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IES INDOOR REPORT

PHOTOMETRIC FILENAME : FSN WEVE 6 LIGHT.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLI-18097-2

[TESTLAB] LightLab International (www.LightLabInternational.com)

[MANUFAC] Justice Design Group, Los Angeles, CA 90071

[LUMCAT] Artisan Glass (FSN) - Weave Glass (WEVE) 6-Light Bath Bar

[LUMINAIRE] Justice Design Group - Wall mount bathroom luminaire. Product ID: FSN WEVE 6-Light

[MORE] Steel formed housing and six frosted clear glass lenses with white interior.

[MORE] 60 LEDs mounted in six circular arrays with white plastic dome lenses.

[MORE] No driver.

[MORE] Operating at 120 VAC and 60 Hz.

[OTHER] Absolute test - lamp lumens value set to -1

[MORE] NA conventions used for C0 plane alignment and C-plane rotation direction.

[MORE] The sample was tested at a distance of 8m.

[MORE] This IES file created by LightLab/LSA Report program version 3.820a.

[DATE] This file created: Thursday, April 19, 2018 8:36:38 AM

[ISSUEDATE] Thursday, April 19, 2018 8:36:38 AM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3422
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	45
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.54
Spacing Criterion (90-270)	1.72
Spacing Criterion (Diagonal)	1.54
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.08 m
Luminous Width (90-270)	0.99 m
Luminous Height	0.14 m

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3041	3553	8182
55	2556	2775	5512
65	2291	2425	4029
75	2151	2259	3232
85	2089	2221	2473

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	560.403	560.403	560.403	560.403	560.403	560.403	560.403	560.403	560.403
0.5	560.694	555.482	556.394	560.062	560.921	561.957	565.459	564.703	564.599
1.0	559.792	554.737	555.628	559.720	561.512	563.884	568.961	569.344	569.437
1.5	560.590	555.182	555.824	560.072	562.455	566.329	573.157	574.721	575.249
2.0	562.786	557.223	556.974	560.735	563.791	569.085	577.819	580.709	581.631
2.5	566.360	560.093	558.953	562.134	565.511	572.597	582.999	587.143	588.479
3.0	570.732	564.040	561.916	563.667	567.417	575.975	588.541	593.794	595.731
3.5	575.923	568.785	565.604	566.112	569.582	579.932	594.219	600.725	603.138
4.0	581.735	574.224	569.593	568.785	572.027	583.921	600.051	607.821	610.567
4.5	588.127	579.787	574.162	572.007	574.762	588.116	606.029	614.980	617.995
5.0	594.633	585.993	579.134	575.260	577.663	592.613	612.048	621.849	625.630
5.5	601.605	592.665	584.397	578.989	580.647	597.130	618.254	629.277	633.048
6.0	608.650	599.077	589.929	582.874	583.848	601.698	624.729	636.632	640.756
6.5	615.705	605.697	595.679	586.956	587.215	606.392	630.914	644.092	648.495
7.0	623.123	612.639	601.429	591.370	590.675	611.323	637.440	651.385	656.151
7.5	630.375	619.559	607.303	595.596	594.250	616.057	643.843	658.751	663.734
8.0	637.316	626.417	613.436	600.176	597.824	621.227	650.401	666.179	671.255
8.5	644.879	633.172	619.424	604.641	601.429	626.117	656.834	673.224	678.746
9.0	651.976	640.258	625.526	609.365	605.086	630.934	663.268	680.434	686.391
9.5	659.228	646.951	631.473	613.944	608.723	635.907	669.515	687.448	693.467
10.0	666.676	654.141	637.741	618.710	612.473	641.035	675.990	694.576	700.636
10.5	673.835	660.999	643.719	623.662	616.213	645.925	682.102	701.590	707.909
11.0	681.274	668.013	649.748	628.334	620.139	650.898	688.339	708.375	714.426
11.5	688.474	674.975	656.026	633.276	623.796	656.078	694.555	714.861	721.108
12.0	694.907	681.750	662.170	638.135	627.557	661.113	700.678	721.087	727.313
12.5	700.978	688.339	668.355	643.014	631.401	666.107	706.842	727.313	733.177
13.0	705.765	694.369	674.332	647.935	635.275	670.841	713.017	733.032	738.968
13.5	710.085	699.787	680.528	652.970	638.974	675.886	718.829	738.647	744.045
14.0	713.462	704.138	686.350	657.570	642.610	680.756	724.382	743.921	748.044
14.5	716.280	708.168	692.452	662.522	646.537	685.511	729.924	748.437	751.235
15.0	719.108	711.349	698.264	667.505	650.349	690.421	735.374	752.271	753.099
15.5	721.108	714.022	703.869	672.095	654.048	695.032	740.429	755.089	753.794
16.0	722.372	716.166	709.111	676.943	657.984	699.777	745.475	756.705	753.742
16.5	723.169	718.114	713.845	681.647	661.631	704.366	750.302	757.357	753.068
17.0	723.791	719.295	718.000	686.526	665.557	709.049	754.602	757.554	752.001
17.5	724.143	720.144	721.356	691.105	669.235	713.566	758.580	756.819	750.634
18.0	724.143	720.642	724.330	695.933	673.151	717.948	762.061	755.948	749.049
18.5	723.791	720.766	726.650	700.253	676.850	722.247	764.941	754.560	747.412
19.0	723.201	720.662	728.608	704.967	680.652	726.775	767.251	753.006	745.433
19.5	722.320	720.155	730.069	709.411	684.319	730.805	768.671	751.183	743.589
20.0	720.983	719.523	731.095	713.659	687.997	734.990	769.582	749.256	741.600
20.5	719.419	718.352	732.079	718.155	691.934	739.352	769.437	747.111	739.248
21.0	717.689	717.036	732.152	722.444	695.270	743.330	769.168	744.791	737.062
21.5	715.638	715.420	732.048	726.630	699.041	747.205	768.267	742.532	734.524
22.0	713.431	713.535	731.426	730.888	702.460	750.986	766.816	739.973	731.882
22.5	711.121	711.224	730.546	734.721	706.096	754.394	764.972	737.207	729.437
23.0	708.303	708.779	729.613	738.523	709.442	757.492	763.149	734.628	726.775
23.5	705.506	706.127	728.142	742.087	712.872	760.579	760.673	731.478	723.625
24.0	702.688	703.175	726.226	745.164	716.104	763.180	758.134	728.163	720.331
24.5	699.093	699.818	724.423	747.526	719.222	765.407	755.296	725.003	717.254
25.0	695.705	696.378	721.781	749.795	722.413	767.386	752.115	721.294	713.773
25.5	692.193	692.639	719.181	751.007	725.438	768.639	748.779	717.875	710.251
26.0	688.370	688.764	716.135	751.908	728.577	769.810	745.257	713.804	706.220
26.5	684.506	684.589	712.789	752.136	731.364	770.639	741.507	709.701	702.149

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27.0	680.517	680.320	709.111	752.146	734.192	770.898	737.456	705.330	697.756
27.5	676.415	676.259	705.392	751.504	736.855	770.846	733.415	701.227	693.364
28.0	671.950	671.836	701.237	750.323	739.663	770.111	728.733	696.410	688.453
28.5	667.298	667.163	696.679	748.686	742.159	768.898	724.143	691.530	683.169
29.0	662.771	662.449	692.017	746.687	744.708	767.003	719.316	686.516	677.907
29.5	657.653	657.622	687.023	743.941	747.215	764.475	714.312	681.170	672.364
30.0	652.535	652.659	681.926	740.719	749.328	761.294	709.059	675.679	666.645
30.5	647.334	647.510	676.456	736.907	751.369	757.399	703.548	670.033	660.657
31.0	641.885	642.299	670.914	732.918	752.965	752.965	698.098	664.014	654.545
31.5	636.311	636.840	665.102	728.256	753.897	747.982	692.058	657.922	648.184
32.0	630.634	631.463	659.155	723.408	754.260	743.040	686.246	651.779	641.667
32.5	624.376	625.703	653.250	718.021	754.177	737.280	680.041	645.138	634.623
33.0	618.140	619.787	646.992	712.209	753.224	731.230	673.649	638.404	627.806
33.5	612.121	613.757	640.870	706.220	751.608	724.755	667.246	631.815	620.719
34.0	605.542	607.635	634.498	699.714	749.339	718.228	660.574	624.563	613.498
34.5	599.046	601.398	628.054	693.074	746.262	711.193	653.716	617.456	606.329
35.0	592.343	594.768	621.496	685.998	741.942	703.879	646.568	610.225	598.943
35.5	585.609	588.293	614.897	678.860	736.233	696.783	639.626	602.828	591.452
36.0	578.761	581.486	608.080	671.090	729.220	689.075	632.136	595.141	583.786
36.5	572.204	574.959	601.481	663.734	721.833	681.605	624.832	587.889	576.420
37.0	565.335	568.111	594.384	655.581	713.618	673.721	617.166	580.015	568.401
37.5	558.010	561.098	587.536	647.500	704.635	665.734	609.437	572.100	560.776
38.0	551.162	554.105	580.336	639.274	695.229	657.839	601.553	564.392	553.131
38.5	544.335	547.122	573.126	630.800	685.759	649.468	593.514	556.301	545.288
39.0	537.808	540.077	565.842	622.418	675.596	641.253	585.226	548.251	537.622
39.5	530.960	532.929	558.445	613.726	664.998	632.758	577.042	540.554	530.225
40.0	524.195	526.039	551.017	605.045	654.307	624.252	568.837	532.639	522.724
40.5	518.000	519.191	543.527	596.259	643.097	615.539	560.186	524.796	515.555
41.0	512.053	512.509	536.140	587.630	632.437	606.930	551.836	517.057	508.728
41.5	506.386	505.713	528.256	578.533	620.958	597.876	543.175	509.432	501.517
42.0	501.030	499.217	520.517	569.396	609.986	588.790	534.338	502.035	494.742
42.5	495.881	493.012	512.913	560.497	598.611	579.818	525.594	494.669	488.132
43.0	491.375	486.910	505.050	551.297	587.236	570.349	516.933	487.428	481.419
43.5	487.293	481.491	497.228	542.035	576.296	561.139	508.065	480.631	475.451
44.0	483.170	476.249	489.386	532.732	565.128	551.566	499.321	473.846	469.961
44.5	479.295	471.525	481.647	523.366	554.301	542.128	490.639	467.298	465.123
45.0	475.472	467.288	473.918	513.877	543.351	532.266	481.968	461.134	460.284
45.5	471.805	463.227	466.283	504.739	532.960	522.921	473.493	455.654	455.674
46.0	467.992	459.518	458.730	495.270	521.958	512.955	464.957	450.360	451.427
46.5	464.470	455.622	451.333	485.625	511.080	502.905	456.710	445.501	446.879
47.0	460.968	451.706	444.351	476.135	500.212	492.970	448.785	440.870	442.693
47.5	457.342	448.205	437.296	466.407	489.116	482.735	440.942	436.539	438.197
48.0	453.664	444.579	430.966	456.845	477.990	472.602	433.649	432.188	434.063
48.5	450.474	441.243	424.833	447.055	466.666	462.522	426.573	428.023	429.671
49.0	447.148	437.772	419.300	437.555	455.032	452.483	420.088	423.693	425.641
49.5	443.563	434.457	414.224	427.982	443.449	442.165	413.851	419.539	421.300
50.0	440.321	431.256	409.655	418.699	431.774	432.323	408.339	415.250	417.446
50.5	437.047	427.868	405.387	409.210	419.880	422.263	402.931	411.168	413.219
51.0	433.991	424.584	401.346	399.813	407.707	412.504	397.959	407.169	409.593
51.5	430.872	421.507	397.389	390.748	395.711	402.434	393.431	403.139	405.635
52.0	427.889	418.534	393.380	381.569	383.548	392.830	389.204	399.419	401.636
52.5	424.853	415.301	389.774	372.908	371.251	383.765	385.050	395.317	397.990
53.0	422.077	412.463	386.200	364.216	359.326	374.587	381.072	391.618	394.084
53.5	419.425	409.479	382.740	356.021	347.309	365.915	377.063	387.682	390.520
54.0	416.586	406.599	379.238	348.355	335.374	357.575	373.084	383.817	386.697
54.5	414.037	404.102	376.089	341.486	324.206	350.023	369.417	380.430	383.040

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CANDELA TABULATION - (Cont.)

55.0	411.261	401.419	372.825	334.877	312.654	343.051	365.667	376.513	379.590
55.5	408.671	398.943	369.479	329.230	301.414	336.876	361.792	372.774	375.768
56.0	406.174	396.311	366.226	323.864	291.033	330.847	358.176	369.251	372.276
56.5	403.864	393.887	363.170	318.964	280.424	325.646	354.498	365.553	368.671
57.0	401.367	391.587	360.010	314.644	270.634	320.787	350.955	361.999	365.117
57.5	399.109	389.049	357.006	310.531	261.725	316.104	347.257	358.529	361.419
58.0	396.705	387.122	353.918	306.791	253.229	311.763	343.683	355.120	358.156
58.5	394.219	384.801	351.090	303.061	245.511	308.044	340.243	351.390	354.561
59.0	392.426	382.719	348.428	299.963	238.839	304.335	336.617	347.930	351.328
59.5	390.085	380.668	345.413	296.793	232.613	300.854	333.292	344.553	347.858
60.0	387.827	378.544	342.750	293.499	226.811	297.342	329.728	341.082	344.439
60.5	385.682	376.576	340.140	290.246	221.559	294.120	326.361	337.684	340.948
61.0	383.838	374.649	337.384	286.982	216.638	290.857	322.994	334.214	337.436
61.5	381.590	372.784	334.877	283.729	212.017	287.728	319.451	330.722	334.069
62.0	379.445	370.878	332.235	280.424	207.521	284.455	316.177	327.345	330.702
62.5	377.498	369.002	329.821	277.171	203.191	281.326	312.696	324.050	327.397
63.0	375.664	367.231	327.324	274.032	198.933	278.259	309.339	320.632	324.082
63.5	373.623	365.418	325.004	271.069	194.882	275.255	306.097	317.410	320.922
64.0	371.810	363.822	322.776	267.961	190.748	272.427	302.585	314.001	317.316
64.5	369.686	362.030	320.362	264.926	186.687	269.433	299.300	310.665	314.167
65.0	367.842	360.497	318.145	261.922	182.585	266.563	295.819	307.298	310.904
65.5	366.122	358.850	316.084	258.700	178.358	263.641	292.421	304.097	307.630
66.0	364.009	357.057	313.742	255.923	174.328	260.844	289.096	300.834	304.532
66.5	362.403	355.493	311.691	252.908	170.184	258.047	285.708	297.643	301.258
67.0	360.424	354.001	309.588	250.194	166.185	255.333	282.393	294.286	297.829
67.5	358.881	352.261	307.526	247.283	161.916	252.598	278.922	291.095	294.804
68.0	357.254	350.790	305.496	244.517	158.011	249.883	275.607	287.915	291.582
68.5	355.389	349.391	303.631	241.937	154.095	246.972	272.116	284.682	288.319
69.0	353.597	347.858	301.517	239.067	149.930	244.164	268.842	281.398	285.076
69.5	351.857	346.356	299.611	236.405	145.983	241.233	265.413	278.207	281.978
70.0	350.251	345.009	297.736	233.711	141.932	238.456	262.243	275.089	278.684
70.5	348.573	343.558	295.861	231.132	138.099	235.472	258.596	271.826	275.586
71.0	346.832	341.994	293.996	228.531	134.317	232.572	255.488	268.573	272.499
71.5	345.040	340.730	292.193	225.993	130.609	229.557	252.090	265.392	269.142
72.0	343.455	339.363	290.525	223.351	126.713	226.635	248.899	262.170	265.900
72.5	341.984	338.005	288.619	220.792	123.180	223.797	245.470	259.135	262.740
73.0	340.202	336.700	286.941	218.254	119.389	220.689	242.041	256.037	259.673
73.5	338.720	335.374	285.149	215.871	115.711	217.871	238.860	252.670	256.234
74.0	337.011	334.120	283.512	213.426	112.261	214.525	235.607	249.541	253.167
74.5	335.768	332.691	281.875	211.126	108.573	211.365	232.230	246.205	249.852
75.0	334.162	331.458	280.228	208.930	105.113	208.246	228.977	243.077	246.641
75.5	332.432	330.204	278.508	206.692	101.632	204.879	225.693	239.803	243.574
76.0	330.836	329.044	276.954	204.558	98.306	201.471	222.377	236.705	240.269
76.5	329.272	327.676	275.431	202.465	94.753	198.249	219.062	233.463	236.912
77.0	327.853	326.537	273.908	200.311	91.790	194.851	215.788	230.292	234.095
77.5	326.091	325.252	272.313	198.353	88.412	191.380	212.639	227.153	230.800
78.0	324.682	324.102	270.821	196.249	85.211	187.796	209.282	223.797	227.464
78.5	323.180	323.014	269.308	194.219	82.165	184.190	206.112	220.678	224.253
79.0	321.543	321.751	267.744	192.282	79.057	180.855	202.714	217.436	220.979
79.5	320.165	320.632	266.366	190.458	76.105	177.063	199.461	214.276	217.881
80.0	318.518	319.430	264.843	188.438	73.028	173.478	196.063	211.033	214.659
80.5	317.254	318.259	263.330	186.666	70.148	169.956	192.851	207.708	211.406
81.0	315.545	317.130	261.973	184.657	67.330	166.143	189.412	204.537	208.153
81.5	314.022	315.918	260.471	182.989	64.615	162.818	186.345	201.440	204.962
82.0	312.623	314.664	259.259	181.196	61.642	158.964	182.947	198.104	201.688
82.5	311.287	313.649	257.819	179.301	58.969	155.348	179.601	194.841	198.456

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CANDELA TABULATION - (Cont.)

83.0	309.567	312.271	256.534	177.591	56.514	151.753	176.182	191.701	195.462
83.5	308.210	311.090	255.084	175.923	53.654	148.024	172.857	188.542	192.095
84.0	306.594	309.919	253.716	174.234	51.054	144.470	169.562	185.361	188.925
84.5	305.361	308.749	252.432	172.442	48.816	140.596	166.268	182.129	185.776
85.0	303.797	307.609	251.282	171.013	46.371	136.845	162.818	179.052	182.750
85.5	302.243	306.428	250.059	169.459	43.926	133.261	159.637	175.840	179.560
86.0	300.979	305.402	248.858	168.257	41.803	129.573	156.332	172.888	176.452
86.5	299.497	304.294	247.635	166.775	39.658	125.801	153.090	169.831	173.375
87.0	298.068	303.341	246.485	165.356	37.420	121.916	149.878	166.941	170.360
87.5	296.648	301.994	245.314	164.113	35.359	118.415	146.698	164.102	167.687
88.0	295.560	300.989	244.278	162.859	33.328	114.820	143.641	161.419	164.931
88.5	293.955	300.067	243.232	161.802	31.246	111.360	140.668	158.850	162.113
89.0	292.950	299.269	242.735	160.963	29.630	108.241	137.892	156.529	159.420
89.5	292.421	299.176	242.310	160.777	28.376	105.641	135.519	155.058	157.306
90.0	292.473	300.202	242.569	160.725	28.086	103.486	133.634	154.260	155.535
90.5	292.877	302.336	243.180	160.994	27.982	101.259	131.582	154.146	153.773
91.0	293.457	305.237	244.102	161.999	28.500	99.187	129.686	153.815	151.992
91.5	294.369	307.226	245.107	163.356	28.583	97.001	127.780	151.577	150.396
92.0	295.478	308.065	246.371	165.118	28.873	94.608	125.895	148.241	148.739
92.5	297.011	307.568	247.904	167.003	29.194	92.194	123.968	144.947	146.988
93.0	298.223	307.402	249.376	168.702	29.650	89.738	122.124	142.284	145.092
93.5	299.901	307.619	250.981	170.277	30.034	86.951	120.093	140.088	143.465
94.0	301.466	308.852	252.577	171.748	30.541	84.227	118.218	138.099	141.642
94.5	302.833	309.940	254.100	173.219	31.080	81.678	116.322	136.016	139.819
95.0	304.180	311.214	255.571	174.483	31.691	79.295	114.323	134.203	138.202
95.5	305.931	312.478	257.125	175.861	32.302	76.892	112.147	132.235	136.286
96.0	307.060	313.753	258.606	177.374	33.256	74.426	110.137	130.381	134.359
96.5	308.552	314.871	259.912	179.021	34.105	72.033	108.044	128.319	132.463
97.0	310.116	316.156	261.435	180.844	35.431	69.671	105.879	126.382	130.495
97.5	311.598	317.089	262.895	182.471	36.602	67.236	103.849	124.351	128.423
98.0	312.768	318.156	264.076	184.439	37.824	65.009	101.601	122.072	126.651
98.5	314.188	319.119	265.506	185.983	39.192	62.740	99.477	120.103	124.351
99.0	315.276	320.093	266.874	187.848	40.508	60.502	97.343	117.845	122.486
99.5	316.643	321.046	267.982	189.702	41.523	58.575	95.291	115.846	120.207
100.0	317.948	321.896	269.401	191.577	42.082	56.586	93.261	113.670	118.145
100.5	319.026	322.963	270.976	193.276	42.880	54.556	91.106	111.401	115.846
101.0	320.279	323.791	272.468	194.841	43.419	52.898	89.065	109.308	113.670
101.5	321.440	324.558	273.991	196.374	43.957	51.634	86.838	107.153	111.463
102.0	322.745	325.490	275.617	198.042	44.807	50.412	84.755	104.916	109.308
102.5	323.926	326.319	277.047	199.575	45.822	49.386	82.787	102.761	106.946
103.0	325.066	327.210	278.518	200.922	46.755	48.547	80.746	100.658	104.626
103.5	326.154	327.946	280.041	202.124	47.936	47.842	78.829	98.617	102.471
104.0	327.210	328.837	281.606	203.388	49.117	47.687	76.933	96.452	100.388
104.5	328.174	329.717	282.983	204.258	50.412	47.190	74.955	94.390	97.943
105.0	329.479	330.505	284.258	205.118	51.624	46.972	73.048	92.266	95.809
105.5	330.474	331.292	285.698	205.646	52.826	46.920	71.152	90.070	93.509
106.0	331.499	331.976	287.107	206.185	54.079	46.993	69.215	88.091	91.458
106.5	332.473	332.836	288.246	206.578	55.395	47.387	67.661	85.656	89.303
107.0	333.478	333.519	289.614	207.045	56.742	48.019	66.014	83.678	87.055
107.5	334.493	334.400	290.619	207.055	57.995	48.640	64.439	81.533	85.087
108.0	335.332	335.219	291.810	207.117	59.373	49.438	62.947	79.378	82.849
108.5	336.379	335.840	292.815	207.138	60.896	50.236	61.735	77.482	80.663
109.0	337.477	336.565	293.716	207.096	62.150	51.178	60.533	75.473	78.498
109.5	338.347	337.363	294.587	206.931	63.486	52.235	59.166	73.307	76.364
110.0	339.311	337.954	295.488	206.775	64.864	53.292	57.985	71.339	74.468
110.5	340.274	338.710	296.358	206.599	66.159	54.473	56.928	69.339	72.427

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111.0	341.455	339.176	297.073	206.444	67.475	55.633	55.726	67.444	70.199
111.5	342.294	339.798	297.746	205.998	68.625	56.918	54.908	65.703	68.345
112.0	343.061	340.357	298.368	205.449	69.899	58.182	53.996	63.983	66.397
112.5	343.973	340.803	298.741	204.879	71.080	59.653	53.250	62.419	64.128
113.0	344.781	341.435	299.238	204.206	72.437	61.020	52.618	60.969	62.471
113.5	345.516	341.901	299.394	203.522	73.732	62.626	51.893	59.663	60.689
114.0	346.055	342.191	299.715	202.652	75.006	63.994	51.386	58.420	58.814
114.5	346.625	342.491	299.891	201.792	76.281	65.423	50.795	57.198	57.312
115.0	347.205	342.802	300.046	200.880	77.534	66.967	50.350	55.954	55.882
115.5	347.547	343.030	299.974	199.927	78.850	68.469	50.070	55.105	54.722
116.0	347.754	343.154	299.870	199.088	80.155	70.085	49.842	53.882	53.748
116.5	348.396	343.237	299.663	197.990	81.481	71.329	49.707	53.292	52.691
117.0	348.541	343.393	299.518	197.130	82.756	72.862	49.832	52.370	51.779
117.5	348.800	343.289	299.155	196.260	83.906	74.364	49.738	51.562	50.826
118.0	348.800	343.196	298.938	195.359	85.325	75.835	49.811	51.002	50.184
118.5	349.122	343.102	298.347	194.229	86.558	77.451	50.049	50.298	49.365
119.0	349.256	342.812	297.757	193.162	87.760	78.902	50.246	49.852	48.816
119.5	349.246	342.522	297.218	192.354	89.117	80.466	50.609	49.272	48.267
120.0	349.308	342.087	296.638	191.194	90.495	82.010	50.826	48.899	47.521
120.5	349.609	341.745	295.851	190.096	91.510	83.522	51.406	48.609	47.335
121.0	349.567	341.269	295.011	189.039	92.971	85.159	51.810	48.309	46.496
121.5	349.671	340.730	294.183	187.796	94.162	86.806	52.556	48.070	46.340
122.0	349.557	339.912	293.188	186.739	95.291	88.340	53.147	48.153	45.884
122.5	349.671	339.352	292.204	185.589	96.524	89.935	53.903	47.801	45.501
123.0	349.360	338.606	291.075	184.429	97.778	91.510	54.576	47.801	44.931
123.5	349.091	337.746	290.007	183.206	98.876	93.116	55.561	47.583	44.952
124.0	348.251	336.938	288.754	181.994	99.912	94.825	56.369	47.687	44.652
124.5	347.402	335.913	287.656	180.855	101.072	96.534	57.291	47.677	44.444
125.0	346.687	335.001	286.257	179.539	102.222	98.337	58.544	47.635	44.320
125.5	345.786	333.851	285.014	178.378	103.268	99.974	59.622	47.842	44.362
126.0	344.677	332.846	283.356	177.135	104.418	101.735	60.803	48.112	44.279
126.5	343.683	331.603	281.999	176.120	105.413	103.414	62.056	48.298	44.258
127.0	342.781	330.474	280.497	174.980	106.522	105.216	63.300	48.630	44.558
127.5	341.694	329.054	278.705	173.654	107.330	106.894	64.605	49.055	44.828
128.0	340.471	327.687	277.223	172.680	108.428	108.573	65.859	49.531	44.983
128.5	339.352	325.946	275.483	171.613	109.236	110.199	67.060	49.821	45.377
129.0	338.161	324.413	273.763	170.484	110.085	111.743	68.407	50.422	45.377
129.5	336.710	322.393	271.774	169.552	110.976	113.660	69.847	51.064	46.092
130.0	335.322	320.507	269.857	168.464	111.836	115.069	71.028	51.676	46.506
130.5	333.996	318.539	267.744	167.345	112.572	116.778	72.396	52.297	47.097
131.0	332.421	316.529	265.817	166.382	113.142	118.404	73.535	53.219	47.583
131.5	330.795	314.385	263.776	165.356	114.012	119.979	74.892	53.872	48.184
132.0	329.220	312.323	261.704	164.237	114.654	121.854	76.281	54.846	48.930
132.5	327.231	310.116	259.425	163.294	115.379	123.553	77.555	55.799	49.707
133.0	325.377	307.982	257.249	161.937	115.856	125.149	78.902	56.825	50.515
133.5	323.657	305.910	255.032	160.984	116.405	126.682	80.280	57.861	51.313
134.0	321.409	303.569	252.618	159.927	116.726	128.350	81.740	58.969	52.225
134.5	319.440	301.269	250.132	158.819	117.182	129.624	82.963	60.026	53.250
135.0	317.182	298.731	247.645	157.845	117.700	131.075	84.486	61.373	54.245
135.5	315.172	296.327	245.169	156.799	118.073	132.111	85.760	62.574	55.353
136.0	312.717	293.768	242.600	155.752	118.373	133.178	87.148	63.880	56.638
136.5	310.417	291.209	239.907	154.623	118.622	134.048	88.464	65.278	57.871
137.0	307.847	288.516	237.389	153.546	118.674	134.763	89.935	66.656	59.156
137.5	305.206	285.791	234.654	152.541	118.757	135.395	91.334	67.837	60.637
138.0	302.533	283.149	232.074	151.494	118.974	135.706	92.867	69.018	62.015
138.5	299.684	280.373	229.422	150.531	119.036	135.954	94.255	70.489	63.610

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139.0	296.731	277.524	226.863	149.526	119.181	136.224	95.561	71.857	64.988
139.5	293.830	274.706	224.025	148.531	119.171	136.483	97.021	72.955	66.263
140.0	291.106	271.784	221.507	147.671	119.295	136.597	98.544	74.426	67.889
140.5	287.801	268.749	218.637	146.718	119.627	136.265	100.015	75.649	69.371
141.0	284.724	265.765	215.965	145.610	119.472	136.068	101.445	77.027	70.510
141.5	281.574	262.781	213.209	144.802	119.295	135.198	102.978	78.208	72.116
142.0	278.435	259.684	210.474	143.880	119.326	134.224	104.470	79.409	73.774
142.5	275.068	256.773	207.759	143.041	119.192	133.126	105.900	80.839	75.058
143.0	271.981	253.540	204.910	142.181	118.829	131.758	107.464	82.176	76.788
143.5	268.656	250.308	202.217	141.310	118.498	130.546	108.853	83.471	78.000
144.0	265.102	246.941	199.471	140.461	118.342	129.013	110.251	84.900	79.534
144.5	261.818	243.781	196.705	139.767	117.907	127.646	111.909	85.895	81.140
145.0	258.337	240.652	194.012	138.938	117.524	125.915	113.328	87.449	82.352
145.5	254.846	237.192	191.235	138.088	116.623	124.102	114.986	88.806	83.937
146.0	251.437	233.939	188.490	137.218	115.814	122.165	116.364	90.225	85.646
146.5	247.873	230.707	185.858	136.431	114.810	120.093	117.772	91.479	87.086
147.0	244.247	227.153	183.175	135.478	113.639	117.897	119.036	92.867	88.392
147.5	240.632	223.828	180.533	134.721	112.551	115.690	120.518	94.297	90.339
148.0	236.902	220.523	177.954	133.862	111.173	113.307	121.637	95.747	91.603
148.5	233.255	217.197	175.447	133.126	109.630	111.059	122.693	97.218	93.209
149.0	229.754	213.706	172.857	132.214	108.283	109.060	123.875	98.544	94.794
149.5	226.117	210.287	170.401	131.427	106.729	107.112	124.683	100.067	96.317
150.0	222.419	206.910	167.987	130.298	105.382	105.392	125.480	101.466	97.964
150.5	218.731	203.543	165.574	129.179	104.253	103.724	126.164	103.092	99.984
151.0	214.825	200.103	163.180	128.205	102.947	101.725	126.610	104.760	101.362
151.5	211.137	196.622	160.932	127.014	101.714	100.192	126.755	106.024	103.051
152.0	207.469	193.287	158.674	125.750	100.316	98.710	126.682	107.630	105.092
152.5	203.657	189.826	156.519	124.620	99.477	97.519	126.164	109.236	107.071
153.0	199.855	186.470	154.405	123.398	98.451	96.317	126.029	110.552	108.448
153.5	196.260	183.237	152.375	122.227	97.539	95.260	125.397	112.033	110.614
154.0	192.510	179.964	150.303	121.098	96.462	93.758	124.662	113.287	112.261
154.5	188.801	176.742	148.293	119.523	95.105	92.411	123.947	114.509	113.774
155.0	185.258	173.437	146.449	117.928	93.965	91.023	123.025	115.690	115.814
155.5	181.538	170.173	144.346	116.332	93.022	89.065	121.927	116.612	117.379
156.0	177.943	167.252	142.740	114.561	91.976	87.552	120.228	117.731	118.881
156.5	174.431	163.957	140.917	112.883	91.158	86.009	118.208	118.539	120.528
157.0	170.847	160.994	139.218	111.111	90.526	84.703	115.949	119.016	121.689
157.5	167.646	157.980	137.363	109.308	89.842	83.491	113.131	119.585	122.828
158.0	164.548	155.338	135.768	107.785	89.428	82.683	110.676	120.021	123.916
158.5	161.606	152.603	134.172	106.294	89.459	82.020	108.314	120.331	124.869
159.0	158.353	149.992	132.567	104.822	89.396	81.740	106.128	120.249	125.480
159.5	155.566	147.381	130.950	103.331	88.941	81.730	103.641	119.907	126.330
160.0	152.592	144.936	129.614	102.119	88.112	81.544	101.176	119.430	126.796
160.5	149.785	142.450	128.008	100.710	87.283	81.046	98.430	119.109	127.086
161.0	147.050	140.202	126.340	99.415	86.019	80.414	95.581	118.436	127.262
161.5	144.367	137.809	124.911	98.296	85.004	79.503	92.463	117.793	127.128
162.0	142.036	135.820	123.388	96.928	84.558	78.850	89.251	116.892	126.268
162.5	139.549	133.727	121.989	95.799	84.465	78.270	86.257	116.011	125.024
163.0	137.260	131.572	120.580	94.535	84.703	77.845	83.450	114.882	123.522
163.5	135.012	129.707	119.067	93.281	84.693	77.990	81.046	113.546	121.906
164.0	132.991	127.677	117.286	91.945	84.517	78.270	79.233	111.867	119.948
164.5	130.733	125.698	115.649	90.453	83.771	78.539	77.234	109.692	117.783
165.0	128.433	124.040	113.774	88.920	82.870	78.477	75.379	107.361	115.441
165.5	126.278	122.155	111.888	87.335	82.062	77.596	73.981	104.584	112.914
166.0	123.885	119.658	110.085	85.843	81.274	76.250	72.427	101.787	110.469
166.5	121.916	116.788	108.024	84.361	80.373	75.338	71.152	98.855	107.630

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167.0	119.793	114.685	106.242	83.025	80.010	74.665	70.003	95.851	105.133
167.5	117.886	112.385	104.253	81.575	79.472	74.126	68.967	92.660	101.808
168.0	115.814	110.355	102.305	80.394	79.420	73.463	68.148	89.251	98.327
168.5	113.805	108.397	100.192	79.451	79.068	73.338	67.526	86.029	95.333
169.0	111.805	106.263	98.223	78.249	78.943	73.214	66.781	82.704	92.256
169.5	110.106	104.139	95.592	77.120	78.601	72.831	66.076	79.285	89.034
170.0	108.096	102.160	92.981	75.690	78.052	72.862	65.734	75.814	85.563
170.5	105.962	100.316	90.246	74.685	77.130	73.224	64.978	72.178	82.528
171.0	103.963	98.410	87.480	73.577	75.887	73.711	63.994	68.998	79.440
171.5	101.797	96.887	85.138	72.789	74.613	74.198	63.351	66.045	76.726
172.0	99.995	95.001	83.108	71.857	73.504	74.323	62.460	63.217	73.960
172.5	98.182	93.261	81.026	70.935	72.561	73.991	61.828	61.134	71.152
173.0	96.265	91.510	78.715	70.189	72.002	73.266	61.352	59.394	68.697
173.5	94.286	89.479	76.685	69.360	71.515	72.644	60.896	57.726	65.941
174.0	92.567	87.594	74.540	68.759	71.474	72.385	60.523	56.452	63.579
174.5	90.712	85.708	72.240	68.003	71.691	72.271	60.606	55.271	60.948
175.0	88.785	83.926	69.764	67.444	71.764	72.178	60.979	54.255	58.389
175.5	87.283	82.238	67.299	66.739	71.702	71.940	61.456	53.095	55.716
176.0	85.615	80.622	65.113	66.335	71.619	71.712	62.036	51.893	53.271
176.5	84.102	79.119	63.320	66.128	71.370	71.660	63.020	50.640	51.396
177.0	82.113	77.783	61.974	65.993	71.173	71.733	64.056	49.220	49.914
177.5	79.845	76.446	60.637	66.004	71.039	71.898	64.719	48.423	48.454
178.0	77.876	75.089	59.539	65.879	71.225	71.971	65.175	47.262	47.117
178.5	75.794	73.566	58.607	65.496	71.463	72.075	65.237	46.651	46.040
179.0	74.033	72.354	57.374	65.216	71.639	72.365	65.403	46.288	45.045
179.5	72.365	70.893	56.276	64.584	71.588	72.396	65.330	46.226	44.351
180.0	62.512	62.512	62.512	62.512	62.512	62.512	62.512	62.512	62.512

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN WEVE 6 LIGHT.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	258.29	N.A.	7.50
0-30	593.58	N.A.	17.30
0-40	997.69	N.A.	29.20
0-60	1706.42	N.A.	49.90
0-80	2246.54	N.A.	65.60
0-90	2451.52	N.A.	71.60
10-90	2392.88	N.A.	69.90
20-40	739.41	N.A.	21.60
20-50	1120.66	N.A.	32.70
40-70	998.09	N.A.	29.20
60-80	540.12	N.A.	15.80
70-80	250.75	N.A.	7.30
80-90	204.98	N.A.	6.00
90-110	352.24	N.A.	10.30
90-120	513.14	N.A.	15.00
90-130	659.18	N.A.	19.30
90-150	876.42	N.A.	25.60
90-180	970.51	N.A.	28.40
110-180	618.27	N.A.	18.10
0-180	3422.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	58.64
10-20	199.65
20-30	335.29
30-40	404.11
40-50	381.25
50-60	327.48
60-70	289.36
70-80	250.75
80-90	204.98
90-100	180.67
100-110	171.57
110-120	160.90
120-130	146.05
130-140	124.05
140-150	93.18
150-160	58.70
160-170	28.37
170-180	7.03

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN WEVE 6 LIGHT.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	112	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	72
1	100	95	90	85	85	95	90	85	81	80	77	74	72	69	66	64	61	60	56
2	91	82	75	68	68	85	78	71	65	69	64	60	62	58	54	55	52	49	45
3	82	72	63	56	56	77	68	60	54	61	55	50	54	49	45	48	44	41	38
4	75	63	54	47	47	71	60	52	46	54	47	42	48	43	38	43	39	35	32
5	69	56	47	41	41	65	53	45	39	48	41	36	43	38	33	39	34	30	27
6	64	50	42	35	35	60	48	40	34	43	37	31	39	33	29	35	30	27	24
7	59	46	37	31	31	55	43	35	30	39	33	28	35	30	26	32	27	24	21
8	55	41	33	27	27	52	40	32	26	36	29	25	32	27	23	29	25	21	19
9	51	38	30	24	24	48	36	29	24	33	27	22	30	24	20	27	22	19	17
10	48	35	27	22	22	45	33	26	21	30	24	20	28	22	18	25	20	17	15

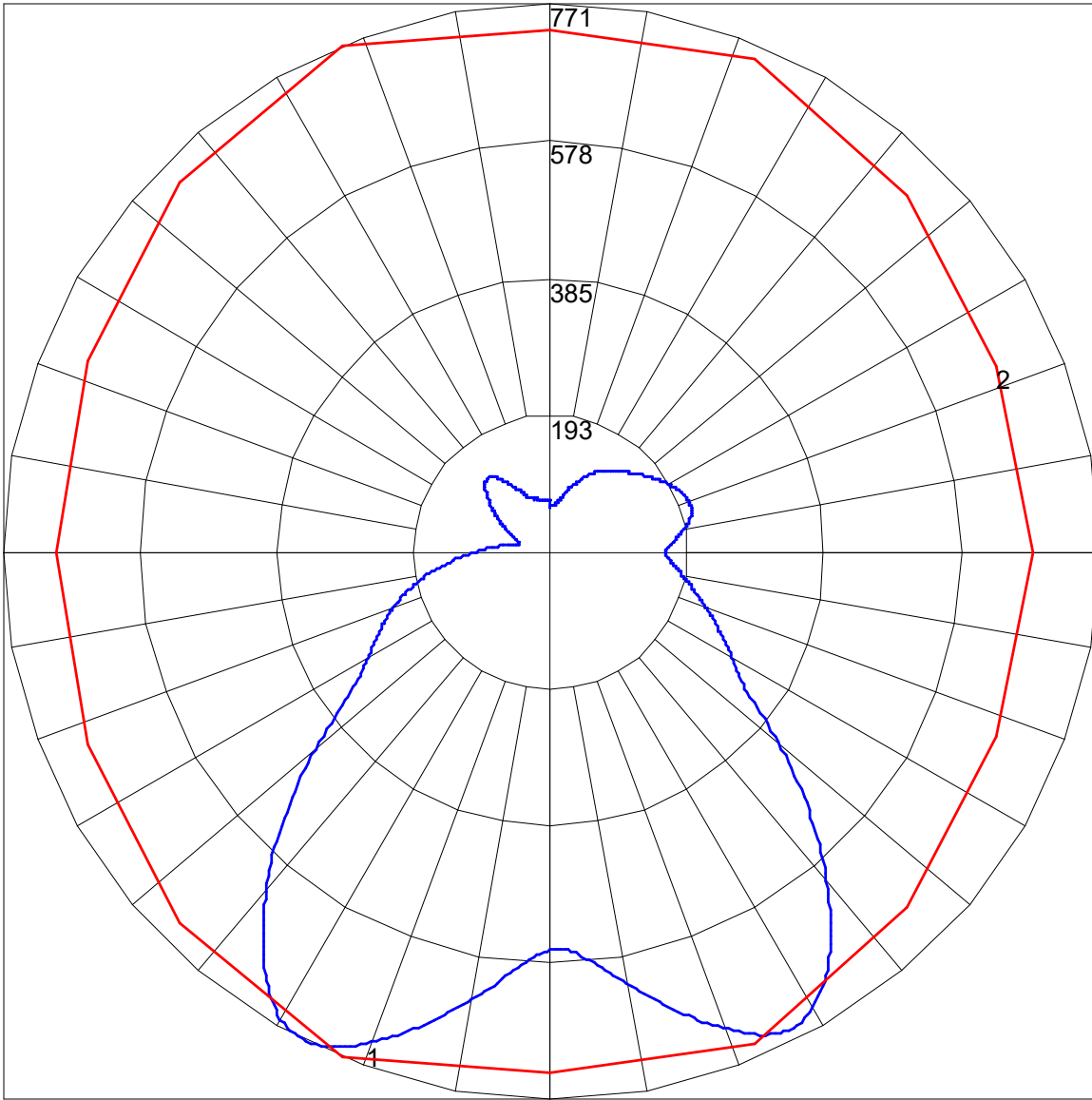
IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN WEVE 6 LIGHT.IES

UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	13.2	14.3	13.9	15.1	16.0	11.4	12.6	12.1	13.3	14.2
	3H	15.5	16.6	16.3	17.4	18.3	12.8	13.9	13.5	14.6	15.6
	4H	16.6	17.7	17.4	18.4	19.4	13.3	14.3	14.0	15.1	16.0
	6H	17.8	18.7	18.5	19.5	20.4	13.6	14.5	14.4	15.3	16.3
	8H	18.3	19.2	19.1	20.0	20.9	13.7	14.6	14.5	15.4	16.4
	12H	18.8	19.6	19.6	20.4	21.4	13.7	14.6	14.5	15.4	16.4
4H	2H	13.8	14.8	14.6	15.6	16.6	12.5	13.5	13.2	14.3	15.2
	3H	16.4	17.3	17.2	18.1	19.1	14.2	15.1	15.0	15.9	16.9
	4H	17.8	18.6	18.6	19.4	20.4	15.0	15.8	15.8	16.6	17.6
	6H	19.1	19.8	19.9	20.6	21.6	15.5	16.2	16.3	17.0	18.0
	8H	19.7	20.4	20.5	21.2	22.2	15.7	16.3	16.5	17.2	18.2
	12H	20.3	20.9	21.1	21.8	22.8	15.8	16.4	16.6	17.2	18.3
8H	4H	18.2	18.9	19.0	19.7	20.7	15.9	16.5	16.7	17.4	18.4
	6H	19.8	20.3	20.6	21.2	22.2	16.7	17.3	17.5	18.1	19.2
	8H	20.6	21.1	21.4	21.9	23.0	17.0	17.5	17.9	18.4	19.4
	12H	21.3	21.8	22.2	22.7	23.8	17.3	17.7	18.1	18.6	19.7
12H	4H	18.3	18.9	19.1	19.7	20.8	16.1	16.7	17.0	17.6	18.6
	6H	19.9	20.4	20.8	21.3	22.3	17.1	17.6	17.9	18.5	19.5
	8H	20.8	21.2	21.6	22.1	23.2	17.5	18.0	18.4	18.9	19.9

Maximum UGR = 23.8

POLAR GRAPH



Maximum Candela = 770.898 Located At Horizontal Angle = 112.5, Vertical Angle = 27
1 - Vertical Plane Through Horizontal Angles (112.5 - 292.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (27) (Through Max. Cd.)