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IES INDOOR REPORT

PHOTOMETRIC FILENAME : FSN WEVE 1 LIGHT.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLI-18097-3

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

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

[LUMCAT] Artisan Glass (FSN) - Weave Glass (WEVE) 1-Light Wall Sconce

[LUMINAIRE] Justice Design Group - Wall mount bathroom luminaire. Product ID: FSN-WEVE 1-Light

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

[MORE] 10 LEDs mounted in circular array with white plastic dome lens.

[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: Wednesday, April 18, 2018 12:43:45 PM

[ISSUEDATE] Wednesday, April 18, 2018 12:43:45 PM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	574
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	7.48
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.56
Spacing Criterion (90-270)	1.74
Spacing Criterion (Diagonal)	1.54
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.08 m
Luminous Width (90-270)	0.17 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	3069	2932	5054
55	2588	2265	3281
65	2315	1924	2451
75	2149	1705	2137
85	2069	1578	1917

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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	89.883	89.883	89.883	89.883	89.883	89.883	89.883	89.883	89.883
0.5	89.013	89.272	89.614	89.655	89.946	90.308	90.588	90.609	90.619
1.0	89.241	89.541	89.687	89.749	90.059	90.640	91.085	91.261	91.396
1.5	89.956	90.132	90.132	89.977	90.360	91.116	91.769	92.183	92.349
2.0	90.754	90.826	90.774	90.329	90.712	91.634	92.567	93.209	93.416
2.5	91.727	91.790	91.520	90.857	91.158	92.256	93.468	94.338	94.576
3.0	92.888	92.691	92.349	91.479	91.613	92.898	94.483	95.457	95.778
3.5	94.058	93.779	93.271	92.111	92.142	93.561	95.426	96.628	97.135
4.0	95.271	94.980	94.131	92.815	92.670	94.338	96.472	97.819	98.316
4.5	96.493	96.068	95.126	93.478	93.240	95.115	97.488	99.062	99.642
5.0	97.643	97.311	96.089	94.193	93.779	95.882	98.441	100.202	100.896
5.5	98.803	98.399	97.052	94.991	94.369	96.648	99.487	101.466	102.139
6.0	100.140	99.601	98.037	95.757	94.960	97.477	100.585	102.719	103.590
6.5	101.342	100.761	99.093	96.503	95.509	98.265	101.611	103.932	104.740
7.0	102.543	101.880	100.088	97.301	96.141	99.062	102.709	105.195	106.066
7.5	103.735	103.134	101.103	98.088	96.762	99.891	103.807	106.428	107.350
8.0	104.864	104.284	102.150	98.845	97.384	100.710	104.843	107.630	108.583
8.5	106.024	105.475	103.155	99.642	97.954	101.538	105.931	108.832	109.816
9.0	107.330	106.584	104.180	100.440	98.617	102.357	107.050	109.992	111.049
9.5	108.552	107.734	105.227	101.217	99.290	103.196	108.013	111.121	112.282
10.0	109.723	108.935	106.221	102.025	99.870	103.973	109.049	112.375	113.494
10.5	110.883	110.199	107.267	102.864	100.492	104.812	110.127	113.525	114.716
11.0	112.209	111.287	108.272	103.662	101.114	105.641	111.121	114.675	115.928
11.5	113.452	112.447	109.257	104.532	101.746	106.470	112.168	115.783	117.058
12.0	114.602	113.639	110.303	105.330	102.378	107.299	113.183	116.975	118.228
12.5	115.545	114.706	111.391	106.107	102.989	108.158	114.178	118.011	119.378
13.0	116.208	115.752	112.354	106.915	103.579	108.956	115.182	119.150	120.404
13.5	116.623	116.581	113.421	107.703	104.222	109.795	116.156	120.197	121.264
14.0	116.757	117.109	114.374	108.428	104.843	110.572	117.109	121.150	121.834
14.5	117.078	117.545	115.379	109.246	105.392	111.370	118.052	121.927	122.144
15.0	117.317	117.824	116.322	110.034	106.076	112.157	119.047	122.486	122.279
15.5	117.555	118.042	117.223	110.831	106.698	112.903	119.948	122.704	122.238
16.0	117.638	118.322	117.990	111.619	107.226	113.701	120.849	122.839	122.175
16.5	117.741	118.353	118.684	112.354	107.796	114.468	121.771	122.818	122.030
17.0	117.752	118.425	119.285	113.100	108.469	115.182	122.590	122.714	121.813
17.5	117.886	118.581	119.762	113.877	109.008	115.897	123.294	122.600	121.730
18.0	117.814	118.560	120.062	114.592	109.578	116.664	123.926	122.403	121.450
18.5	117.886	118.549	120.321	115.317	110.179	117.358	124.320	122.217	121.171
19.0	117.866	118.601	120.435	116.042	110.759	118.094	124.538	122.010	120.901
19.5	117.710	118.446	120.518	116.778	111.339	118.767	124.620	121.782	120.590
20.0	117.513	118.404	120.549	117.431	111.888	119.503	124.579	121.471	120.342
20.5	117.348	118.311	120.539	118.156	112.499	120.166	124.465	121.202	119.979
21.0	116.964	118.052	120.497	118.808	113.059	120.860	124.299	120.891	119.637
21.5	116.757	117.793	120.414	119.492	113.639	121.544	124.082	120.508	119.295
22.0	116.550	117.596	120.280	120.114	114.219	122.165	123.854	120.155	118.850
22.5	116.208	117.254	120.145	120.704	114.810	122.828	123.626	119.720	118.322
23.0	115.877	116.850	120.000	121.222	115.359	123.408	123.305	119.264	117.886
23.5	115.400	116.374	119.710	121.585	115.846	124.020	122.942	118.829	117.296
24.0	114.944	115.877	119.451	121.896	116.426	124.589	122.590	118.239	116.695
24.5	114.551	115.473	119.150	122.165	116.933	125.149	122.196	117.586	116.156
25.0	114.074	114.923	118.736	122.383	117.451	125.636	121.751	117.037	115.545
25.5	113.546	114.405	118.342	122.548	117.969	126.009	121.326	116.374	114.851
26.0	112.965	113.815	117.855	122.590	118.415	126.340	120.767	115.659	114.188
26.5	112.416	113.204	117.348	122.714	118.891	126.547	120.259	114.975	113.401

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27.0	111.660	112.530	116.778	122.673	119.326	126.641	119.689	114.178	112.655
27.5	111.142	111.961	116.187	122.590	119.751	126.661	119.016	113.442	111.888
28.0	110.375	111.266	115.493	122.393	120.145	126.578	118.342	112.624	111.059
28.5	109.640	110.458	114.789	122.175	120.590	126.330	117.607	111.784	110.168
29.0	108.935	109.692	114.095	121.782	121.026	126.009	116.809	110.883	109.277
29.5	108.158	108.966	113.307	121.378	121.419	125.574	116.001	109.982	108.366
30.0	107.381	108.169	112.468	120.880	121.740	125.024	115.131	109.060	107.361
30.5	106.408	107.340	111.608	120.269	122.155	124.434	114.157	108.065	106.314
31.0	105.641	106.573	110.707	119.731	122.476	123.771	113.214	107.050	105.330
31.5	104.812	105.693	109.837	119.088	122.839	123.046	112.220	106.055	104.222
32.0	103.828	104.771	108.966	118.342	123.191	122.207	111.204	105.009	103.186
32.5	102.937	103.900	107.941	117.617	123.398	121.285	110.137	103.890	101.963
33.0	101.973	102.927	106.988	116.757	123.657	120.280	109.101	102.750	100.834
33.5	100.865	102.036	106.024	115.846	123.854	119.295	108.024	101.580	99.487
34.0	99.964	101.010	104.957	114.986	123.792	118.114	106.863	100.451	98.347
34.5	99.000	100.015	103.963	113.919	123.636	116.985	105.734	99.249	97.094
35.0	97.861	98.969	102.885	112.851	123.118	115.804	104.501	98.026	95.757
35.5	96.845	98.006	101.849	111.753	122.414	114.582	103.341	96.793	94.442
36.0	95.768	96.876	100.730	110.603	121.502	113.287	102.129	95.457	93.188
36.5	94.628	95.820	99.684	109.360	120.425	112.054	100.896	94.235	91.810
37.0	93.623	94.763	98.565	108.086	119.067	110.666	99.632	92.950	90.495
37.5	92.546	93.654	97.384	106.791	117.368	109.308	98.347	91.582	89.096
38.0	91.406	92.515	96.307	105.496	115.493	107.941	97.084	90.236	87.718
38.5	90.308	91.386	95.126	104.108	113.546	106.501	95.706	88.816	86.382
39.0	89.200	90.308	93.996	102.730	111.536	105.123	94.400	87.469	85.025
39.5	88.143	89.148	92.826	101.300	109.526	103.673	93.043	86.050	83.595
40.0	87.231	88.039	91.624	99.881	107.506	102.243	91.707	84.662	82.258
40.5	86.174	86.910	90.422	98.482	105.589	100.772	90.287	83.263	80.870
41.0	85.107	85.822	89.251	97.011	103.673	99.332	88.910	81.865	79.534
41.5	84.310	84.755	87.998	95.644	101.818	97.861	87.480	80.445	78.249
42.0	83.439	83.688	86.775	94.203	100.098	96.389	86.071	79.057	76.954
42.5	82.714	82.631	85.522	92.753	98.327	94.887	84.600	77.690	75.711
43.0	82.093	81.647	84.299	91.323	96.659	93.416	83.129	76.353	74.416
43.5	81.554	80.798	83.035	89.821	95.094	91.872	81.689	75.069	73.338
44.0	81.108	79.938	81.813	88.350	93.530	90.318	80.155	73.711	72.292
44.5	80.445	79.275	80.580	86.962	92.018	88.796	78.674	72.520	71.308
45.0	79.896	78.632	79.316	85.397	90.505	87.179	77.172	71.370	70.510
45.5	79.378	78.021	78.156	83.957	89.096	85.646	75.752	70.324	69.723
46.0	78.809	77.514	76.944	82.486	87.604	84.009	74.281	69.350	68.977
46.5	78.208	76.933	75.763	81.015	86.206	82.372	72.820	68.500	68.190
47.0	77.596	76.322	74.665	79.461	84.703	80.746	71.308	67.713	67.392
47.5	77.058	75.783	73.525	77.969	83.180	79.068	69.930	66.926	66.594
48.0	76.509	75.234	72.551	76.478	81.658	77.400	68.552	66.180	65.765
48.5	75.908	74.602	71.598	74.903	80.083	75.680	67.174	65.392	65.071
49.0	75.421	74.043	70.780	73.432	78.477	74.043	65.910	64.636	64.325
49.5	74.861	73.463	69.940	71.878	76.830	72.334	64.688	63.859	63.548
50.0	74.312	72.914	69.205	70.375	75.151	70.707	63.610	63.144	62.854
50.5	73.763	72.323	68.449	68.935	73.390	69.018	62.595	62.367	62.129
51.0	73.266	71.795	67.806	67.526	71.629	67.319	61.673	61.663	61.362
51.5	72.810	71.194	67.226	65.952	69.857	65.672	60.855	60.906	60.710
52.0	72.209	70.707	66.708	64.574	67.982	64.035	60.078	60.254	60.036
52.5	71.795	70.168	66.128	63.186	66.066	62.419	59.415	59.539	59.352
53.0	71.277	69.609	65.579	61.756	64.253	60.824	58.669	58.803	58.679
53.5	70.842	69.101	65.009	60.523	62.378	59.311	57.975	58.265	57.995
54.0	70.396	68.645	64.481	59.249	60.544	57.809	57.312	57.519	57.384
54.5	69.806	68.107	63.921	58.089	58.803	56.431	56.638	56.887	56.825

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CANDELA TABULATION - (Cont.)

55.0	69.339	67.692	63.382	57.042	57.032	55.032	55.975	56.224	56.162
55.5	69.029	67.226	62.833	56.172	55.364	53.727	55.312	55.623	55.612
56.0	68.604	66.749	62.326	55.281	53.686	52.629	54.649	55.012	54.991
56.5	68.179	66.273	61.756	54.566	52.121	51.582	54.007	54.421	54.390
57.0	67.817	65.890	61.248	53.799	50.660	50.785	53.406	53.810	53.831
57.5	67.381	65.372	60.741	53.074	49.210	50.153	52.784	53.219	53.271
58.0	67.040	64.957	60.202	52.546	47.863	49.635	52.121	52.660	52.701
58.5	66.563	64.574	59.746	52.142	46.682	49.086	51.531	52.080	52.100
59.0	66.242	64.139	59.270	51.655	45.677	48.578	50.950	51.489	51.572
59.5	65.838	63.724	58.772	51.230	44.848	48.081	50.329	50.982	51.096
60.0	65.403	63.341	58.316	50.785	44.227	47.563	49.790	50.422	50.495
60.5	65.019	62.947	57.871	50.329	43.709	47.014	49.210	49.842	50.028
61.0	64.677	62.543	57.405	49.852	43.284	46.475	48.619	49.334	49.428
61.5	64.398	62.191	56.876	49.428	42.901	45.967	48.101	48.796	48.982
62.0	63.983	61.777	56.483	48.899	42.538	45.470	47.532	48.278	48.412
62.5	63.600	61.383	56.037	48.474	42.113	44.931	47.024	47.770	47.874
63.0	63.269	61.000	55.571	48.008	41.709	44.413	46.506	47.190	47.428
63.5	62.833	60.616	55.157	47.552	41.295	43.895	45.978	46.744	46.879
64.0	62.492	60.285	54.773	47.117	40.870	43.429	45.429	46.247	46.413
64.5	62.243	59.912	54.317	46.630	40.435	42.901	44.952	45.770	45.905
65.0	61.891	59.539	53.976	46.195	40.021	42.424	44.444	45.252	45.429
65.5	61.497	59.176	53.509	45.781	39.586	41.875	43.885	44.828	44.942
66.0	61.155	58.855	53.136	45.325	39.161	41.409	43.419	44.330	44.475
66.5	60.855	58.461	52.722	44.848	38.746	40.932	42.901	43.844	44.040
67.0	60.533	58.161	52.318	44.496	38.249	40.414	42.372	43.357	43.553
67.5	60.150	57.798	51.904	44.061	37.866	39.907	41.948	42.901	43.077
68.0	59.819	57.425	51.541	43.564	37.462	39.503	41.481	42.424	42.652
68.5	59.529	57.084	51.168	43.180	37.006	38.964	40.995	42.010	42.248
69.0	59.228	56.783	50.764	42.756	36.560	38.550	40.570	41.544	41.709
69.5	58.897	56.431	50.401	42.300	36.146	38.104	40.093	41.098	41.295
70.0	58.607	56.130	49.997	41.927	35.701	37.596	39.668	40.663	40.901
70.5	58.223	55.778	49.593	41.523	35.265	37.151	39.213	40.249	40.363
71.0	57.892	55.447	49.303	41.057	34.841	36.705	38.757	39.772	40.000
71.5	57.633	55.188	48.941	40.694	34.426	36.260	38.311	39.368	39.575
72.0	57.332	54.846	48.557	40.269	34.022	35.783	37.897	38.923	39.161
72.5	57.053	54.525	48.236	39.834	33.597	35.369	37.462	38.529	38.726
73.0	56.711	54.214	47.884	39.492	33.183	34.924	37.058	38.083	38.322
73.5	56.389	53.924	47.521	39.068	32.769	34.478	36.612	37.700	37.897
74.0	56.172	53.582	47.190	38.653	32.375	34.053	36.219	37.286	37.514
74.5	55.934	53.261	46.817	38.311	31.930	33.618	35.804	36.882	37.089
75.0	55.592	53.002	46.496	37.949	31.567	33.235	35.421	36.509	36.664
75.5	55.250	52.681	46.206	37.534	31.173	32.841	35.006	36.063	36.281
76.0	54.970	52.391	45.884	37.182	30.748	32.396	34.592	35.680	35.866
76.5	54.639	52.100	45.522	36.830	30.344	32.033	34.198	35.286	35.504
77.0	54.307	51.790	45.263	36.457	29.992	31.639	33.784	34.924	35.131
77.5	54.141	51.541	44.921	36.074	29.578	31.204	33.411	34.509	34.789
78.0	53.831	51.230	44.558	35.742	29.236	30.852	33.038	34.126	34.374
78.5	53.478	50.919	44.299	35.328	28.832	30.469	32.665	33.753	34.012
79.0	53.292	50.629	43.989	35.027	28.459	30.054	32.271	33.390	33.566
79.5	52.929	50.350	43.636	34.716	28.086	29.671	31.898	32.997	33.225
80.0	52.763	50.060	43.377	34.312	27.734	29.298	31.525	32.634	32.862
80.5	52.463	49.811	43.046	34.002	27.402	28.935	31.132	32.302	32.541
81.0	52.163	49.542	42.745	33.670	27.040	28.563	30.821	31.919	32.116
81.5	51.966	49.220	42.476	33.338	26.739	28.252	30.469	31.577	31.774
82.0	51.624	48.951	42.155	33.048	26.397	27.879	30.075	31.266	31.453
82.5	51.396	48.733	41.834	32.748	26.045	27.495	29.744	30.914	31.111

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CANDELA TABULATION - (Cont.)

83.0	51.054	48.412	41.585	32.406	25.703	27.185	29.412	30.562	30.748
83.5	50.805	48.184	41.305	32.095	25.392	26.863	29.060	30.199	30.386
84.0	50.588	47.936	40.995	31.836	25.071	26.511	28.749	29.899	30.044
84.5	50.319	47.635	40.767	31.505	24.771	26.180	28.397	29.526	29.692
85.0	50.101	47.366	40.497	31.235	24.491	25.848	28.096	29.226	29.443
85.5	49.863	47.117	40.197	30.956	24.160	25.496	27.806	28.894	29.081
86.0	49.614	46.858	39.938	30.655	23.890	25.216	27.433	28.500	28.822
86.5	49.355	46.651	39.731	30.396	23.590	24.895	27.122	28.210	28.397
87.0	49.075	46.392	39.430	30.199	23.320	24.595	26.843	27.941	28.107
87.5	48.847	46.123	39.213	29.889	23.113	24.315	26.532	27.599	27.837
88.0	48.630	45.967	38.995	29.692	22.802	24.035	26.263	27.319	27.495
88.5	48.392	45.729	38.757	29.474	22.616	23.755	25.973	27.040	27.195
89.0	48.350	45.594	38.581	29.236	22.398	23.559	25.693	26.718	26.853
89.5	48.371	45.584	38.581	29.215	22.243	23.351	25.434	26.459	26.594
90.0	48.278	45.646	38.653	29.257	22.326	23.300	25.330	26.304	26.418
90.5	48.433	45.708	38.664	29.288	22.326	23.320	25.268	26.221	26.366
91.0	48.568	45.750	38.726	29.350	22.305	23.320	25.216	26.180	26.314
91.5	48.609	45.874	38.777	29.412	22.378	23.331	25.206	26.159	26.221
92.0	48.692	45.864	38.881	29.391	22.388	23.331	25.154	26.076	26.190
92.5	48.754	45.947	38.923	29.474	22.450	23.300	25.113	25.993	26.118
93.0	48.837	46.019	38.923	29.547	22.429	23.237	25.113	25.962	26.076
93.5	48.961	46.071	39.068	29.578	22.533	23.248	25.113	25.921	26.004
94.0	49.013	46.175	39.109	29.661	22.512	23.227	25.019	25.879	25.921
94.5	49.086	46.206	39.171	29.681	22.564	23.175	25.050	25.807	25.796
95.0	49.241	46.278	39.213	29.733	22.564	23.175	24.978	25.662	25.724
95.5	49.220	46.392	39.264	29.795	22.595	23.165	24.926	25.620	25.693
96.0	49.345	46.444	39.337	29.837	22.616	23.144	24.874	25.568	25.558
96.5	49.407	46.496	39.461	29.868	22.678	23.113	24.812	25.455	25.496
97.0	49.479	46.568	39.441	29.940	22.668	23.092	24.781	25.382	25.361
97.5	49.531	46.630	39.503	30.023	22.678	23.041	24.750	25.361	25.309
98.0	49.645	46.641	39.575	30.013	22.761	23.061	24.657	25.258	25.227
98.5	49.655	46.734	39.627	30.106	22.771	22.999	24.626	25.185	25.123
99.0	49.718	46.796	39.627	30.189	22.802	22.937	24.605	25.102	25.040
99.5	49.790	46.817	39.700	30.158	22.823	22.937	24.491	25.019	24.895
100.0	49.811	46.869	39.731	30.220	22.875	22.896	24.470	24.947	24.833
100.5	49.894	46.879	39.741	30.272	22.885	22.865	24.439	24.843	24.729
101.0	49.883	46.910	39.782	30.334	22.937	22.823	24.377	24.729	24.626
101.5	49.997	46.931	39.824	30.355	22.958	22.751	24.305	24.667	24.481
102.0	49.956	46.962	39.813	30.407	23.041	22.730	24.232	24.553	24.439
102.5	49.987	46.962	39.824	30.417	23.041	22.699	24.139	24.450	24.336
103.0	49.997	46.993	39.845	30.458	23.103	22.616	24.056	24.367	24.242
103.5	49.997	47.003	39.824	30.521	23.082	22.585	23.994	24.305	24.056
104.0	50.080	47.014	39.782	30.458	23.103	22.533	23.901	24.201	24.014
104.5	50.101	47.055	39.793	30.521	23.124	22.471	23.776	24.077	23.849
105.0	50.008	47.065	39.772	30.552	23.186	22.409	23.662	24.004	23.735
105.5	50.060	47.003	39.762	30.489	23.206	22.357	23.548	23.869	23.600
106.0	50.101	47.014	39.793	30.510	23.175	22.315	23.434	23.724	23.517
106.5	50.080	47.034	39.772	30.510	23.206	22.264	23.331	23.621	23.383
107.0	50.111	47.034	39.741	30.500	23.175	22.222	23.206	23.465	23.279
107.5	50.080	47.003	39.731	30.489	23.175	22.160	23.103	23.341	23.103
108.0	50.080	46.993	39.710	30.541	23.206	22.036	22.989	23.134	22.927
108.5	50.101	46.983	39.731	30.489	23.165	22.015	22.885	23.010	22.740
109.0	50.008	46.972	39.679	30.489	23.186	21.901	22.771	22.833	22.626
109.5	50.039	46.900	39.627	30.448	23.134	21.870	22.657	22.699	22.367
110.0	49.987	46.910	39.596	30.448	23.165	21.818	22.543	22.492	22.284
110.5	49.997	46.827	39.596	30.438	23.124	21.756	22.398	22.388	22.025

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CANDELA TABULATION - (Cont.)

111.0	49.935	46.838	39.554	30.469	23.134	21.694	22.305	22.212	21.839
111.5	49.904	46.806	39.554	30.427	23.082	21.642	22.139	22.067	21.746
112.0	49.780	46.786	39.513	30.417	23.072	21.538	22.036	21.880	21.518
112.5	49.811	46.744	39.430	30.386	23.092	21.507	21.942	21.735	21.311
113.0	49.790	46.682	39.430	30.355	23.082	21.414	21.829	21.580	21.124
113.5	49.728	46.630	39.378	30.313	23.051	21.373	21.663	21.362	20.979
114.0	49.645	46.599	39.306	30.313	23.041	21.321	21.559	21.248	20.813
114.5	49.666	46.537	39.275	30.262	23.030	21.217	21.456	21.010	20.606
115.0	49.542	46.465	39.182	30.220	22.978	21.155	21.238	20.782	20.368
115.5	49.500	46.475	39.140	30.189	22.989	21.072	21.186	20.575	20.181
116.0	49.396	46.330	39.057	30.117	22.906	21.062	21.010	20.295	19.964
116.5	49.407	46.288	39.005	30.106	22.937	20.938	20.834	20.078	19.746
117.0	49.272	46.216	38.923	30.054	22.885	20.896	20.761	19.881	19.373
117.5	49.158	46.112	38.891	30.003	22.833	20.824	20.647	19.601	19.176
118.0	49.096	46.040	38.767	29.920	22.792	20.730	20.482	19.394	18.845
118.5	49.003	45.998	38.705	29.878	22.730	20.658	20.337	19.166	18.607
119.0	48.878	45.864	38.632	29.858	22.699	20.596	20.254	18.928	18.316
119.5	48.775	45.802	38.560	29.806	22.699	20.534	20.067	18.658	18.006
120.0	48.682	45.739	38.498	29.723	22.626	20.461	19.984	18.379	17.726
120.5	48.609	45.574	38.415	29.619	22.574	20.357	19.829	18.130	17.457
121.0	48.506	45.501	38.291	29.619	22.492	20.285	19.663	17.902	17.177
121.5	48.319	45.429	38.187	29.567	22.492	20.181	19.591	17.674	16.887
122.0	48.236	45.273	38.114	29.443	22.460	20.098	19.446	17.415	16.586
122.5	48.091	45.170	38.042	29.371	22.378	20.067	19.311	17.198	16.338
123.0	47.977	45.076	37.907	29.340	22.326	19.943	19.197	16.959	16.058
123.5	47.822	44.880	37.793	29.205	22.284	19.881	19.083	16.752	15.716
124.0	47.801	44.734	37.721	29.163	22.264	19.819	18.897	16.503	15.488
124.5	47.542	44.631	37.607	29.091	22.181	19.715	18.803	16.296	15.240
125.0	47.366	44.465	37.503	29.008	22.108	19.694	18.710	16.068	14.981
125.5	47.190	44.330	37.348	28.894	22.056	19.601	18.596	15.872	14.784
126.0	46.983	44.144	37.234	28.832	22.036	19.560	18.524	15.695	14.566
126.5	46.900	43.968	37.099	28.728	21.984	19.508	18.389	15.488	14.349
127.0	46.589	43.833	36.985	28.676	21.953	19.456	18.234	15.322	14.131
127.5	46.382	43.626	36.830	28.583	21.911	19.373	18.151	15.177	13.965
128.0	46.237	43.439	36.695	28.469	21.839	19.352	18.057	14.949	13.779
128.5	46.009	43.232	36.550	28.407	21.839	19.332	17.923	14.763	13.603
129.0	45.781	43.118	36.426	28.293	21.746	19.239	17.819	14.556	13.427
129.5	45.625	42.890	36.250	28.221	21.704	19.176	17.747	14.380	13.313
130.0	45.325	42.745	36.105	28.076	21.663	19.062	17.560	14.214	13.147
130.5	45.149	42.538	35.939	28.003	21.663	19.031	17.488	14.059	12.929
131.0	44.942	42.331	35.783	27.941	21.559	18.969	17.384	13.913	12.836
131.5	44.766	42.155	35.649	27.806	21.518	18.928	17.260	13.717	12.743
132.0	44.465	41.948	35.452	27.775	21.487	18.886	17.156	13.572	12.567
132.5	44.196	41.678	35.307	27.620	21.424	18.824	17.084	13.416	12.411
133.0	44.009	41.481	35.141	27.495	21.331	18.762	16.959	13.282	12.380
133.5	43.730	41.274	34.965	27.413	21.321	18.710	16.866	13.178	12.225
134.0	43.502	41.026	34.799	27.288	21.228	18.689	16.752	13.033	12.173
134.5	43.284	40.798	34.623	27.154	21.217	18.627	16.680	12.877	12.038
135.0	43.025	40.580	34.406	27.029	21.134	18.544	16.576	12.784	11.935
135.5	42.776	40.300	34.271	26.926	21.072	18.555	16.472	12.670	11.831
136.0	42.497	40.155	34.064	26.801	21.000	18.441	16.348	12.484	11.696
136.5	42.238	39.917	33.888	26.718	20.948	18.389	16.234	12.401	11.562
137.0	41.948	39.637	33.701	26.563	20.896	18.327	16.193	12.277	11.417
137.5	41.658	39.399	33.515	26.449	20.793	18.275	16.037	12.132	11.365
138.0	41.347	39.150	33.318	26.345	20.772	18.182	15.985	12.069	11.334
138.5	41.108	38.881	33.152	26.211	20.710	18.182	15.944	11.966	11.199

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139.0	40.798	38.664	32.934	26.055	20.596	18.151	15.799	11.821	11.116
139.5	40.528	38.384	32.727	25.931	20.544	18.078	15.726	11.738	11.013
140.0	40.321	38.135	32.448	25.827	20.513	18.057	15.654	11.624	10.909
140.5	40.031	37.835	32.302	25.631	20.388	17.964	15.519	11.541	10.816
141.0	39.741	37.638	32.075	25.558	20.347	17.892	15.478	11.396	10.692
141.5	39.492	37.306	31.888	25.392	20.264	17.881	15.374	11.292	10.588
142.0	39.192	37.058	31.650	25.227	20.161	17.819	15.291	11.168	10.464
142.5	38.829	36.799	31.453	25.102	20.098	17.747	15.240	11.116	10.339
143.0	38.539	36.498	31.225	24.937	20.026	17.726	15.167	10.951	10.308
143.5	38.228	36.198	30.976	24.771	19.943	17.633	15.043	10.857	10.215
144.0	37.938	35.918	30.759	24.646	19.829	17.560	15.022	10.774	10.153
144.5	37.628	35.628	30.541	24.512	19.757	17.581	15.001	10.712	10.080
145.0	37.296	35.379	30.344	24.305	19.663	17.498	14.887	10.578	10.028
145.5	36.996	35.089	30.117	24.191	19.601	17.426	14.815	10.526	10.018
146.0	36.654	34.779	29.868	24.035	19.498	17.343	14.784	10.453	10.080
146.5	36.353	34.457	29.609	23.869	19.384	17.312	14.690	10.298	10.070
147.0	36.053	34.178	29.412	23.704	19.280	17.249	14.701	10.225	10.039
147.5	35.742	33.825	29.174	23.538	19.249	17.198	14.608	10.163	10.070
148.0	35.369	33.535	28.915	23.383	19.114	17.125	14.545	10.080	10.091
148.5	35.017	33.256	28.697	23.206	19.062	17.063	14.494	9.987	10.111
149.0	34.644	32.976	28.438	23.061	18.938	17.021	14.473	9.894	10.163
149.5	34.385	32.655	28.190	22.854	18.824	16.990	14.411	9.852	10.215
150.0	34.033	32.302	27.941	22.709	18.700	16.887	14.359	9.780	10.205
150.5	33.691	32.033	27.682	22.543	18.638	16.866	14.328	9.738	10.267
151.0	33.359	31.660	27.454	22.336	18.524	16.783	14.266	9.728	10.339
151.5	33.059	31.360	27.216	22.191	18.420	16.742	14.214	9.645	10.298
152.0	32.624	31.080	26.936	22.046	18.327	16.659	14.172	9.552	10.277
152.5	32.271	30.717	26.708	21.829	18.203	16.617	14.090	9.542	10.319
153.0	32.002	30.376	26.397	21.611	18.120	16.566	14.100	9.500	10.308
153.5	31.588	30.075	26.180	21.445	17.995	16.483	14.079	9.490	10.350
154.0	31.235	29.744	25.900	21.279	17.892	16.410	13.996	9.469	10.319
154.5	30.852	29.391	25.610	21.072	17.798	16.338	13.996	9.469	10.298
155.0	30.469	29.029	25.361	20.875	17.705	16.255	13.934	9.459	10.298
155.5	30.127	28.676	25.102	20.668	17.581	16.193	13.851	9.479	10.360
156.0	29.795	28.366	24.823	20.523	17.457	16.151	13.851	9.490	10.360
156.5	29.340	28.024	24.522	20.295	17.384	16.058	13.851	9.448	10.422
157.0	29.060	27.703	24.284	20.078	17.218	15.996	13.789	9.365	10.401
157.5	28.656	27.350	23.983	19.881	17.084	15.892	13.768	9.324	10.350
158.0	28.293	26.967	23.745	19.715	16.990	15.840	13.758	9.251	10.350
158.5	27.972	26.667	23.496	19.487	16.835	15.758	13.706	9.117	10.339
159.0	27.568	26.335	23.175	19.280	16.711	15.644	13.686	9.065	10.350
159.5	27.195	25.962	22.906	19.104	16.586	15.613	13.665	8.941	10.360
160.0	26.812	25.589	22.616	18.845	16.452	15.499	13.592	8.930	10.350
160.5	26.470	25.247	22.347	18.648	16.338	15.457	13.530	8.879	10.339
161.0	26.066	24.874	22.036	18.462	16.224	15.354	13.468	8.858	10.422
161.5	25.631	24.522	21.777	18.192	16.068	15.271	13.375	8.733	10.464
162.0	25.227	24.170	21.424	17.964	15.944	15.167	13.282	8.651	10.515
162.5	24.843	23.807	21.155	17.788	15.872	15.095	13.136	8.557	10.515
163.0	24.460	23.424	20.865	17.550	15.675	14.991	12.815	8.495	10.536
163.5	24.046	23.082	20.544	17.343	15.592	14.887	12.473	8.340	10.598
164.0	23.704	22.699	20.264	17.146	15.467	14.856	12.049	8.081	10.567
164.5	23.279	22.305	19.964	16.866	15.312	14.732	11.520	7.853	10.370
165.0	22.875	21.911	19.663	16.649	15.167	14.535	11.033	7.739	10.060
165.5	22.440	21.559	19.352	16.400	15.032	14.307	10.515	7.687	9.645
166.0	22.067	21.176	19.031	16.203	14.856	13.945	9.894	7.646	9.169
166.5	21.621	20.772	18.669	15.985	14.659	13.447	9.376	7.542	8.495

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167.0	21.165	20.388	18.379	15.778	14.349	12.919	8.961	7.490	7.697
167.5	20.761	20.005	18.078	15.519	13.903	12.287	8.547	7.273	7.003
168.0	20.295	19.549	17.664	15.322	13.282	11.603	8.288	7.128	6.175
168.5	19.870	19.145	17.353	15.074	12.732	10.961	8.122	6.952	5.408
169.0	19.435	18.772	17.063	14.701	11.987	10.277	7.936	6.610	4.496
169.5	18.980	18.379	16.680	14.245	11.323	9.614	7.863	6.237	3.522
170.0	18.503	17.954	16.296	13.634	10.578	9.106	7.718	5.698	2.621
170.5	18.047	17.415	15.892	13.002	9.946	8.775	7.511	5.035	1.896
171.0	17.581	16.918	15.302	12.339	9.417	8.443	7.345	4.455	1.160
171.5	17.156	16.493	14.794	11.645	9.055	8.257	7.055	3.958	0.767
172.0	16.659	16.017	14.297	10.982	8.733	8.122	6.558	3.367	0.684
172.5	16.234	15.364	13.603	10.495	8.454	7.884	5.978	2.787	0.673
173.0	15.488	14.773	12.940	10.039	8.215	7.615	5.387	2.227	0.642
173.5	14.597	14.100	12.194	9.500	7.915	7.066	4.610	1.886	0.549
174.0	14.121	13.230	11.334	9.065	7.666	6.268	3.812	1.740	0.477
174.5	13.344	12.391	10.557	8.568	7.200	5.470	3.046	1.564	0.404
175.0	12.411	11.489	9.811	7.946	6.527	4.558	2.435	1.430	0.311
175.5	11.199	10.443	8.930	7.314	5.698	3.564	2.082	1.181	0.228
176.0	9.987	9.283	8.060	6.558	4.817	2.704	1.844	0.984	0.300
176.5	8.682	7.977	7.034	5.491	3.792	2.082	1.575	0.694	0.238
177.0	7.159	6.651	5.884	4.403	2.870	1.751	1.326	0.456	0.197
177.5	5.584	5.159	4.797	3.429	2.113	1.544	1.119	0.300	0.197
178.0	3.906	3.616	3.657	2.331	1.554	1.285	0.881	0.249	0.332
178.5	2.486	2.310	2.414	1.481	1.254	1.057	0.663	0.269	0.228
179.0	1.461	1.388	1.295	0.922	0.974	0.839	0.518	0.249	0.259
179.5	0.518	0.787	0.497	0.497	0.673	0.673	0.321	0.259	0.363
180.0	0.373	0.373	0.373	0.373	0.373	0.373	0.373	0.373	0.373

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PHOTOMETRIC FILENAME : FSN WEVE 1 LIGHT.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	42.23	N.A.	7.40
0-30	96.98	N.A.	16.90
0-40	163.18	N.A.	28.40
0-60	279.23	N.A.	48.70
0-80	369.42	N.A.	64.40
0-90	405.86	N.A.	70.80
10-90	396.30	N.A.	69.10
20-40	120.95	N.A.	21.10
20-50	183.35	N.A.	32.00
40-70	163.86	N.A.	28.60
60-80	90.19	N.A.	15.70
70-80	42.37	N.A.	7.40
80-90	36.45	N.A.	6.40
90-110	66.63	N.A.	11.60
90-120	96.01	N.A.	16.70
90-130	120.56	N.A.	21.00
90-150	153.69	N.A.	26.80
90-180	167.70	N.A.	29.20
110-180	101.07	N.A.	17.60
0-180	573.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	9.57
10-20	32.66
20-30	54.75
30-40	66.20
40-50	62.40
50-60	53.64
60-70	47.82
70-80	42.37
80-90	36.45
90-100	33.96
100-110	32.67
110-120	29.37
120-130	24.55
130-140	19.24
140-150	13.89
150-160	8.89
160-170	4.37
170-180	0.76

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN WEVE 1 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	106	106	106	106	95	95	95	85	85	85	75	75	75	71	71
1	100	94	89	85	94	89	85	81	80	76	73	71	68	65	63	60	59	54	54
2	90	81	74	68	85	77	70	65	69	63	59	61	57	53	54	51	48	44	44
3	82	71	63	56	77	67	60	54	60	54	49	54	49	44	47	43	40	37	37
4	75	63	54	47	70	59	51	45	53	47	41	47	42	38	42	38	34	31	31
5	69	56	47	40	65	53	45	39	48	41	36	43	37	33	38	33	30	27	27
6	63	50	41	35	60	48	39	34	43	36	31	38	33	28	34	30	26	23	23
7	59	45	37	31	55	43	35	29	39	32	27	35	29	25	31	27	23	21	21
8	54	41	33	27	51	39	31	26	35	29	24	32	26	22	29	24	21	18	18
9	51	38	30	24	48	36	28	23	33	26	22	29	24	20	27	22	18	16	16
10	47	35	27	22	45	33	26	21	30	24	20	27	22	18	25	20	17	15	15

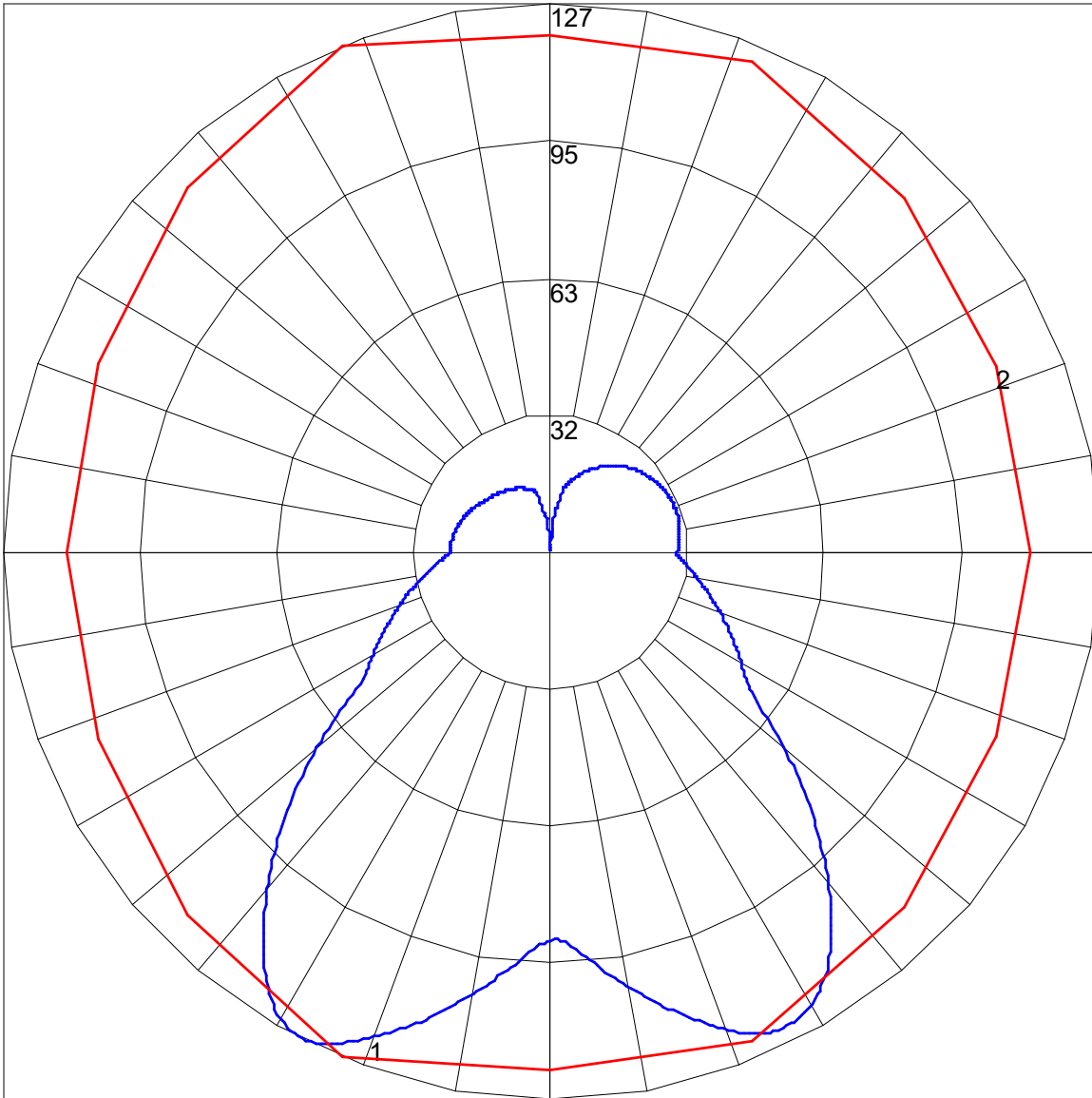
IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN WEVE 1 LIGHT.IES

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	12.9	14.0	13.6	14.8	15.7	11.1	12.3	11.8	13.0	14.0
	3H	15.2	16.3	16.0	17.0	18.0	13.0	14.0	13.7	14.8	15.8
	4H	16.3	17.3	17.1	18.1	19.1	13.8	14.8	14.5	15.6	16.5
	6H	17.4	18.4	18.2	19.2	20.2	14.5	15.5	15.3	16.3	17.2
	8H	18.0	18.9	18.8	19.7	20.7	14.9	15.8	15.7	16.6	17.6
	12H	18.5	19.3	19.3	20.1	21.2	15.2	16.0	16.0	16.9	17.9
4H	2H	13.4	14.4	14.2	15.2	16.2	11.9	12.9	12.7	13.7	14.7
	3H	16.0	16.9	16.8	17.7	18.7	14.0	14.9	14.8	15.7	16.7
	4H	17.3	18.1	18.1	18.9	19.9	15.0	15.8	15.8	16.6	17.6
	6H	18.6	19.3	19.4	20.1	21.2	15.9	16.6	16.7	17.4	18.4
	8H	19.2	19.9	20.0	20.7	21.8	16.3	17.0	17.1	17.8	18.8
	12H	19.9	20.5	20.7	21.3	22.4	16.7	17.3	17.5	18.2	19.2
8H	4H	17.7	18.3	18.5	19.2	20.2	15.6	16.2	16.4	17.1	18.1
	6H	19.2	19.7	20.0	20.6	21.6	16.7	17.3	17.5	18.1	19.2
	8H	20.0	20.5	20.8	21.3	22.4	17.2	17.7	18.1	18.6	19.7
	12H	20.8	21.2	21.6	22.1	23.2	17.8	18.2	18.6	19.1	20.2
12H	4H	17.7	18.3	18.5	19.2	20.2	15.7	16.3	16.6	17.2	18.2
	6H	19.3	19.8	20.1	20.7	21.7	16.9	17.4	17.8	18.3	19.4
	8H	20.1	20.6	21.0	21.5	22.6	17.6	18.0	18.4	18.9	20.0

Maximum UGR = 23.2

POLAR GRAPH



Maximum Candela = 126.661 Located At Horizontal Angle = 112.5, Vertical Angle = 27.5
1 - Vertical Plane Through Horizontal Angles (112.5 - 292.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (27.5) (Through Max. Cd.)