.0	1261.981	1239.284	1205.568	1192.131	1196.593	1196.410	1188.581	1180.727	1173.034	1165.438
42.5	947.690	955.644	954.856	944.563	930.527	908.668	883.855	859.066	833.591	809.711
45.0	792.083	774.576	749.619	733.617	737.149	737.514	735.169	734.903	732.022	728.019
47.5	690.182	689.845	689.564	689.684	689.768	688.087	685.291	683.007	679.670	675.977
50.0	651.802	650.547	649.475	649.039	648.281	646.157	645.697	645.087	643.830	641.893
52.5	614.661	615.347	615.469	614.813	614.038	612.747	612.416	612.301	611.420	609.740
55.0	581.495	582.551	581.779	581.164	580.261	579.009	579.092	579.478	578.980	577.564
57.5	549.308	549.895	548.968	544.708	540.791	536.138	534.264	532.787	529.855	528.291
60.0	505.722	500.590	495.700	491.215	489.078	484.275	482.596	481.729	477.322	476.867
62.5	449.203	445.139	441.264	437.342	436.504	432.679	430.850	431.039	424.660	425.053
65.0	392.453	389.515	386.596	383.322	383.416	381.299	379.034	379.501	371.967	372.896
67.5	335.492	333.100	333.734	333.709	335.628	336.174	334.705	335.687	331.264	330.327
70.0	289.143	291.341	293.024	293.761	294.735	295.421	293.431	294.221	291.750	289.107
72.5	245.306	248.695	252.018	253.913	254.314	254.752	251.975	253.085	251.845	248.261
75.0	201.264	205.905	210.780	214.152	214.294	214.137	210.381	212.218	211.615	207.558
77.5	157.350	161.795	166.183	169.275	168.445	167.177	162.865	164.638	163.157	159.800

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CANDELA TABULATION - (Cont.)

80.0	114.055	115.883	118.143	120.430	119.367	117.612	114.156	115.826	114.072	111.554
82.5	71.236	70.596	70.484	71.652	70.365	68.184	65.651	66.882	65.099	63.212
85.0	28.739	25.730	23.098	22.913	21.405	18.797	17.295	17.844	14.723	13.977
87.5	10.077	8.863	7.860	8.403	8.262	7.484	7.241	7.953	7.486	7.049
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	4672.814	4672.814	4672.814
2.5	4846.099	4847.943	4849.462
5.0	5037.009	5039.710	5042.416
7.5	5176.939	5178.579	5179.463
10.0	5277.169	5278.385	5279.240
12.5	5276.778	5274.886	5273.028
15.0	5186.840	5182.453	5174.416
17.5	5033.943	5032.018	5032.477
20.0	4841.501	4838.700	4830.956
22.5	4611.955	4616.705	4612.250
25.0	4347.079	4357.680	4352.131
27.5	3989.502	4004.950	4000.167
30.0	3535.110	3552.229	3545.764
32.5	2956.509	2979.249	2972.145
35.0	2265.015	2275.895	2264.541
37.5	1541.439	1531.679	1523.440
40.0	1156.677	1154.391	1144.521
42.5	789.594	770.312	765.602
45.0	725.120	721.996	717.461
47.5	674.115	672.426	669.320
50.0	640.780	639.887	638.261
52.5	608.319	607.022	607.202
55.0	575.918	573.851	576.143
57.5	527.238	525.251	527.225
60.0	477.845	476.118	478.308
62.5	428.438	426.960	429.390
65.0	377.366	377.366	380.472
67.5	334.011	333.953	335.048
70.0	289.024	290.202	289.625
72.5	243.926	246.475	244.201
75.0	197.754	202.527	198.777
77.5	152.112	154.154	149.859
80.0	105.576	105.514	100.942
82.5	59.131	56.872	52.024
85.0	12.394	8.131	3.106
87.5	6.232	4.078	1.553
90.0	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1872.63	N.A.	26.70
0-30	3768.17	N.A.	53.80
0-40	5202.84	N.A.	74.20
0-60	6385.73	N.A.	91.10
0-80	6966.08	N.A.	99.40
0-90	7009.24	N.A.	100.00
10-90	6549.81	N.A.	93.40
20-40	3330.21	N.A.	47.50
20-50	3993.3	N.A.	57.00
40-70	1555.93	N.A.	22.20
60-80	580.35	N.A.	8.30
70-80	207.31	N.A.	3.00
80-90	43.17	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	7009.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	459.44
10-20	1413.2
20-30	1895.54
30-40	1434.67
40-50	663.09
50-60	519.80
60-70	373.04
70-80	207.31
80-90	43.17
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

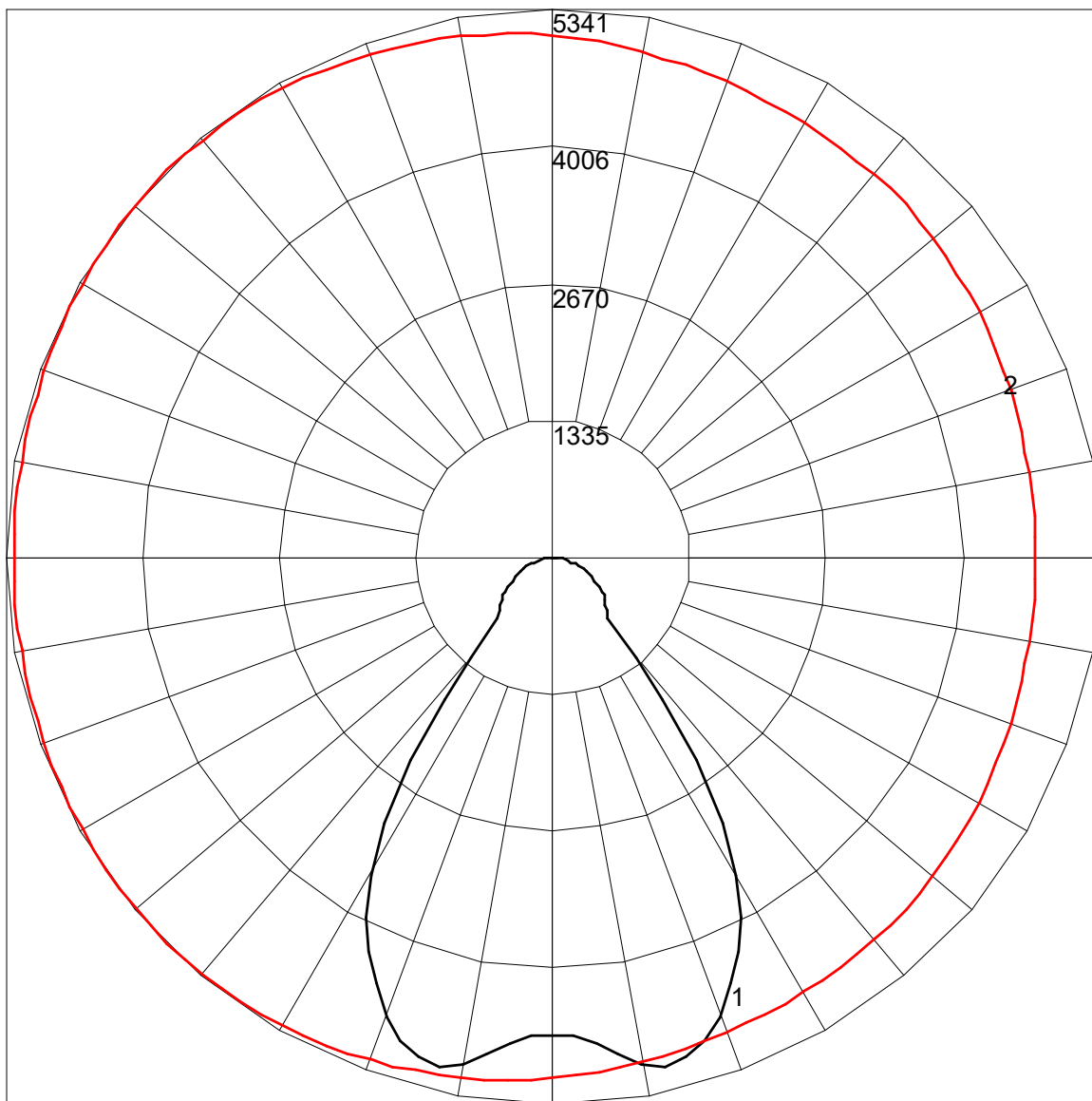
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VF2-L70-750-MF_.IES

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	147	147	147	147	143	143	143	143	137	137	137	131	131	131	126	126	126	123
1	137	133	129	126	134	130	127	124	125	122	120	121	118	116	116	114	113	110
2	128	121	114	109	125	118	113	108	114	109	105	110	106	103	107	104	101	98
3	120	110	102	96	117	108	101	95	105	99	94	102	96	92	99	94	91	88
4	112	101	92	86	110	99	91	85	96	90	84	94	88	83	91	86	82	80
5	105	93	84	77	103	91	83	77	89	82	76	87	81	76	85	79	75	73
6	99	86	77	70	97	85	76	70	83	75	70	81	74	69	79	73	69	67
7	93	80	71	65	91	79	70	64	77	69	64	75	69	64	74	68	63	61
8	88	74	65	59	86	73	65	59	72	64	59	70	64	59	69	63	58	56
9	83	69	61	55	82	69	60	55	67	60	55	66	59	55	65	59	54	52
10	79	65	57	51	77	64	56	51	63	56	51	62	56	51	61	55	51	49

POLAR GRAPH



Maximum Candela = 5340.94 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.)