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IES INDOOR REPORT

PHOTOMETRIC FILENAME : FSN SEED 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) - Seeded Glass (SEED) 1-Light Wall Sconce

[LUMINAIRE] Justice Design Group - Wall mount bathroom luminaire. Product ID: FSN-SEED 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	602
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
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	3224	3079	5308
55	2718	2379	3446
65	2431	2021	2574
75	2257	1791	2244
85	2173	1657	2013

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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	94.395	94.395	94.395	94.395	94.395	94.395	94.395	94.395	94.395
0.5	93.481	93.753	94.112	94.156	94.460	94.841	95.135	95.156	95.167
1.0	93.720	94.036	94.188	94.253	94.580	95.189	95.657	95.842	95.983
1.5	94.471	94.656	94.656	94.493	94.895	95.690	96.375	96.810	96.984
2.0	95.309	95.385	95.331	94.863	95.265	96.234	97.213	97.887	98.105
2.5	96.332	96.397	96.114	95.418	95.733	96.886	98.159	99.073	99.324
3.0	97.550	97.343	96.984	96.070	96.212	97.561	99.226	100.248	100.586
3.5	98.780	98.486	97.953	96.734	96.767	98.257	100.216	101.478	102.011
4.0	100.052	99.748	98.856	97.474	97.322	99.073	101.315	102.729	103.251
4.5	101.336	100.890	99.900	98.170	97.920	99.889	102.381	104.035	104.644
5.0	102.544	102.196	100.912	98.921	98.486	100.694	103.382	105.231	105.960
5.5	103.763	103.338	101.924	99.759	99.106	101.500	104.481	106.559	107.266
6.0	105.166	104.600	102.957	100.564	99.726	102.370	105.634	107.875	108.789
6.5	106.428	105.819	104.067	101.347	100.303	103.197	106.711	109.148	109.997
7.0	107.690	106.994	105.112	102.185	100.966	104.035	107.864	110.476	111.389
7.5	108.941	108.310	106.178	103.012	101.619	104.905	109.018	111.770	112.739
8.0	110.127	109.518	107.277	103.806	102.272	105.764	110.106	113.032	114.033
8.5	111.346	110.769	108.332	104.644	102.870	106.635	111.248	114.294	115.328
9.0	112.717	111.933	109.409	105.482	103.567	107.494	112.423	115.513	116.623
9.5	114.001	113.141	110.508	106.298	104.274	108.376	113.435	116.699	117.917
10.0	115.230	114.403	111.553	107.146	104.883	109.192	114.523	118.015	119.190
10.5	116.449	115.731	112.652	108.028	105.536	110.073	115.654	119.223	120.474
11.0	117.841	116.873	113.707	108.865	106.189	110.943	116.699	120.431	121.747
11.5	119.147	118.092	114.740	109.779	106.852	111.814	117.798	121.595	122.933
12.0	120.355	119.343	115.839	110.617	107.516	112.684	118.864	122.846	124.163
12.5	121.345	120.463	116.982	111.433	108.158	113.587	119.908	123.934	125.370
13.0	122.041	121.562	117.994	112.282	108.778	114.425	120.964	125.131	126.447
13.5	122.476	122.433	119.114	113.108	109.453	115.306	121.987	126.230	127.350
14.0	122.618	122.988	120.115	113.870	110.106	116.122	122.988	127.231	127.949
14.5	122.955	123.444	121.171	114.730	110.682	116.960	123.978	128.047	128.275
15.0	123.205	123.738	122.161	115.556	111.400	117.787	125.022	128.634	128.417
15.5	123.455	123.967	123.107	116.394	112.053	118.570	125.969	128.863	128.373
16.0	123.542	124.260	123.912	117.221	112.608	119.408	126.915	129.004	128.308
16.5	123.651	124.293	124.641	117.994	113.206	120.213	127.884	128.982	128.156
17.0	123.662	124.369	125.272	118.777	113.914	120.964	128.743	128.874	127.927
17.5	123.804	124.532	125.773	119.593	114.479	121.715	129.483	128.754	127.840
18.0	123.727	124.511	126.088	120.344	115.078	122.520	130.147	128.547	127.546
18.5	123.804	124.500	126.360	121.105	115.709	123.249	130.560	128.351	127.252
19.0	123.782	124.554	126.480	121.867	116.318	124.021	130.788	128.134	126.970
19.5	123.619	124.391	126.567	122.639	116.927	124.728	130.876	127.894	126.643
20.0	123.412	124.348	126.600	123.325	117.504	125.501	130.832	127.568	126.382
20.5	123.238	124.250	126.589	124.086	118.146	126.197	130.712	127.285	126.001
21.0	122.835	123.978	126.545	124.772	118.733	126.926	130.538	126.959	125.642
21.5	122.618	123.706	126.458	125.490	119.343	127.644	130.310	126.556	125.283
22.0	122.400	123.499	126.317	126.143	119.952	128.297	130.070	126.186	124.815
22.5	122.041	123.140	126.175	126.763	120.572	128.993	129.831	125.729	124.260
23.0	121.693	122.716	126.023	127.307	121.149	129.603	129.494	125.251	123.804
23.5	121.192	122.215	125.718	127.688	121.660	130.244	129.113	124.794	123.183
24.0	120.714	121.693	125.446	128.014	122.269	130.843	128.743	124.173	122.552
24.5	120.300	121.268	125.131	128.297	122.803	131.430	128.330	123.488	121.987
25.0	119.800	120.692	124.696	128.525	123.347	131.942	127.862	122.911	121.345
25.5	119.245	120.148	124.282	128.700	123.891	132.333	127.416	122.215	120.616
26.0	118.636	119.528	123.771	128.743	124.358	132.682	126.828	121.464	119.919
26.5	118.059	118.886	123.238	128.874	124.859	132.899	126.295	120.746	119.092

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CANDELA TABULATION - (Cont.)

27.0	117.265	118.179	122.639	128.830	125.316	132.997	125.697	119.908	118.309
27.5	116.721	117.580	122.019	128.743	125.762	133.019	124.989	119.136	117.504
28.0	115.916	116.851	121.290	128.536	126.175	132.932	124.282	118.276	116.634
28.5	115.143	116.003	120.550	128.308	126.643	132.671	123.510	117.395	115.698
29.0	114.403	115.197	119.821	127.894	127.100	132.333	122.672	116.449	114.762
29.5	113.587	114.436	118.995	127.470	127.514	131.876	121.823	115.502	113.805
30.0	112.771	113.598	118.113	126.948	127.851	131.300	120.909	114.534	112.749
30.5	111.748	112.728	117.210	126.306	128.286	130.680	119.887	113.489	111.651
31.0	110.943	111.923	116.264	125.740	128.623	129.983	118.897	112.423	110.617
31.5	110.073	110.998	115.350	125.066	129.004	129.222	117.852	111.379	109.453
32.0	109.039	110.029	114.436	124.282	129.374	128.340	116.786	110.280	108.365
32.5	108.104	109.116	113.359	123.521	129.592	127.372	115.665	109.105	107.081
33.0	107.092	108.093	112.358	122.618	129.864	126.317	114.577	107.908	105.895
33.5	105.928	107.157	111.346	121.660	130.070	125.283	113.446	106.678	104.481
34.0	104.981	106.080	110.225	120.757	130.005	124.043	112.227	105.492	103.284
34.5	103.969	105.036	109.181	119.636	129.842	122.857	111.041	104.230	101.967
35.0	102.772	103.937	108.049	118.516	129.298	121.617	109.747	102.947	100.564
35.5	101.706	102.925	106.961	117.363	128.558	120.333	108.528	101.652	99.182
36.0	100.575	101.739	105.786	116.155	127.601	118.973	107.255	100.248	97.866
36.5	99.378	100.629	104.687	114.849	126.469	117.678	105.960	98.964	96.419
37.0	98.323	99.519	103.512	113.511	125.044	116.220	104.633	97.615	95.037
37.5	97.191	98.355	102.272	112.151	123.260	114.795	103.284	96.179	93.568
38.0	95.994	97.158	101.140	110.791	121.290	113.359	101.956	94.765	92.121
38.5	94.841	95.972	99.900	109.333	119.245	111.846	100.509	93.274	90.717
39.0	93.677	94.841	98.714	107.886	117.134	110.399	99.139	91.860	89.292
39.5	92.567	93.622	97.485	106.385	115.023	108.876	97.713	90.369	87.791
40.0	91.610	92.458	96.223	104.894	112.902	107.375	96.310	88.911	86.387
40.5	90.500	91.272	94.961	103.425	110.889	105.830	94.819	87.443	84.929
41.0	89.379	90.130	93.731	101.880	108.876	104.317	93.372	85.974	83.526
41.5	88.541	89.009	92.415	100.444	106.929	102.772	91.871	84.483	82.177
42.0	87.628	87.889	91.131	98.932	105.123	101.228	90.391	83.025	80.817
42.5	86.866	86.779	89.814	97.409	103.262	99.650	88.846	81.589	79.511
43.0	86.213	85.745	88.531	95.907	101.510	98.105	87.301	80.186	78.151
43.5	85.647	84.853	87.203	94.330	99.868	96.484	85.789	78.836	77.020
44.0	85.180	83.950	85.919	92.785	98.225	94.852	84.179	77.411	75.921
44.5	84.483	83.254	84.625	91.327	96.636	93.252	82.623	76.160	74.887
45.0	83.907	82.579	83.297	89.684	95.048	91.555	81.045	74.952	74.049
45.5	83.363	81.937	82.079	88.172	93.568	89.945	79.555	73.853	73.222
46.0	82.764	81.404	80.806	86.627	92.001	88.226	78.010	72.831	72.439
46.5	82.133	80.795	79.565	85.082	90.532	86.507	76.476	71.939	71.612
47.0	81.491	80.153	78.412	83.450	88.955	84.799	74.887	71.112	70.774
47.5	80.925	79.587	77.215	81.883	87.356	83.036	73.440	70.285	69.937
48.0	80.349	79.011	76.193	80.316	85.756	81.284	71.993	69.501	69.066
48.5	79.718	78.347	75.192	78.662	84.102	79.478	70.546	68.675	68.337
49.0	79.206	77.759	74.332	77.117	82.416	77.759	69.219	67.880	67.554
49.5	78.619	77.150	73.451	75.485	80.686	75.964	67.935	67.064	66.738
50.0	78.042	76.573	72.678	73.908	78.924	74.256	66.803	66.314	66.009
50.5	77.466	75.953	71.884	72.396	77.074	72.483	65.737	65.498	65.247
51.0	76.943	75.398	71.210	70.916	75.224	70.698	64.769	64.758	64.442
51.5	76.465	74.767	70.600	69.262	73.364	68.968	63.909	63.964	63.757
52.0	75.834	74.256	70.056	67.815	71.395	67.249	63.093	63.278	63.050
52.5	75.398	73.690	69.447	66.357	69.382	65.552	62.397	62.527	62.332
53.0	74.854	73.103	68.870	64.856	67.478	63.876	61.613	61.755	61.624
53.5	74.397	72.570	68.272	63.561	65.508	62.288	60.884	61.189	60.906
54.0	73.930	72.091	67.717	62.223	63.583	60.710	60.188	60.406	60.264
54.5	73.309	71.525	67.130	61.004	61.755	59.263	59.481	59.742	59.677

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CANDELA TABULATION - (Cont.)

55.0	72.820	71.090	66.564	59.905	59.894	57.795	58.785	59.046	58.980
55.5	72.493	70.600	65.987	58.991	58.143	56.424	58.088	58.415	58.404
56.0	72.047	70.100	65.454	58.056	56.380	55.270	57.392	57.773	57.751
56.5	71.601	69.599	64.856	57.305	54.737	54.172	56.717	57.153	57.120
57.0	71.220	69.197	64.323	56.500	53.203	53.334	56.086	56.511	56.532
57.5	70.764	68.653	63.789	55.738	51.680	52.670	55.434	55.891	55.945
58.0	70.404	68.218	63.224	55.183	50.266	52.126	54.737	55.303	55.347
58.5	69.904	67.815	62.745	54.759	49.025	51.549	54.117	54.694	54.716
59.0	69.567	67.358	62.244	54.248	47.970	51.016	53.508	54.074	54.161
59.5	69.142	66.923	61.722	53.802	47.100	50.494	52.855	53.540	53.660
60.0	68.685	66.520	61.244	53.334	46.447	49.950	52.289	52.953	53.029
60.5	68.283	66.107	60.776	52.855	45.903	49.373	51.680	52.344	52.540
61.0	67.924	65.683	60.286	52.355	45.457	48.808	51.060	51.811	51.908
61.5	67.630	65.313	59.731	51.908	45.054	48.275	50.516	51.245	51.441
62.0	67.195	64.877	59.318	51.354	44.673	47.752	49.917	50.701	50.842
62.5	66.792	64.464	58.850	50.908	44.227	47.187	49.384	50.168	50.276
63.0	66.444	64.061	58.360	50.418	43.803	46.643	48.840	49.558	49.809
63.5	65.987	63.659	57.925	49.939	43.368	46.099	48.285	49.091	49.232
64.0	65.628	63.311	57.523	49.482	42.922	45.609	47.709	48.568	48.742
64.5	65.367	62.919	57.044	48.971	42.465	45.054	47.208	48.068	48.209
65.0	64.997	62.527	56.685	48.514	42.029	44.554	46.675	47.524	47.709
65.5	64.584	62.147	56.195	48.079	41.572	43.977	46.088	47.078	47.197
66.0	64.225	61.809	55.804	47.600	41.126	43.487	45.598	46.556	46.708
66.5	63.909	61.396	55.368	47.100	40.691	42.987	45.054	46.044	46.251
67.0	63.572	61.080	54.944	46.730	40.169	42.443	44.499	45.533	45.740
67.5	63.169	60.700	54.509	46.273	39.766	41.910	44.053	45.054	45.239
68.0	62.821	60.308	54.128	45.750	39.342	41.485	43.564	44.554	44.793
68.5	62.516	59.949	53.736	45.348	38.863	40.920	43.052	44.118	44.369
69.0	62.201	59.633	53.312	44.902	38.396	40.484	42.606	43.629	43.803
69.5	61.853	59.263	52.931	44.423	37.960	40.017	42.106	43.161	43.368
70.0	61.548	58.948	52.507	44.031	37.492	39.484	41.660	42.704	42.954
70.5	61.146	58.578	52.083	43.607	37.036	39.016	41.181	42.269	42.388
71.0	60.797	58.230	51.778	43.117	36.589	38.548	40.702	41.768	42.008
71.5	60.525	57.958	51.397	42.737	36.154	38.080	40.234	41.344	41.562
72.0	60.210	57.599	50.995	42.291	35.730	37.580	39.799	40.876	41.126
72.5	59.916	57.261	50.657	41.834	35.284	37.144	39.342	40.463	40.669
73.0	59.557	56.935	50.287	41.475	34.849	36.676	38.918	39.995	40.245
73.5	59.220	56.630	49.907	41.028	34.413	36.209	38.450	39.592	39.799
74.0	58.991	56.271	49.558	40.593	34.000	35.763	38.036	39.157	39.396
74.5	58.741	55.934	49.167	40.234	33.532	35.306	37.601	38.733	38.950
75.0	58.382	55.662	48.829	39.853	33.151	34.903	37.199	38.341	38.504
75.5	58.023	55.325	48.525	39.418	32.738	34.490	36.764	37.873	38.102
76.0	57.729	55.020	48.188	39.048	32.292	34.022	36.328	37.471	37.667
76.5	57.381	54.716	47.807	38.678	31.868	33.641	35.915	37.057	37.286
77.0	57.033	54.389	47.535	38.287	31.498	33.228	35.480	36.676	36.894
77.5	56.859	54.128	47.176	37.884	31.062	32.771	35.088	36.241	36.535
78.0	56.532	53.802	46.795	37.536	30.703	32.401	34.696	35.839	36.100
78.5	56.163	53.475	46.523	37.101	30.279	31.998	34.305	35.447	35.719
79.0	55.967	53.171	46.196	36.785	29.887	31.563	33.891	35.066	35.251
79.5	55.586	52.877	45.827	36.459	29.496	31.160	33.500	34.653	34.892
80.0	55.412	52.572	45.555	36.035	29.126	30.769	33.108	34.272	34.511
80.5	55.096	52.311	45.206	35.708	28.778	30.388	32.694	33.924	34.174
81.0	54.781	52.028	44.891	35.360	28.397	29.996	32.368	33.521	33.728
81.5	54.574	51.691	44.608	35.012	28.081	29.670	31.998	33.162	33.369
82.0	54.215	51.408	44.271	34.707	27.722	29.278	31.585	32.836	33.032
82.5	53.976	51.180	43.933	34.392	27.352	28.876	31.236	32.466	32.673

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CANDELA TABULATION - (Cont.)

83.0	53.617	50.842	43.672	34.033	26.993	28.549	30.888	32.096	32.292
83.5	53.356	50.603	43.379	33.706	26.667	28.212	30.518	31.715	31.911
84.0	53.127	50.342	43.052	33.434	26.330	27.842	30.192	31.400	31.552
84.5	52.844	50.026	42.813	33.086	26.014	27.494	29.822	31.008	31.182
85.0	52.616	49.743	42.530	32.803	25.720	27.146	29.507	30.692	30.921
85.5	52.365	49.482	42.214	32.509	25.372	26.776	29.202	30.344	30.540
86.0	52.104	49.210	41.942	32.194	25.089	26.482	28.810	29.931	30.268
86.5	51.832	48.993	41.725	31.922	24.774	26.145	28.484	29.626	29.822
87.0	51.539	48.721	41.409	31.715	24.491	25.829	28.190	29.343	29.517
87.5	51.299	48.438	41.181	31.389	24.273	25.535	27.864	28.984	29.235
88.0	51.071	48.275	40.952	31.182	23.947	25.242	27.581	28.691	28.876
88.5	50.820	48.024	40.702	30.954	23.751	24.948	27.276	28.397	28.560
89.0	50.777	47.883	40.517	30.703	23.523	24.741	26.982	28.060	28.201
89.5	50.799	47.872	40.517	30.682	23.359	24.524	26.710	27.788	27.929
90.0	50.701	47.937	40.593	30.725	23.446	24.469	26.602	27.624	27.744
90.5	50.864	48.003	40.604	30.758	23.446	24.491	26.536	27.537	27.690
91.0	51.005	48.046	40.669	30.823	23.425	24.491	26.482	27.494	27.635
91.5	51.049	48.177	40.724	30.888	23.501	24.502	26.471	27.472	27.537
92.0	51.136	48.166	40.833	30.867	23.512	24.502	26.417	27.385	27.505
92.5	51.201	48.253	40.876	30.954	23.577	24.469	26.373	27.298	27.428
93.0	51.288	48.329	40.876	31.030	23.555	24.404	26.373	27.265	27.385
93.5	51.419	48.383	41.028	31.062	23.664	24.415	26.373	27.222	27.309
94.0	51.473	48.492	41.072	31.149	23.642	24.393	26.275	27.178	27.222
94.5	51.549	48.525	41.137	31.171	23.697	24.339	26.308	27.102	27.091
95.0	51.713	48.601	41.181	31.226	23.697	24.339	26.232	26.950	27.015
95.5	51.691	48.721	41.235	31.291	23.729	24.328	26.177	26.906	26.982
96.0	51.821	48.775	41.311	31.334	23.751	24.306	26.123	26.852	26.841
96.5	51.887	48.829	41.442	31.367	23.816	24.273	26.058	26.732	26.776
97.0	51.963	48.906	41.420	31.443	23.805	24.252	26.025	26.656	26.634
97.5	52.017	48.971	41.485	31.530	23.816	24.197	25.992	26.634	26.580
98.0	52.137	48.982	41.562	31.519	23.903	24.219	25.894	26.525	26.493
98.5	52.148	49.080	41.616	31.617	23.914	24.154	25.862	26.449	26.384
99.0	52.213	49.145	41.616	31.704	23.947	24.088	25.840	26.362	26.297
99.5	52.289	49.167	41.692	31.672	23.969	24.088	25.720	26.275	26.145
100.0	52.311	49.221	41.725	31.737	24.023	24.045	25.699	26.199	26.079
100.5	52.398	49.232	41.736	31.791	24.034	24.012	25.666	26.090	25.971
101.0	52.387	49.265	41.779	31.857	24.088	23.969	25.601	25.971	25.862
101.5	52.507	49.286	41.823	31.878	24.110	23.892	25.524	25.905	25.709
102.0	52.463	49.319	41.812	31.933	24.197	23.871	25.448	25.786	25.666
102.5	52.496	49.319	41.823	31.944	24.197	23.838	25.350	25.677	25.557
103.0	52.507	49.352	41.844	31.987	24.262	23.751	25.263	25.590	25.459
103.5	52.507	49.363	41.823	32.052	24.241	23.718	25.198	25.524	25.263
104.0	52.594	49.373	41.779	31.987	24.262	23.664	25.100	25.416	25.220
104.5	52.616	49.417	41.790	32.052	24.284	23.599	24.970	25.285	25.046
105.0	52.518	49.428	41.768	32.085	24.349	23.533	24.850	25.209	24.926
105.5	52.572	49.363	41.757	32.020	24.371	23.479	24.730	25.068	24.785
106.0	52.616	49.373	41.790	32.042	24.339	23.436	24.611	24.915	24.698
106.5	52.594	49.395	41.768	32.042	24.371	23.381	24.502	24.806	24.556
107.0	52.627	49.395	41.736	32.031	24.339	23.338	24.371	24.643	24.447
107.5	52.594	49.363	41.725	32.020	24.339	23.272	24.262	24.513	24.262
108.0	52.594	49.352	41.703	32.074	24.371	23.142	24.143	24.295	24.077
108.5	52.616	49.341	41.725	32.020	24.328	23.120	24.034	24.164	23.882
109.0	52.518	49.330	41.670	32.020	24.349	23.000	23.914	23.980	23.762
109.5	52.550	49.254	41.616	31.976	24.295	22.968	23.795	23.838	23.490
110.0	52.496	49.265	41.583	31.976	24.328	22.913	23.675	23.620	23.403
110.5	52.507	49.178	41.583	31.965	24.284	22.848	23.523	23.512	23.131

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111.0	52.442	49.188	41.540	31.998	24.295	22.783	23.425	23.327	22.935
111.5	52.409	49.156	41.540	31.955	24.241	22.728	23.251	23.174	22.837
112.0	52.278	49.134	41.496	31.944	24.230	22.620	23.142	22.979	22.598
112.5	52.311	49.091	41.409	31.911	24.252	22.587	23.044	22.826	22.380
113.0	52.289	49.025	41.409	31.878	24.241	22.489	22.924	22.663	22.184
113.5	52.224	48.971	41.355	31.835	24.208	22.445	22.750	22.435	22.032
114.0	52.137	48.938	41.279	31.835	24.197	22.391	22.641	22.315	21.858
114.5	52.159	48.873	41.246	31.780	24.186	22.282	22.532	22.065	21.640
115.0	52.028	48.797	41.148	31.737	24.132	22.217	22.304	21.825	21.390
115.5	51.985	48.808	41.105	31.704	24.143	22.130	22.250	21.608	21.194
116.0	51.876	48.655	41.018	31.628	24.056	22.119	22.065	21.314	20.966
116.5	51.887	48.612	40.963	31.617	24.088	21.988	21.880	21.085	20.737
117.0	51.745	48.536	40.876	31.563	24.034	21.945	21.804	20.879	20.346
117.5	51.626	48.427	40.844	31.508	23.980	21.869	21.684	20.585	20.139
118.0	51.560	48.351	40.713	31.421	23.936	21.771	21.510	20.367	19.791
118.5	51.462	48.307	40.648	31.378	23.871	21.695	21.357	20.128	19.540
119.0	51.332	48.166	40.572	31.356	23.838	21.629	21.270	19.878	19.236
119.5	51.223	48.100	40.495	31.302	23.838	21.564	21.075	19.595	18.909
120.0	51.125	48.035	40.430	31.215	23.762	21.488	20.988	19.301	18.616
120.5	51.049	47.861	40.343	31.106	23.708	21.379	20.824	19.040	18.333
121.0	50.940	47.785	40.212	31.106	23.620	21.303	20.650	18.801	18.039
121.5	50.744	47.709	40.104	31.052	23.620	21.194	20.574	18.561	17.734
122.0	50.657	47.546	40.028	30.921	23.588	21.107	20.422	18.289	17.419
122.5	50.505	47.437	39.951	30.845	23.501	21.075	20.280	18.061	17.158
123.0	50.385	47.339	39.810	30.812	23.446	20.944	20.161	17.811	16.864
123.5	50.222	47.132	39.690	30.671	23.403	20.879	20.041	17.593	16.505
124.0	50.200	46.980	39.614	30.627	23.381	20.813	19.845	17.332	16.266
124.5	49.928	46.871	39.494	30.551	23.294	20.705	19.747	17.114	16.004
125.0	49.743	46.697	39.386	30.464	23.218	20.683	19.649	16.875	15.732
125.5	49.558	46.556	39.222	30.344	23.164	20.585	19.530	16.668	15.526
126.0	49.341	46.360	39.103	30.279	23.142	20.541	19.453	16.483	15.297
126.5	49.254	46.175	38.961	30.170	23.087	20.487	19.312	16.266	15.069
127.0	48.927	46.033	38.842	30.116	23.055	20.433	19.149	16.092	14.840
127.5	48.710	45.816	38.678	30.018	23.011	20.346	19.062	15.939	14.666
128.0	48.557	45.620	38.537	29.898	22.935	20.324	18.964	15.700	14.470
128.5	48.318	45.402	38.385	29.833	22.935	20.302	18.822	15.504	14.285
129.0	48.079	45.283	38.254	29.713	22.837	20.204	18.714	15.286	14.100
129.5	47.916	45.043	38.069	29.637	22.794	20.139	18.637	15.101	13.981
130.0	47.600	44.891	37.917	29.485	22.750	20.019	18.442	14.927	13.807
130.5	47.415	44.673	37.743	29.409	22.750	19.987	18.365	14.764	13.578
131.0	47.197	44.456	37.580	29.343	22.641	19.921	18.257	14.612	13.480
131.5	47.012	44.271	37.438	29.202	22.598	19.878	18.126	14.405	13.382
132.0	46.697	44.053	37.231	29.169	22.565	19.834	18.017	14.253	13.197
132.5	46.414	43.770	37.079	29.006	22.500	19.769	17.941	14.090	13.034
133.0	46.218	43.564	36.905	28.876	22.402	19.704	17.811	13.948	13.002
133.5	45.924	43.346	36.720	28.788	22.391	19.649	17.713	13.839	12.838
134.0	45.685	43.085	36.546	28.658	22.293	19.628	17.593	13.687	12.784
134.5	45.457	42.845	36.361	28.516	22.282	19.562	17.517	13.524	12.643
135.0	45.185	42.617	36.132	28.386	22.195	19.475	17.408	13.426	12.534
135.5	44.924	42.323	35.991	28.277	22.130	19.486	17.299	13.306	12.425
136.0	44.630	42.171	35.773	28.147	22.054	19.366	17.169	13.110	12.284
136.5	44.358	41.921	35.588	28.060	21.999	19.312	17.049	13.023	12.142
137.0	44.053	41.627	35.393	27.896	21.945	19.247	17.005	12.893	11.990
137.5	43.748	41.377	35.197	27.777	21.836	19.192	16.842	12.740	11.935
138.0	43.422	41.116	34.990	27.668	21.814	19.094	16.788	12.675	11.903
138.5	43.172	40.833	34.816	27.526	21.749	19.094	16.744	12.566	11.761

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139.0	42.845	40.604	34.588	27.363	21.629	19.062	16.592	12.414	11.674
139.5	42.563	40.310	34.370	27.233	21.575	18.986	16.516	12.327	11.565
140.0	42.345	40.049	34.076	27.124	21.542	18.964	16.440	12.207	11.457
140.5	42.040	39.734	33.924	26.917	21.412	18.866	16.298	12.120	11.359
141.0	41.736	39.527	33.684	26.841	21.368	18.790	16.255	11.968	11.228
141.5	41.475	39.179	33.489	26.667	21.281	18.779	16.146	11.859	11.119
142.0	41.159	38.918	33.238	26.493	21.172	18.714	16.059	11.729	10.989
142.5	40.778	38.646	33.032	26.362	21.107	18.637	16.004	11.674	10.858
143.0	40.474	38.330	32.792	26.188	21.031	18.616	15.928	11.500	10.826
143.5	40.147	38.015	32.531	26.014	20.944	18.518	15.798	11.402	10.728
144.0	39.843	37.721	32.303	25.884	20.824	18.442	15.776	11.315	10.662
144.5	39.516	37.416	32.074	25.742	20.748	18.463	15.754	11.250	10.586
145.0	39.168	37.155	31.868	25.524	20.650	18.376	15.635	11.108	10.532
145.5	38.852	36.851	31.628	25.405	20.585	18.300	15.558	11.054	10.521
146.0	38.493	36.524	31.367	25.242	20.476	18.213	15.526	10.978	10.586
146.5	38.178	36.187	31.095	25.068	20.356	18.180	15.428	10.815	10.575
147.0	37.862	35.893	30.888	24.893	20.248	18.115	15.439	10.739	10.543
147.5	37.536	35.523	30.638	24.719	20.215	18.061	15.341	10.673	10.575
148.0	37.144	35.219	30.366	24.556	20.074	17.985	15.276	10.586	10.597
148.5	36.774	34.925	30.138	24.371	20.019	17.919	15.221	10.488	10.619
149.0	36.383	34.631	29.866	24.219	19.889	17.876	15.199	10.390	10.673
149.5	36.111	34.294	29.604	24.001	19.769	17.843	15.134	10.347	10.728
150.0	35.741	33.924	29.343	23.849	19.638	17.734	15.080	10.271	10.717
150.5	35.382	33.641	29.071	23.675	19.573	17.713	15.047	10.227	10.782
151.0	35.034	33.249	28.832	23.457	19.453	17.626	14.982	10.216	10.858
151.5	34.718	32.934	28.582	23.305	19.345	17.582	14.927	10.129	10.815
152.0	34.261	32.640	28.288	23.153	19.247	17.495	14.884	10.031	10.793
152.5	33.891	32.259	28.049	22.924	19.116	17.452	14.797	10.020	10.836
153.0	33.608	31.900	27.722	22.696	19.029	17.397	14.808	9.977	10.826
153.5	33.173	31.585	27.494	22.522	18.899	17.310	14.786	9.966	10.869
154.0	32.803	31.236	27.200	22.348	18.790	17.234	14.699	9.944	10.836
154.5	32.401	30.867	26.895	22.130	18.692	17.158	14.699	9.944	10.815
155.0	31.998	30.486	26.634	21.923	18.594	17.071	14.634	9.933	10.815
155.5	31.639	30.116	26.362	21.706	18.463	17.005	14.547	9.955	10.880
156.0	31.291	29.789	26.068	21.553	18.333	16.962	14.547	9.966	10.880
156.5	30.812	29.430	25.753	21.314	18.257	16.864	14.547	9.923	10.945
157.0	30.518	29.093	25.503	21.085	18.083	16.799	14.481	9.836	10.924
157.5	30.094	28.723	25.187	20.879	17.941	16.690	14.460	9.792	10.869
158.0	29.713	28.321	24.937	20.705	17.843	16.636	14.449	9.716	10.869
158.5	29.376	28.005	24.676	20.465	17.680	16.548	14.394	9.574	10.858
159.0	28.952	27.657	24.339	20.248	17.549	16.429	14.372	9.520	10.869
159.5	28.560	27.265	24.056	20.063	17.419	16.396	14.351	9.389	10.880
160.0	28.157	26.874	23.751	19.791	17.277	16.276	14.275	9.379	10.869
160.5	27.798	26.515	23.468	19.584	17.158	16.233	14.209	9.324	10.858
161.0	27.374	26.123	23.142	19.388	17.038	16.124	14.144	9.302	10.945
161.5	26.917	25.753	22.870	19.105	16.875	16.037	14.046	9.172	10.989
162.0	26.493	25.383	22.500	18.866	16.744	15.928	13.948	9.085	11.043
162.5	26.090	25.002	22.217	18.681	16.668	15.852	13.796	8.987	11.043
163.0	25.688	24.600	21.912	18.431	16.461	15.743	13.459	8.922	11.065
163.5	25.252	24.241	21.575	18.213	16.374	15.635	13.100	8.758	11.130
164.0	24.893	23.838	21.281	18.006	16.244	15.602	12.653	8.486	11.098
164.5	24.447	23.425	20.966	17.713	16.081	15.471	12.099	8.247	10.891
165.0	24.023	23.011	20.650	17.484	15.928	15.265	11.587	8.127	10.564
165.5	23.566	22.641	20.324	17.223	15.787	15.025	11.043	8.073	10.129
166.0	23.174	22.239	19.987	17.016	15.602	14.644	10.390	8.029	9.629
166.5	22.707	21.814	19.606	16.788	15.395	14.122	9.846	7.921	8.922

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167.0	22.228	21.412	19.301	16.570	15.069	13.567	9.411	7.866	8.084
167.5	21.804	21.009	18.986	16.298	14.601	12.904	8.976	7.638	7.355
168.0	21.314	20.531	18.550	16.092	13.948	12.186	8.704	7.485	6.484
168.5	20.868	20.106	18.224	15.830	13.372	11.511	8.530	7.300	5.679
169.0	20.411	19.715	17.919	15.439	12.588	10.793	8.334	6.941	4.722
169.5	19.932	19.301	17.517	14.960	11.892	10.097	8.258	6.550	3.699
170.0	19.432	18.855	17.114	14.318	11.108	9.564	8.106	5.984	2.753
170.5	18.953	18.289	16.690	13.654	10.445	9.215	7.888	5.288	1.991
171.0	18.463	17.767	16.070	12.958	9.890	8.867	7.714	4.678	1.219
171.5	18.017	17.321	15.537	12.229	9.509	8.671	7.409	4.156	0.805
172.0	17.495	16.820	15.014	11.533	9.172	8.530	6.887	3.536	0.718
172.5	17.049	16.135	14.285	11.021	8.878	8.280	6.278	2.927	0.707
173.0	16.266	15.515	13.589	10.543	8.628	7.997	5.658	2.339	0.675
173.5	15.330	14.808	12.806	9.977	8.312	7.420	4.842	1.980	0.577
174.0	14.829	13.894	11.903	9.520	8.051	6.582	4.004	1.828	0.500
174.5	14.013	13.012	11.087	8.998	7.562	5.745	3.199	1.643	0.424
175.0	13.034	12.066	10.303	8.345	6.854	4.787	2.557	1.501	0.326
175.5	11.761	10.967	9.379	7.681	5.984	3.743	2.187	1.240	0.239
176.0	10.488	9.748	8.465	6.887	5.059	2.840	1.937	1.034	0.316
176.5	9.117	8.378	7.388	5.766	3.982	2.187	1.654	0.729	0.250
177.0	7.518	6.985	6.180	4.624	3.014	1.839	1.393	0.479	0.207
177.5	5.864	5.418	5.037	3.601	2.220	1.621	1.175	0.316	0.207
178.0	4.102	3.797	3.841	2.448	1.632	1.349	0.925	0.261	0.348
178.5	2.611	2.426	2.535	1.556	1.316	1.110	0.696	0.283	0.239
179.0	1.534	1.458	1.360	0.968	1.023	0.881	0.544	0.261	0.272
179.5	0.544	0.827	0.522	0.522	0.707	0.707	0.337	0.272	0.381
180.0	0.392	0.392	0.392	0.392	0.392	0.392	0.392	0.392	0.392

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PHOTOMETRIC FILENAME : FSN SEED 1 LIGHT.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	44.35	N.A.	7.40
0-30	101.85	N.A.	16.90
0-40	171.37	N.A.	28.40
0-60	293.24	N.A.	48.70
0-80	387.96	N.A.	64.40
0-90	426.24	N.A.	70.80
10-90	416.19	N.A.	69.10
20-40	127.02	N.A.	21.10
20-50	192.56	N.A.	32.00
40-70	172.09	N.A.	28.60
60-80	94.72	N.A.	15.70
70-80	44.50	N.A.	7.40
80-90	38.27	N.A.	6.40
90-110	69.98	N.A.	11.60
90-120	100.82	N.A.	16.70
90-130	126.61	N.A.	21.00
90-150	161.40	N.A.	26.80
90-180	176.12	N.A.	29.20
110-180	106.14	N.A.	17.60
0-180	602.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	10.05
10-20	34.30
20-30	57.49
30-40	69.53
40-50	65.53
50-60	56.33
60-70	50.22
70-80	44.50
80-90	38.27
90-100	35.66
100-110	34.31
110-120	30.85
120-130	25.79
130-140	20.21
140-150	14.58
150-160	9.34
160-170	4.59
170-180	0.80

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN SEED 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	66	63	61	59	54	54
2	90	81	74	68	85	77	71	65	69	64	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	44	40	37	37
4	75	63	54	47	70	60	51	45	53	47	41	48	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	40	34	43	36	31	39	33	29	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	55	41	33	27	51	39	32	26	36	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	19	16	16
10	48	35	27	22	45	33	26	21	30	24	20	27	22	18	25	20	17	15	15

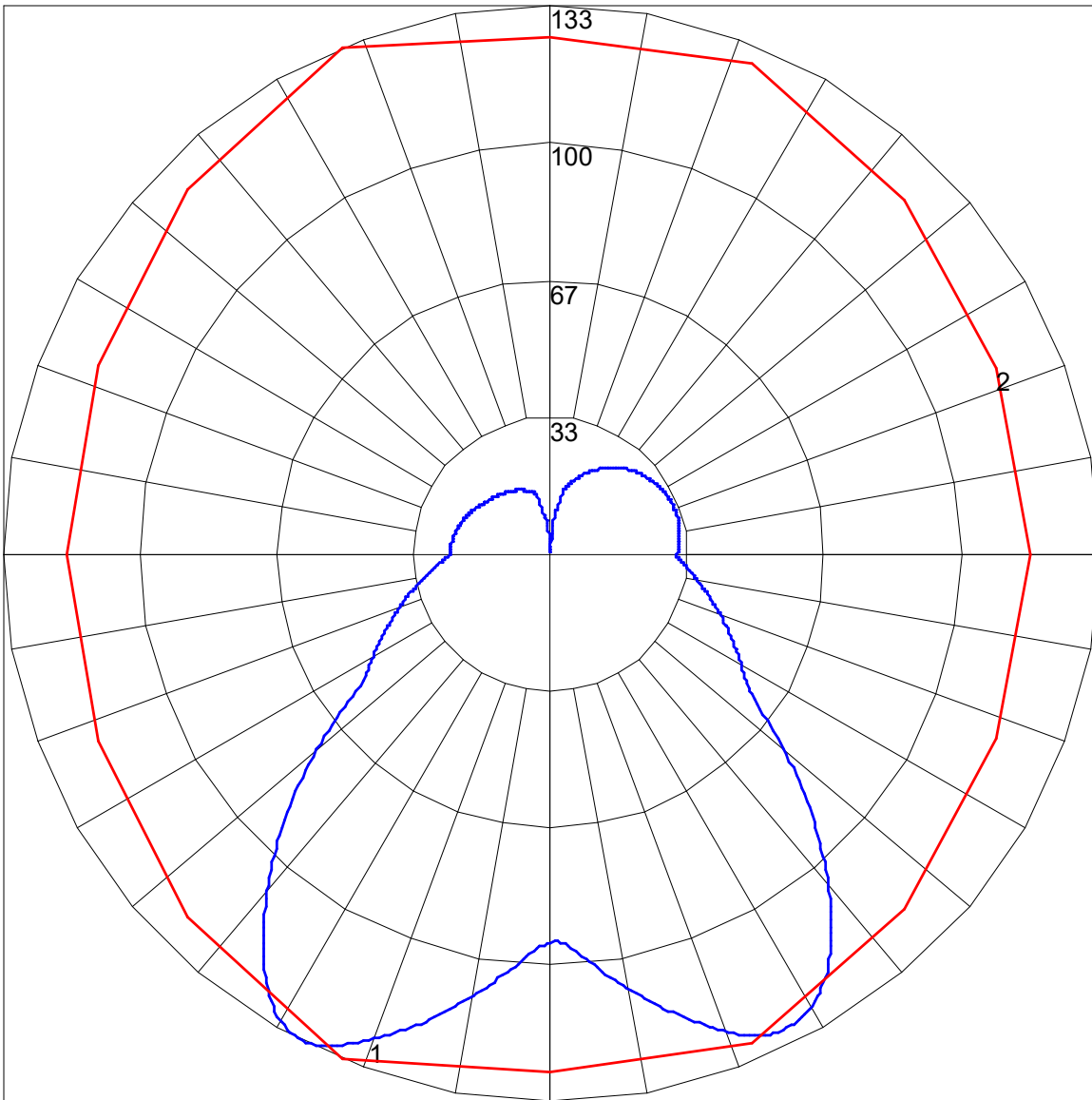
IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN SEED 1 LIGHT.IES

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	13.0	14.1	13.7	14.9	15.8	11.2	12.4	11.9	13.1	14.1
	3H	15.3	16.4	16.0	17.1	18.1	13.0	14.1	13.8	14.9	15.9
	4H	16.4	17.4	17.2	18.2	19.2	13.9	14.9	14.6	15.7	16.6
	6H	17.5	18.5	18.3	19.3	20.3	14.6	15.6	15.4	16.4	17.3
	8H	18.1	18.9	18.9	19.8	20.8	15.0	15.9	15.8	16.7	17.7
	12H	18.6	19.4	19.4	20.2	21.3	15.3	16.1	16.1	16.9	18.0
4H	2H	13.5	14.5	14.3	15.3	16.3	12.0	13.0	12.8	13.8	14.8
	3H	16.1	17.0	16.9	17.8	18.8	14.1	15.0	14.9	15.8	16.8
	4H	17.4	18.2	18.2	19.0	20.0	15.1	15.9	15.9	16.7	17.7
	6H	18.7	19.4	19.5	20.2	21.3	16.0	16.7	16.8	17.5	18.5
	8H	19.3	20.0	20.1	20.8	21.9	16.4	17.1	17.2	17.9	18.9
	12H	19.9	20.5	20.8	21.4	22.5	16.8	17.4	17.6	18.3	19.3
8H	4H	17.7	18.4	18.6	19.3	20.3	15.7	16.3	16.5	17.2	18.2
	6H	19.3	19.8	20.1	20.7	21.7	16.8	17.4	17.6	18.2	19.3
	8H	20.0	20.6	20.9	21.4	22.5	17.3	17.8	18.2	18.7	19.8
	12H	20.9	21.3	21.7	22.2	23.3	17.9	18.3	18.7	19.2	20.3
12H	4H	17.8	18.4	18.6	19.3	20.3	15.8	16.4	16.7	17.3	18.3
	6H	19.4	19.9	20.2	20.8	21.8	17.0	17.5	17.9	18.4	19.5
	8H	20.2	20.7	21.1	21.6	22.7	17.7	18.1	18.5	19.0	20.1

Maximum UGR = 23.3

POLAR GRAPH



Maximum Candela = 133.019 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.)