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IES INDOOR REPORT

PHOTOMETRIC FILENAME : FAB GRAY 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] Textile Woven Fabric (FAB) 1-Light Wall Sconce

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

[MORE] Steel formed housing and woven fabric lens.

[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	310
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	41
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	1659	1585	2732
55	1399	1225	1774
65	1251	1040	1325
75	1162	922	1155
85	1118	853	1036

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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	48.586	48.586	48.586	48.586	48.586	48.586	48.586	48.586	48.586
0.5	48.115	48.255	48.440	48.462	48.619	48.815	48.966	48.978	48.983
1.0	48.238	48.401	48.479	48.513	48.681	48.994	49.235	49.330	49.403
1.5	48.625	48.720	48.720	48.636	48.843	49.252	49.605	49.829	49.918
2.0	49.056	49.095	49.067	48.826	49.034	49.532	50.036	50.383	50.495
2.5	49.582	49.616	49.470	49.112	49.274	49.868	50.523	50.994	51.122
3.0	50.210	50.103	49.918	49.448	49.521	50.215	51.072	51.598	51.772
3.5	50.842	50.691	50.417	49.790	49.806	50.574	51.582	52.231	52.506
4.0	51.498	51.341	50.882	50.170	50.092	50.994	52.147	52.875	53.144
4.5	52.158	51.929	51.419	50.529	50.400	51.414	52.696	53.547	53.861
5.0	52.780	52.601	51.940	50.915	50.691	51.828	53.211	54.163	54.538
5.5	53.407	53.189	52.461	51.346	51.010	52.242	53.777	54.846	55.210
6.0	54.130	53.838	52.993	51.761	51.330	52.690	54.370	55.524	55.994
6.5	54.779	54.466	53.564	52.164	51.626	53.116	54.925	56.179	56.616
7.0	55.429	55.070	54.102	52.595	51.968	53.547	55.518	56.862	57.333
7.5	56.073	55.748	54.650	53.021	52.304	53.995	56.112	57.529	58.027
8.0	56.683	56.370	55.216	53.430	52.640	54.438	56.672	58.178	58.694
8.5	57.310	57.014	55.759	53.861	52.948	54.886	57.260	58.828	59.360
9.0	58.016	57.613	56.314	54.292	53.306	55.328	57.865	59.455	60.026
9.5	58.677	58.234	56.879	54.712	53.670	55.782	58.386	60.066	60.693
10.0	59.310	58.884	57.417	55.149	53.984	56.202	58.946	60.743	61.348
10.5	59.937	59.567	57.982	55.602	54.320	56.655	59.528	61.365	62.009
11.0	60.654	60.155	58.526	56.034	54.656	57.103	60.066	61.986	62.664
11.5	61.326	60.782	59.058	56.504	54.998	57.551	60.631	62.586	63.274
12.0	61.947	61.426	59.623	56.935	55.339	57.999	61.180	63.230	63.907
12.5	62.457	62.003	60.211	57.355	55.670	58.464	61.718	63.790	64.529
13.0	62.815	62.569	60.732	57.792	55.989	58.895	62.261	64.406	65.083
13.5	63.039	63.017	61.309	58.218	56.336	59.349	62.787	64.971	65.548
14.0	63.112	63.302	61.824	58.610	56.672	59.769	63.302	65.486	65.856
14.5	63.286	63.538	62.367	59.052	56.969	60.200	63.812	65.906	66.024
15.0	63.414	63.689	62.877	59.478	57.338	60.626	64.350	66.209	66.097
15.5	63.543	63.806	63.364	59.909	57.674	61.029	64.837	66.326	66.074
16.0	63.588	63.958	63.778	60.334	57.960	61.460	65.324	66.399	66.041
16.5	63.644	63.974	64.154	60.732	58.268	61.874	65.822	66.388	65.962
17.0	63.650	64.014	64.478	61.135	58.632	62.261	66.265	66.332	65.845
17.5	63.722	64.098	64.736	61.555	58.923	62.647	66.646	66.270	65.800
18.0	63.683	64.086	64.898	61.942	59.231	63.062	66.987	66.164	65.649
18.5	63.722	64.081	65.038	62.334	59.556	63.437	67.200	66.063	65.498
19.0	63.711	64.109	65.100	62.726	59.870	63.834	67.318	65.951	65.352
19.5	63.627	64.025	65.145	63.123	60.183	64.198	67.362	65.828	65.184
20.0	63.521	64.002	65.162	63.476	60.480	64.596	67.340	65.660	65.050
20.5	63.431	63.952	65.156	63.868	60.810	64.954	67.278	65.514	64.854
21.0	63.224	63.812	65.134	64.221	61.113	65.330	67.189	65.346	64.669
21.5	63.112	63.672	65.089	64.590	61.426	65.699	67.071	65.139	64.484
22.0	63.000	63.566	65.016	64.926	61.740	66.035	66.948	64.949	64.243
22.5	62.815	63.381	64.943	65.246	62.059	66.394	66.825	64.714	63.958
23.0	62.636	63.162	64.865	65.526	62.356	66.707	66.651	64.467	63.722
23.5	62.378	62.905	64.708	65.722	62.619	67.038	66.455	64.232	63.403
24.0	62.132	62.636	64.568	65.890	62.933	67.346	66.265	63.913	63.078
24.5	61.919	62.418	64.406	66.035	63.207	67.648	66.052	63.560	62.787
25.0	61.662	62.121	64.182	66.153	63.487	67.911	65.811	63.263	62.457
25.5	61.376	61.841	63.969	66.242	63.767	68.113	65.582	62.905	62.082
26.0	61.062	61.522	63.706	66.265	64.008	68.292	65.279	62.518	61.723
26.5	60.766	61.191	63.431	66.332	64.266	68.404	65.005	62.149	61.298

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CANDELA TABULATION - (Cont.)

27.0	60.357	60.827	63.123	66.310	64.501	68.454	64.697	61.718	60.894
27.5	60.077	60.519	62.804	66.265	64.730	68.466	64.333	61.320	60.480
28.0	59.662	60.144	62.429	66.158	64.943	68.421	63.969	60.878	60.032
28.5	59.265	59.707	62.048	66.041	65.184	68.286	63.571	60.424	59.550
29.0	58.884	59.293	61.673	65.828	65.419	68.113	63.140	59.937	59.069
29.5	58.464	58.901	61.247	65.610	65.632	67.878	62.703	59.450	58.576
30.0	58.044	58.470	60.794	65.341	65.806	67.581	62.233	58.951	58.033
30.5	57.518	58.022	60.329	65.010	66.030	67.262	61.706	58.414	57.467
31.0	57.103	57.607	59.842	64.719	66.203	66.903	61.197	57.865	56.935
31.5	56.655	57.131	59.371	64.372	66.399	66.511	60.659	57.327	56.336
32.0	56.123	56.633	58.901	63.969	66.590	66.058	60.110	56.762	55.776
32.5	55.642	56.162	58.346	63.577	66.702	65.559	59.534	56.157	55.115
33.0	55.121	55.636	57.831	63.112	66.842	65.016	58.974	55.541	54.505
33.5	54.522	55.154	57.310	62.619	66.948	64.484	58.391	54.908	53.777
34.0	54.034	54.600	56.734	62.154	66.914	63.846	57.764	54.298	53.161
34.5	53.514	54.062	56.196	61.578	66.830	63.235	57.154	53.648	52.483
35.0	52.898	53.497	55.614	61.001	66.550	62.597	56.487	52.987	51.761
35.5	52.349	52.976	55.054	60.407	66.170	61.936	55.860	52.321	51.050
36.0	51.766	52.366	54.449	59.786	65.677	61.236	55.205	51.598	50.372
36.5	51.150	51.794	53.883	59.114	65.094	60.570	54.538	50.938	49.627
37.0	50.607	51.223	53.278	58.425	64.361	59.819	53.855	50.243	48.916
37.5	50.025	50.624	52.640	57.725	63.442	59.086	53.161	49.504	48.160
38.0	49.409	50.008	52.058	57.025	62.429	58.346	52.478	48.776	47.415
38.5	48.815	49.398	51.419	56.274	61.376	57.568	51.733	48.009	46.693
39.0	48.216	48.815	50.809	55.530	60.290	56.823	51.027	47.281	45.959
39.5	47.645	48.188	50.176	54.757	59.203	56.039	50.294	46.514	45.186
40.0	47.152	47.589	49.526	53.990	58.111	55.266	49.571	45.763	44.464
40.5	46.581	46.978	48.877	53.234	57.075	54.471	48.804	45.007	43.714
41.0	46.004	46.390	48.244	52.438	56.039	53.693	48.059	44.251	42.991
41.5	45.573	45.814	47.566	51.699	55.037	52.898	47.286	43.484	42.297
42.0	45.102	45.237	46.906	50.921	54.107	52.102	46.525	42.734	41.597
42.5	44.710	44.666	46.228	50.137	53.150	51.290	45.730	41.994	40.925
43.0	44.374	44.134	45.567	49.364	52.248	50.495	44.934	41.272	40.225
43.5	44.083	43.674	44.884	48.552	51.402	49.661	44.156	40.578	39.642
44.0	43.842	43.210	44.223	47.757	50.557	48.821	43.327	39.844	39.077
44.5	43.484	42.851	43.557	47.006	49.739	47.998	42.526	39.200	38.545
45.0	43.187	42.504	42.874	46.161	48.922	47.124	41.714	38.578	38.114
45.5	42.907	42.174	42.246	45.382	48.160	46.295	40.947	38.013	37.688
46.0	42.599	41.899	41.591	44.587	47.354	45.410	40.152	37.486	37.285
46.5	42.274	41.586	40.953	43.792	46.598	44.526	39.362	37.027	36.859
47.0	41.944	41.255	40.359	42.952	45.786	43.646	38.545	36.602	36.428
47.5	41.653	40.964	39.743	42.146	44.962	42.739	37.800	36.176	35.997
48.0	41.356	40.667	39.217	41.339	44.139	41.838	37.055	35.773	35.549
48.5	41.031	40.326	38.702	40.488	43.288	40.908	36.310	35.347	35.174
49.0	40.768	40.023	38.259	39.693	42.420	40.023	35.627	34.938	34.770
49.5	40.466	39.710	37.806	38.853	41.530	39.099	34.966	34.518	34.350
50.0	40.169	39.413	37.408	38.041	40.622	38.220	34.384	34.132	33.975
50.5	39.872	39.094	36.999	37.262	39.670	37.307	33.835	33.712	33.583
51.0	39.603	38.808	36.652	36.501	38.718	36.389	33.337	33.331	33.169
51.5	39.357	38.483	36.338	35.650	37.761	35.498	32.894	32.922	32.816
52.0	39.032	38.220	36.058	34.905	36.747	34.614	32.474	32.570	32.452
52.5	38.808	37.929	35.745	34.154	35.711	33.740	32.116	32.183	32.082
53.0	38.528	37.626	35.448	33.382	34.731	32.878	31.713	31.786	31.718
53.5	38.293	37.352	35.140	32.715	33.718	32.060	31.338	31.494	31.349
54.0	38.052	37.106	34.854	32.026	32.726	31.248	30.979	31.091	31.018
54.5	37.733	36.814	34.552	31.399	31.786	30.503	30.615	30.750	30.716

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CANDELA TABULATION - (Cont.)

55.0	37.481	36.590	34.261	30.834	30.828	29.747	30.257	30.391	30.358
55.5	37.313	36.338	33.964	30.363	29.926	29.042	29.898	30.066	30.061
56.0	37.083	36.081	33.690	29.882	29.019	28.448	29.540	29.736	29.725
56.5	36.854	35.823	33.382	29.495	28.174	27.882	29.193	29.417	29.400
57.0	36.658	35.616	33.107	29.081	27.384	27.451	28.868	29.086	29.098
57.5	36.422	35.336	32.833	28.689	26.600	27.110	28.532	28.767	28.795
58.0	36.238	35.112	32.542	28.403	25.872	26.830	28.174	28.465	28.487
58.5	35.980	34.905	32.295	28.185	25.234	26.533	27.854	28.151	28.162
59.0	35.806	34.670	32.038	27.922	24.690	26.258	27.541	27.832	27.877
59.5	35.588	34.446	31.769	27.692	24.242	25.990	27.205	27.558	27.619
60.0	35.353	34.238	31.522	27.451	23.906	25.710	26.914	27.255	27.294
60.5	35.146	34.026	31.282	27.205	23.626	25.413	26.600	26.942	27.042
61.0	34.961	33.807	31.030	26.947	23.397	25.122	26.281	26.667	26.718
61.5	34.810	33.617	30.744	26.718	23.190	24.847	26.001	26.376	26.477
62.0	34.586	33.393	30.531	26.432	22.994	24.578	25.693	26.096	26.169
62.5	34.378	33.180	30.290	26.202	22.764	24.287	25.418	25.822	25.878
63.0	34.199	32.973	30.038	25.950	22.546	24.007	25.138	25.508	25.637
63.5	33.964	32.766	29.814	25.704	22.322	23.727	24.853	25.267	25.340
64.0	33.779	32.586	29.607	25.469	22.092	23.475	24.556	24.998	25.088
64.5	33.645	32.385	29.361	25.206	21.857	23.190	24.298	24.741	24.814
65.0	33.454	32.183	29.176	24.970	21.633	22.932	24.024	24.461	24.556
65.5	33.242	31.987	28.924	24.746	21.398	22.635	23.722	24.231	24.293
66.0	33.057	31.814	28.722	24.500	21.168	22.383	23.470	23.962	24.041
66.5	32.894	31.601	28.498	24.242	20.944	22.126	23.190	23.699	23.806
67.0	32.721	31.438	28.280	24.052	20.675	21.846	22.904	23.436	23.542
67.5	32.514	31.242	28.056	23.817	20.468	21.571	22.674	23.190	23.285
68.0	32.334	31.041	27.860	23.548	20.250	21.353	22.422	22.932	23.055
68.5	32.178	30.856	27.658	23.341	20.003	21.062	22.159	22.708	22.837
69.0	32.015	30.694	27.440	23.111	19.762	20.838	21.930	22.456	22.546
69.5	31.836	30.503	27.244	22.865	19.538	20.597	21.672	22.215	22.322
70.0	31.679	30.341	27.026	22.663	19.298	20.322	21.442	21.980	22.109
70.5	31.472	30.150	26.807	22.445	19.062	20.082	21.196	21.756	21.818
71.0	31.293	29.971	26.650	22.193	18.833	19.841	20.950	21.498	21.622
71.5	31.153	29.831	26.454	21.997	18.609	19.600	20.709	21.280	21.392
72.0	30.990	29.646	26.247	21.767	18.390	19.342	20.485	21.039	21.168
72.5	30.839	29.473	26.074	21.532	18.161	19.118	20.250	20.826	20.933
73.0	30.654	29.305	25.883	21.347	17.937	18.878	20.031	20.586	20.714
73.5	30.481	29.148	25.687	21.118	17.713	18.637	19.790	20.378	20.485
74.0	30.363	28.963	25.508	20.894	17.500	18.407	19.578	20.154	20.278
74.5	30.234	28.790	25.306	20.709	17.259	18.172	19.354	19.936	20.048
75.0	30.050	28.650	25.133	20.513	17.063	17.965	19.146	19.734	19.818
75.5	29.865	28.476	24.976	20.289	16.850	17.752	18.922	19.494	19.611
76.0	29.714	28.319	24.802	20.098	16.621	17.511	18.698	19.286	19.387
76.5	29.534	28.162	24.606	19.908	16.402	17.315	18.486	19.074	19.191
77.0	29.355	27.994	24.466	19.706	16.212	17.102	18.262	18.878	18.990
77.5	29.266	27.860	24.282	19.499	15.988	16.867	18.060	18.654	18.805
78.0	29.098	27.692	24.086	19.320	15.803	16.677	17.858	18.446	18.581
78.5	28.907	27.524	23.946	19.096	15.585	16.470	17.657	18.245	18.385
79.0	28.806	27.367	23.778	18.934	15.383	16.246	17.444	18.049	18.144
79.5	28.610	27.216	23.587	18.766	15.182	16.038	17.242	17.836	17.959
80.0	28.521	27.059	23.447	18.547	14.991	15.837	17.041	17.640	17.763
80.5	28.358	26.925	23.268	18.379	14.812	15.641	16.828	17.461	17.590
81.0	28.196	26.779	23.106	18.200	14.616	15.439	16.660	17.254	17.360
81.5	28.090	26.606	22.960	18.021	14.454	15.271	16.470	17.069	17.175
82.0	27.905	26.460	22.786	17.864	14.269	15.070	16.257	16.901	17.002
82.5	27.782	26.342	22.613	17.702	14.078	14.862	16.078	16.710	16.817

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CANDELA TABULATION - (Cont.)

83.0	27.597	26.169	22.478	17.517	13.894	14.694	15.898	16.520	16.621
83.5	27.462	26.046	22.327	17.349	13.726	14.521	15.708	16.324	16.425
84.0	27.345	25.911	22.159	17.209	13.552	14.330	15.540	16.162	16.240
84.5	27.199	25.749	22.036	17.030	13.390	14.151	15.350	15.960	16.050
85.0	27.082	25.603	21.890	16.884	13.238	13.972	15.187	15.798	15.915
85.5	26.953	25.469	21.728	16.733	13.059	13.782	15.030	15.618	15.719
86.0	26.818	25.329	21.588	16.570	12.914	13.630	14.829	15.406	15.579
86.5	26.678	25.217	21.476	16.430	12.751	13.457	14.661	15.249	15.350
87.0	26.527	25.077	21.314	16.324	12.606	13.294	14.510	15.103	15.193
87.5	26.404	24.931	21.196	16.156	12.494	13.143	14.342	14.918	15.047
88.0	26.286	24.847	21.078	16.050	12.326	12.992	14.196	14.767	14.862
88.5	26.158	24.718	20.950	15.932	12.225	12.841	14.039	14.616	14.700
89.0	26.135	24.646	20.854	15.803	12.107	12.734	13.888	14.442	14.515
89.5	26.146	24.640	20.854	15.792	12.023	12.622	13.748	14.302	14.375
90.0	26.096	24.674	20.894	15.814	12.068	12.594	13.692	14.218	14.280
90.5	26.180	24.707	20.899	15.831	12.068	12.606	13.658	14.174	14.252
91.0	26.253	24.730	20.933	15.865	12.057	12.606	13.630	14.151	14.224
91.5	26.275	24.797	20.961	15.898	12.096	12.611	13.625	14.140	14.174
92.0	26.320	24.791	21.017	15.887	12.102	12.611	13.597	14.095	14.157
92.5	26.354	24.836	21.039	15.932	12.135	12.594	13.574	14.050	14.118
93.0	26.398	24.875	21.039	15.971	12.124	12.561	13.574	14.034	14.095
93.5	26.466	24.903	21.118	15.988	12.180	12.566	13.574	14.011	14.056
94.0	26.494	24.959	21.140	16.033	12.169	12.555	13.524	13.989	14.011
94.5	26.533	24.976	21.174	16.044	12.197	12.527	13.541	13.950	13.944
95.0	26.617	25.015	21.196	16.072	12.197	12.527	13.502	13.871	13.905
95.5	26.606	25.077	21.224	16.106	12.214	12.522	13.474	13.849	13.888
96.0	26.673	25.105	21.263	16.128	12.225	12.510	13.446	13.821	13.815
96.5	26.706	25.133	21.330	16.145	12.258	12.494	13.412	13.759	13.782
97.0	26.746	25.172	21.319	16.184	12.253	12.482	13.395	13.720	13.709
97.5	26.774	25.206	21.353	16.229	12.258	12.454	13.378	13.709	13.681
98.0	26.835	25.211	21.392	16.223	12.303	12.466	13.328	13.653	13.636
98.5	26.841	25.262	21.420	16.274	12.309	12.432	13.311	13.614	13.580
99.0	26.874	25.295	21.420	16.318	12.326	12.398	13.300	13.569	13.535
99.5	26.914	25.306	21.459	16.302	12.337	12.398	13.238	13.524	13.457
100.0	26.925	25.334	21.476	16.335	12.365	12.376	13.227	13.485	13.423
100.5	26.970	25.340	21.482	16.363	12.370	12.359	13.210	13.429	13.367
101.0	26.964	25.357	21.504	16.397	12.398	12.337	13.177	13.367	13.311
101.5	27.026	25.368	21.526	16.408	12.410	12.298	13.138	13.334	13.233
102.0	27.003	25.385	21.521	16.436	12.454	12.286	13.098	13.272	13.210
102.5	27.020	25.385	21.526	16.442	12.454	12.270	13.048	13.216	13.154
103.0	27.026	25.402	21.538	16.464	12.488	12.225	13.003	13.171	13.104
103.5	27.026	25.407	21.526	16.498	12.477	12.208	12.970	13.138	13.003
104.0	27.070	25.413	21.504	16.464	12.488	12.180	12.919	13.082	12.981
104.5	27.082	25.435	21.510	16.498	12.499	12.146	12.852	13.014	12.891
105.0	27.031	25.441	21.498	16.514	12.533	12.113	12.790	12.975	12.830
105.5	27.059	25.407	21.493	16.481	12.544	12.085	12.729	12.902	12.757
106.0	27.082	25.413	21.510	16.492	12.527	12.062	12.667	12.824	12.712
106.5	27.070	25.424	21.498	16.492	12.544	12.034	12.611	12.768	12.639
107.0	27.087	25.424	21.482	16.486	12.527	12.012	12.544	12.684	12.583
107.5	27.070	25.407	21.476	16.481	12.527	11.978	12.488	12.617	12.488
108.0	27.070	25.402	21.465	16.509	12.544	11.911	12.426	12.505	12.393
108.5	27.082	25.396	21.476	16.481	12.522	11.900	12.370	12.438	12.292
109.0	27.031	25.390	21.448	16.481	12.533	11.838	12.309	12.342	12.230
109.5	27.048	25.351	21.420	16.458	12.505	11.822	12.247	12.270	12.090
110.0	27.020	25.357	21.403	16.458	12.522	11.794	12.186	12.158	12.046
110.5	27.026	25.312	21.403	16.453	12.499	11.760	12.107	12.102	11.906

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CANDELA TABULATION - (Cont.)

111.0	26.992	25.318	21.381	16.470	12.505	11.726	12.057	12.006	11.805
111.5	26.975	25.301	21.381	16.447	12.477	11.698	11.967	11.928	11.754
112.0	26.908	25.290	21.358	16.442	12.471	11.642	11.911	11.827	11.631
112.5	26.925	25.267	21.314	16.425	12.482	11.626	11.861	11.749	11.519
113.0	26.914	25.234	21.314	16.408	12.477	11.575	11.799	11.665	11.418
113.5	26.880	25.206	21.286	16.386	12.460	11.553	11.710	11.547	11.340
114.0	26.835	25.189	21.246	16.386	12.454	11.525	11.654	11.486	11.250
114.5	26.846	25.155	21.230	16.358	12.449	11.469	11.598	11.357	11.138
115.0	26.779	25.116	21.179	16.335	12.421	11.435	11.480	11.234	11.010
115.5	26.757	25.122	21.157	16.318	12.426	11.390	11.452	11.122	10.909
116.0	26.701	25.043	21.112	16.279	12.382	11.385	11.357	10.970	10.791
116.5	26.706	25.021	21.084	16.274	12.398	11.318	11.262	10.853	10.674
117.0	26.634	24.982	21.039	16.246	12.370	11.295	11.222	10.746	10.472
117.5	26.572	24.926	21.022	16.218	12.342	11.256	11.161	10.595	10.366
118.0	26.538	24.886	20.955	16.173	12.320	11.206	11.071	10.483	10.186
118.5	26.488	24.864	20.922	16.150	12.286	11.166	10.993	10.360	10.058
119.0	26.421	24.791	20.882	16.139	12.270	11.133	10.948	10.231	9.901
119.5	26.365	24.758	20.843	16.111	12.270	11.099	10.847	10.086	9.733
120.0	26.314	24.724	20.810	16.066	12.230	11.060	10.802	9.934	9.582
120.5	26.275	24.634	20.765	16.010	12.202	11.004	10.718	9.800	9.436
121.0	26.219	24.595	20.698	16.010	12.158	10.965	10.629	9.677	9.285
121.5	26.118	24.556	20.642	15.982	12.158	10.909	10.590	9.554	9.128
122.0	26.074	24.472	20.602	15.915	12.141	10.864	10.511	9.414	8.966
122.5	25.995	24.416	20.563	15.876	12.096	10.847	10.438	9.296	8.831
123.0	25.934	24.366	20.490	15.859	12.068	10.780	10.377	9.167	8.680
123.5	25.850	24.259	20.429	15.786	12.046	10.746	10.315	9.055	8.495
124.0	25.838	24.181	20.390	15.764	12.034	10.713	10.214	8.921	8.372
124.5	25.698	24.125	20.328	15.725	11.990	10.657	10.164	8.809	8.238
125.0	25.603	24.035	20.272	15.680	11.950	10.646	10.114	8.686	8.098
125.5	25.508	23.962	20.188	15.618	11.922	10.595	10.052	8.579	7.991
126.0	25.396	23.862	20.126	15.585	11.911	10.573	10.013	8.484	7.874
126.5	25.351	23.766	20.054	15.529	11.883	10.545	9.940	8.372	7.756
127.0	25.183	23.694	19.992	15.501	11.866	10.517	9.856	8.282	7.638
127.5	25.071	23.582	19.908	15.450	11.844	10.472	9.811	8.204	7.549
128.0	24.993	23.481	19.835	15.389	11.805	10.461	9.761	8.081	7.448
128.5	24.870	23.369	19.757	15.355	11.805	10.450	9.688	7.980	7.353
129.0	24.746	23.307	19.690	15.294	11.754	10.399	9.632	7.868	7.258
129.5	24.662	23.184	19.594	15.254	11.732	10.366	9.593	7.773	7.196
130.0	24.500	23.106	19.516	15.176	11.710	10.304	9.492	7.683	7.106
130.5	24.405	22.994	19.426	15.137	11.710	10.287	9.453	7.599	6.989
131.0	24.293	22.882	19.342	15.103	11.654	10.254	9.397	7.521	6.938
131.5	24.198	22.786	19.270	15.030	11.631	10.231	9.330	7.414	6.888
132.0	24.035	22.674	19.163	15.014	11.614	10.209	9.274	7.336	6.793
132.5	23.890	22.529	19.085	14.930	11.581	10.175	9.234	7.252	6.709
133.0	23.789	22.422	18.995	14.862	11.530	10.142	9.167	7.179	6.692
133.5	23.638	22.310	18.900	14.818	11.525	10.114	9.117	7.123	6.608
134.0	23.514	22.176	18.810	14.750	11.474	10.102	9.055	7.045	6.580
134.5	23.397	22.053	18.715	14.678	11.469	10.069	9.016	6.961	6.507
135.0	23.257	21.935	18.598	14.610	11.424	10.024	8.960	6.910	6.451
135.5	23.122	21.784	18.525	14.554	11.390	10.030	8.904	6.849	6.395
136.0	22.971	21.706	18.413	14.487	11.351	9.968	8.837	6.748	6.322
136.5	22.831	21.577	18.318	14.442	11.323	9.940	8.775	6.703	6.250
137.0	22.674	21.426	18.217	14.358	11.295	9.906	8.753	6.636	6.171
137.5	22.518	21.297	18.116	14.297	11.239	9.878	8.669	6.558	6.143
138.0	22.350	21.162	18.010	14.241	11.228	9.828	8.641	6.524	6.126
138.5	22.221	21.017	17.920	14.168	11.194	9.828	8.618	6.468	6.054

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CANDELA TABULATION - (Cont.)

139.0	22.053	20.899	17.802	14.084	11.133	9.811	8.540	6.390	6.009
139.5	21.907	20.748	17.690	14.017	11.105	9.772	8.501	6.345	5.953
140.0	21.795	20.614	17.539	13.961	11.088	9.761	8.462	6.283	5.897
140.5	21.638	20.451	17.461	13.854	11.021	9.710	8.389	6.238	5.846
141.0	21.482	20.345	17.338	13.815	10.998	9.671	8.366	6.160	5.779
141.5	21.347	20.166	17.237	13.726	10.954	9.666	8.310	6.104	5.723
142.0	21.185	20.031	17.108	13.636	10.898	9.632	8.266	6.037	5.656
142.5	20.989	19.891	17.002	13.569	10.864	9.593	8.238	6.009	5.589
143.0	20.832	19.729	16.878	13.479	10.825	9.582	8.198	5.919	5.572
143.5	20.664	19.566	16.744	13.390	10.780	9.531	8.131	5.869	5.522
144.0	20.507	19.415	16.626	13.322	10.718	9.492	8.120	5.824	5.488
144.5	20.339	19.258	16.509	13.250	10.679	9.503	8.109	5.790	5.449
145.0	20.160	19.124	16.402	13.138	10.629	9.458	8.047	5.718	5.421
145.5	19.998	18.967	16.279	13.076	10.595	9.419	8.008	5.690	5.415
146.0	19.813	18.799	16.145	12.992	10.539	9.374	7.991	5.650	5.449
146.5	19.650	18.626	16.005	12.902	10.478	9.358	7.941	5.566	5.443
147.0	19.488	18.474	15.898	12.813	10.422	9.324	7.946	5.527	5.426
147.5	19.320	18.284	15.770	12.723	10.405	9.296	7.896	5.494	5.443
148.0	19.118	18.127	15.630	12.639	10.332	9.257	7.862	5.449	5.454
148.5	18.928	17.976	15.512	12.544	10.304	9.223	7.834	5.398	5.466
149.0	18.726	17.825	15.372	12.466	10.237	9.201	7.823	5.348	5.494
149.5	18.586	17.651	15.238	12.354	10.175	9.184	7.790	5.326	5.522
150.0	18.396	17.461	15.103	12.275	10.108	9.128	7.762	5.286	5.516
150.5	18.211	17.315	14.963	12.186	10.074	9.117	7.745	5.264	5.550
151.0	18.032	17.114	14.840	12.074	10.013	9.072	7.711	5.258	5.589
151.5	17.870	16.951	14.711	11.995	9.957	9.050	7.683	5.214	5.566
152.0	17.634	16.800	14.560	11.917	9.906	9.005	7.661	5.163	5.555
152.5	17.444	16.604	14.437	11.799	9.839	8.982	7.616	5.158	5.578
153.0	17.298	16.419	14.269	11.682	9.794	8.954	7.622	5.135	5.572
153.5	17.074	16.257	14.151	11.592	9.727	8.910	7.610	5.130	5.594
154.0	16.884	16.078	14.000	11.502	9.671	8.870	7.566	5.118	5.578
154.5	16.677	15.887	13.843	11.390	9.621	8.831	7.566	5.118	5.566
155.0	16.470	15.691	13.709	11.284	9.570	8.786	7.532	5.113	5.566
155.5	16.285	15.501	13.569	11.172	9.503	8.753	7.487	5.124	5.600
156.0	16.106	15.333	13.418	11.094	9.436	8.730	7.487	5.130	5.600
156.5	15.859	15.148	13.255	10.970	9.397	8.680	7.487	5.107	5.634
157.0	15.708	14.974	13.126	10.853	9.307	8.646	7.454	5.062	5.622
157.5	15.490	14.784	12.964	10.746	9.234	8.590	7.442	5.040	5.594
158.0	15.294	14.577	12.835	10.657	9.184	8.562	7.437	5.001	5.594
158.5	15.120	14.414	12.701	10.534	9.100	8.518	7.409	4.928	5.589
159.0	14.902	14.235	12.527	10.422	9.033	8.456	7.398	4.900	5.594
159.5	14.700	14.034	12.382	10.326	8.966	8.439	7.386	4.833	5.600
160.0	14.493	13.832	12.225	10.186	8.893	8.378	7.347	4.827	5.594
160.5	14.308	13.647	12.079	10.080	8.831	8.355	7.314	4.799	5.589
161.0	14.090	13.446	11.911	9.979	8.770	8.299	7.280	4.788	5.634
161.5	13.854	13.255	11.771	9.834	8.686	8.254	7.230	4.721	5.656
162.0	13.636	13.065	11.581	9.710	8.618	8.198	7.179	4.676	5.684
162.5	13.429	12.869	11.435	9.615	8.579	8.159	7.101	4.626	5.684
163.0	13.222	12.662	11.278	9.486	8.473	8.103	6.927	4.592	5.695
163.5	12.998	12.477	11.105	9.374	8.428	8.047	6.742	4.508	5.729
164.0	12.813	12.270	10.954	9.268	8.361	8.030	6.513	4.368	5.712
164.5	12.583	12.057	10.791	9.117	8.277	7.963	6.227	4.245	5.606
165.0	12.365	11.844	10.629	8.999	8.198	7.857	5.964	4.183	5.438
165.5	12.130	11.654	10.461	8.865	8.126	7.734	5.684	4.155	5.214
166.0	11.928	11.446	10.287	8.758	8.030	7.538	5.348	4.133	4.956
166.5	11.687	11.228	10.091	8.641	7.924	7.269	5.068	4.077	4.592

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CANDELA TABULATION - (Cont.)

167.0	11.441	11.021	9.934	8.529	7.756	6.983	4.844	4.049	4.161
167.5	11.222	10.814	9.772	8.389	7.515	6.642	4.620	3.931	3.786
168.0	10.970	10.567	9.548	8.282	7.179	6.272	4.480	3.853	3.338
168.5	10.741	10.349	9.380	8.148	6.882	5.925	4.390	3.758	2.923
169.0	10.506	10.147	9.223	7.946	6.479	5.555	4.290	3.573	2.430
169.5	10.259	9.934	9.016	7.700	6.121	5.197	4.250	3.371	1.904
170.0	10.002	9.705	8.809	7.370	5.718	4.922	4.172	3.080	1.417
170.5	9.755	9.414	8.590	7.028	5.376	4.743	4.060	2.722	1.025
171.0	9.503	9.145	8.271	6.670	5.090	4.564	3.970	2.408	0.627
171.5	9.274	8.915	7.997	6.294	4.894	4.463	3.814	2.139	0.414
172.0	9.005	8.658	7.728	5.936	4.721	4.390	3.545	1.820	0.370
172.5	8.775	8.305	7.353	5.673	4.570	4.262	3.231	1.506	0.364
173.0	8.372	7.986	6.994	5.426	4.441	4.116	2.912	1.204	0.347
173.5	7.890	7.622	6.591	5.135	4.278	3.819	2.492	1.019	0.297
174.0	7.633	7.151	6.126	4.900	4.144	3.388	2.061	0.941	0.258
174.5	7.213	6.698	5.706	4.631	3.892	2.957	1.646	0.846	0.218
175.0	6.709	6.210	5.303	4.295	3.528	2.464	1.316	0.773	0.168
175.5	6.054	5.645	4.827	3.954	3.080	1.926	1.126	0.638	0.123
176.0	5.398	5.018	4.357	3.545	2.604	1.462	0.997	0.532	0.162
176.5	4.693	4.312	3.802	2.968	2.050	1.126	0.851	0.375	0.129
177.0	3.870	3.595	3.181	2.380	1.551	0.946	0.717	0.246	0.106
177.5	3.018	2.789	2.593	1.854	1.142	0.834	0.605	0.162	0.106
178.0	2.111	1.954	1.977	1.260	0.840	0.694	0.476	0.134	0.179
178.5	1.344	1.249	1.305	0.801	0.678	0.571	0.358	0.146	0.123
179.0	0.790	0.750	0.700	0.498	0.526	0.454	0.280	0.134	0.140
179.5	0.280	0.426	0.269	0.269	0.364	0.364	0.174	0.140	0.196
180.0	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	22.83	N.A.	7.40
0-30	52.42	N.A.	16.90
0-40	88.21	N.A.	28.50
0-60	150.93	N.A.	48.70
0-80	199.69	N.A.	64.40
0-90	219.39	N.A.	70.80
10-90	214.21	N.A.	69.10
20-40	65.38	N.A.	21.10
20-50	99.11	N.A.	32.00
40-70	88.57	N.A.	28.60
60-80	48.75	N.A.	15.70
70-80	22.90	N.A.	7.40
80-90	19.70	N.A.	6.40
90-110	36.02	N.A.	11.60
90-120	51.89	N.A.	16.70
90-130	65.17	N.A.	21.00
90-150	83.07	N.A.	26.80
90-180	90.65	N.A.	29.20
110-180	54.63	N.A.	17.60
0-180	310.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	5.17
10-20	17.65
20-30	29.59
30-40	35.79
40-50	33.73
50-60	29.00
60-70	25.85
70-80	22.90
80-90	19.70
90-100	18.36
100-110	17.66
110-120	15.88
120-130	13.27
130-140	10.40
140-150	7.51
150-160	4.81
160-170	2.36
170-180	0.41

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FAB GRAY 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	0
1	100	94	89	85	94	89	85	81	80	76	73	71	68	66	63	61	59	54	0
2	90	81	74	68	85	77	70	65	69	64	59	61	57	53	54	51	48	44	0
3	82	71	63	56	77	67	60	54	60	54	49	54	49	44	47	44	40	37	0
4	75	63	54	47	70	60	51	45	53	47	41	48	42	38	42	38	34	31	0
5	69	56	47	40	65	53	45	39	48	41	36	43	37	33	38	33	30	27	0
6	63	50	41	35	60	48	40	34	43	36	31	38	33	28	34	30	26	23	0
7	59	45	37	31	55	43	35	29	39	32	27	35	29	25	31	27	23	21	0
8	54	41	33	27	51	39	31	26	36	29	24	32	26	22	29	24	21	18	0
9	51	38	30	24	48	36	28	23	33	26	22	29	24	20	27	22	19	16	0
10	47	35	27	22	45	33	26	21	30	24	20	27	22	18	25	20	17	15	0

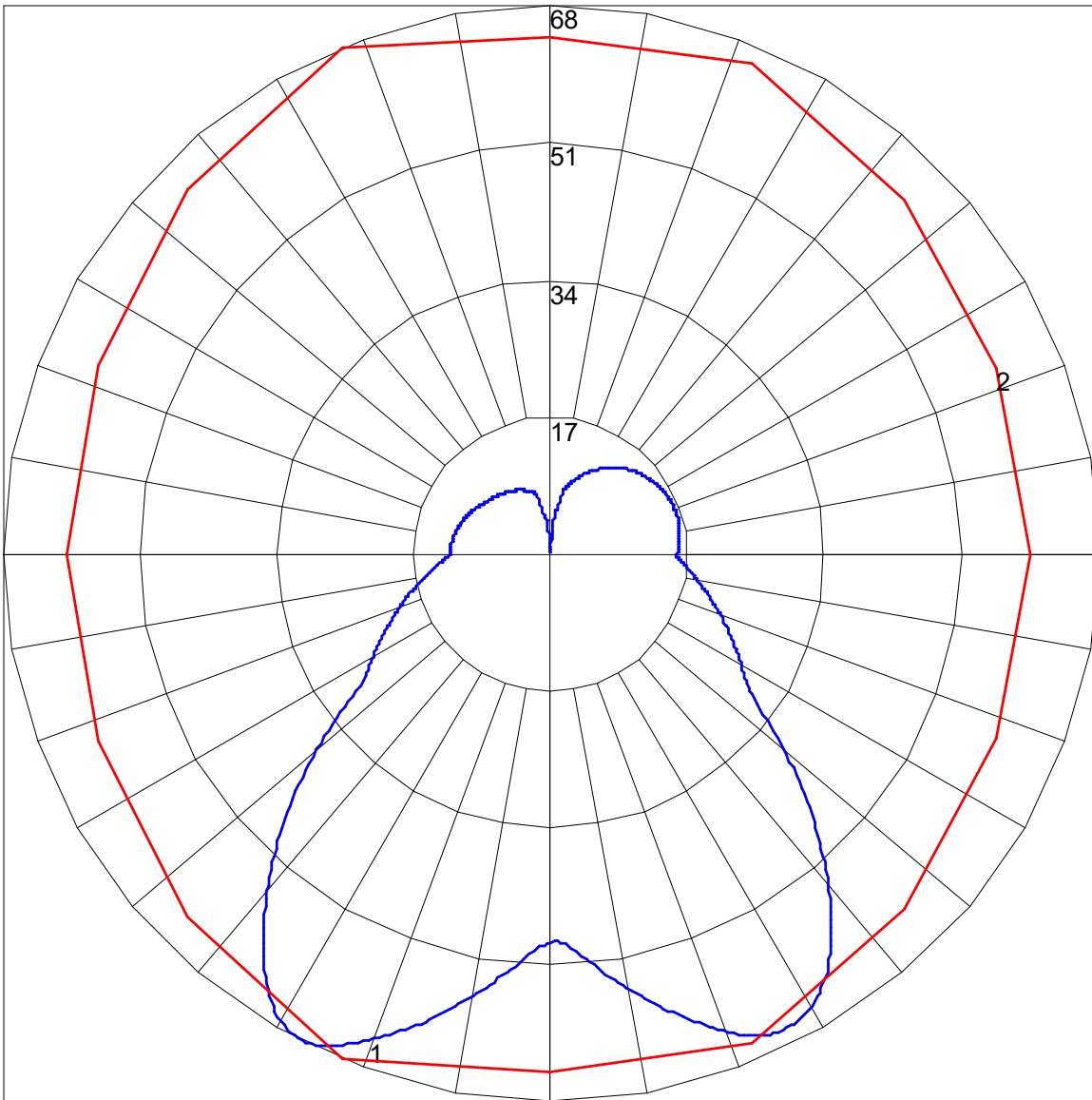
IES INDOOR REPORT
PHOTOMETRIC FILENAME : FAB GRAY 1 LIGHT.IES

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	11.5	12.6	12.2	13.4	14.3	8.9	10.1	9.6	10.8	11.8
	3H	14.0	15.1	14.8	15.9	16.8	10.7	11.8	11.5	12.6	13.5
	4H	15.3	16.3	16.1	17.1	18.1	11.6	12.6	12.3	13.4	14.3
	6H	16.6	17.5	17.3	18.3	19.3	12.3	13.3	13.1	14.1	15.0
	8H	17.2	18.1	18.0	18.9	19.9	12.7	13.5	13.5	14.4	15.4
	12H	17.8	18.6	18.6	19.4	20.4	13.0	13.8	13.8	14.6	15.7
4H	2H	11.9	12.9	12.7	13.7	14.6	9.7	10.7	10.5	11.5	12.5
	3H	14.7	15.5	15.4	16.3	17.3	11.8	12.7	12.6	13.5	14.5
	4H	16.1	16.9	16.9	17.7	18.7	12.8	13.6	13.6	14.4	15.4
	6H	17.5	18.2	18.4	19.1	20.1	13.7	14.4	14.5	15.2	16.2
	8H	18.3	18.9	19.1	19.8	20.8	14.1	14.7	14.9	15.6	16.6
	12H	19.0	19.6	19.8	20.5	21.5	14.5	15.1	15.3	15.9	17.0
8H	4H	16.3	17.0	17.1	17.8	18.9	13.4	14.0	14.2	14.9	15.9
	6H	18.0	18.5	18.8	19.4	20.4	14.5	15.1	15.3	15.9	17.0
	8H	18.8	19.3	19.7	20.2	21.3	15.0	15.5	15.9	16.4	17.5
	12H	19.8	20.2	20.6	21.1	22.2	15.6	16.0	16.4	16.9	18.0
12H	4H	16.3	16.9	17.2	17.8	18.8	13.5	14.1	14.4	15.0	16.0
	6H	18.0	18.5	18.9	19.4	20.5	14.7	15.2	15.6	16.1	17.2
	8H	19.0	19.4	19.8	20.3	21.4	15.4	15.8	16.2	16.7	17.8

Maximum UGR = 22.2

POLAR GRAPH



Maximum Candela = 68.466 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.)